

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Solid Waste Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
William L. Meyer, Director



January 30, 1996

Mr. Lee Smith, County Manager
County of Washington
PO Box 1007
Plymouth, North Carolina 27962

Re: Solid Waste **PERMIT TO OPERATE**: No. 94-04
Washington County Scrap Tire Processing/Scrap Tire Monofill

Dear Mr. Smith:

The referenced **PERMIT TO OPERATE** is issued in accordance with N.C.G.S. 130A-294 and the N.C. Solid Waste Management Rules, 15A NCAC 13B.

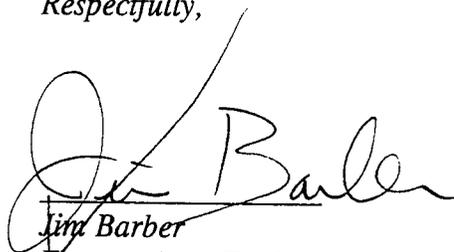
This **PERMIT TO OPERATE** is for Phase 1 of the scrap tire monofill only, consistent with Drawing 2 of 4 (Site Plan) of the approved plans. This **PERMIT TO OPERATE** a scrap tire processing/scrap tire monofill is issued to Washington County as the owner and operator of the facility.

Please refer to the **GENERAL** Conditions of the permit issued on 9 August 1995 for for general terms of the Solid Waste Permit. The **CONSTRUCTION AND OPERATION** conditions describe permitted fill areas, acceptable waste types, landfill operation, and requirements which must be satisfied prior to operation of the facility as a Scrap Tire Processing/Scrap Tire Monofill. Specific requirements for groundwater monitoring and facility record keeping and reporting are described in the **MONITORING AND REPORTING** conditions.

Mr. Smith
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January 30, 1996

Please review the Conditions of Permit, issue 9 August 1995, thoroughly and contact me if you have any questions or if you require further clarification. A copy of the scrap tire processing/scrap tire monofill operating conditions, pages 10 thru 13, are enclosed for reference. Mr. Chuck Boyette is the Section's Waste Management Specialist for this area and can be contacted at the DEHNR Washington Regional Office, 1424 Carolina Ave., Washington, NC 27889 or by phone at (919) 975-3716.

Respectfully,

A handwritten signature in black ink, appearing to read "Jim Barber". The signature is written in a cursive style with a large initial "J" and "B".

Jim Barber
Eastern Area Engineer
Solid Waste Section

Enclosure

cc: Jim Coffey
Terry Dover
Chuck Boyette
Alan Keith

PERMIT NO.: 94-04
DATE ISSUED: 01/30/96

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF SOLID WASTE MANAGEMENT
P.O. BOX 27687 RALEIGH, N.C. 27611

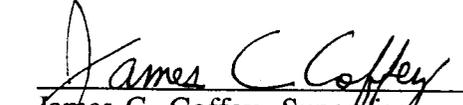
SOLID WASTE PERMIT

Washington County

is hereby issued a permit to operate a

Scrap Tire Processing/Scrap Tire Monofill

located adjacent to the existing Washington County landfill, at the end of S.R. 1363, located off of N.C. Highway 308 between Plymouth and Roper, Washington 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 in the approved plans and the legal description of the site included in this permit.


James C. Coffey, Supervisor
Permitting Branch
Solid Waste Section

2. Washington County should employ a record keeping method that accounts for "tires received" and "tires processed" on a daily(cumulative) basis to ensure that the storage limit is not being exceeded as described in 15A NCAC 13B .1110 (a); " A scrap tire processing facility shall not accept any scrap tires for processing above the number which can be processed daily if it has reached its storage limit". Units of measure shall be consistent with Solid Waste rules equating 100 tires/ton or 10 tires/cu. yd. and the record keeping shall be made available at the time of inspection or at the request of the Solid Waste Section.
3. A minimum of seventy-five percent (75%) of tire derived products must be disposed of in Washington County's tire monofill or shipped off-site on an annual basis. Adjustments to this percentage to allow additional amounts of storage or adjustments to allow additional length of storage time must be approved by the Solid Waste Section.
4. This facility shall conform to the operating procedures set forth under section 0.1107 of the Solid Waste Management Rules and the following specific conditions:
 - a. Within one (1) month after termination of operations at the site or a major portion thereof or upon revocation of this permit, all scrap tire and scrap tire derived products shall be removed to a permitted solid waste management facility approved to received this type of waste.
 - b. The Division may require further action to be taken in order to correct any condition which is or may become injurious to the public health or environment.
 - c. Adequate fire protection measures shall be in place and fire prevention procedures shall be practiced at all times. Equipment shall be provided to control accidental fires or arrangements shall be made with the local fire protection agency to immediately provide fire-fighting services when needed.
 - d. Adequate control measures and practices shall be employed to prevent any pollutants from contaminating surface water, groundwater, and soil.
 - e. A copy of the Emergency Preparedness Manual must be kept readily available to employees on the site at all times.
 - f. The site shall be adequately secured to prevent unauthorized entry. An attendant shall be on duty at the site at all times while it is open for public use to assure compliance with operation requirements.

- g. Tires shall be stored in accordance with the approved site plan. Any proposed changes in storage or procedures shall require approval by the Solid Waste Section. Out door tires storage shall comply with 15 NCAC 13B .1107 (2).
5. A report shall be submitted annually on March 1 to the Division containing the information required under 15A NCAC 13B. 1110 (d).
6. A sign with the name of the facility and permit number must be erected and maintained at the entrance of the facility.

SCRAP TIRE MONOFILL:

1. This solid waste disposal site is permitted to receive scrap tires only.
2. All future necessary maintenance and closure activity shall be the responsibility of Washington County, the permittee. Necessary maintenance will be specified in the closure letter at the time of closure.
3. This facility shall conform to all operating procedures described in the approved plan, in accordance with Section 0.1108 of 15A NCAC 13B and as specified herein.
 - a. Tires shall be chopped or split, restricted to the smallest area feasible and compacted as densely as practical into cells.
 - b. Tires shall be covered twice per week with at least 6" of suitable cover or more frequently if necessary to prevent a public health nuisance. Areas which are inactive for 3 months or more shall be covered with a minimum of 12" of suitable cover. After six months or final termination of disposal activities or a major part thereof, a minimum of 24" of suitable compacted earth shall be provided.
 - c. Adequate erosion control measures shall be practiced to minimize on-site erosion and prevent off-site siltation.
 - d. Within six months after final termination of disposal operations at the site or a major part thereof or upon revocation of a permit, the area shall be stabilize with native grasses.

- e. Temporary seeding will be utilized as necessary to stabilize the site.
 - f. Surface water shall be diverted from operational areas and not allowed to impound over waste. All slopes shall be graded to promote run-off and minimize erosion.
 - g. A minimum separation distance of 4 feet between tires and ground water table shall be maintained. Tires **shall not** be disposed of in water.
 - h. Burning of tires is prohibited.
 - i. Equipment shall be maintained on-site to control fires.
 - j. Fires that occur at the tire monofill shall be reported to the Division within 24 hours and a written notification shall be submitted within 15 days.
 - k. All pertinent tire monofill operating personnel shall receive training and supervision necessary to properly operate this monofill.
 - l. The site shall be adequately secured by means of gates, chains, berms, fences, and other security measures approved by the Division to prevent unauthorized entry. A trained operator shall be on duty at all times while the facility is open to ensure compliance with operational requirements.
 - m. Adequate measures must be taken to minimize dust problems, control noise, and to operate in such a manner as not to create a nuisance or a potential public health hazard.
4. All sedimentation/erosion control activities will be conducted in accordance with the Sedimentation Control Act(15A NCAC 4) and the approved Erosion & Sedimentation Control plan.
5. On or before August 1, 1996 and each year thereafter, Washington County shall report the amount of scrap tires (in tons) received at this facility and disposed of in the scrap tire monofill or other approved landfill, to the Solid Waste Section on forms prescribed by the Section. This report shall include the following information:
- a. The reporting period shall be for the previous year, beginning July 1 and ending June 30;
 - b. The amount of waste received and landfilled in tons, compiled on a monthly basis.
6. All records shall be maintained on-site or at a alternate site, and made available to the Division of Solid Waste Management upon request.

DIEHL & PHILLIPS, P.A.

CONSULTING ENGINEERS

Telephone (919) 467-9972

Fax (919) 467-5327

CENTRAL FILE

PERMIT

94-04 WILLIAM C. DIEHL, P.E.

JOHN F. PHILLIPS, P.E.

219 East Chatham Street, Cary, North Carolina 27511

January 26, 1996

RECEIVED

JAN 29 1996

Mr. Jim Barber
Division of Solid Waste Management
Fayetteville Regional Office
NCDEHNR
225 Greene Street
Fayetteville, NC 28301

SOLID WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

Re: Certification of Construction of Tire Monofill
Washington County Landfill

Dear Jim:

Yesterday I visited the Washington County landfill to observe the construction of the tire monofill area within the landfill. County personnel have constructed the berms enclosing the tire monofill using the alum mud or processed silica which was stockpiled on the old sanitary landfill. My observation of the tire monofill construction indicates that the berms in the tire monofill area have been constructed sufficiently in accordance with the approved plans. The berms are properly located and the berm cross-section generally adheres to the approved plans. To date no waste has been deposited in the C&D area or the tire monofill area.

The berms for the construction and demolition waste (C&D) landfill are still under construction. County personnel have informed me that they will continue to construct the berms in the C&D area and intend to complete the remaining berms as soon as possible. The slopes of the berms for the tire monofill will need final dress-up to remove irregularities and to provide a finished cross-section consistent with the approved plans. The County intends to do the final dress-up and seeding of the tire monofill berms after all berms in both the tire monofill area and the C&D landfill area are complete.

The monitoring wells, shown on the approved plans, have been constructed and sampled for background levels. The well construction records and sample analyses were sent to the groundwater group in the Division of Solid Waste last week. The locking caps for the existing piezometers will be installed at a later date.

The tire slicer and temporary shed for the tire slicer will be placed in the tire monofill in the near future. The borrow area for the cover soils of the tire monofill has been cleared and is ready for

RECEIVED

JAN 29 1996

Mr. Jim Barber
January 26, 1996
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SOLID WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

use. The erosion control measures will be placed when borrow operations warrant their construction. The County currently maintains its scales and access control to the site.

To the best of our knowledge and belief, the tire monofill area of the Washington County landfill has been constructed sufficiently in accordance with the approved construction plans to allow disposal of scarp tires in the tire monofill area.

Contact our office if your require additional information. We request that you issue a permit for operation of the tire monofill for the Washington County landfill as soon as possible.

Sincerely,

Diehl & Phillips, P.A.



Alan R. Keith, P.E.
NC Registration 13371

1/26/96



cc: Norman Furlough
Lee Smith
Jim Coffey

94-04

DIEHL & PHILLIPS, P.A.

CONSULTING ENGINEERS

Telephone (919) 467-9972

Fax (919) 467-5327

WILLIAM C. DIEHL, P.E.

JOHN F. PHILLIPS, P.E.

219 East Chatham Street, Cary, North Carolina 27511

January 17, 1996

Mr. Jim Bateson
Division of Solid Waste Management
NC Dept Environment, Health and Natural Resources
P.O. Box 27687
Raleigh, NC 27611-7687

Re: Monitoring Well Information
C&D Landfill and Tire Monofill
County of Washington

Dear Jim:

Enclosed are the following for the referenced project:

1. Copy of Well Construction Records for Monitoring Wells C&D-1 through C&D-4.
2. Verification of ground elevation and top of well casing at Monitoring Wells C&D-1 through C&D-4 by Roanoke Land Surveying.
3. Appendix 1 Landfill Analysis for Monitoring Wells C&D-1 through C&D-4 from 10/10/95 background sampling event.
4. Map of landfill site with monitoring wells located.

The above information is for your review and use. The County of Washington is near completion of construction of the tire monofill portion of the facility and the County needs to place the tire monofill in operation. We are currently working with Jim Barber to complete the necessary documents to place the tire monofill in operation.

Contact our office if you require further information.

Sincerely,

Diehl & Phillips, P.A.



Alan R. Keith, P.E.

Enclosures

cc: Norman Furlough
Jim Barber ✓