



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

February 24, 2004

Mr. Gene Petty, President
A-1 Sandrock, Inc.
2032 Bishop Road
Greensboro, North Carolina 27406

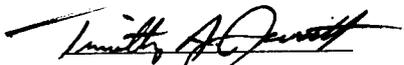
Subject: A-1 Sandrock, Inc. Phase 1 C&D Landfill
Permit # 41-17, Greensboro, Guilford County, North Carolina

Dear Mr. Petty:

Enclosed is a solid waste Permit to Construct for the referenced 8.18 acre Phase 1 C&D landfill portion of the proposed solid waste management facility and the accompanying conditions for the above referenced facility, issued in accordance with N.C.G.S. 130A-294 and the NC Solid Waste Management Rules.

Please note Construction Condition #11, which identifies the pre-operational requirements for this facility that need to be met prior to the issuance of a Permit to Operate. Please review the conditions of the permit carefully and if you have any questions or comments please contact me at (336) 771-4608 ext. 204 in the Winston-Salem Regional Office or contact Hugh Jernigan at ext. 206 for the pre-construction site inspection/meeting.

Sincerely,


Timothy A. Jewett
Western Area Engineer
Solid Waste Section

cc: Jim Coffey, SWS
Brent Rockett, SWS
Hugh Jernigan, SWS
David Garrett, P.G., P.E.

~~Raleigh Central Files: A-1 Sandrock, Inc. (C&D), Guilford County,~~

Permit No. 41-17 \\H:\WESTERN\RC&D\41-17C&D\F.PTC.wpd



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FACILITY PERMIT NO: 41-17
DATE ISSUED (PTC): 24 FEBRUARY 2004

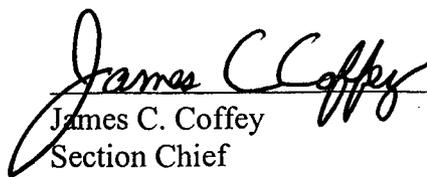
SOLID WASTE PERMIT

A-1 SANDROCK, INC.

is hereby issued a PERMIT TO CONSTRUCT a

CONSTRUCTION AND DEMOLITION LANDFILL

located on the south side of Bishop Road (SR 1116) between the intersection of Bishop Road with Groomtown Road and Viewmont Road, south of the City of Greensboro, in the Sumner Township, Guilford County, North Carolina in accordance with Article 9, Chapter 130A of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The facility is located and described by the construction plan submitted, the property deeds, and the permit application narrative.


James C. Coffey
Section Chief
Solid Waste Section

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone 919-733-4996 \ FAX 919-715-3605 \ Internet <http://wastenotnc.org>

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A-1 SANDROCK, INC.

**SOLID WASTE PERMIT
CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL UNIT**

CONDITIONS OF PERMIT:

GENERAL:

1. This permit shall not be effective unless the certified copy is filed in the Register of Deeds office and indexed in the grantor index under the name of the owner of the land in the county or counties in which the land is located. The certified copy of the permit, affixed with the Register's seal and the date, book, and page number of recording shall be returned to the Division of Waste Management (the Division).
2. When this property is sold, leased, transferred or conveyed, the deed or other instrument of transfer shall contain in the description section in no smaller type than that used in the body of the deed or instrument, a statement that the property has been used as a sanitary landfill.
3. The permit is for a five year period, as per 15A NCAC 13B .0201(c) or sooner, according to the issuance date of the permit to operate. Modifications to the facility may be required in accordance with the rules in effect at the time of review. This facility may receive solid waste that is generated within a service area defined as 50 miles from the landfill as described in the Guilford County franchise agreement.
4. The approved plan for this facility is described in Attachment 1, "List of Documents for Approved Plan". Where discrepancies exist, the most recent submittal and these Conditions shall govern. Some components of the approved plan are reiterated in these Conditions.
5. This permit is not transferable.
6. A copy of this permit, the approved plans, and all pertinent records shall be maintained on-site at the facility and made available to the Solid Waste Section (SWS) upon request.
7. The owner/operator is responsible for obtaining any and all permits and approvals necessary for the development of this project including approval from appropriate agencies for a General or Individual NPDES Stormwater Discharge Permit.

Construction and Operation:

8. This permit is for the development of the A-1 Sandrock, Inc. 8.18 acre Phase 1 C&D Landfill within the approved facility description, in accordance with the approved plans prepared by David Garrett, P.G., P.E. (revisions dated 22 January, and 12 February 2003). Operation will be approved when documentation is submitted to the Section certifying the site is constructed according to the approved plans.
9. This solid waste management facility is permitted to receive the following waste types:
 - a. Land-clearing debris as defined in G.S. 130A-290, specifically, solid waste that is generated solely from land-clearing activities, such as stumps, trees, etc.;
 - b. Inert debris defined as solid waste which consists solely of material that is virtually inert, such as brick, concrete, rock and uncontaminated soil;
 - c. Asphalt in accordance with G.S. 130A-294(m);
 - d. Construction and demolition debris defined as solid waste resulting solely from construction, remodeling, repair or demolition operations on pavement, buildings, or other structures;

Note: Yard trash defined as solid waste consisting solely of vegetative matter resulting from landscaping maintenance (see G.S. 130A-290) is banned from disposal in this facility as per NC General Statutes.

10. All sedimentation and erosion control measures will be conducted in accordance with the Sedimentation Control Act codified at 15 NCAC 4. Native vegetation shall be established on the completed landfill.
11. The following requirements shall be met prior to operation of this facility:
 - a. A-1 Sandrock, Inc. or its consultant shall provide documentation to the Division that the site preparation (grading, placement of fill if applicable, maintaining 4 feet separation between waste and groundwater, etc.) has occurred in accordance with the construction plan and the conditions specified herein.
 - b. The owner's geologist shall examine the cell excavation and note any pertinent geological features exposed during the construction process and shall notify the Solid Waste Section Hydrogeologist of these findings.
 - c. Site inspection shall be made by a representative of the Division.
 - d. Signs shall be posted at the facility in accordance with the Access and Safety Requirements under Operation Condition No. 12 listed below.
 - e. Surface water monitoring locations shall be established and groundwater monitoring wells (see Monitoring and Reporting Requirements) shall be installed. A baseline sampling event for background water quality shall be performed. Well construction records, boring logs, and evidence that a baseline sampling has been conducted shall

- be submitted to the Section Hydrogeologist for review and approval prior to operation (see Monitoring and Reporting Conditions below).
- f. Recordation procedures for the permit shall be implemented as described above in General Conditions Numbers 1 and 2.
 - g. A comprehensive Operations Plan shall be submitted to the Division in accordance with 15A NCAC 13B .0505.

12. Operation of the facility shall occur in accordance with the NC Solid Waste Management Rules 15A NCAC 13B .0505, "Operational Requirements for Sanitary Landfills", the approved Operations Plan prepared by David Garrett, P.G., P.E. dated September 2002, and the following specific conditions:

Waste Acceptance and Disposal

- a. The facility shall accept only those solid wastes which it is permitted to receive.
- b. No municipal solid waste, hazardous waste, industrial waste or liquid waste shall be accepted for disposal.
- c. Waste shall be restricted to the smallest area feasible and compacted as densely as practical into cells.
- d. The permittee shall implement a program at the facility for detecting and preventing the disposal of unacceptable wastes. The program shall include, at a minimum:
 - i. Random inspections of incoming loads or other comparable procedures;
 - ii. Record keeping which documents these inspections;
 - iii. Training of personnel to recognize hazardous, liquid, and other unauthorized waste types;
 - iv. Development of a contingency plan to properly manage any identified hazardous or problem wastes; The plan must address identification, removal, storage, and final disposition of these wastes.

Cover Material Requirements

- e. Operational soil cover of at least six inches shall be placed at least once per week or when the active area reaches $\frac{1}{2}$ acre in size or more often as necessitated by the nature of the waste so as to prevent the site from becoming a visual nuisance and to prevent fire, windblown materials, vectors or water infiltration.
- f. Areas which will not have additional waste placed on them for 12 months or more, but where final termination of operations has not occurred, shall be covered with a minimum of one foot of soil cover.
- g. After final termination of disposal operations at the site, or major part thereof, or upon revocation of a permit, the final cover system shall be installed.

Access and Safety

- h. The facility shall be adequately secured by means of gates, chains, berms, fences, or other security measures approved by the Division to prevent unauthorized entry.
- i. An attendant shall be on duty at the site at all times while it is open for public use to ensure compliance with operational requirements.
- j. The access road to the site shall be of all-weather construction and maintained in good condition.
- k. Dust control measures shall be implemented when necessary.
- l. Signs providing information on dumping procedures, the hours of operation, the permit number, the emergency contact, and other pertinent information shall be posted at the site entrance.
- m. Signs shall be posted stating that no MSW, hazardous waste, industrial waste or liquid waste can be received.
- n. Traffic signs or markers shall be provided as necessary to promote an orderly traffic pattern to and from the discharge area and to maintain efficient operating conditions.
- o. The removal of solid waste from the facility is prohibited unless the owner/operator approves and the removal is not performed on the working face.
- p. Barrels and drums shall not be disposed of unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained therein, except fiber drums containing asbestos.
- q. Open burning of solid waste is prohibited.
- r. The concentration of explosive gases generated at the facility shall not exceed:
 - i. twenty-five percent of the limit for gases in site structures (excluding gas control or recovery system components); and
 - ii. the lower explosive limit for gases at the facility boundary.

Erosion and Sedimentation Control

- s. Adequate sedimentation and erosion control measures shall be practiced to prevent silt from leaving the site.
- t. Adequate sedimentation and erosion control measures shall be practiced to prevent excessive on-site erosion.
- u. Provisions for a vegetative ground cover sufficient to restrain erosion must be accomplished within 30 working days or 120 calendar days upon completion of any phase of C&D landfill development.

Drainage Control and Water Protection Requirements

- v. Surface water shall be diverted from the operational area.
- w. Surface water shall not be impounded over or in waste.

- x. A separation distance of at least four feet shall be maintained between waste and the ground-water table.
 - y. Solid waste shall not be disposed of in water.
 - z. Leachate shall be contained on site or properly treated prior to discharge. An NPDES permit may be required prior to discharge of leachate to surface waters.
13. All pertinent landfill operating personnel will receive training and supervision necessary to properly operate this C&D landfill unit in accordance with G.S. 130A-309.25 and addressed by memorandum dated 29 November 2000 (enclosed). During operating hours a certified landfill operator shall be on-site.
14. A closure and post-closure plan must be submitted for approval at least 90 days prior to closure or partial closure of any landfill unit. The plan must include all steps and measures necessary to close and maintain the facility in accordance with all rules in effect at that time. At a minimum, the plan shall address the following:
- a. Design of a final cover system;
 - b. Construction and maintenance/operation of the final cover system and erosion control structures;
 - c. Surface water, ground water, and explosive gas monitoring.

MONITORING AND REPORTING REQUIREMENTS:

15. Ground water quality at this facility is subject to the classification and remedial action provisions referenced in 15A NCAC 2L. Water quality monitoring for the C&D landfill shall occur according to approved plan and the following conditions:
- a. The permittee shall sample the monitoring wells on a semi-annual basis, or as directed by the SWS Hydrogeologist.
 - b. Monitoring well design and construction, sampling methods and sampling equipment shall conform to specifications found in Attachment 2, "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities". Sampling parameters shall conform to those found in Attachment 3, "Sampling and Analysis Requirements".
 - c. Prior to the acceptance of any waste at the facility, a baseline sampling event shall be completed. The results of this sampling event shall be submitted to the Section Hydrogeologist in a timely manner. (See Construction and Operation Condition 11(e).)
 - d. Well completion records and boring logs shall be submitted to the Division at the same time as the results of the initial sampling event or within 30 days of any new well completion (See Construction and Operation Condition 11(e)).
 - e. A geologist shall be in the field to supervise well installation. The exact locations, screened intervals, and nesting of the wells shall be established after consultation with the SWS Hydrogeologist at the time of well installation.

- f. A readily accessible unobstructed path shall be initially cleared and maintained so that four-wheel drive vehicles may access the monitoring wells at all times.
 - g. The permittee shall establish locations for surface water sampling. Surface water shall be sampled and analyzed semi-annually according to the protocol and parameters required by the Division at the time of sampling.
16. The permittee shall maintain a record of all monitoring events and analytical data. Reports of the analytical data for each water quality monitoring sampling event shall be submitted to the Section in a timely manner.
17. Explosive gas monitoring shall be performed as needed to ensure compliance with the standards in Rule .0503 (2)(a).
18. The permittee shall maintain a record of the amount of solid waste received at the facility, compiled on a monthly basis. Scales shall be used to weigh the amount of waste received.
19. On or before 01 August of each year (or an earlier date as requested by the Solid Waste Section), the permittee shall report the amount of waste received (in tons) at this facility and disposed of in the landfill to the Solid Waste Section and to all counties from which waste was accepted, on forms prescribed by the Section. This report shall include the following information:
- a. The reporting period shall be for the previous year, beginning 01 July and ending on 30 June.
 - b. The amount of waste received and landfilled in tons, compiled on a monthly basis, according to Condition 4 described above, and
 - c. Documentation that a copy of the report has been forwarded to all counties from which waste was accepted.
20. If, during the operational life of the facility, it becomes apparent that the operations are impacting ground water adversely, the Solid Waste Section will require landfilling activities to cease and closure of the operating unit(s).
21. All records shall be maintained on-site and made available to the SWS upon request, specifically records generated by conditions 9, 11, 12, 13, 14, 15, 16 & 17.

ATTACHMENT 1

List of Additional Documents for Permit No. 41-17:

PERMIT TO CONSTRUCT:

1. Document titled "Site Application Report - Part 1 of 2, Hydrogeologic Investigation and Conceptual Plan, Construction and Demolition Debris Landfill (South Side)," prepared for A-1 Sandrock, Inc. by David Garrett, P.G., P.E. dated June 2002 and revised 20 August, 25 November 2002, and 6 November 2003 (Including a Drawing set Sheets 1-10).
2. Document titled "Site Application Report - Part 2 of 2, Facility Plan, Engineering and Design Hydrogeologic Report, A-1 Sandrock CDLF (South Facility), Guilford County, North Carolina," prepared for A-1 Sandrock, Inc. by David Garrett, P.G., P.E. dated September 2002 and revised 22 January, 12 February, and 30 March 2003 (Including a Drawing set Sheets 1-21). Also included in the document are a Hydrogeologic Report, Operations Manual, S&EC Plan and a Water Quality Monitoring Plan.
3. Franchise Agreement between A-1 Sandrock, Inc. and Guilford County, North Carolina dated 6 November 2003 including Articles of Incorporation, disposal fee limits, property description, and Articles of Amendments.
4. Sediment and Erosion control plan approval from the City of High Point dated 25 February 2003.