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NORTHEAST DISTRICT



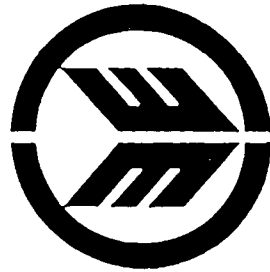
FINAL OPERATION PLAN

FOR

33628

TRAIL RIDGE LANDFILL

PLAN A



SUBMITTED BY

TRAIL RIDGE LANDFILL, INC.

Jacksonville, Florida



England-Thimby & Miller, Inc.

Consulting & Design Engineers
3131 St. Johns Bluff Road So Jacksonville, FL 32216

Date: Jan. 15, 1992
Revised April 24, 1992

Project No.: E91-126

**TRAIL RIDGE LANDFILL
FINAL OPERATION PLAN**

Revised: April 24, 1992

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APPENDIX

- I. Florida Department of Environmental Regulation Dredge and Fill
Permit No. 161821182
- II. Florida Department of Environmental Regulation Construction and
Operation Permit No. SC16-184444
- III. Florida Department of Transportation Connection
Permit No. 2-72-294-91-0203
- IV. Army Corps of Engineers Dredge and Fill
Permit No. 89NWQ-91177
- V. Phasing Drawings Nos. 9, 9A, 9B and 25A

OPERATION PLAN

A. Designation of Responsible Person(s)

An experienced General Manager selected from Waste Management of North America (WMNA) Corporate personnel will be responsible for the overall operation of the Trail Ridge Landfill. The manager's responsibility is to assure that operations at the site are performed in accordance with the procedures outlined in this Operating Plan.

The General Manager and the Site Supervisor will both be certified operators under Rule 17-703. One or both will be on-site during operating hours. The operating hours and site personnel are as follows:

1. Hours of Operation (Monday through Saturday)
 - a. Normal - 8:00 A.M. to 8:00 P.M.
 - b. Maximum Hours Open: 6:30 A.M.
Close: 10:00 P.M.
2. Peak and Off-Peak Hours
 - a. Peak - 11:00 A.M. to 5:00 P.M.
 - b. Off-Peak - 8:00 A.M. (6:30 A.M. maximum) to 11:00 A.M. and 5:00 P.M. to 8:00 P.M. (10:00 P.M. maximum)

If adjustment to these hours is necessary to accommodate the waste receipt rate, Florida Department of Environmental Regulation shall be notified prior to implementation.

3. Allocation of Personnel to Class I and Class III

PERSONNEL	TOTAL	CLASS I	CLASS III
General Manager	1	0.9	0.1
Equipment Operators	8	7*	1
Site Supervisor	1	0.9	0.1
Mechanic	1	0.9	0.1
Labors/Spotters	2	1.8	0.2
Clerical	3	2.7	0.3

*Class I Off-Peak 3

The staff outlined above and the equipment outlined in Section R are designed to operate the facility while receiving all Class I solid waste generated by Duval County of up to 2,600 tons per day (monthly average) with peak days of up to 3,000 tons per day.

B. Contingency Operations

The on-site entrance road will be an all-weather road and will be paved to a point beyond the ticket office/scale house. Haul roads beyond this point will be maintained for adverse weather condition usage.

Emergency conditions at the facility may be created by a natural disaster (hurricane and/or tornado), flooding and fire. Waste is not normally delivered to the site during emergency conditions, however, the following procedures will be implemented with the imminent threat of a major storm.

1. Daily cover will be compacted and applied to all exposed refuse.
2. All landfill equipment will be parked near natural wind screens, earthen mounds or tree areas.
3. All lightweight signs and equipment will be collected and stored in a secure area.
4. Work will begin in dry areas only when operations are resumed; refuse materials will not be deposited in standing water.

The water management system will allow disposal operations to continue during periods of inclement weather. Temporary berms and ditches will be utilized to drain stormwater away from the active face. The water management system will provide control of flood events and provides for segregation of the stormwater from the refuse.

In the event a natural disaster should occur in the area, operational hours will be extended after re-activation of the landfill as appropriate to meet the needs of the community.

C. Controlling the Type of Waste Received at the Site

Types of refuse to be accepted at the Class I landfill will typically consist of residential, office, commercial, and light industrial waste products. No hazardous wastes, infectious wastes, or bulk liquids will be disposed of at the landfill. The waste stream will be monitored since each vehicle entering the site must pass by the ticket office/scale house operator and will be checked on the working face by a spotter. In addition, the scale house will be equipped with camera/video monitor system which records a time-coded picture of each vehicle entering the site.

Asbestos will be landfilled in accordance with all requirements of Federal (40 CFR, Part 61, Subpart M), local and state regulations. Friable asbestos-containing waste will be accepted for disposal only if it has been thoroughly wetted (or otherwise bonded) and is contained in two sealed leak tight six mil thick impermeable bags or similar containers. Containers must be unbroken. Bags will have the OSHA required label. Each shipment will be accompanied by shipping papers.

Asbestos-containing waste will be disposed in an area separate from the active working face, and covered immediately with a minimum of six inches of soil or appropriate refuse. A coordinate grid system to identify the locations of disposed asbestos will be used at the Trail Ridge Landfill.

It is WMNA's corporate policy to control the disposal of acceptable non-hazardous Special Wastes in landfills. A written description of the Special Waste must be submitted by the customer. Before certain Special Wastes are accepted, a laboratory analysis of a representative sample may be required. Approval to dispose of a Special Waste is given only after review by the Waste Management Regional Technical Manager. A log of Special Wastes disposed is maintained at the landfill.

Additionally, special wastes which may be accepted and temporarily stored for off-site processing include batteries, waste oil and used tires. These special wastes will be temporarily stored at the white goods area.

The foregoing procedures are instituted to assure the environmental integrity of the landfill operation as well as the safety of landfill employees and the public.

D. Weighing or Measuring Incoming Waste

All waste entering the landfill site will be weighted and recorded on a daily basis at the Ticket/Scale House by the two incoming and one outgoing scales.

E. Vehicle Traffic Control and Unloading

1. Off-Site

County-wide access to the site is available via Interstate 10 (I-10) the major east-west arterial corridor in western Duval county and U.S. 301, a four laned facility which runs north-south from I-10 to the site entrance road.

Proposed improvements to U.S. 301 at the landfill entrance include acceleration/deceleration lanes, left hand turn lanes. All improvements will be in accordance with Florida Department of Transportation and City of Jacksonville Standards and criteria. The entrance will be attractively landscaped, irrigated and maintained commensurate with Waste Management pride in being an outstanding corporate neighbor.

2. On-Site

Access to the landfill will be provided by a paved entrance road from U.S. 301. This access road will be constructed at a minimum to City of Jacksonville Standards. An on-site all weather road system will allow operations to continue in all climatic conditions.

Traffic control on-site will be accomplished by signage which will direct traffic to the working face for unloading. Spotters will assist with traffic control at the working face by directing in-coming trucks to their final unloading area.

Access to areas restricted from traffic and refuse such as unprotected lined areas and construction areas shall be controlled by temporary earthen berms and barricades.

F. Method and Sequence of Filling Waste

1. Filling Procedures (Methods)

The working face at the Trail Ridge Landfill will be consistent with orderly traffic control, refuse spreading, and compaction activities.

Once the two feet of soil cover has been placed over the liner, the initial lift of refuse will be placed. In general, the initial fill will be placed from east to west in a 300 foot wide phase that corresponds to the leachate collection area. Extreme care will be taken during initial refuse placement to prevent damage to the liner.

Site personnel will take extreme care to assure that no objects are placed directly on the soil cover which could be pushed through to damage the liner. To further minimize potential damage to the liner by landfill equipment, the first lift will be spread in a careful and orderly manner and will be pushed downslope onto the initial two foot protective soil layer. In accordance with Special Condition No. 33, the placement of this initial waste will be supervised by a quality assurance engineer.

In the construction of subsequent fill lifts, refuse will be placed near the base of the working slope for working faces being pushed up or near the top of the working slope for working faces being pushed down. It will then be spread over the working face in uniform layers (approximately two feet thick) and then compacted. Additional vertical fill sectors will be accomplished to final fill height in each phase as soon as practical allowing adequate slopes for the construction of the following phase.

Typical refuse lifts will be approximately eight to twelve feet high. Working slopes will not be allowed to be any steeper than three horizontal to one vertical.

2. Phasing Plan (Sequence - See Drawing No. 9, 9A, 9B and 25A, Appendix V)

The phasing plan for development of the Trail Ridge Landfill is presented on the construction drawings (Appendix V). The completed landfill, indicating final contours after stabilization and allowing for 15 percent settlement, is also shown. The multi-phase development of the landfill is determined by several factors: the anticipated rate for landfilling, geomembrane installation, leachate collection system construction, groundwater, and surface water handling. All of these factors are accounted for in facilitating the development of the landfill in an environmentally sound manner.

Liner system installation and leachate collection system construction will be scheduled such that the subsequent fill sector is prepared and completed prior to completion of the preceding fill sector.

Anti-erosion Best Management Practices shall be utilized at all times. These shall include, hay bales, silt screens, etc. Special concern shall be taken between the time of clearing activities and the establishment of a grass cover.

SEQUENCE OF CONSTRUCTION AND PHASING

I. CLASS I

A. Site Preparation (Phase Ia)

1. Site clearing of Phase Ia area.
2. Rough grade to approximate base grade elevation.
3. Construct 6" compacted subgrade base ($k = 1 \times 10^{-5}$ cm/sec)
4. Finish grading to base grade elevation.
5. Install primary and secondary liner and leachate collection system.

6. Install 24" of protective sand blanket.
7. Begin refuse spreading and compaction with initial 2 feet layer, continue fill to 8' to 12' height.

B. Surface Water Management System (Phase Ia)

1. Clear complete stormwater management area.
2. Install perimeter stormwater collection pipe and ditch to serve Phase Ia.
3. Install stormwater outlet control structure and dispersion pond.
4. Construct stormwater pump station and filter beds (2).
5. Construct at a minimum the stormwater detention basin component to serve Phase Ia (See Drawing No. 25a.) All of the Class I stormwater borrow area may be constructed.
6. Install complete stormwater force main and wetland irrigation system adjacent to detention basin.
7. The stormwater pump station will maintain the groundwater elevation within the basin at elevation $100\pm$ approximately four (4) feet below the outfall elevation. Surface water inflow into the basin will be pumped into the surrounding wetlands by the permanent wetland irrigation system.
8. Excavation below elevation 100 MSL will be handled "wet" with no additional dewatering.

C. Leachate Collection and Storage

1. Install Phase Ia primary and secondary (detection) leachate collection sumps which are constructed with liner installation.
2. Install (5) primary and (1) secondary (detection) storage tanks within the concrete containment area built over the liner system.
3. Install pumps, level controls and piping to connect the leachate collection sumps (LCS) to the storage tanks.

D. Ancillary Facilities

Phase I and II

1. Construct paved entrance road
2. Install scales (3), scale houses
3. Construct temporary white goods area
4. Construct temporary administrative building

Phase III

1. Construct administration and operation building
2. Construct non-contract hauler drop-off area
3. Construct employee parking area

- E. Future phases of the Class I landfill liner construction will be a repeat of Items A, B, and C.

II. CLASS III

A. Site Preparation

1. Site clearing of Phase I area.
2. Finish grading to final base grade elevation.
3. Begin deposition of Class III refuse.

B. Surface Water Management System

1. Clear complete stormwater basin.
2. Install stormwater outlet control structure and dispersion pond.
3. Install stormwater pump station and filter beds (2).
4. Construct, at a minimum, the portion of stormwater detention basin to serve Phase I. All of the stormwater basin may be constructed.
5. Install perimeter surface water collection system to serve Phase I and connect to basin.
6. The stormwater pump station will maintain the water elevation within the basin at elevation 101 approximately two (2) feet below the outlet elevation. Excess stormwater and groundwater will be pumped into the adjacent wetlands by the permanent wetland irrigation system.

C. Phasing

The Class III filling will occur in 200'± wide sectors running north to south. The sectors will be filled east to west reaching final fill height as soon as practicable.

G. Waste Compaction and Application of Cover

The refuse of the Class I landfill shall be spread in layers of approximately two (2) feet in thickness and compacted to approximately one (1) foot in thickness or as thin a layer as practical before the next layer is applied. In general three to five passes with the compactor will be made on each layer of refuse.

Solid waste at the Class III landfill shall be spread in layers and compacted once every week using suitable heavy equipment. Bulky materials such as tree stumps or large pieces of concrete which are not easily compacted will be worked into other materials as much as practical.

A 6" thick daily initial cover will be applied to enclose each Class I landfill waste disposal cell except the working face which may be left uncovered if solid waste will be placed on the working face within 18 hours. A 6" thick initial cover will be applied to enclose each Class III landfill cell once every week.

An intermediate cover of one (1) foot of compacted earth in addition to the six (6) inch initial cover will be applied within seven (7) days of cell completion if final cover or an additional lift is not to be applied within 180 days of cell completion.

Final cover as shown on the Construction Drawings will be applied to those portions of the landfill which have been filled with waste to the extent of designed dimensions. The final cap and cover system including permanent vegetation shall be placed over the entire surface of each completed solid waste disposal exterior side slope unit within 180 days after final waste placement. An exterior side slope unit is that area between the toe of the slope and intermediate benches or terraces, or that area between two intermediate benches or terraces in which final waste deposition has occurred. The final cover consists of the following section from top to bottom:

- 12" Vegetated Top Soil Layer
- 12" Compacted Soil layer
- 12" Compacted Clay Layer ($k=1 \times 10^{-7}$ cm/sec)
- 12" Intermediate Soil Layer (top)
- 18" Initial Cover (Side Slopes)

H. Operations of Gas, Leachate and Stormwater Controls

1. Gas Collection System

The gas collection system will be installed as each phase reaches its final contour and within six months of final cover being applied. Initially, the gas extraction wells will be used to passively vent the accumulated methane gases. However, if odor becomes objectional at the site boundaries, the gas extraction wells have been designed for connection of an active gas extraction system including collection lines, blowers and flare station.

2. Leachate

The primary leachate collection system consists an 8" perforated HDPE collection pipe surrounded by an aggregate encasement which is covered by a geo-textile drainage fabric to prevent clogging. This collection system is located in a slight depression (9"±) on top of the primary liner. Leachate is collected within each leachate sector (300' wide, typical) and directed to the collection system by a geonet drainage, blanket located on top of the primary liner.

The leachate collection pipes terminate at the leachate collection sumps. Each sump is comprised of an 18" HDPE perforated pipe in an aggregate filled depressional sump. The 8" HDPE collection pipe is directly connected to the 18" HDPE sump pipe. Inside the 18" sump pipe a submersible pump is installed to remove accumulated leachate. Level controls are installed within each sump pipe to maintain leachate levels below the elevation of the primary liner to ensure gravity performance of the collection system. The submersible pump and level controls are installed on a wheeled trolley and can be easily removed for maintenance.

The leachate pumps discharge into a leachate force main which transfer the leachate to the fiberglass storage tanks (6 @ 20,000 gallons each). Each leachate pump discharges through a flow meter that is monitored daily. Therefore, each leachate sector can be monitored for leachate generation. All of the leachate collection system, including the storage tank, is located over the liner system. The leachate storage tanks are monitored daily by on-site personnel. A daily log is kept outlining leachate generation and storage volumes. Leachate will be transported off-site by tanker at regular intervals based on leachate production. Final disposal of leachate will be at the regional wastewater treatment facility.

The secondary (detection) leachate collection system is constructed and operates similar to the primary system. The exceptions for this system include.

1. Multiple layers of geonet are used instead of an 8" HDPE perforated pipe. This provides for added constructability of the system. There is no loss in performance since this system will serve for leak detection as a primary function.
2. The secondary leachate collection system is piped to a separate storage tank for measurement and analysis purposes.
3. Stormwater Treatment and Detention

The Stormwater Management Plan is designed in accordance with FAC 17-25; 40C-4 and 40C-42 for both treatment and peak flow attenuation. The design is shown on the Construction Drawings and detailed in the Florida Department of Environmental Regulation Construction and Operation Permit. (See Appendix II).

In general, a minimum of the first 1" of rainfall will be treated prior to discharge. The treatment consists of detention with filtration through a sand filter bed. The treated stormwater will be discharged from the stormwater pump station via the wetland irrigation system.

4. Stormwater Management

- A. Stormwater/Leachate Separation

Each phase of the liner installation will include a surface water collection system to serve that phase. A perimeter ditch will prevent all surface water runoff from reaching the lined landfill area. Stormwater which falls on a section of the lined landfill which is not currently being used for refuse disposal can be separated from the leachate collection. This is accomplished by closing the valve or blind flange upstream of the active phase and isolating this portion of the leachate collection system. A 36" high HDPE

flap is welded to the liner at this phase line to prevent stormwater from flowing to the active area. A temporary pump-out is provided upstream of each valve/flange and flap to pump uncontaminated stormwater from the inactive liner into the perimeter ditch. Any stormwater that comes in contact with refuse will be considered leachate and handled in accordance with the Leachate Management Plan.

B. Stormwater Collection

All stormwater is collected on-site and directed into the adjacent stormwater basin. The collection system includes interceptor dikes on the final landfill slopes in conjunction with downcomer piping. This system will control runoff and minimize erosion on the landfill side slopes. Details of this system including the energy dissipation design are shown on the Construction Drawings. The wetland discharge of treated stormwater will occur through a 2" perforated spreader pipe. The wetland irrigation will occur adjacent to the stormwater management basins.

The stormwater basin will be excavated in the "wet" below elevation 100 to minimize temporary groundwater lowering in the adjacent wetlands. To ensure the filtration system is not impacted by localized turbidity associated with wet excavation two filter beds have been provided. The one filter bed will be utilized during basin excavation. While the second is covered by a polyethylene barrier. After basin excavation is complete, the second filter bed will be put into service. Each filter bed alone can service the project.

The North Borrow Area has a perimeter berm which directs all runoff away from the borrow area. Since no runoff drains into this facility, no stormwater discharge will occur.

I. Groundwater Monitoring

Groundwater monitoring will be in accordance with the groundwater monitoring plan submitted as a part of this application and with Specific Conditions in Florida Department of Environmental Regulation Permit.

J. All Weather Access Roads

All weather access roads are provided as shown on the Construction Drawings and indicated in "Section E".

K. Effective Barrier

The entire site will be fenced. Public access will be limited to a single gate entrance which will be manned during all operating hours. The gate will be locked when the facility is closed.

L. Signage

Signage indicating the name of facility, operating authority, hours of operation and charges for disposal will be located adjacent to the entrance road at U.S. 301 and at the gate prior to the ticket/scale house. Additional signs will be placed on-site to direct traffic. Warning signs will be placed in operating areas dealing with leachate and gas collection.

M. Dust Control

Dust originating from haul road surfaces will be controlled by periodic sweeping and/or watering of the road surfaces as appropriate. Additionally, final cover will be vegetated as soon as practical after application in order to minimize the blowing of dust on-site.

N. Litter Control

The potential problem of blowing litter will be minimized by limiting the active working face and using daily cover over the active fill areas. Other methods, such as the utilization of pickers and portable fencing will be employed as required to contain loose paper and other wind-blown refuse during the fill operations. Any loose paper or similar refuse blown about the landfill will be picked up daily by assigned full time personnel.

O. Fire Protection and Fire Fighting Facility

The chance of fire occurring at a properly operated sanitary landfill is minimal. Fire protection materials on-site will consist of soil stockpiles in the vicinity of the working face. The daily cover utilized in the landfill operation will provide an effective firewall. Instruction in fire fighting procedures will be routinely provided for site personnel.

Should a fire occur at the landfill, the application of additional compacted cover will be utilized to cut off the flow of oxygen into the burning area. If this does not contain the fire, the affected area will be thoroughly wetted, excavated, and wetted again prior to reconstructing the cells. Local Fire Departments will be employed to assist the site personnel and equipment if necessary.

Appropriate fire extinguishers will be carried on the landfill equipment at all times and can be utilized to control any small equipment fire that may occur.

Hydrants will be placed on the pump system drawing water from the stormwater lake.

P. Attendant

The landfill facility will be staffed with adequate operating personnel as outlined in "Section A".

Q. Communication Facilities

The administration and scale house buildings will be equipped with telephone service. Additionally, the General Manager and Site Supervisor will have mobile communication in their vehicles.

R. Adequate In-Service and Reserve Equipment

The following equipment will be maintained on-site and utilized for landfill operations:

EQUIPMENT	TOTAL	CLASS I	CLASS III
Compactors	4	3.5	0.5
Bulldozer	1	0.9	0.1
Motorgrader	1	0.9	0.1
Excavator	1	0.9	0.1
Water Truck	1	0.9	0.1
Pick-up	2	0.8	0.2
Scrapers	2	0.8	0.2

Substitutions and additions to the equipment listed above may occur. However, equipment capable of performing comparably to the listed equipment will always be maintained on-site. In addition, equipment is available within 24 hours from other company operations and distributors should any situation dictate the requirement for additional equipment.

S. Safety Devices on Equipment

Waste Management has developed an extensive program concerning safety and accident prevention at its waste disposal facilities. As part of this program, employees are trained in proper operating and emergency procedures. Telephone communication and First-Aid equipment will be provided at the facility. All operating vehicles will be in compliance with current OSHA safety requirements, including caging and shields to protect operators. All appropriate equipment will have reverse alarms and those alarms will be maintained in good repair at all times.

T. Leachate Spillage Control Plan

The leachate storage and pumping facilities are inside a concrete containment area which will hold 140% of the volume of the storage tanks. This facility is constructed on top of the liner system. Therefore, the Leachate Spillage Control Plan is directed at those spills that would occur outside the containment area.

The Leachate Spillage Control Plan consists of four major elements. These include:

1. Supervision
2. Containment
3. Remediation
4. Notification

SUPERVISION: A trained site supervisor will be stationed at the leachate storage area continuously during truck loading. Prior to loading the tanker truck, the supervisor shall perform the following:

1. Inspect the tanker for signs of leakage.
2. Verify all tanker discharge valves are closed.
3. Verify the tanker is completely within the leachate loading area containment curbing.
4. Verify the liquid level in the containment sump (S-104) is at or below the discharge pipe.
5. Verify the containment sump discharge gate valve is closed.
6. Verify the leachate fill hose is securely fastened to the inlet port of the tanker.
7. Verify the available tanker volume.

Upon Completion of this inspection, the supervisor shall begin the following fill sequence.

1. Operate the leachate loading pump for approximately 5 minutes or until 500 gallons of leachate has been pumped and then discontinue pumping.
2. Inspect the tanker, fill hose and pumping system for leakage.
3. Upon verification that no spills or leaking has occurred, restart pumping.

4. Continuously monitor the tanker fill operations.
5. Monitor the leachate flow meter until 90% of the available tanker volume has been filled.
6. Discontinue filling operations and remove fill hose.
7. Perform final inspection of tanker and tanker fill area.

CONTAINMENT: If a spill occurs, the site supervisor shall notify, by radio, the Landfill General Manager of the spill and request additional personnel. The trained personnel shall institute the following containment sequence.

1. Cease pumping.
2. Place sandbags around drainage structures down slope from the loading area to prevent any spillage from entering the drainage system. (NOTE: The first 500 gallons of spillage inside the containment curb will drain naturally into the 500 gallons containment sump.)
3. Create an earthen berm around the spill with on-site sands taken from the daily cover stockpile.

REMEDIATIONS: After the spill has been securely contained, begin the following cleanup.

1. Pump the leachate in the containment sump into the on-site storage tanks.
2. Spread absorbent sands across all areas in contact with the spill.
3. Remove the contaminated sand to the landfill disposal area.

NOTIFICATION: In the event of a leachate spill, the Landfill General Manager shall notify the following:

1. Florida Department of Environmental Regulation
2. Bio-environmental Services
3. City of Jacksonville Public Utilities

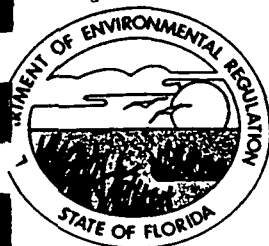
The outlined Spillage Control Plan focuses primarily on a spill at the tanker truck loading area. However, if a leachate spill is discovered at any location on-site, the pertinent containment, remediation and notification procedures described above shall be implemented.

APPENDIX

APPENDIX I.

Florida Department of Environmental Regulation Dredge and Fill Permit

RECEIVED NOV 15 1991



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

November 14, 1991

Trail Ridge Landfill, Inc.
c/o Douglas C. Miller, P.E.
England, Thims & Miller, Inc.
3131 St. Johns Bluff Road South
Jacksonville, FL 32216

Gentlemen:

Re: Compliance Inspections

Due to an increase in permit violations, the Department is now conducting compliance inspections. These inspections are conducted on a random basis and may occur more than once.

Any violation of a permit and its **Specific Conditions**, issued by the Department, will result in enforcement action. This may include a monetary settlement and may also require the restoration of the disturbed area.

Sincerely,

Lisa M. Adams
Environmental Specialist
Wetland Resource Management

LMA:jeo
Copy to File

Administration 448-4300
Air 448-4310
Waste Management 448-4320



Water Facilities 448-4330
Water Management 448-4340
FAX 448-4366

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

CERTIFIED

In the Matter of an
Application for Permit by:

DER File No.: 161821182
Duval County-WRM

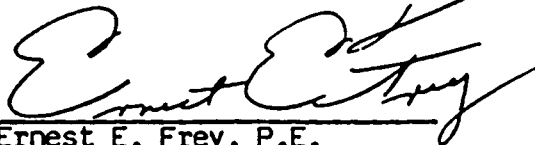
Trail Ridge Landfill, Inc.
c/o Douglas C. Miller, P.E.
England, Thims & Miller, Inc.
3131 St. Johns Bluff Road South
Jacksonville, FL 32216 /

Enclosed is Permit Number 161821182 to construct a road, issued pursuant to Section 403, Florida Statutes, and Florida Administrative Code Rules 17-4 and 17-312, and Water Quality Certification pursuant to Section 401 of Public Law 92-500.

Any party to this Permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Ernest E. Frey, P.E.
Director of District Management
Northeast District Office
7825 Baymeadows Way, Suite 200B
Jacksonville, FL 32256-7577

Phone: (904) 448-4300

CERTIFICATE OF SERVICE

This is to certify that the NOTICE OF PERMIT and all copies were mailed before the close of business on 11-14-91 to the listed persons.

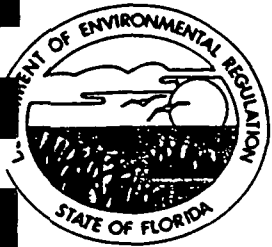
Copies furnished to:

Trail Ridge Landfill, Inc. (Certified #P 520 284 786)

FILING AND ACKNOWLEDGEMENT
FILED on this date pursuant to S120 52, Florida
Statutes, with the designated Department Clerk,
receipt of which is hereby acknowledged

Ernest E. Frey 11-14-91
Clerk Date

File No. 161821182



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

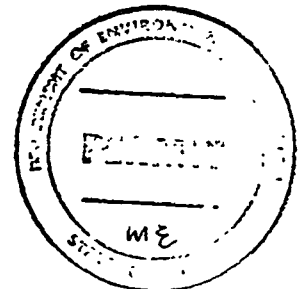
PERMITTEE:

Trail Ridge Landfill, Inc.
c/o Douglas C. Miller, P.E.
England, Thims & Miller, Inc.
3131 St. Johns Bluff Road South
Jacksonville, FL 32216

I.D. Number: WRM
Permit/Cert. Number: 161821182
Date of Issue: 11/14/91
Expiration Date: 11/14/96
County: Duval
Lat/Long: 30°13'20"/82°02'30"
Section/Township/Range: 18,19,20,21/3S/23E
Project: Construct a road.

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-312. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

Fill 1.61 acres of roadside ditches, which discharge to Deep Creek, to facilitate the widening of an existing road to provide access to a solid waste landfill facility. To mitigate the loss of these ditches, 4.76 acres of freshwater hardwood swamp wetlands shall be created on site. The project is located 1.14 miles north of State Road 228 (Normandy Boulevard) on the west side of U.S. Highway 301 in Duval County, in the vicinity of Maxville.



DER Form 17-1.201(5) Effective November 30, 1982 Page 1 of 7

Administration 448-4300
Air 448-4310
Waste Management 448-4320



Water Facilities 448-4330
Water Management 448-4340
FAX 448-4366

PERMITTEE:

Trail Ridge Landfill, Inc.

I.D. Number: WRM

Permit Number: 161821182

Date of Issue: 11/14/91

Expiration Date: 11/14/96

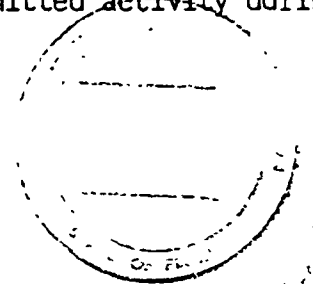
- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:
 - a. A description of and cause of non-compliance; and
 - b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.



PERMITTEE:

Trail Ridge Landfill, Inc.

I.D. Number: WRM

Permit Number: 161821182

Date of Issue: 11/14/91

Expiration Date: 11/14/96

SPECIFIC CONDITIONS:

1. The permittee is hereby advised that Florida law states: "No person shall commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund of the Department of Natural Resources under Chapter 253, until such person has received from the Board of Trustees of the Internal Improvement Trust Fund the required lease, license, easement, or other form of consent authorizing the proposed use." Pursuant to Florida Administrative Code Rule 16Q-14, if such work is done without consent, or if a person otherwise damages state land or products of state land, the Board of Trustees may levy administrative fines of up to \$10,000 per offense.
2. If historical or archeological artifacts, such as Indian canoes, are discovered at any time within the project site the permittee shall immediately notify the Northeast District Office of the Department of Environmental Regulation and the Bureau of Historic Preservation, Division of Archives, History and Records Management, R.A. Gray Building, Tallahassee, Florida 32301.
3. Prior to commencement of work authorized by this permit, the permittee shall provide written notification of the date of the commencement and proposed schedule of construction to the Northeast District Office of the Department of Environmental Regulation, Wetland Management Section, Suite B-200, 7825 Baymeadows Way, Jacksonville, FL 32256-7577.
4. This permit does not constitute any approval of the stormwater management system which must be obtained separately from the appropriate agency.
5. The project shall comply with applicable State Water Quality Standards, namely:
 - 17-302.500 - Minimum Criteria for All Waters at All Times and All Places.
 - 17-302.510 - Surface Waters: General Criteria.
 - 17-302.560 - Criteria - Class III Waters - Recreation, Propagation and Management of Fish and Wildlife: Surface Waters.
6. The mitigation plan, "Trail Ridge Landfill Wetland Impacts and Mitigation Plan," submitted on June 18, 1990, shall be appended as a Specific Condition of this permit. Any specific condition requirements listed herein, shall supercede or modify any requirements contained in the appended mitigation plan.
7. Prior to initiating any construction, permittee must record a conservation easement on the real property pursuant to Section 704.06, F.S., prohibiting all construction including clearing, dredging or filling, except that which is authorized by this permit within the conservation creation/preservation areas as delineated on plans dated as received by the Department on June 18, 1990. The easement must contain provisions as set forth in subsections 1 (a) - (b) of Section 704.06, F.S., as well as provisions indicating that they may be enforced by the Department and may not be amended without Department approval. Within 30 days of the date of issuance of this permit and prior to recording, said easement must be submitted to the Department for

CONTINUED NEXT PAGE

PERMITTEE:

Trail Ridge Landfill, Inc.

I.D. Number: WRM

Permit Number: 161821182

Date of Issue: 11/14/91

Expiration Date: 11/14/96

SPECIFIC CONDITIONS CONTINUED:

- 13. Successful establishment of the wetland creation shall occur when:
 - a. on an annual basis at least 80 percent of the planted individuals in each stratum have survived and are showing signs of normal annual growth, based on standard growth parameters such as height and base diameter, or canopy circumference; and
 - b. the above criteria has been achieved and maintained for a three (3) year period following initial planting.
- 14. In the event that the success criteria as stated in Specific Condition Number 13 are not achieved by the expiration date of this permit, the permittee shall enter into a long term agreement with the Department so as to insure the success of the mitigation plan.
- 15. All wetland areas or water bodies which are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity or dewatering.
- 16. All disturbed areas adjacent to the mitigation area must be sodded or seeded and mulched within 10 days following their completion and a substantial vegetation cover must be established within 60 days of sodding or seeding.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged

Issued this day of , 1990

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Ernest E. Frey
Ernest E. Frey, P.E.

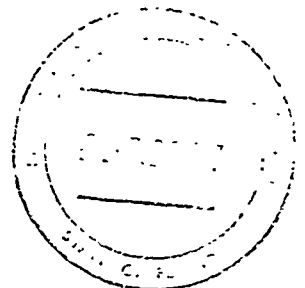
Deputy Assistant Secretary

Mel C. O'Connell 11-14-91
Clerk Date

Copy to: ACOE, Jacksonville
DNR, Jacksonville
County Tax Assessor

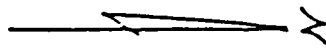
CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 11-14-91 to the listed persons.

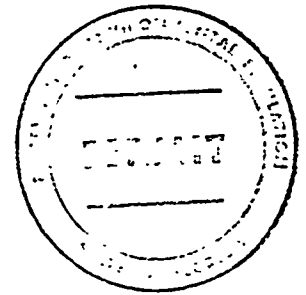
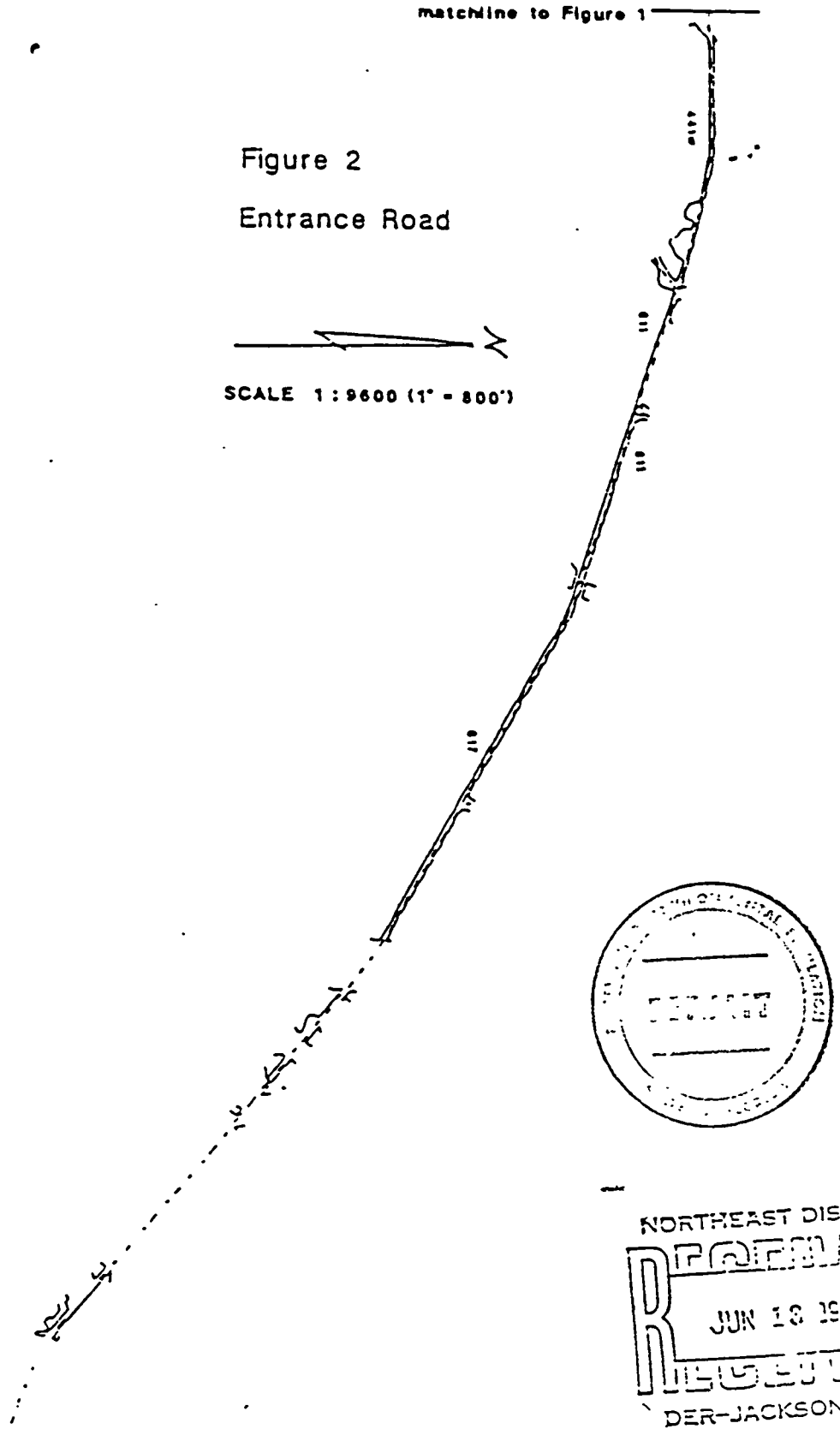


matchline to Figure 1

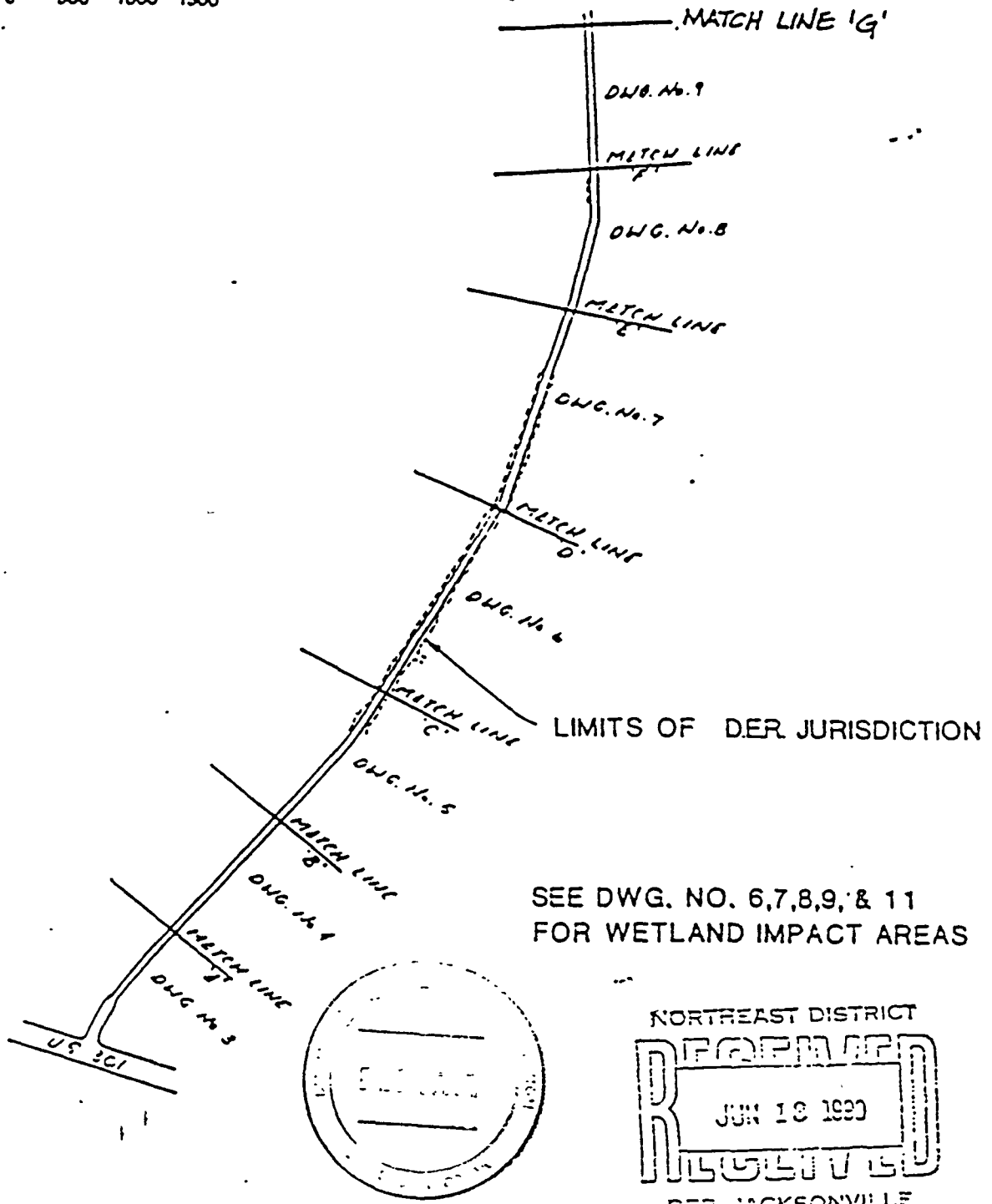
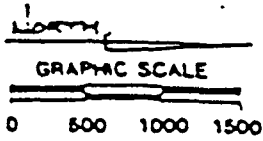
Figure 2
Entrance Road



SCALE 1:9600 (1" = 800')



NORTHEAST DISTRICT
RECEIVED
JUN 18 1930
RECEIVED
DER-JACKSONVILLE



England-Thims & Miller, Inc.

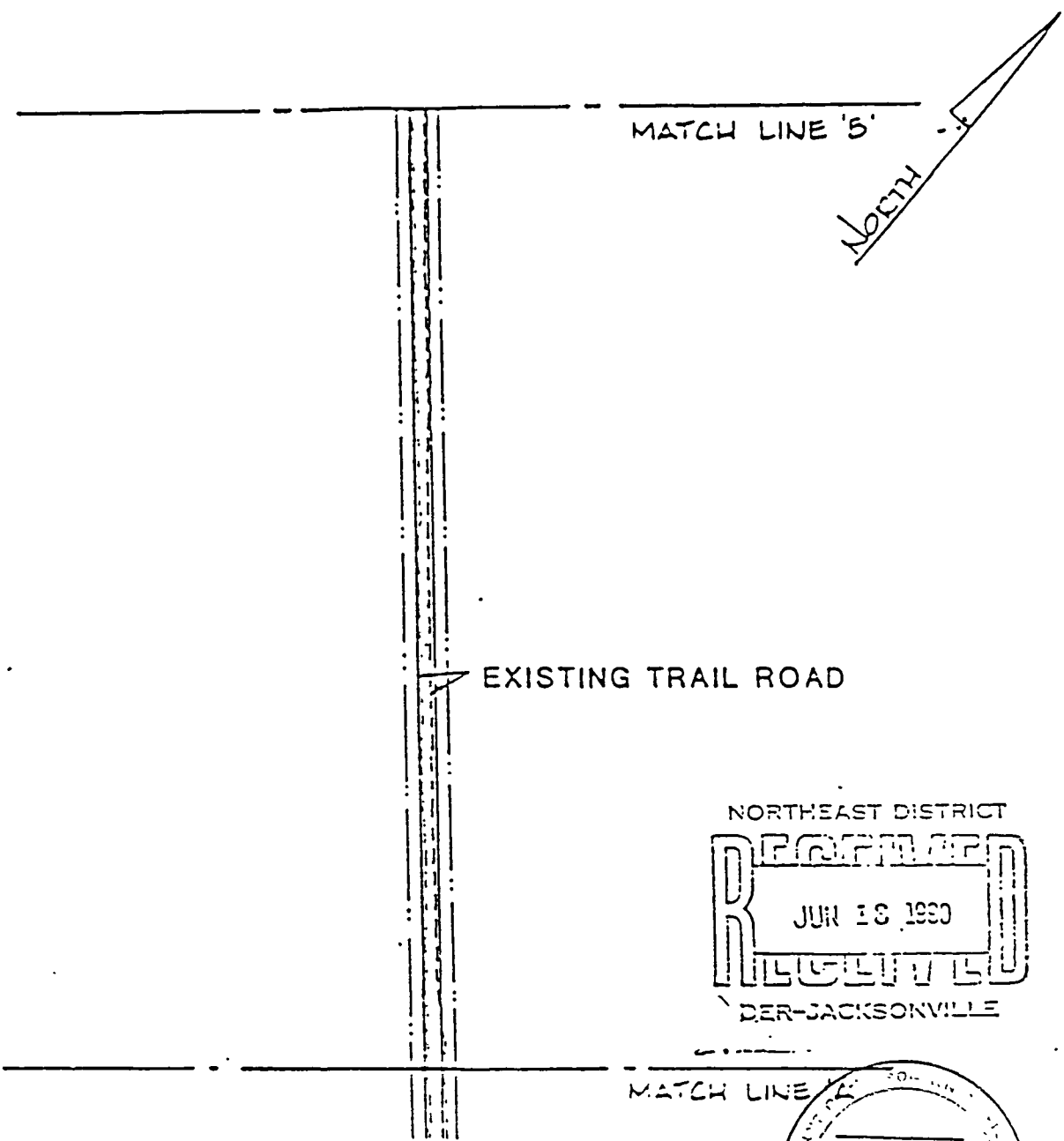
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	<p>DATE JUNE 11, 1990</p>
<p>TRAIL RIDGE LANDFILL TRAIL RIDGE LANDFILL, INC.</p>	<p>SCALE SEE GRAPHIC</p>
	<p>DRAWING NO. 3</p>

DER

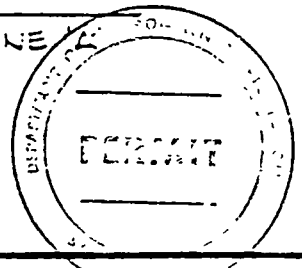
Handwritten signature
6-11-90

GRAPHIC SCALE

NO D.E.R. IMPACTS THIS SHEET



NORTHEAST DISTRICT
RECEIVED
 JUN 18 1990
REGISTERED
 DER-JACKSONVILLE



LEGEND

————— LIMITS OF CONSTRUCTION

/////// D.E.R. WETLAND IMPACT

===== PROPOSED 24' ASPHALT PAVT.

England, Thims & Miller, Inc.

SITE PLAN	PROJ. NO. 89-113
	DATE JUNE 11, 1990
TRAIL RIDGE LANDFILL TRAIL RIDGE LANDFILL, INC.	SCALE GRAPHIC
	DRAWING NO. 5

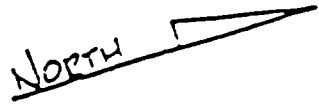
DER

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 6-11-90

200 100 0 100

GRAPHIC SCALE

MATCH LINE 'D'



1307 --- 1394

30" CMP

2-48" RCP (PROPOSED)

1195

1380

THIS SHEET

D.E.R. IMPACTS 0.68 Ac.

VOLUME OF FILL 2200 C.Y.

0.34 Ac.

24" CMP (EXIST.)

1-36" RCP (PROPOSED)

0.35 Ac.

18" CMP (EXIST.)

1190

1375

1-36" RCP (PROPOSED)

1372

1404

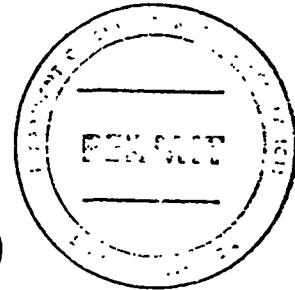
1-30" RCP (PROPOSED)

(2) 24" CMP (EXIST.)

EXISTING TRAIL ROAD

1400

MATCH LINE 'C'



NORTHEAST DISTRICT
RECEIVED
JUN 18 1990
DER-JACKSONVILLE

LEGEND

- ==== LIMITS OF CONSTRUCTION
- ////// D.E.R. WETLAND IMPACT
- ===== PROPOSED 24' ASPHALT PAVT.

England-Thims & Miller, Inc.

SITE PLAN

PROJ. NO. 89-113

DATE JUNE 11, 1990

TRAIL RIDGE LANDFILL
TRAIL RIDGE LANDFILL, INC.

SCALE GRAPHIC

DRAWING NO. 7

DER

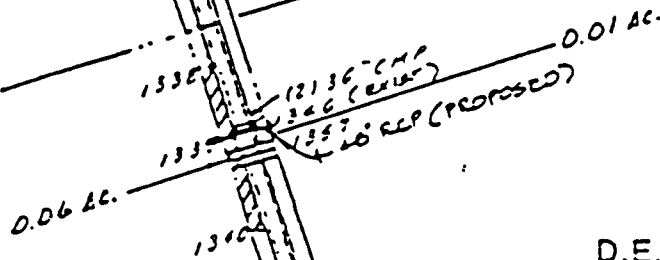
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6-11-90

200 100 0 200

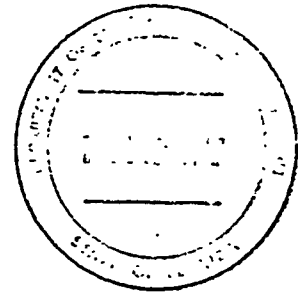
GRAPHIC SCALE

NORTH

MATCH LINE 'F'

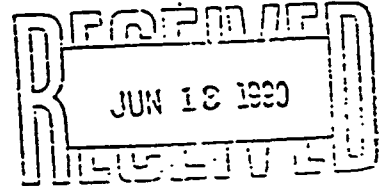


THIS SHEET
 D.E.R. IMPACTS 0.07Ac.
 VOLUME OF FILL 68C.Y.



EXISTING TRAIL ROAD

NORTHEAST DISTRICT



DER-JACKSONVILLE

MATCH LINE 'E'

LEGEND

- LIMITS OF CONSTRUCTION
- //// D.E.R. WETLAND IMPACT
- ==== PROPOSED 24' ASPHALT PAVT.



England-Thims & Miller, Inc.

SITE PLAN

TRAIL RIDGE LANDFILL
 TRAIL RIDGE LANDFILL, INC.

PROJ. NO. 89-113

DATE JUNE 11, 1990

SCALE GRAPHIC

DRAWING NO. 9

DER

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 JUN 11 1990

CLASS III

SECTION 18
SECTION 19

THIS SHEET

D.E.R. IMPACTS 0.30 AC;
VOLUME OF FILL 924 C.Y.

PROPOSED DBL. 48" CMPS.

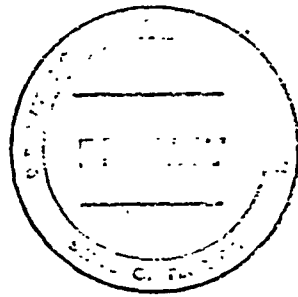
LIMITS OF JURISDICTION

EXISTING TRAIL ROAD

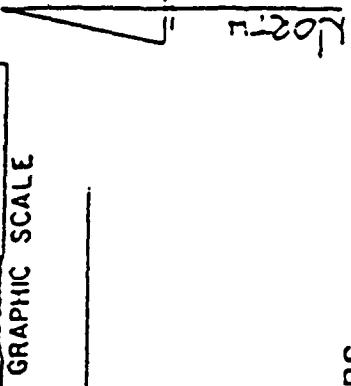
CLASS I

LEGEND

- LIMITS OF CONSTRUCTION
- D.E.R. WETLAND IMPACT
- PROPOSED 24" ASPHALT PAVT.



NORTHEAST DISTRICT
ROBERT A. JOHNSON
 JUN 18 1990
 REGISTERED PROFESSIONAL ENGINEER
 FLORIDA - JACKSONVILLE



PROJ. NO.	09-113
DATE	JUNE 11, 1990
SCALE	GRAPHIC
DRAWING NO.	11

SITE PLAN

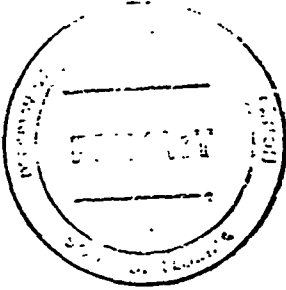
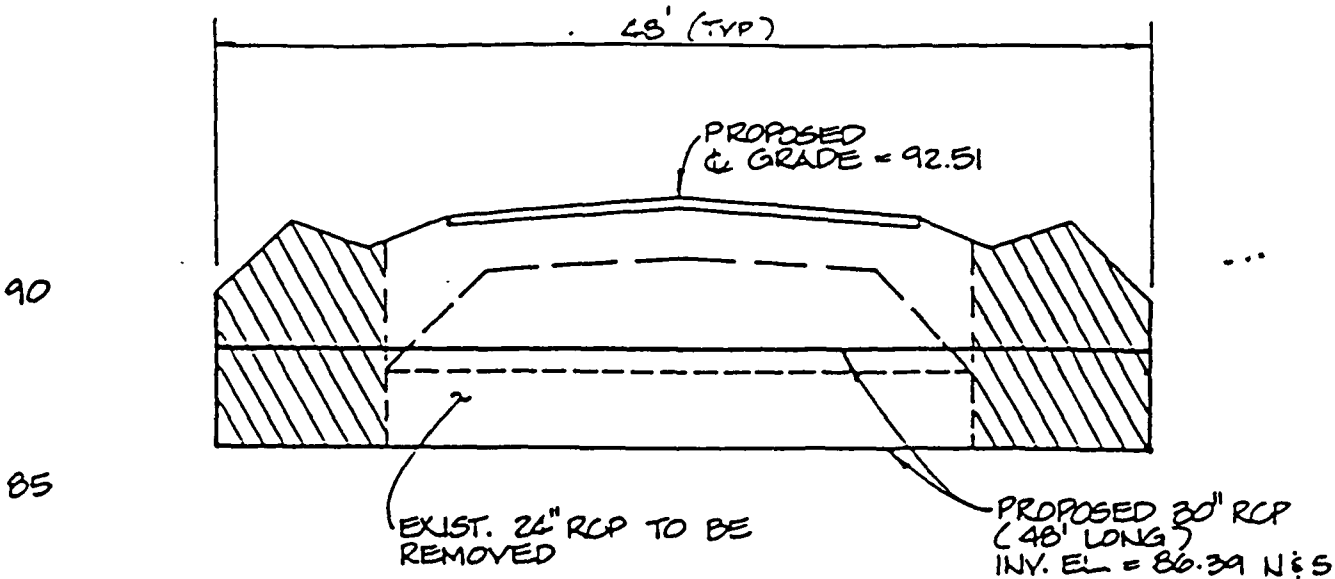
TRAIL RIDGE LANDFILL
TRAIL RIDGE LANDFILL, INC.

England-Thims
& Miller, Inc.

CONSULTING ENGINEERS
 3031 STATE ROAD 101, SUITE 200
 JACKSONVILLE, FL 32246

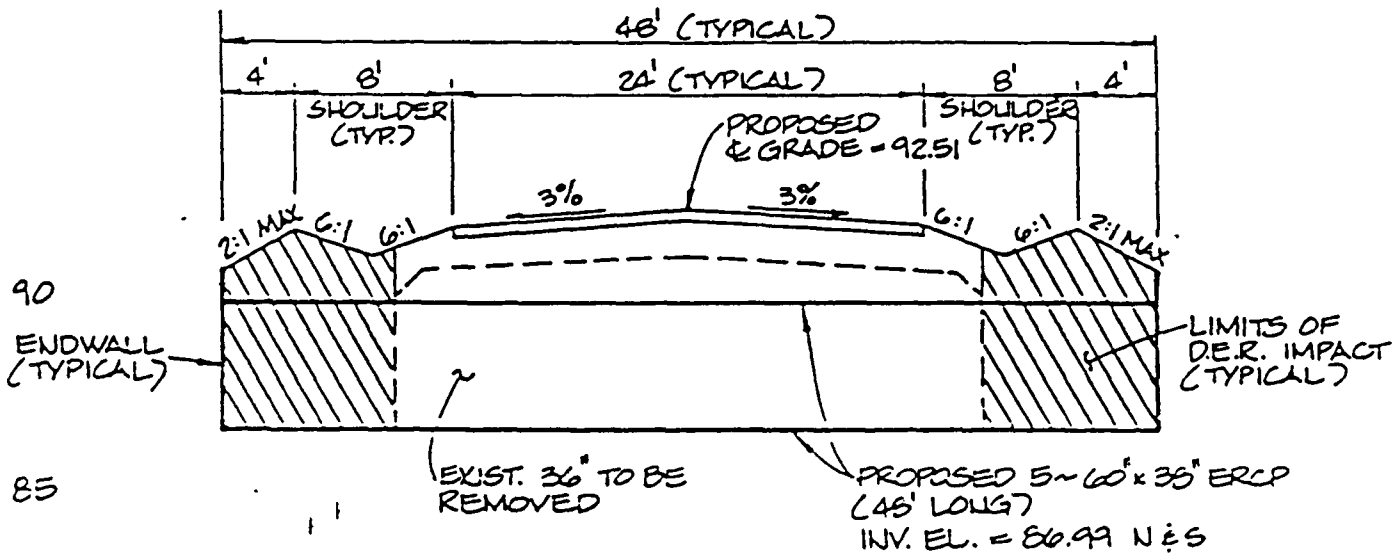
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 10-11-90



STA. 49 + 03

NORTHEAST DISTRICT
REGISTERED
 JUL 16 1990
REGISTERED
 DER-JACKSONVILLE



STA. 42 + 87

7-14-90 ADDED X-SECT.'S PER D.E.R.

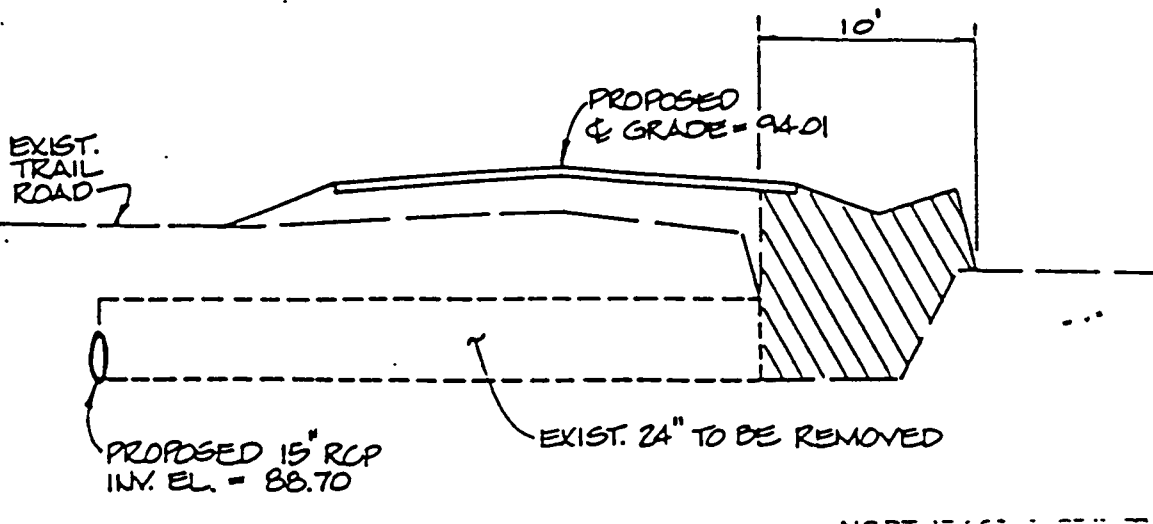
England-Thimby & Miller, Inc.
 Consulting & Design Engineers

CULVERT SECTIONS
TRAIL RIDGE LANDFILL
 TRAIL RIDGE LANDFILL, INC.

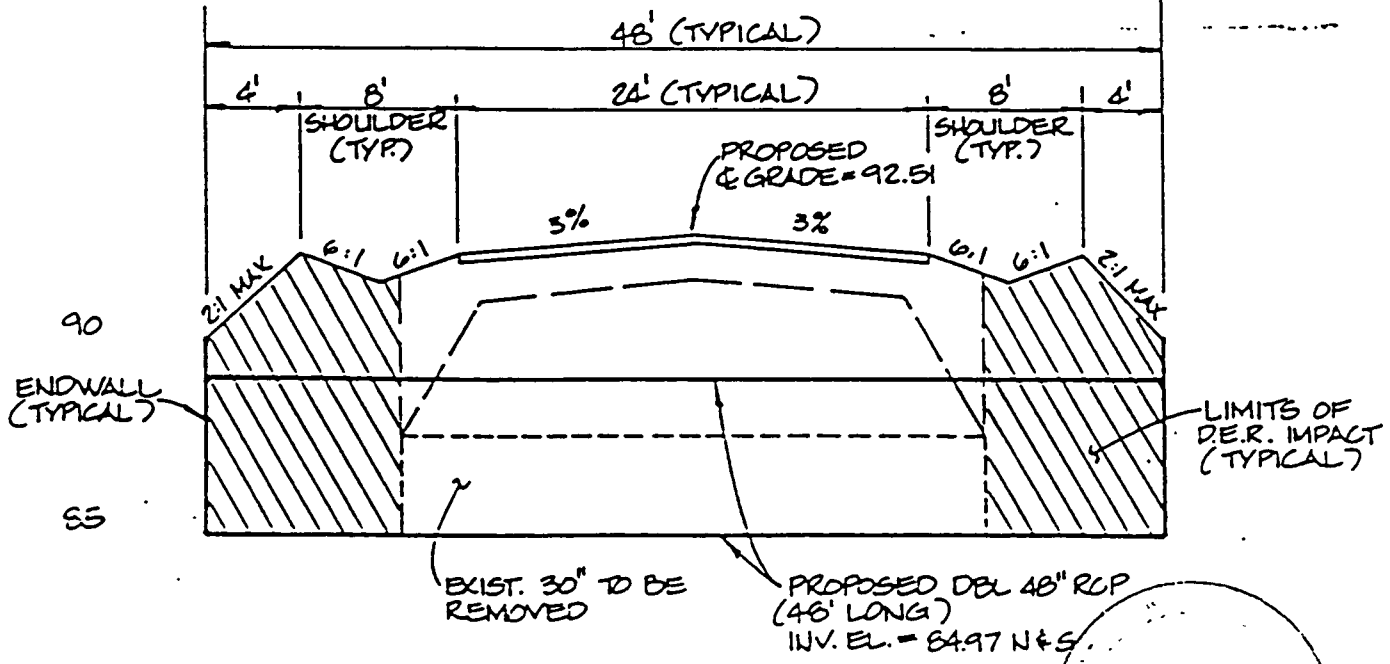
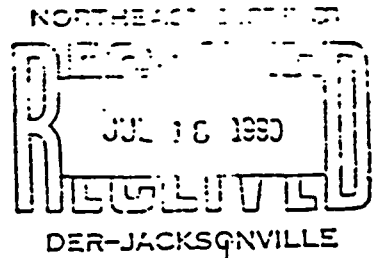
PROJ. NO. 89-113
 DATE JULY 14, 1990
 SCALE 1" = 10'
 DRAWING NO. 18

DER

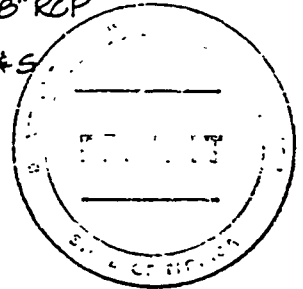
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STA. 76 + 70



STA. 59 + 04



7-16-90 ADDED X-SECT'S PER D.E.R.

England-Thimms
& Miller, Inc.
Consulting & Design Engineers

CULVERT SECTIONS

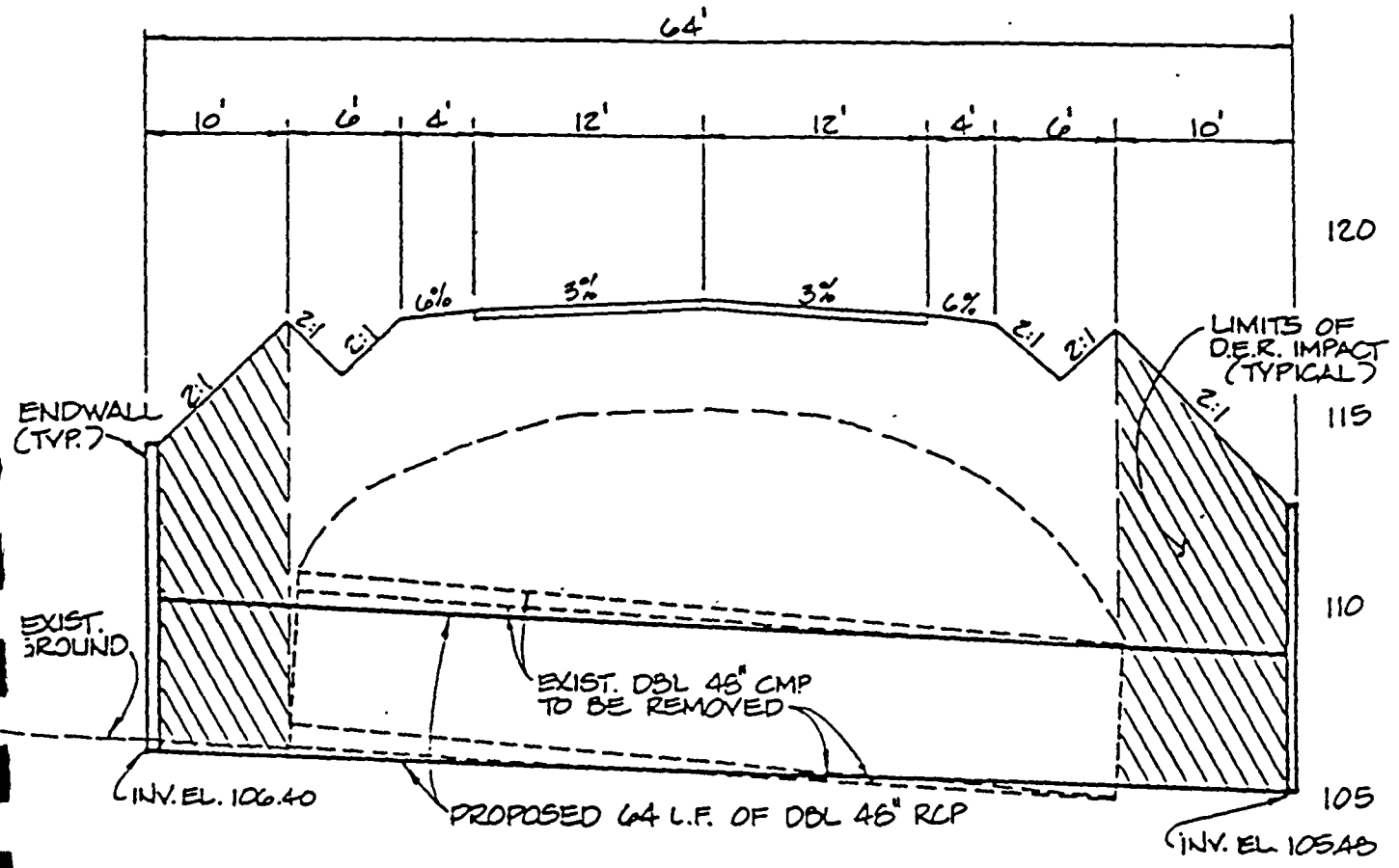
TRAIL RIDGE LANDFILL
TRAIL RIDGE LANDFILL, INC.

PROJ. NO. 89-113
DATE JULY 14, 1990
SCALE 1"=10'
DRAWING NO. 20

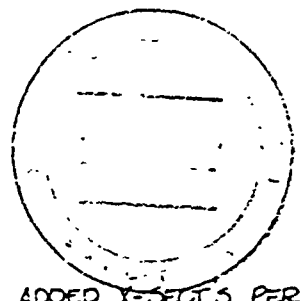
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NORTHEAST DISTRICT
 JUL 14 1990
 DER-JACKSONVILLE



ROAD CROSSING BETWEEN CLASS I & CLASS III



7-14-90 ADDED X-SECT.S PER D.E.R.

 <p>England-Thims & Miller, Inc. Consulting Engineers</p>	<p>CULVERT SECTIONS</p>		<p>PROJ. NO. 29-113</p>
	<p>TRAIL RIDGE LANDFILL TRAIL RIDGE LANDFILL, INC.</p>		<p>DATE JULY 14, 1990</p>
	<p>DER</p>		<p>SCALE 1" 10'</p>
	<p>DER</p>		<p>DRAWING NO. 22</p>

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TRAIL RIDGE LANDFILL
WETLAND IMPACTS AND MITIGATION PLAN

I. INTRODUCTION

Waste Management, Inc. is proposing the development of Trail Ridge Landfill in western Duval County (Figure 1). Of the approximately 560 wetland acres occurring on the property, only 4.44 acres of relatively low quality wetlands would be impacted, (refer to Trail Ridge Landfill Wetlands Assessment Report. Wetlands impacted by jurisdiction are Corps of Engineers, 4.44 acres; St. Johns River Water Management District, 3.17 acres; and Florida Department of Environmental Regulation, 1.61 acres. To offset the wetland impacts, conversion of 4.76 acres of uplands into high quality wetlands would occur as mitigation.

The following report provides a general overview of the property, a detailed description of the wetland impacts, and the plan for mitigation creation.

II. SITE DESCRIPTION

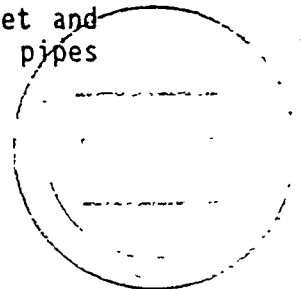
The tract consists of approximately 1,280 acres in western Duval County between U.S. 301 and the Baker County line. The land was previously owned by the Gilman Paper Company and has been intensively managed for pulpwood. The property is surrounded on all sides by forest land. A network of unpaved logging roads exists throughout the property. The design plans produced by England, Thims & Miller, Inc., propose the development of separate Class I and Class III landfill cells along with two stormwater ponds/borrow pits, and the widening and improvement of the existing, dirt roads.

III. WETLAND IMPACTS

Development of this site as a landfill would involve 4.44 acres of wetland impacts, the majority of which (2.54 acres) would occur as a result of filling portions of roadside ditches and swales. The remainder of the impacts would consist of filling a 0.8-acre isolated, shallow, pine/cypress wetland, 0.9 acre of bay/pine seepage slope and 0.20 acre of wetland pine plantation. Except for these 4.44 acres of impact, the remaining wetlands will not be disturbed.

A. Road Impacts

The majority of the wetland impacts would occur as a result of widening an existing logging road. This road extends for 1.6 miles from U.S. 301 to the edge of the property and would serve as the main access to the landfill. From the eastern property line it continues for an additional 0.4 mile to the Class I landfill cell. The road is currently an unpaved logging road. It will be widened to 24 feet and paved with asphalt. In addition, the existing corrugated metal pipes under the road will be replaced with reinforced concrete pipes.



From U.S. 30: The entrance road extends for approximately 3,000± feet through a pine plantation. The vegetation here consists of rows of planted slash pine (Pinus elliotti) with an understory and ground cover of saw palmetto (Serenoa repens), gallberry (Ilex glabra), and bracken fern (Pteridium aquilinum). The roadside swales here average 4 to 5 feet across and 1 to 2 feet deep. The swales are considered jurisdictional wetlands only where they intersect adjacent wetlands.

Within the upland pine plantation there are ten depressional, wetland areas. The eastern three areas are jurisdictional only by the U.S. Army Corps of Engineers (CE). The road widening will entail impacting 0.24 acres of these three wetlands. The dominant plant species are not on the state's list of wetland plants. The dominant vegetation consists of blackberry (Rubus cuneifolius), Amphicarpum muhlenbergianum, wiregrass (Aristida stricta), and panic grass (Dicanthelium sp.). The remaining seven wetland areas are wholly owned and isolated. Six of these areas are each less than 0.5 acres in size. The vegetation in all seven areas consists of St. John's wort (Hypericum fasciculatum), yellow-eyed grass (Xyris sp.) and red root (Lachnanthes caroliniana). The road widening will entail impacting 0.17 acres (CE/SJRWMD) of swales in these seven depressional areas.

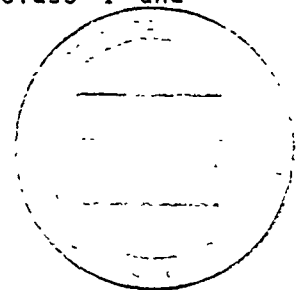
From the edge of the pine plantation the entrance road continues for 3,000± feet through a pine swamp known locally as Hell's Bay. There are ditches along both sides of the road all the way across the swamp. The ditches measure approximately 8 feet across and 2-3 feet deep. Under normal conditions the ditches contain at least 12 inches of water. The vegetation within the ditches consists of pickerelweed (Pontederia cordata), water lily (Nymphaea odorata), and bladderwort (Utricularia sp.). The existing ditches serve to drain the adjacent swamp. During the past 12 months, standing water has not been observed in the swamp on either side of the road.

The vegetation of the pine swamp south of the road consists of a canopy of slash pine mixed with scattered red maple (Acer rubrum), tupelo (Nyssa sylvatica var. biflora), and cypress (Taxodium distichum). The swamp on the north side of the road has been recently clear-cut. The dominant ground cover vegetation there now includes such species as sedges (Cyperus spp.), beak rushes (Rhynchospora spp.), and cinnamon fern (Osmunda cinnamomea).

The entrance road across the swamp will be widened approximately 10 feet on each side. This will result in filling most of the roadside ditches (1.24 acres SJRWMD/DER/CE and 0.17 acres CE only).

From the western edge of Hell's Bay, the entrance road continues into the property to the Class I landfill cell. Wetland impacts due to this portion of roadwork include filling wetland pine plantation (0.65 acres CE) and a narrow slough (0.07 acres DER/SJRWMD/CE).

Widening West Fiftone Road would entail filling 0.3 acres (DER/SJRWMD/CE) of bay/pine seepage wetlands between the Class I and Class III landfill cells.



Wesconnett fine sand is a very poorly drained soil in shallow depressions and large drainageways. Under natural conditions this soil has a water table at a depth of 0 to 10 inches, or the soil is covered by water for six to twelve months during most years.

3. Hydrology

There is a ditch that extends across a section of the mitigation site. This section of upland-cut ditch is less than 35 square feet in cross section and contains less than 3 feet of standing water at the point where it intersects the DER wetland line. The ditch averages 18 to 20 feet across from top-of-bank to top-of-bank and 12 to 18 inches deep. Water periodically flows east through the ditch from the tupelo swamp to the wet pine plantation. During much of the year, the ditch appears to be dry.

4. Vegetation

The upland pine plantation is characterized by a 15 to 20 year old row-planted slash pine that is approaching canopy closure. The understory and ground cover mostly consist of gallberry, saw palmetto, bracken fern, huckleberry (Vaccinium sp.), broomsedge (Andropogon sp.), wire grass (Aristida stricta), and Aronia arbutifolia.

The wet pine plantation to the east has been clear-cut, bedded, and row-planted with slash pine about 15 to 20 years ago. Logging debris and soil have been pushed into windrows. Other vegetation in this area include scattered tupelo, sweet bay (Magnolia virginiana), loblolly bay (Gordonia lasianthus), red maple, wax myrtle (Myrica cerifera), possumhaw viburnum (Viburnum nudum), maidencane (Panicum hemitomon), panicum (Dichanthelium sp.), bluestem (Andropogon sp.), and Asiatic coinwork (Centella asiatica).

The wetland to the west and south is a moderately deep cypress-hardwood swamp dominated by tupelo and cypress and scattered sweetbay, swamp bay (Persea palustris), and red maple. The dominant shrub is fetterbush with some Virginia willow (Itea virginica) and wax myrtle. Royal fern (Osmunda regalis), cinnamon fern, net-leaved chain fern (Woodwardia areolata), and sphagnum moss (sphagnum sp.) are also found.

Wetland vegetation within the ditch itself consists of rush (Juncus sp.), Dicanthelium sp., yellow-eyed grass (Xyris sp.), buttonbush (Cephalanthus occidentalis), sphagnum moss, and some slash pine. Along the edge of the ditch or berm is wild grape (Vitis sp.), saw palmetto, red chokeberry (Aronia arbutifolia), sweet gallberry, wax myrtle, black stemmed chain fern, poison summac (Toxicodendron vernix) and scattered tupelo, swamp bay, and sweet bay.



red maple (Acer rubrum)
 sweetgum (Liquidambar styraciflua)
 laurel oak (Quercus laurifolia)
 wax myrtle (Myrica cerifera)
 fetterbush (Lyonia lucida)

The deeper, submerged zones will be planted with such wetland species as:

cypress (Taxodium distichum)
 tupelo (Nyssa sylvatica var. biflora)
 sweet bay (Magnolia virginiana)
 button bush (Cephalanthus occidentalis)
 Virginia willow (Itea virginica)

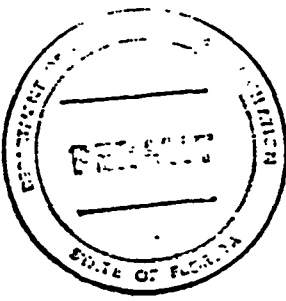
WETLAND CREATION RATIO

<u>Jurisdiction</u>	<u>Wetland Impacted</u>	<u>Wetlands Created</u>	<u>Ratio</u>
Corps of Engineers	4.44 AC	4.76 AC	1.07:1
St. Johns River Water Management District	3.17 AC	4.76 AC	1.50:1
Florida Department of Environmental Regulation	1.61 AC	4.76 AC	2.8:1

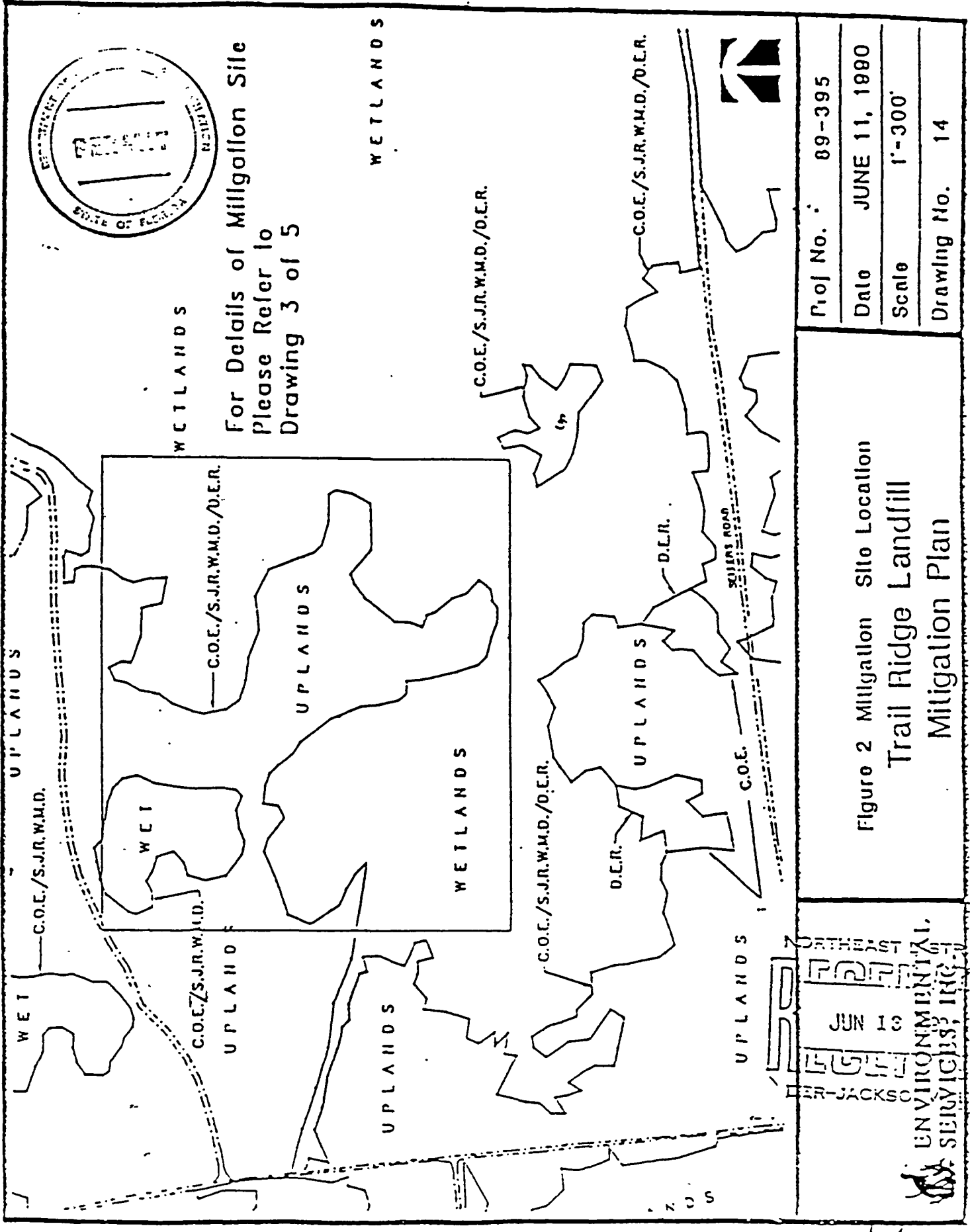
5. Maintenance and Monitoring

The creation area will be inspected every six months for two years following planting. Monitoring reports will be forwarded to the appropriate regulatory agencies. Standard mitigation requirements will be met, such as ensuring 75 percent survival of plantings. Routine maintenance will be performed as necessary to control nuisance weed species and to ensure success of the planting.





For Details of Millgallon Site
Please Refer to
Drawing 3 of 5



Proj No.	89-395
Date	JUNE 11, 1980
Scale	1"=300'
Drawing No.	14

Figure 2 Millgallon Site Location
Trail Ridge Landfill
Mitigation Plan

UNIVERSITY OF FLORIDA
ENVIRONMENTAL SERVICES, INC.
JUN 13 1980
GAINESVILLE, FLORIDA

Handwritten signature and date: 6-11-80

Wet Pine Plantation

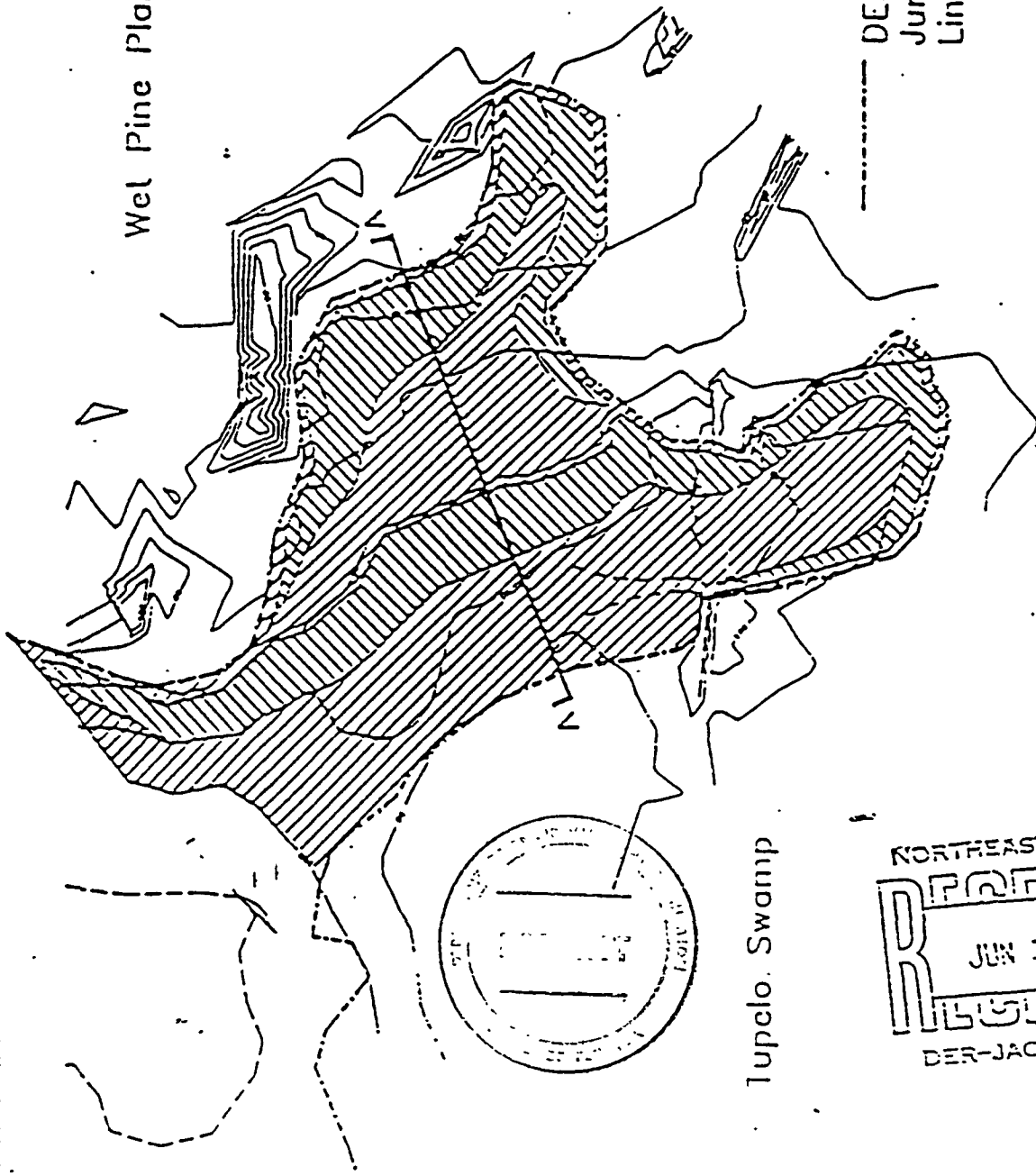


Transitional Zone
3.0 acres



Submerged Zone
1.76 acres

DER/SJRW
Jurisdiction
Line



Tupelo Swamp

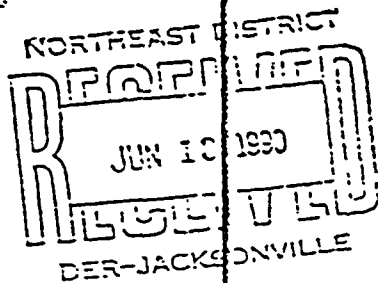


Figure 4 Proposed Conditions
Trail Ridge Landfill
Mitigation Plan

Proj No. : 89-395

Date JUNE 11, 1980

Scale 1"=150'

Drawing No. 16

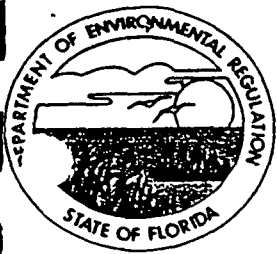
ENVIRONMENTAL
SERVICES, INC.

DER

Lyman
6-11-80

APPENDIX II.

**Florida Department of Environmental Regulation Construction
and Operation Permit**



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

NOTICE OF PERMIT

In the matter of an
Application for Permit
by: Trail Ridge Landfill, Inc.
Post Office Box 6987
Jacksonville, Florida 32236

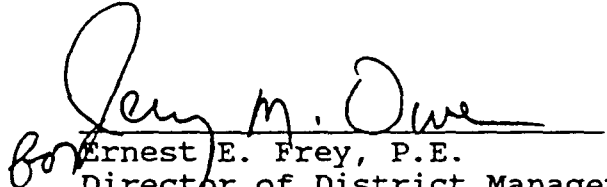
DER File Nos. 184444
184445, and 184447
Duval County

Enclosed is Permit Number SC16-184444 to construct and operate the Trail Ridge Landfill, including the related surface water management system, issued pursuant to Chapters 373 and 403, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Ernest E. Frey, P.E.

Director of District Management
Northeast District
7825 Baymeadows Way, Suite B-200
Jacksonville, Florida 32256-7577
(904) 448-4300

Notice of Permit
Trail Ridge Landfill, Inc.
Duval County
Page Two

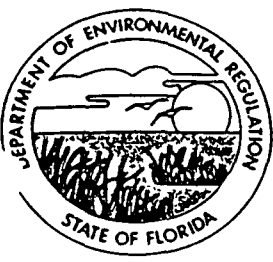
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on December 24, 1991 to the listed persons.

Copies furnished to:

Honorable Ed Austin
Honorable Sherry Walker
Honorable George Crady
Honorable Steve Kennedy
Honorable Marvin E. Godbold, Jr.
Honorable Warren Jones
Mr. Doug Miller
Mr. William Congdon
Mr. Clarence Suggs
Mr. & Mrs. Fred Munson, Sr.
Ms. Karen Peterson
Ms. Janice Whatley
Mr. Nolan Green
Mr. Darrell Sperry
Mr. Will E. Furlong, P.E.
Ms. Pamela Presnell Garvin
Ms. Ellen Long
Ms. Sylvia Thibault
Mr. Lambert L. Herring
Mr. John G. Herring
Mr. Maurice T. Samples
Mr. Ronnie E. Hall
Mr. J. R. Jacobs
Ms. Jeanette Bullock

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to S120.52 Florida
Statutes, with the designated Department Clerk,
receipt of which is hereby acknowledged.
Delia Richards 12/24/91
Clerk Date



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:

Trail Ridge Landfill, Inc.
Post Office Box 6987
Jacksonville, Florida 32236

I.D. Number: GMS3116P03090
Permit/Cert Number: SC16-184444
Date of Issue: 12-24-91
Expiration Date: 12-24-96
County: Duval
Lat/Long: 30°14'00"N/82°02'30"W
Section/Township/Range: 18, 19,
20, 21/3S/23E
Project: Trail Ridge "Plan A" Landfill

This permit is issued under the provisions of Chapters 373 and 403, Florida Statutes and Florida Administrative Code Chapters 17-3, 17-4, and 17-701. The above-named Permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

To construct and operate the Trail Ridge "Plan A" Landfill, with a total site area of 1288± acres of which 148± acres will be used for disposal of Class I wastes and 28 acres will be used for disposal of Class III wastes. The leachate containment system is a double liner system as spelled out in Florida Administrative Code Rule 17-701.050(5)(d)1.b., with the addition of 0.25 inches of Claymax below the bottom liner. The primary and secondary leachate collection systems will consist of synthetic geodrains and a two (2)-foot protective soil layer will lie above the primary drain.

The facility design includes wetland mitigation and a surface water management system. A groundwater monitoring system is also included.

The Trail Ridge Landfill entrance is located on the west side of U.S. Highway 301 approximately one mile north of Maxville in Duval County.

This permit is issued in accordance with the application received July 27, 1990 and additional information provided on September 12 and October 10 and 11, 1990, and includes Department File Nos. 184444, 184445, and 184447.

PERMITTEE:

rail Ridge Landfill, Inc.

I.D. Number: GMS3116P03090

Permit/Cert Number: SC16-184444

Date of Issue: 12-24-91

Expiration Date: 12-24-96

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the Permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The Permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the Permittee, its agents, employees, servants, or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the Permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.
6. The Permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.
7. The Permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

PERMITTEE:

Trail Ridge Landfill, Inc.

I.D. Number: GMS3116P03090

Permit/Cert Number: SC16-184444

Date of Issue: 12-24-91

Expiration Date: 12-24-96

GENERAL CONDITIONS:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the Permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the Permittee shall immediately notify and provide the department with the following information:
 - a. A description of and cause of non-compliance; and
 - b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The Permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the Permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
10. The Permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the Permittee does not waive any other rights granted by Florida Statutes or department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The Permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

PERMITTEE:

Trail Ridge Landfill, Inc.

I.D. Number: GMS3116P03090

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GENERAL CONDITIONS:

13. This permit also constitutes:

- Determination of Best Available Control Technology (BACT)
- Determination of Prevention of Significant Deterioration (PSD)
- Certification of Compliance with State Water Quality Standards
- (Section 401, PL 92-500)
- Compliance with New Source Performance Standards

14. The Permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the Permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
- b. The Permittee shall retain at the facility or other location designated by this permit 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 application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

15. When requested by the department, the Permittee shall, within a reasonable period of time furnish any information required by law which is needed to determine compliance with the permit. If the Permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

SPECIFIC CONDITIONS:

1. Construction of the Trail Ridge "Plan A" Landfill shall be in conformance with plans, specifications, and contract drawings submitted in support of the application received July 27, 1990 and the additional information provided on September 12 and October 10 and 11, 1990. Permittee shall submit, in writing, to the Department of Environmental Regulation, Northeast District, 7825 Baymeadows Way, Suite 200-B, Jacksonville, Florida, 32256-7577, notification of the date that construction activities authorized by this permit commence.

SPECIFIC CONDITIONS (CONT'D):

2. The Permittee shall submit to the Department for approval a revised Quality Control/Quality Assurance Plan for installing the Class I area synthetic liner system, after selection of the synthetic liner manufacturer, and prior to its installation. The plan shall include the following:
 - a. Retention of a registered professional engineer for independent quality assurance.
 - b. Minimum qualifications of the Construction Quality Assurance engineer and supporting Quality Assurance personnel.
 - c. Sampling activities, size and locations, frequency of testing, acceptance and rejection criteria, and plans for implementing corrective measures that may be necessary.
 - d. Procedure for testing the density of the compacted clay subbase at least once per acre.
 - e. Procedures for testing the permeability of the Claymax at least once per 40,000 square feet.
 - f. The synthetic liner manufacturer's and installer's specific recommendations for acceptability of the soil portion ("subgrade" for the synthetic liner) and the Claymax portion of the liner system. The Permittee shall ensure that the installation contractor of the synthetic portion submits his certification of acceptance of the subgrade to the Department immediately upon its execution.
 - g. The synthetic liner manufacturer's specifications and recommendations for installing and testing the specific liner selected and demonstrating that it meets or exceeds NSF Standard 54. Quality Assurance Reports shall be submitted to the Department with the Certification of Completion. Installation of the synthetic liner for the leachate holding basin shall be performed in accordance with the Department approved Construction Quality Assurance Plan and shall meet the liner manufacturer's recommended installation procedures, pursuant to FAC Rule 17-701.050(4)(c).
3. The Permittee shall establish financial assurance for closure and long-term care. Proof that the financial assurance mechanism is funded in accordance with FAC Rule 17-701.076 shall be submitted to the Department sixty (60) days prior to the acceptance of any solid waste at the facility [17-701.076(2)]. All submittals in response to this specific condition shall be submitted to: Financial Coordinator, Solid Waste Section, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

PERMITTEE:

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Trail Ridge Landfill, Inc.

Date of Issue: 12-24-91

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SPECIFIC CONDITIONS (CONT'D):

4. A design for the Class I area to include 15-foot wide benches or terraces on the side slopes approximately every 20 vertical feet shall be submitted to the Department no later than 30 days after the commencement of construction. If the Department determines that such a design is inadequate, the Permittee shall correct such inadequacies to the satisfaction of the Department. If such inadequacies are not corrected to the satisfaction of the Department, the Permittee shall cease accepting waste at the facility. The final design shall be implemented by Permittee for each solid waste disposal side slope unit described in Specific Condition No. 36.
5. A design which provides an oil and grease skimmer for the outlet control structures for each stormwater management area shall be submitted to the Department no later than 30 days after the commencement of construction. If the Department determines that such design is inadequate, the Permittee shall correct such inadequacies to the satisfaction of the Department. The final design shall be implemented by Permittee during construction, prior to the acceptance of any waste.
6. A design to include an adequate berm system surrounding the leachate truck loading area to segregate potential leachate spills from the stormwater system shall be submitted to the Department no later than 30 days after the commencement of construction. If the Department determines that such design is inadequate, the Permittee shall correct such inadequacies to the satisfaction of the Department. The final design shall be implemented by Permittee during construction, prior to the acceptance of any waste.
7. Surface water runoff and/or diversion controls included in the plans and/or this permit shall be installed and operational prior to construction of the disposal areas. Surface water runoff shall be controlled during the construction stage and shall comply with FAC Chapter 17-3 at the site boundary.
8. Turbidity barriers shall be installed at all locations where the possibility of transferring suspended solids into the receiving water body exists due to the proposed work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. The Permittee shall be responsible for the removal of the barriers.
9. Turbidity controls shall be utilized throughout the project to contain any turbidity generated that exceeds State water quality standards.
10. Turbidity monitoring shall be conducted during any activity authorized by this permit which dislodges, removes or otherwise disturbs the soils within 50 feet of waters of the State which maintain a base flow in response to groundwater or flow during storm events. Sampling shall be conducted within 50 feet, in the down-current direction, of the activity or a turbidity curtain surrounding the activity and in a nearby unaffected area (background). During the activity, samples shall be taken every 3 hours. If turbidity levels exceed 29 NTU's above the background level, then the activity shall be halted until authorization from the Department has been received. A complete monitoring report shall be submitted to the Department on a weekly basis which shall include sample time, turbidity level, background turbidity, distance between sample and source, and method of analyses. A negative report shall be submitted if no activities take place within 50 feet of waters of the State as described above.

PERMITTEE:

Trail Ridge Landfill, Inc.

I.D. Number: GMS3116P03090

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SPECIFIC CONDITIONS (CONT'D):

11. For each phase of the surface water management system, the Permittee shall submit, within 30 days after completion of construction, a "Certification of Completion of Construction". At that time the Permittee shall notify the Department that the facility is ready for inspection and approval.
12. The Department must be notified, in writing, within 30 days of any sale, conveyance, or other transfer of a permitted system or facility or within 30 days of any transfer of ownership or control of the real property at which the permitted system or facility is located. The Permittee shall, at that time, provide the Department with two copies of any agreement between the Permittee and property owner which may affect the facility.
13. If any other regulatory agency should require revisions or modifications to the permitted project, the Department is to be notified of the revisions so that a determination can be made whether a permit modification is required.
14. The Permittee is responsible for the selection, implementation, and operation of all erosion and sediment controls on-site and to prevent violations of water quality standards in Chapters 17-3 and 17-4, F.A.C. The Permittee is encouraged to use the appropriate Best Management Practices described in the Florida Land Development Manual: A Guide to Sound Land and Water Management (DER, 1988).
5. The operation phase of the stormwater management system shall not become effective until the following criteria have been met:
 - (a) Within thirty (30) days after completion of construction, permittee shall submit a signed and sealed certification by an appropriate registered professional that the appropriate phase of the system has been constructed and is ready for inspection.
 - (b) The registered professional shall certify that the appropriate phase of the system has been constructed in accordance with approved plans and specifications; deviations from the plans must be submitted for prior approval to the Department.
 - (c) Record drawings will be furnished and revised to reflect any changes made during construction and signed and sealed by a Professional Engineer. The following information, at a minimum shall be verified on the record drawings:
 1. Dimensions and elevations of all discharge structures.
 2. Locations, dimensions, and elevation of all underdrain systems including cleanouts, connections to control structures, and points of discharge to receiving waters.
 3. Dimensions, elevations, contours or cross sections of all treatment storage areas.
 4. Dimensions, elevations, contours, final grades to determine flow direction and runoff.

PERMITTEE:

I.D. Number: GMS3116P03090

Permit/Cert Number: SC16-184444
Trail Ridge Landfill, Inc.

Date of Issue: 12-24-91
Expiration Date: 12-24-96

SPECIFIC CONDITIONS (CONT'D):

16. The following operational maintenance activities shall be performed on all permitted systems on a regular basis or as needed:

- (a) Removal of trash and debris.
- (b) Inspection of inlets and outlets.
- (c) Removal of sediments when the storage volume or conveyance capacity of the system is below design level.
- (d) Stabilization and restoration of eroded areas.
- (e) Mowing and removal of grass clippings.
- (f) Aeration, tilling or replacement of topsoil as needed to restore percolation capability of the system.
- (g) Replanting if vegetative cover in littoral zones falls below 80% coverage.

The stormwater management system shall be inspected after each heavy rain, but at a minimum once per quarter.

17. The permittee is required to provide for periodic inspections of the stormwater management system. The permittee shall submit reports to the Department certifying that the stormwater management system is operating as designed. The reports shall be submitted to the Department as follows:

- (a) Inspection reports for retention, underdrain, wet detention, and swales shall be submitted one year after completion of construction and annually thereafter.
- (b) Inspection reports for filtration treatment systems and pumped systems shall be submitted one year after completion of construction and annually thereafter. A registered professional must sign and seal the report certifying the filtration treatment system and/or pumped system is operating as designed.

18. If the stormwater management system is not functioning as designed and permitted, operational maintenance must be performed immediately to restore the system. If operational maintenance measures are insufficient to enable the system to meet the design standards, the permittee must either replace the system or construct an alternative design. If the Department determines that the original design is deficient, the Permittee must submit a permit modification application within sixty (60) days of the date the system was determined to be design deficient.

19. Following completion of all significant construction activities, the Permittee or authorized representative shall complete and submit to the Department, DER Form 17-7.130(2), entitled "Certification of Construction Completion Application to Operate only Resource Recovery and Management Facility." The Permittee shall

PERMITTEE:

Trail Ridge Landfill, Inc.

I.D. Number: GMS3116P03090

Permit/Cert Number: SC16-184444

Date of Issue: 12-24-91

Expiration Date: 12-24-96

SPECIFIC CONDITIONS (CONT'D):

submit to the Department, Record Drawings signed and sealed by a professional engineer registered in the State of Florida, and a Quality Assurance Report on liner installation prepared, signed, and sealed by a professional engineer registered in the State of Florida. The Permittee shall specify where leachate will be treated and/or disposed of; and the Permittee shall submit to the Department for approval, a letter of acceptance from the wastewater treatment plant which will provide treatment and/or disposal. At such time the Permittee shall arrange for Department representatives to inspect the facility in the company of the Permittee, engineer, and on-site operator, as required by FAC Rule 17-701.030(6). The facility shall not be operated or accept solid waste until the Department has notified the Permittee in writing that all applicable submissions required for the permit, including financial responsibility documentation have been received and found acceptable.

20. The facility shall not be operated or accept solid waste until the Department has notified the Permittee, in writing, that the applicable certification, attesting that the surface water management system has been constructed in accordance with the permitted design, has been received and approved.
21. Following notification that the Department has found the submittals acceptable, the Permittee shall operate the facility in conformance with the criteria contained in FAC Rule 17-701.050, any other applicable DER rules, any applicable permits, and the operation plan submitted with the permit application.
22. Daily records of waste quantities and types received shall be kept at the site. These records shall be summarized and a monthly waste quantity report shall be submitted to the Department by the fifteenth (15th) day of the following month.
23. Hazardous waste as defined in FAC Chapter 17-730, or biohazardous wastes as defined in FAC Rule 17-712.100(2) shall be prohibited from disposal. The Department shall be notified immediately in the event such wastes are discovered. If such wastes are discovered, the Permittee shall implement the waste control procedures as contained in the operations plan.
24. Laws of Florida, Chapter 88-130, Section 15, prohibits the disposal of whole tires, lead acid batteries, and white goods in solid waste landfills.
25. All construction and demolition debris must be disposed of in segregated areas according to FAC Rule 17-701.061(2).
26. An effective barrier to prevent unauthorized entry shall be installed and maintained in accordance with the plans in the permit application. Unauthorized scavenging or salvaging shall be prohibited. A screening barrier (i.e., trees or other vegetation) shall be installed and maintained to shield landfill operations from public view in accordance with FAC Rule 17-701.040(2)(h).

PERMITTEE:

Trail Ridge Landfill, Inc.

I.D. Number: GMS3116P03090

Permit/Cert Number: SC16-184444

Date of Issue: 12-24-91

Expiration Date: 12-24-96

SPECIFIC CONDITIONS (CONT'D):

27. Objectionable odors originating from the site shall be effectively controlled. A gas venting system shall be installed in accordance with the plans and specifications in the permit application. Should objectionable odors or gas migration become a problem, the passive gas venting system shall be converted to an active system with a flare or other means to destroy the landfill decomposition gas(es).
28. Litter control devices shall be installed as necessary to prevent litter from leaving the disposal areas.
29. Any interruption of regular landfill activities (fire, natural disasters, equipment breakdown) shall be immediately reported to the Department by phone. In the event of equipment breakdown, reserve equipment capable of performing basic disposal operations shall be made available at the site within 24 hours, excluding holidays or other days when the landfill is closed.
30. No landfill side slope, including temporary internal side slopes, shall be steeper than 3-to-1 (horizontal to vertical).
31. All exterior landfill side slopes shall have an initial cover of eighteen inches.
32. The proposed practice of punching holes into the intermediate cover layer on top of each cell of solid waste within the Class I area is prohibited.
33. The initial placement of select waste in the Class I area will be done under the supervision of a quality assurance engineer.
34. The final cap and cover system including permanent vegetation shall be placed over the entire surface of each completed solid waste disposal exterior side slope unit within 180 days after final waste placement. An exterior side slope unit is that area between the toe of the slope and intermediate benches or terraces, or that area between two intermediate benches or terraces in which final waste deposition has occurred.
35. A trained supervisor or foreman shall be responsible for maintaining the site in an orderly, safe, and sanitary manner in accordance with FAC Rules 17-703.300 and 17-703.400. This includes maintenance of the leachate collection system by water jet cleaning. Sufficient personnel shall be employed as noted in the operations plan to adequately operate the facility.
36. All-weather access roads to the site and disposal areas shall be maintained. Dust control methods (i.e. water sprays) shall be employed as necessary.
37. Quantitative records of leachate collected and sent off-site for treatment shall be kept and made available to the Department upon request. Disposal of leachate shall be in accordance with all applicable regulations and shall include the running of a TCLP analysis prior to disposal to determine if it is hazardous. Within six months of placing waste in the lined facility or when sufficient leachate has been generated, a detailed chemical characterization of a representative sample of the

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leachate shall be performed pursuant to FAC Rule 17-28.700(6)(a)2. This characterization shall include those parameters listed for initial sampling of the ground water monitoring wells. Routine sampling and analysis of leachate shall be established and incorporated by permit modification following review of the initial leachate characterization.

38. In Accordance with FAC Rules 17-28.700(6) and 17-701.050, the Permittee shall within ninety (90) days of the issuance of this permit install and place into operation a Department approved Ground Water Monitoring system.

a. The Ground Water Monitoring System shall be designed and constructed in accordance with plans submitted to and approved by the Department, subject to Department modifications.

b.

(1) Approximate monitoring well locations and designations shall be in accordance with Attachment 1. A surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) which will be horizontally located by metes and bounds or equivalent surveying techniques. The surveyed drawing shall include the monitor well identification number as well as location and elevation of all permanent benchmark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a Florida Registered Surveyor. All wells are to be clearly labeled and easily visible at all times.

All existing and new shallow surficial monitoring wells shall be constructed such that a portion of the screened interval shall extend into the vadose zone during all portions of the year and the screened interval shall be of sufficient length that a minimum of approximately five feet of screen shall extend into the water column throughout the year.

The Permittee shall install a deep surficial background monitoring well (B-31) on the center of the western boundary of the waste management area. The well shall be designed to monitor the base of the surficial aquifer and be constructed such that the screened interval shall exist at the bottom of the aquifer and shall extend to the base of the aquifer.

To monitor direction of ground water flow in the surficial aquifer, the Permittee shall have install groundwater monitoring wells: B-2 S,I B-33 S,I B-31 D B-7 S,I,D B-11 S,I B-12 S,I,D B-13 S,I B-14 S,I,D B-16 S B-17 S B-18 S B-19 S,I,D B-25 S,I,D B-26 S B-27 S,I,D B-28 S B-29 S B-30 S; and shall install intermediate and deep piezometers: P-17 I, D and P-29 I, D; by March 1, 1992.

Following installation of the monitoring wells and piezometers, weekly ground water elevation data will be obtained from each well. This data shall be analyzed and ground water surface maps constructed for the shallow surficial, intermediate surficial and deep surficial portions of the monitored aquifer. Data and maps shall be submitted monthly to the Department.

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Following review of the initial month of data collection and analysis, the Permittee shall submit to the Department proposed locations and completion intervals for additional monitoring wells, as needed, on the north and south boundaries of the waste management area and for additional existing wells to be sampled for compliance during Phase I of landfill operations, no later than April 15, 1992.

Approval of the proposed additional wells to be utilized as part of the ground water monitoring plan, as needed, during Phase I of the facility's operation will be obtained from the Department, wells required be constructed, initial sampling conducted, samples analyzed and results submitted to the Department thirty (30) days prior to the acceptance of waste by the facility.

Weekly groundwater elevation data shall be collected from all existing and constructed wells and piezometers for a period of nine additional months. The data will be compiled, analyzed, and groundwater surface maps constructed, this data shall be submitted to the Department on a quarterly basis. Following analysis of the year of data, the Permittee shall propose additional monitoring wells or sampling of existing wells, as needed, for groundwater monitoring of the waste management area.

- (2) The Permittee shall construct and utilize the groundwater monitoring wells for each phase of the facility's operation in accordance with the schedule below. This phasing will be subject to modification by the Department based on the groundwater flow direction information collected and presented by the Permittee as required prior to the acceptance of waste and during the initial year of ground water data collection. Installation and initial sampling of background ground water monitoring wells and Phase I compliance wells shall be conducted within ninety (90) days of the issuance of this permit. Initial sampling and analysis of compliance wells for each additional phase shall be conducted and the analytical results submitted to Department sixty (60) days prior to acceptance of waste in that phase.

Class I Landfill

Background Well Clusters:	B-2 S,I B-3, S,I	Locations as indicated on
Drawing No. 9 and submittals.	B-31 D	
Compliance Well Clusters:		
Phase I	B-7 S,I,D B-11 S,I B-12 S,I,D B-14 S,I,D B-18 S B-19 S,I,D B-20 S B-21 S B-22 S B-25 S,I,D B-27 S,I,D	
Phase II	B-16 S B-17 S,I,D	
Phase III	B-13 S,I B-23 S	
Phase IV	as above	
Phase V	B-24 S B-26 S B-28 S B-29 S,I,D B-30 S	

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SPECIFIC CONDITIONS (CONT'D):

Class III Landfill

Background Well Cluster: B-9 S,I

Compliance Well Clusters:

B-8 S,I,D B-10 S,I B-15 S,I

Additional wells as required by the Department will be installed and/or sampled, based on sampling results and groundwater measurements.

- c. Upon completion of construction of the groundwater monitoring wells, the following information shall be submitted for all groundwater monitoring wells (permanent and temporary) and any new well(s) constructed:

Well identification	Driller's Lithologic Log
Latitude/Longitude	Total well depth
Aquifer monitored	Casing diameter
Screen type and slot size	Casing type and length
Elevation at top of pipe	SJRWMD well construction
Elevation at land surface	permit number

- d. In the event any monitoring well becomes damaged or inoperable, the Permittee shall notify the Department within seventy-two (72) hours and a detailed written report shall follow within seven (7) days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent a recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation.
- e. The zone of discharge shall extend horizontally to the property line or one-hundred (100) feet beyond the waste management area, whichever is less, and vertically to the base of the surficial aquifer, in accordance with F.A.C. Rule 17-28.700(2). This zone of discharge shall remain in effect unless it becomes necessary to seek a change, pursuant to F.A.C. Rule 17-28.700(5). All groundwater monitoring wells shall be used to determine compliance with state and groundwater standards and criteria and shall exist outside the zone of discharge.
- f. The Permittee shall ensure that the water quality standards for Class G-II ground waters will not be exceeded at the boundary of the zone of discharge according to F.A.C. Rules 17-3.402 and 17-3.404.
- g. The Permittee shall ensure that the minimum criteria for ground water specified in F.A.C. Rule 17-3.402 shall not be violated within the zone of discharge.
- h. Ground water levels shall be recorded no less than forty-eight (48) hours after well installation and prior to evacuating the well for sample collection. Measurements, referenced to N.G.V.D., shall include ground water surface elevation, the top of well casing, and land surface at each site at a precision of plus or minus 0.01 feet. This information shall be submitted to the Department with the quarterly ground water analytical results. A map must be constructed depicting locations of wells and piezometers and corresponding water level measurements.

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SPECIFIC CONDITIONS (CONT'D):

- i. The Permittee shall initially analyze all ground water samples collected from the monitoring wells required for each phase of the facility as described in Specific Condition 40.b.2 of the permit for parameters listed in Attachment 2 (Initial Groundwater Parameters). Tentative identification of all constituents which register greater than 10 ppb is required.
- j. All sample collection and water quality analysis shall be performed by organizations with approved comprehensive or Generic Quality Assurance Plans (CompQAPs) on file with the Department. The CompQAP shall address all sampling and analysis requirements of this permit. Within 60 days of permit issuance, the Permittee shall submit to the Department for approval the name of the sample collecting organization and laboratory to be utilized. The Department reserves the right to reject all results generated by the Permittee prior to CompQAP approval, or which are not in accordance with the Department approved CompQAP. Sampling and analytical work is also subject to the provisions of FAC Rule 17-28.700(6)(d). In addition, the Permittee shall be in compliance with the provisions of FAC Rule 17-160 within 90 days of the effective date of that rule.
- k. Ground water sampling results shall be reported on the attached Parameter Monitoring Report Form [DER Form 17-1.216(2)] (Attachment 5). In order to facilitate entry of this data into the state computer system, these forms or an exact replica must be used and must not be altered as to content. The original forms should be retained so that the necessary information is available to properly complete future reports. The report forms received from the laboratory must be submitted along with the DER Parameter Monitoring Report Forms described above. The Permittee shall submit to the Department the results of the ground water monitoring well water quality analysis no later than the fifteenth (15th) day of the month immediately following the end of the sampling period. Quarterly analytical results shall be accompanied by a brief narrative summary. The results shall be sent to the Department of Environmental Regulation, Northeast District, 7825 Baymeadows Way, Suite 200-B, Jacksonville, Florida, 32256-7577.

In addition to the information provided on the Parameter Monitoring Report Form, the following shall be generated:

1. The laboratory report shall indicate the analytical method, the detection limit and the dilution factor used on each data sheet.
2. The report shall show in columnar form the analysis results and, where applicable, the corresponding Florida Groundwater Standards and/or criteria.
3. All peaks greater than the EPA specified detection limit for the analytical method shall be identified.

The Permittee shall submit to the Department a minimum of two complete reports and, upon request by the Department, as many additional reports as the Department deems necessary.

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SPECIFIC CONDITIONS (CONT'D):

The Permittee shall prepare and submit to the Department groundwater surface contour maps, prepared from data collected from all permitted wells on site, for the initial sampling event and each quarterly sampling event. A shallow surficial map, utilizing data from the shallow wells; an intermediate surficial map, utilizing the data from the intermediate wells; and a deep surficial map, utilizing data from the deep wells will be prepared and submitted to the Department, with the groundwater elevation data. This information shall be submitted in conjunction with the initial and quarterly analytical data.

1. All ground water monitoring wells shall be sampled and analyzed quarterly for the parameters listed in Attachment 3 (Quarterly Groundwater Parameters). However, additional samples, wells, and parameters may be required based upon subsequent analyses.

Quarterly groundwater samples in the first year of the permit will be collected from all wells required for each phase of monitoring prior to June 30, 1992, September 30, 1992 and December 30, 1992, respectively. A report of the laboratory data will be submitted to the Department for each quarter no later than July 15, 1992, October 15, 1992, and January 15, 1993, respectively. Quarterly groundwater samples in the following years of the permit will be collected prior to March 30, June 30, September 30, and December 30, of each year respectively. A report of the laboratory data will be submitted to the Department for each quarter no later than April 15, July 15, October 15, and January 15, respectively.

- m. If, at any time, ground water standards and/or criteria are exceeded, the Permittee has fifteen (15) days in which to resample the monitor well(s) to verify the original analysis. Should the Permittee choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility.
- n. Following two (2) years of quarterly sampling, data will be reviewed by the Department to evaluate changes in parameters and sampling frequencies that may be appropriate.
- o. Sixty (60) days prior to the renewal of this permit, the Permittee shall sample and analyze all monitoring wells for the parameters listed on Attachment 1.
- p. Compliance with ground water standards and/or criteria shall be determined by analysis of unfiltered or settled ground water samples.
- q. Within sixty (60) days of issuance of this permit, all piezometers and wells not a part of the approved ground water monitoring plan are to be plugged and abandoned in accordance with F.A.C. Rule 17-21.10(4) and St. Johns River Water Management District Rule 40C3.531. The Permittee shall submit a written report to the Department providing verification of the well plugging and abandonment. A written request for exemption to the plugging and abandonment of a well must be submitted to the Department for approval.

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SPECIFIC CONDITIONS (CONT'D):

- r. F.A.C. Rule 17-28.700(6)(d)11 requires that the ground water monitoring program must inventory and map surface waters within one mile of the landfill. If there are any modifications to surface waters within one mile of the landfill, the Permittee shall upon request submit to the Department a revised inventory and map of surface waters within ninety (90) days.
 - s. F.A.C. Rule 17-28.700(6)(d)7 requires an inventory of all wells within a one (1) mile radius of the landfill, including the owners' names and addresses, well locations, well specifications (well depth, diameter, screened interval, capacity, etc.) and utilization. If there are any changes to the well inventory, the Permittee shall upon request of the Department revise the well inventory and shall submit the revised inventory to the Department within ninety (90) days.
39. In accordance with F.A.C. Rule 17-28.700(6)(d)11, surface water monitoring is required on a quarterly basis in conjunction with the ground water monitoring schedule. The following Surface Water Monitoring Program shall be implemented within ninety (90) days of the issuance of this permit.
- a. The Surface Water Monitoring System shall be designed and operated in accordance with plans submitted to and approved by the Department.
 - b. The surface water monitoring sites shall be located as follows:

<u>Location</u>	<u>Site Number</u>
	SW-1
	SW-2 As indicated on Drawing No. 9
	SW-3

- c. All surface water sampling sites shall be sampled and analyzed quarterly for the parameters listed in Attachment 4. However, additional sampling sites and parameters may be required based upon subsequent analyses. Following two (2) years of quarterly sampling, data will be reviewed by the Department to evaluate changes in parameters and sampling frequencies that may be appropriate.

In addition to the information provided on the Parameter Monitoring Report Form, the following shall be generated:

1. The laboratory report shall indicate the analytical method, the detection limit and the dilution factor used on each data sheet.
2. The report shall show in columnar form the analysis results and, where applicable, the corresponding Florida Groundwater Standards and/or criteria.
3. All peaks greater than the EPA specified detection limit for the analytical method shall be identified.

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SPECIFIC CONDITIONS (CONT'D):

The Permittee shall submit to the Department a minimum of two complete reports and, upon request by the Department, four additional reports.

40. Closure of the landfill is subject to the provisions of FAC Rules 17-701.070 through 17-701.076. Pursuant to FAC Rule 17-701.072, at least ninety (90) days prior to the date when wastes will no longer be accepted, the Permittee shall submit a closure permit application to the Department for review and approval. The application shall include a closure plan which meets the requirements of FAC Rule 17-701.073.
41. A copy of the Department approved engineering drawings, plans, reports, operational plan, and supporting information shall be kept at this landfill at all times for reference and inspections.
42. The Permittee shall immediately notify the Department by telephone whenever a serious problem occurs at this facility. During regular business hours notification shall be made to the Northeast District Office at (904)448-4300. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number (904)488-1320. This number is for emergencies only. Within 7 days of telephone notification, the Permittee shall submit to the Department a written report explaining the extent of the problem, its cause, and what actions have been or will be taken to correct the problem.
43. The Department shall be notified and prior approval shall be obtained for any changes or revisions made during construction.
44. Receipt of this permit from the Department does not relieve the applicant from obtaining other federal, state, and local permits required by law.
45. A survey of the waste disposal area shall be conducted at the end of each year from the date of permit issuance until it is within ten (10) feet of design height after which it shall be conducted quarterly. This information is to be submitted to the Department within 30 days and shall include the maximum elevation at the design high point, all points designed for terraces, and the location of the toe of the slope.
46. The mitigation plan, "Trail Ridge Landfill Wetland Impacts and Mitigation Plan," submitted on June 18, 1990, shall be appended as a Specific Condition of this permit. Any specific condition requirements listed herein, shall supersede or modify any requirements contained in the appended mitigation plans.
47. Prior to initiating any construction, Permittee must record a conservation easement on the real property pursuant to Section 704.06, F.S., prohibiting all construction including clearing, dredging or filling, except that which is authorized by this permit within the conservation creation/preservation areas as delineated on plans dated as received by the Department on June 18, 1990. The easement must contain provisions as set forth in subsections 1(a)-(b) of Section 704.06, F.S., as well as provisions indicating that they may be enforced by the Department and may not be

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amended without Department approval. Within 30 days of the date of issuance of this permit and prior to recording, said easement must be submitted to the Department for review and approval. Within 30 days of receipt of Department approval, Permittee must provide to the Department a certified copy of the recorded easement showing the date they were recorded and the official records book and page number.

48. In order to evaluate the effects of the discharging of water from the stormwater management systems by pumping into the adjacent wetlands, the permittee shall establish a monitoring plan which shall include the following:

I. For the Class I Stormwater Management System:

(a) A Base Line Data Study shall be conducted which shall include the following:

(1) A detailed scaled plan site drawing shall be submitted to the Departments Northeast District Office which contains the location of all wetland stormwater discharge structures to include details of the structures. The jurisdictional delineation line shall be depicted on the drawings.

(2) A series of line transects shall be established, divided into appropriate intervals, and vegetation shall be determined by the appropriate methodology which shall be approved, in writing, by the Department. The transect vegetational data shall be compiled in a report format and submitted to the Northeast District of the Department.

(3) The transects shall be established at appropriate intervals along the areas of discharge and extend into the wetland areas to the lowest elevation along each transect line. All transect lines shall be approved by the Department prior to data collection for the Base Line Study. All transects shall be clearly indicated on the site plan drawing required in (1) above.

(4) The transect lines shall be permanently marked and utilized for all wetland stormwater discharge monitoring requirements established in this permit.

(5) Photographs along each established transect line shall be submitted as part of the Base Line Data Study. These photographs shall be labeled so as to graphically depict each interval along each transect line.

(6) At the wetland/upland boundary and at the mid-elevation of each transect as required in (2) above, a piezometer shall be installed to determine ground water elevations in the wetland discharge areas. A reference piezometer shall be established at the same elevation as the mid-elevation piezometer for each transect at a point extended along

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each transect so as to be at the greatest distance from the stormwater pond. These ground water elevations shall be recorded as part of each transect evaluation the location of each piezometer shall be clearly indicated for each transect as required in (1) above on the scaled site plan for each monitoring report.

(7) The complete Base Line Study shall be submitted to the Northeast District Office prior to the commencement of the construction of the stormwater pond.

(b) The wetland areas of discharge shall be monitored at 1 year intervals commencing one year from the start date of the construction of the stormwater pond until the expiration date of this permit. These monitoring reports shall utilize the transect established in the Base Line Study and shall include all the information required in the Base Line Study. These monitoring reports shall be submitted no later than two (2) weeks after each monitoring event. The monitoring requirements shall be reviewed and/or revised by the Department at the time of renewal of this permit.

(c) The permittee shall notify the Northeast District Office of the Department, in writing, of the start date of the stormwater pond and the date of the first wetland stormwater discharge within seven (7) days of the event.

(d) In the event of any quantified vegetational species compositional changes along any interval of any transect during any monitoring event, the permittee shall include any such changes in that periods monitoring report and include any proposed changes in the discharge schedule to mitigate these changes. The Department shall review the proposed changes and the permittee shall take what remedial actions deemed necessary by the Department.

(e) The permittee shall take all appropriate measures to insure that the wetland stormwater discharge system does not cause erosion into any wetland area during construction and operation.

(f) The wetland stormwater discharge system shall be completed and operational prior to excepting any waste in the Phase I, Class I Landfill.

II. For the Class III Stormwater Management System:

(a) All provisions of paragraphs (a), (b), (c), (d), and (e), shall apply to the Class III Storm Water Management System Wetland Discharge System.

(b) The wetland discharge system shall be completed and operational no later than 180 days from the commencement of the excavation of the Class III Stormwater Management Pond.

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(c) The permittee shall notify the Northeast District Office of the Department, in writing, of the "start date" of the excavation of the Class III Stormwater Management Pond within 7 days of the commencement of the activity.

49. The initial planting of the mitigation areas, per appended mitigation plan Section 4(b)(4), shall be completed no later than one year after commencement of the construction activities authorized by this permit.
50. The Permittee shall submit an as-built survey of the wetland creation areas showing dimensions, grades, ground elevations, and water surface elevations certified by a registered surveyor or professional engineer. The as-builts must be submitted within thirty (30) days of the initial planting.
51. The Permittee shall furnish the Department with monitoring reports on the wetland creation areas describing:
 - a. Percent survival and diversity of planted species within each stratum;
 - b. Recruitment density and composition within each stratum;
 - c. Recorded growth via established parameters for planted trees and shrubs;
 - d. Percent cover of herbaceous species;
 - e. Surface water elevations referenced to N.G.V.D., or if surface water is not present, groundwater elevation referenced to N.G.V.D.

The first monitoring year shall start as of the planting date and data shall be collected and submitted in accordance with Specific Condition No. 4. Reports to the Department must also include photographs, descriptions of problems encountered, and solutions undertaken.
52. Within the wetland creation areas, non-native vegetation and nuisance vegetation such as Typha spp. shall be controlled by hand clearing or other methods approved by the Department so that they constitute no more than 10% of the areal cover at any monitoring period.
53. Successful establishment of wetland creation shall occur when:
 - a. on an annual basis at least 80% of the planted individuals in each stratum have survived and are showing signs of normal annual growth, based on standard growth parameters such as height and base diameter, or canopy circumference; and
 - b. the above criteria has been achieved and maintained for a three (3)-year period following initial planting
54. In the event that the success criteria as stated in Specific Condition No. 33 are not achieved by the expiration date of this permit, Permittee shall enter into a long-term agreement with the Department so as to ensure the success of the mitigation plan.

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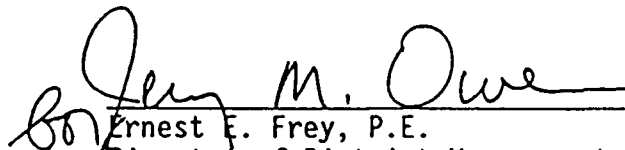
Expiration Date: 12-24-96

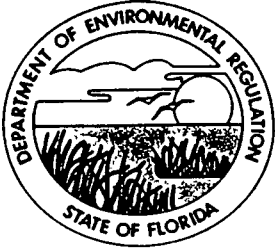
SPECIFIC CONDITIONS (CONT'D):

55. All wetland areas or water bodies which are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring or excess turbidity or dewatering.
56. All disturbed areas adjacent to the mitigation area must be sodded or seeded and mulched within 10 days following their completion and a substantial vegetation cover must be established within 60 days of sodding or seeding. |
57. The Permittee shall submit to the Department within sixty (60) days prior to acceptance of wastes, two copies of the final version of the Department approved Operations Plan, including a leachate spillage control plan.
58. Pursuant to FAC Rule 17-4.090, prior to sixty (60) days before the expiration of this permit, the Permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Ernest E. Frey, P.E.
Director of District Management



RECEIVED 01/12/88

Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

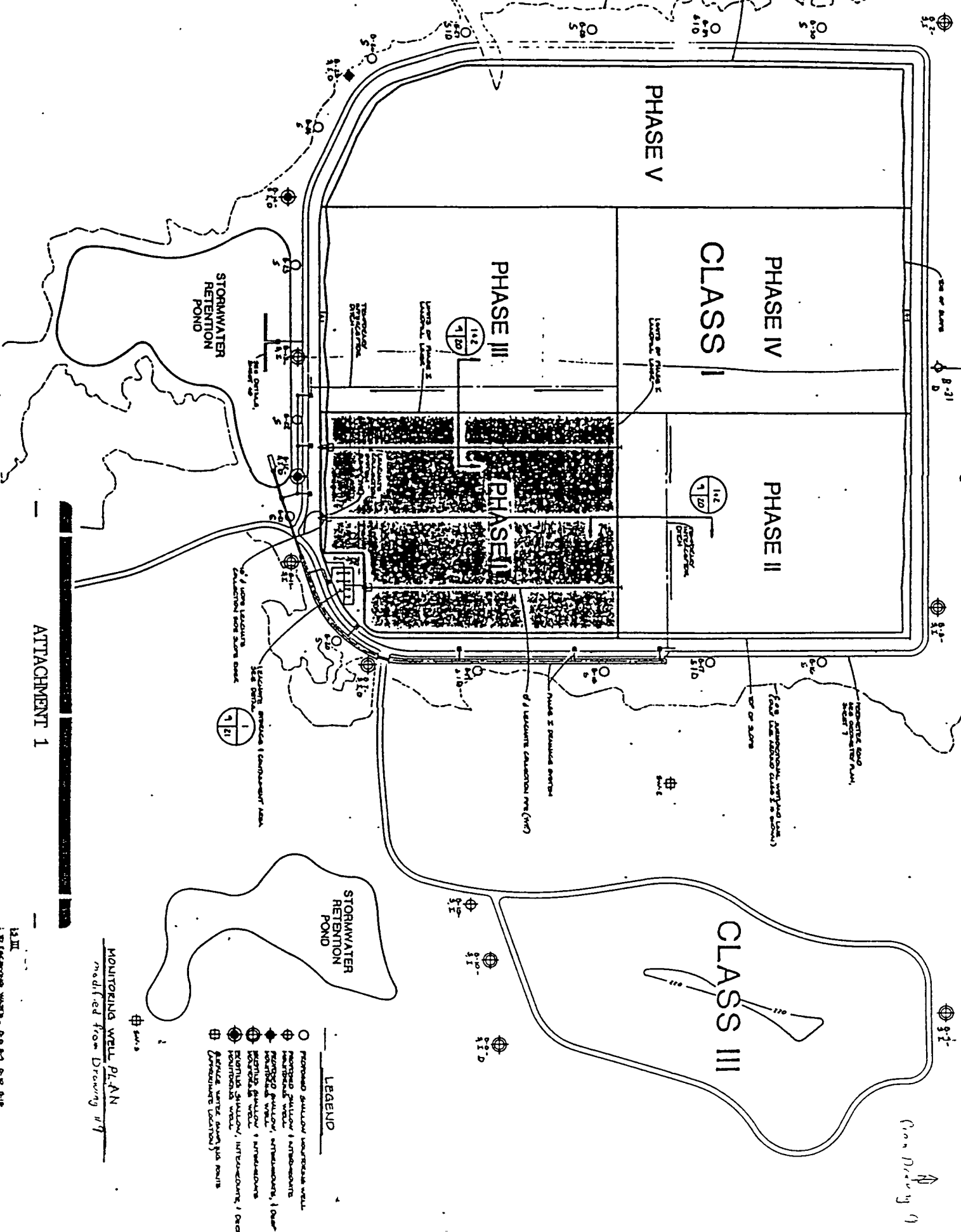
Carol M. Browner, Secretary

The enclosed attachments were inadvertently left out of the permit for the Trail Ridge Landfill. Please attach to your copy of the permit.

Administration 448-4300
Air 448-4310
Waste Management 448-4320



Water Facilities 448-4330
Water Management 448-4340
FAX 448-4366



ATTACHMENT 1

MONITORING WELL PLAN
modified from Drawing # 9

- LEGEND
- PERMEABLE GRAVEL INTERLOCK WELL
 - POROUS GRAVEL INTERLOCK WELL
 - POROUS AGGREGATE INTERLOCK WELL
 - SHALLOW WELL
 - DEEP WELL
 - PERMEABLE GRAVEL INTERLOCK WELL
 - POROUS GRAVEL INTERLOCK WELL
 - POROUS AGGREGATE INTERLOCK WELL
 - SHALLOW WELL
 - DEEP WELL

12 III
: TO EXAMINE WELLS - SEE PLAN, 10-10-11

LIST OF PRIORITY POLLUTANTS

1. acenaphthene
2. acrolein
3. acrylonitrile
4. benzene
5. benzidine
6. carbon tetrachloride (tetrachloromethane)

Chlorinated benzenes (other than dichlorobenzenes)

7. chlorobenzene
8. 1,2,4-trichlorobenzene
5. hexachlorobenzene

Chlorinated ethanes (incl. 1,2-dichloroethane, 1,1,1-trichloroethane & hexachloroethane)

10. 1,2-dichloroethane
11. 1,1,1-trichloroethane
12. hexachloroethane
13. 1,1-dichloroethane
14. 1,1,2-trichloroethane
15. 1,1,2,2-tetrachloroethane
16. chloroethane

Chloroalkyl ethers (chloro-methyl, chloroethyl & mixed ethers)

17. bis(2-chloroethyl) ether
18. 2-chloroethyl vinyl ether (mixed)

Chlorinated naphthalene

15. 2-chloronaphthalene
20. 2,4,6-trichloronaphthalene
21. perchloronaphthalene
22. chloroform (trichloromethane)
23. 2-chlorophenol

Dichlorobenzenes

24. 1,2-dichlorobenzene
25. 1,3-dichlorobenzene
26. 1,4-dichlorobenzene

Dichlorobenzidine

27. 3,3'-dichlorobenzidine
28. 1,2-dichloroethylene
29. 1,2-trans-dichloroethylene
30. 2,4-dichlorophenol
31. 1,2-dichloropropane
32. 1,3-dichlorocyclohexane
33. 2,4-dimethylphenol
34. 2,4-dinitrotoluene
35. 2,6-dinitrotoluene
36. 1,2-diphenylhydrazine
37. ethylbenzene
38. fluoranthene

Haloothers (other than those listed elsewhere)

39. 4-chlorophenyl phenyl ether
40. 4-bromophenyl phenyl ether
41. bis(2-chloroisopropyl) ether
42. bis(2-chloroethoxy) methane

Halomethanes (other than those listed elsewhere)

43. methylene chloride (dichloromethane)
44. methyl chloride (chloromethane)
45. methyl bromide
46. bromoform (tribromomethane)
47. dichlorobromomethane
48. trichlorofluoromethane
49. chlorodibromomethane
50. hexachlorobutadiene
51. hexachlorocyclopentadiene
52. isophorone
53. naphthalene
54. nitrobenzene

Nitrophenols (including 2,4-dinitrophenol & dinitrocresol)

55. 2-nitrophenol
56. 4-nitrophenol
57. 2,4-dinitrophenol
58. 4,6-dinitro-o-cresol

Nitrosamines

59. N-nitrosodimethylamine
60. N-nitrosodiphenylamine
61. N-nitrosodi-n-propylamine
62. pentachlorophenol
63. phenol

Phthalate esters

64. diisobutyl (2-ethylhexyl) phthalate
65. butyl benzyl phthalate
66. di-n-butyl phthalate
67. di-n-octyl phthalate
68. diethyl phthalate
69. dimethyl phthalate

Polynuclear aromatic hydrocarbons

70. benzo(a)anthracene (1,2-benzanthracene)
71. benzo(a)pyrene (3,4-benzopyrene)
72. 3,4-benzofluoranthene
73. benzo(k)fluoranthene (11)
74. chrysene
75. acenaphthylene
76. anthracene
77. benzo(ghi)perylene (1,12-benzoperylene)
78. fluororene
79. phenanthrene
80. dibenzo(a,h)anthracene (1,2,5,6-dibenzanthracene)
81. indeno(1,2,3-cd)pyrene (2,3-o-phenylene-pyrene)
82. pyrene
83. tetrachloroethylene
84. toluene
85. trichloroethylene
86. vinyl chloride (chloroethylene)

Pesticides & Metabolites

87. aldrin
88. dieldrin
89. chlordane (tech. mixture & metabolites)

DDT & Metabolites

90. 4,4'-DDT
91. 4,4'-DDE (p,p'-DDX)
92. 4,4'-DDD (p,p'-TDE)

Endosulfan & metabolites

93. a-endosulfan-aloha
94. b-endosulfan-Beta
95. endosulfan sulfate

Endrin & metabolites

96. endrin
97. endrin aldehyde

Heptachlor & metabolites

98. heptachlor
99. heptachlor epoxide

Hexachlorocyclohexane (all isomers)

100. a-BHC-Alpha
101. b-BHC-Beta
102. g-BHC-(lindane)-Gamma
103. d-BHC-Delta

Polychlorinated biphenyls (PCB's)

104. PCB-1242 (Arochlor 1242)
105. PCB-1254 (Arochlor 1254)
106. PCB-1221 (Arochlor 1221)
107. PCB-1232 (Arochlor 1232)
108. PCB-1248 (Arochlor 1248)
109. PCB-1260 (Arochlor 1260)
110. PCB-1016 (Arochlor 1016)

Other Parameters

111. Toxaphene
112. Antimony (Total)
113. Arsenic (Total)
114. Beryllium (Total)
115. Caesium (Total)
116. Chromium (Total)
117. Copper (Total)
118. Cyanide (Total)
119. Lead (Total)
120. Mercury (Total)
121. Nickel (Total)
122. Selenium (Total)
123. Silver (Total)
124. Thallium (Total)

NOTE: All Volatile Organic Compounds Shall Be Analyzed Using EPA Methods 601 and 602

ATTACHMENT 3

QUALITY CONTROL GROUNDWATER PARAMETERS

Field Parameters

Specific Conductivity pH
Static Water Level

Indicator Parameters

Ammonium	Sodium
Bicarbonate	Total Dissolved Solids (TDS)
Dissolved Oxygen (DO)	Total Organic Carbon (TOC)
Nitrates	Turbidity

Inorganic Parameters

Arsenic	Iron
Cadmium	Lead
Chromium	Mercury

VOC's (Method 601)

Bromodichloromethane	1,1-Dichloroethene
Bromoform	1,2-Dichloroethane
Bromomethane	trans-1,2-Dichloroethene
Carbon Tetrachloride	cis-1,3-Dichloropropene
Chlorobenzene	trans-1,3-Dichloropropene
Chloroethane	1,2-Dichloropropane
2-Chloroethylvinyl ether	Methylene Chloride
Chloroform	1,1,2,2-Tetrachloroethane
Chloromethane	Tetrachloroethene
Dibromochloromethane	1,1,1-Trichloroethane
1,2-Dichlorobenzene	1,1,2-Trichloroethane
1,3-Dichlorobenzene	Trichloroethene
1,4-Dichlorobenzene	Trichlorofluoromethane
Dichlorodifluoromethane	Vinyl Chloride
1,1-Dichloroethane	

VOC's (Method 602)

Benzene	1,4-Dichlorobenzene
Chlorobenzene	Ethylbenzene
1,2-Dichlorobenzene	Toluene
1,3-Dichlorobenzene	

NOTE: Static Groundwater Level Contour Maps Shall Be Provided With Each Quarterly Sampling Event

Quarterly Surface Water Parameters

Field Parameters

Specific Conductivity
 pH
 Dissolved Oxygen
 Turbidity
 Temperature
 Water Temperature

Total Depth
 Sample Depth
 Stream Velocity
 Secchi
 Odors, Colors, Sheens

Laboratory Parameters

Conductivity
 pH
 Alkalinity
 Total Dissolved Solids (TDS)
 Total Dissolved Volatile Solids
 Total Suspended Solids
 Total Volatile Solids
 Total Fixed Solids
 NH₃
 TKN
 NO₂ + NO₃
 TPO₄
 OPO₄
 Hardness
 Chloride
 Sulfate
 Zinc

Fluoride
 Chemical Oxygen Demand
 Total Nitrogen
 Ammonium (NH₄)
 Arsenic
 Bicarbonate
 Biochemical Oxygen
 Demand (BOD₅)
 Cadmium
 Chromium
 Copper
 Iron
 Lead
 Mercury
 Nitrate
 Sodium
 Total Organic Carbon (TOC)

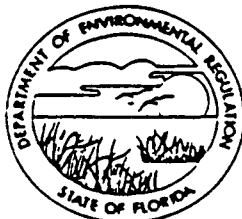
VOC's (Method 601)

Bromodichloromethane
 Bromoform
 Bromomethane
 Carbon Tetrachloride
 Chlorobenzene
 Chloroethane
 2-Chloroethylvinyl ether
 Chloroform
 Chloromethane
 Dibromochloromethane
 1,2-Dichlorobenzene
 1,3-Dichlorobenzene
 1,4-Dichlorobenzene
 Dichlorodifluoromethane
 1,1-Dichloroethane

1,1-Dichloroethene
 1,2-Dichloroethane
 trans-1,2-Dichloroethene
 cis-1,3-Dichloropropene
 trans-1,3-Dichloropropene
 1,2-Dichloropropane
 Methylene Chloride
 1,1,2,2-Tetrachloroethane
 Tetrachloroethene
 1,1,1-Trichloroethane
 1,1,2-Trichloroethane
 Trichloroethene
 Trichlorofluoromethane
 Vinyl Chloride

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

QUARTERLY REPORT ON GROUND WATER MONITORING
Rule 17-4.245(6)(k)2.

GMS # _____ DATE _____

DER PERMIT # _____

Installation Name _____

Address _____ City _____ State _____ Zip _____ County _____

Owner or Authorized Representative's Name _____ Title _____

Method of Discharge _____

Type of Industry _____

Report for Period _____ date _____ to _____ date _____

Attach monitoring data as approved in monitoring plan using parameter monitoring report forms. When applicable, attach additional sheets describing any changes in the background water quality and the discharge plume since the last reported description. Include any changes in size, direction of movement, rate of movement, and concentration changes of plume constituents in violation of the applicable standards.

NOTE: Pursuant to Rule 17-4.245(6)(k)3., at any time there is a change in the permitted volume, location or chemical, physical or microbiological composition of the discharge plume, the permittee shall notify the department and, if required by the department, submit a new report stating the volume and chemical, physical and microbiological compositions of the discharge at the point of release or contact with the ground water at the site boundary.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Owner or Authorized Representative's Signature _____ Date _____

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # _____

Sample Date _____

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name _____

Classification of Groundwater _____

Well Developed* Prior to
Sample Collection (Yes/No) _____

Ground Water Elevation
(above MSL) _____

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added

*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

APPENDIX III.

Florida Department of Transportation Connection Permit

FLORIDA

BOB MARTINEZ
GOVERNOR



DEPARTMENT OF TRANSPORTATION

RECEIVED DEC - 4 1991

BEN G. WATTS
SECRETARY

Date: November 27, 1991

Attachment to Permit No.: 2-72-294-91-0203

All pavement striping within the Department of Transportation Right of Way shall be thermoplastic and according to the approved plan and permit and Standard Index 17346 and 17352.

Maintenance of traffic control within the Department of Transportation Right of Way shall be performed according to Standard Index 600 through 650.

A copy of the approved plan and permit shall be on the job site at all times. Construction on the Department of Transportation Right of Way shall meet all of the Department's standard construction specifications and safety criteria.

This permit is issued with the understanding that construction shall be performed in accordance with Department of Transportation specifications by a Department approved contractor and that all cost of construction shall be borne by the applicant.

It is also understood and agreed that the rights and privileges herein set out are granted only to the extent of the State's right, title and interest in the land to be entered upon and used by the holder and the holder will at all times assume all risk of and indemnify, defend and save harmless the State of Florida and Department from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said holder of the aforesaid rights and privileges.

During construction, all safety regulations of the Department shall be observed and the holder must take measures, including placing and display of safety devices, which may be necessary in order to safely conduct the public through the project area, in accordance with the Federal Manual on Uniform Traffic Control Devices (MUTCD), the Department's Roadway and Traffic Design Standards and Standard Specifications for Road and Bridge Construction.

The applicant is required to notify the Department of Transportation office at (904) 695-4000 within ten (10) days after completion of the project so that a final inspection may be conducted.

Please request your contractor to contact Ms. Carol Davis' office at 838 Ellis Road, Jacksonville, Florida 32205, (904) 695-4000 within twenty four (24) hours prior to beginning construction, in order that she may arrange for the necessary inspection and advise of maintenance of traffic requirements.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
CONNECTION APPLICATION
SUPPLEMENT FORM AND CHECKLIST

FORM 850-040-51-a
HIGHWAY PLANNING
05/90
Page 1 of 3

For Category II and III Connections/optional for Category I)

APPLICATION NUMBER _____ (this I.D. number to be filled in by Permit staff)

APPLICANT IDENTIFICATION

Applicant: Trail Ridge Landfill, Inc.

Mailing Address: P.O. Box 6987

City, State, Zip: Jacksonville, FL 32236

Telephone: (904) 388-8561

Property Owner: Gilman Timerland and Land Development Company Consulting Firm: England, Thims & Miller, Inc.

(responsible officer): William Davis

(responsible officer): Joseph A. Tarver

Mailing Address: P.O. Box 878

Mailing Address: 3131 St. Johns Bluff Rd. So.

City, State, ZIP: St. Marys, GA 31558

City, State, ZIP: Jacksonville, FL 32216

Telephone: (912) 882-4241

Telephone: (904) 642-8990

PROPERTY INFORMATION

Property's Physical

Site Address: _____

Between: 5735'+ N.E. of S.R. 200/S.R. 228 Intersection
(Street, Road, Etc.) and (Street, Road, Etc.)

Land Use _____ Units
(sq. ft. or Dwelling Units)

Existing Timber Lands

Proposed Sanitary Landfill

if development is in phases, please provide this information on a separate sheet.

TRIP GENERATION (not required for Category I)

Estimated Average Daily Volume 550

Estimated Average Peak Hour Volume IN * OUT * AM/PM

*Traffic Study Not Required (circle AM or PM)

LOCAL GOVERNMENT DEVELOPMENT APPROVAL INFORMATION

Status of development approval (check one):

Already Approved: _____

Approval Pending: X

If "approval pending" what is the expected approval date? Sept. 30, 1991

Name and address of local government development approval official:

Name: Mrs. Mary Nogas

Title: Supervisor - Solid Waste

Department/Office: Department of Environmental Regulation

Street Address: 7825 Baymeadows Way Suite B200

City, State, ZIP: Jacksonville, FL 32256-7577

Phone Number: (904) 448-4320 Ext. 355

HIGHWAY AND CONNECTION LOCATION INFORMATION

Road Name: Baldwin/Maxville Road Road Name: _____
Road Number (State/Federal): S.R. 200 / U.S. 301 Road Number (State/Federal): _____ / _____
Posted Speed Limit: 55 MPH Posted Speed Limit: _____
Road Section Number: _____ Road Section Number: _____
Mile Post Number: _____ Mile Post Number: _____

(Attach Additional Sheets As Needed)

SITE PLAN AND CONNECTION LOCATION CHECKLIST - This is the minimum information required for initial review. Should additional information be requested, the Department will send you an updated checklist of additional required information.

A. Site Plan Map (Scale: _____)

Number of Copies: _____

_____ Signed and Sealed by Professional Engineer

Include:

- location of your proposed connections
- location of existing medians and openings
- location of all public streets serving the property
- _____ property lines
- right of way lines
- all out-parcels
- north arrow
- inset site location map
- _____ location of buildings and other permanent features

B. Connection Design Plan (Scale: 1" = 50)

includes:

- _____ connection/driveway dimensions (include width, angle, radius, flare, etc.)
- all roadway alterations
- auxiliary lanes
- N/A existing traffic control devices
- N/A proposed traffic control devices
- striping plans
- pavement design for connection(s)
- pavement design for auxiliary lanes

C. Drainage and topo plans (separate map from A & B)

- N/A culvert size and type
- X existing grading
- X proposed grading
- N/A stormwater facilities
- N/A drainage calculations

Additional Information required for Category II connections serving developments of 1000 trips-per day and all Category III connections.

- parking and internal circulation plan
- peak hour traffic analysis including turning movement study
- existing conditions
- future conditions (Year 19)

Other Roadway Information

- X typical section
- _____
- _____

NEIGHBORING CONNECTION INFORMATION

(due to scale, this exhibit may need to be separate from other exhibits) (Scale: 1" = 50)

location and spacing of connections median openings and roads for:

- 660 ft. for roads with speeds 45 MPH or less
- 1320 ft. for roads with speeds greater than 45 MPH
- above information for both sides of the street

ADDITIONAL INFORMATION REQUESTED APPLICATION PACKAGE CHECKLIST

- number of packages
- originally signed Application and Permit Forms (850-040-10-a)
- check or money order for application fee
- performance bond (for those connections serving properties with expected daily traffic over 1,000 vehicles per day)
- applicable designs and traffic studies signed and sealed by a professional engineer

FEE COLLECTED (to be completed by Permit Staff)

APPLICATION/PERMIT NUMBER _____

CONNECTION CATEGORY (Check One)

<u> </u>	I	<u> </u>
<u> </u>	II up to 999 VPD	\$1,000
<u> </u>	II 1,000 to 1,500 VPD	\$1,500
<u> </u>	III 1,501 to 2,500 VPD	\$2,500
<u> </u>	III over 2,500 VPD	\$4,000
<u> </u>	IV Temporary	\$ 100

plus \$250 for each additional Category II or III connection requested _____

TOTAL _____

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
CONNECTION APPLICATION AND PERMIT

FORM 859-646-10-a
REPLACES 892-01
PLANNING
05/90
PAGE 1 OF 2

Permit Category II Commercial Application No. 2-72-294-91-0203
Trail Ridge Landfill, Inc. P.O. Box 6897
(Name) (Address)
Jacksonville Florida (904) 388-8561
(City) (State) (Telephone No.)

hereinafter termed the applicant requests permission for the construction of a connection(s) on Department of Transportation right-of-way at the location:

State Road No. 200 Road Section No. 72140 County Duval
Mile Post No. 0.350 Const. Job No. _____ Sta. No. _____

Description: Entrance to municipal solid waste resource recovery and management facility.

as shown on the attached plan and other documents and in accordance with general provisions on reverse side and any special provisions to be applied by the Department.

The applicant agrees that the connection(s) will be constructed in accordance with adopted Department of Transportation location, spacing, quantity and design standards and all permit provisions.

The applicant, for himself, his heirs, his assigns and successors in interest, binds and obligates himself to save and hold the State of Florida, The Department, its agents and employees harmless from any and all damages, claims, expense, or injuries arising out of any act, neglect or omission by the applicant, his heirs, assigns and successors in interest that may occur by reason of this, facility design, construction, maintenance or continuing existence of the connection facility, except that the applicant shall not be liable under this provision for damages arising from the sole negligence of the Department.

The applicant binds and obligates himself to conform to the development proposal as submitted to the Department and to abide by the connection provisions stated herein. If legal action is required because of noncompliance with the provisions specified, the applicant agrees that they will be responsible for all costs of legal action, i.e., court costs, attorney fees, etc.

Has conceptual review been made? Yes _____ (attach Notice of Conceptual Review Findings) No X

This permit application is hereby made and its general provisions agreed to this day of _____.

I certify that I am familiar with the information contained in this application and that to the best of my knowledge and belief such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities.

WITNESSED BY Mary Ann Atalla
(Signature)

11448 JOHN DORY WAY
(Mailing Address)
JACKSONVILLE, FL 32223
(City) (State) (Zip)

Signed [Signature]
(Applicant or authorized representative)

TITLE Trail Ridge Landfill, Inc.
P.O. Box 6897
(Mailing Address)
Jacksonville, FL 32236
(City) (State) (Zip)

If this application is signed by a representative of the applicant, then a letter of authorization from the applicant must be attached.

The above application has been reviewed and is hereby approved subject to the General Provisions and any Special Provisions as attached.

Permit No. 2-72-294-91-0203
Construction shall begin by _____
and be completed no later than _____
Special provisions attached Yes

Department of Transportation
BY: Carol A. Davis
TITLE: Assistant Maintenance Engineer, Permits
Date of Approval November 27, 1991

GENERAL PROVISIONS

1. Notify Department of Transportation Maintenance Office 24 hours in advance of starting proposed work.
Phone (904) 695-4000
2. A copy of the approved permit must be displayed in a prominent location in the immediate vicinity of the connection construction. Failure to display the approved permit shall result in a stop work order issued by the Department.
3. Prior to excavating, contact the Clerk of Circuit Court for the name, address and telephone number of the gas line owner who will provide detailed information upon request on possible gas line conflict.
4. Utilities may be located within the construction area. Prior to commencing work, permittee shall locate all utilities within the permitted area and obtain detailed information from utility owners as to possible conflicts between utilities and permittee's work. Permittee shall be responsible for coordinating all adjustments and resolving any conflicts of utilities. Permittee shall be solely responsible for any damage to utilities and/or damages to third parties caused by interference with or damage to existing utilities.
5. All construction on Department right-of-way in accordance with the permit will require adherence to the Federal Manual on Traffic Control Devices, the Department's Roadway and Traffic Design Standards and the Standard Specifications for Road and Bridge Construction for Street and Highway Construction, Maintenance and Utility Operations.
6. The permittee shall construct any and all traffic control devices required or called for by application of the U.S. Department of Transportation's Federal Highway Administration Manual on Uniform Traffic Control Devices for Streets and Highways.
7. All portions of right-of-way disturbed in the construction of this facility will be mulched and/or seeded or sodded in accordance with Department specifications.
8. The permittee shall not commence use of the connection prior to a final inspection and approval of the connection by the Department or by a final inspection and certification by a registered professional engineer of the permittee.
9. The permittee agrees and obligates himself to perform at his own expense the relocation, closure, alteration of the permitted connection should the Department determine that the traffic patterns, points of connection, roadway geometrics or traffic control devices are causing an undue disruption of traffic or creating safety hazards at the existing connection.
10. This permit becomes null and void if a significant change occurs in the use of the property, intensity of the development or the traffic generation of the development. The property owner is responsible for making any modifications to the existing connection needed to accommodate such property or traffic changes.
11. The permittee agrees to commence substantial construction in good faith within 90 days after this permit is approved and complete all construction within 365 days. If substantial construction has not begun nor is complete within the required time limit, this permit shall expire and all construction on the connection must cease until a new permit is issued.
12. Drainage approval needed: yes XX no.

SPECIAL PROVISIONS

NOTE: One (1) foot of sod will be required at all cross overs, turn lanes and storage lanes. Driveways will be constructed according to Standard Index 515. Maintenance of traffic according to Index 600-615. Any road construction to be performed where a lane of traffic has to be closed on State Road 200, the work will be permitted from 9:00 AM to 3:30 PM or, according to Florida Department of Transportation. The applicant will be required to notify the Department of Transportation within ten (10) days after completion, so that a final inspection can be conducted.

APPENDIX IV.

Army Corps of Engineering Dredge and Fill Permit



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REFRY TO
ATTENTION OF

Regulatory Division
North Permits Branch
North Florida Field Office
89NWQ-91177
NW-26

DEC 23 1991

Mr. Douglas C. Miller
England-Thims & Miller, Inc.
3131 St. Johns Bluff Road South
Jacksonville, Florida 32216

Dear Mr. Miller:

Reference is made to your letter dated December 9, 1991 (copy enclosed), concerning the timeframe and expiration date of Department of the Army permit number 89NWQ-91177.

Your interpretation of 33 CFR Part 330.12 is correct. Since the project is under contract to commence construction, and since construction will begin on or about January 6, 1992, the current permit will remain in effect until January 12, 1993, provided the authorized activities are completed by that date.

Thank you for your cooperation with our permit program.

Sincerely,

JRH
John R. Hall
Chief, Regulatory Division

Enclosure



England-Thims & Miller, Inc.

Consulting & Design Engineers
3131 St. Johns Bluff Road So. Jacksonville, FL 32216
904-642-8990

PRINCIPALS

James E. England, P.E., President
Robert E. Thims, V.Pres., Sec.
Douglas C. Miller, P.E., V. Pres.
N. Hugh Mathews, P.E., V. Pres.

December 9, 1991

Mr. John R. Hall, PhD
Regulatory Division
400 West Bay Street
P. O. Box 4970
Jacksonville, Florida 32232-0019

Reference: Trail Ridge Landfill, Inc.
ACOE Nationwide Permit #89NWQ-91177
ET&M NO. E91-126

Dear Mr. Hall:

Pursuant to your letter of January 12, 1990 the Trail Ridge Landfill, Inc. Nationwide Permit No. 89NWQ-91177 is scheduled to expire on January 12, 1992, if not specifically extended.

The project is scheduled to commence on or about January 6, 1992 and is currently under contract to commence in reliance upon the Nationwide Permit. Therefore, based on 33 CFR Part 330.12, it is Trail Ridge Landfill Inc.'s understanding that the current permit will remain in effect until January 12, 1993 provided the authorized activities are completed by that date. Your written concurrence with this understanding is respectfully requested.

Should you have any questions, please do not hesitate to call.

Sincerely,

ENGLAND, THIMS & MILLER, INC.

Douglas C. Miller, P.E.
Vice President

cc: Warren Smith
John Ray
Bill Preston



CUG PERMIT #112

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO
ATTENTION OF

Regulatory Division
North Permits Branch
89NWQ-91177

January 12, 1990

Trail Ridge Land Fill,
Incorporated
P.O. Box 6987
Jacksonville, Florida 32246-6987

Dear Gentlemen:

Reference your permit application dated December 20, 1989, concerning discharge of fill material over 4.44 acres of wetlands for a land fill and access road located in Sections 18, 19, 20, and 21, Township 3 South, Range 23 East, Maxville, Duval County, Florida.

This verifies that your proposal is authorized by a nationwide permit in accordance with the enclosed excerpt from our regulations as stated in 33 CFR Part 330.5(a)(26). This verification is valid for a period of 2 years from the date of this letter. If the work authorized herein is not completed within the 2-year period, this verification, if not previously revoked or specifically extended, shall automatically expire.

Further Department of the Army permits are not required providing the work is done in accordance with the enclosed drawings, the conditions listed in 33 CFR 330.5(b)(1-14), and the following conditions: Activities authorized by a nationwide permit may be initiated only after the State permit/certification pursuant to Chapters 253 and 403 of Florida Statutes and concurrence with coastal zone consistency pursuant to 15 CFR 930, if applicable, has been granted by the State of Florida. The State shall not be deemed to waive its right to certify any activity proposed under Corps nationwide permits for failure to issue a State permit or certification within 60 days of application to the State. Waivers shall only be effective when specifically exercised by the State.

This letter does not give absolute authority to perform the work as specified on your application. The proposed work may be subject to local building restrictions mandated by the National Flood Insurance Program. You should contact your local office that issues building permits to determine if your site is located in a flood-prone or floodway area, and if you must comply with the local building requirements mandated by the National Flood Insurance Program. If the local office cannot provide you the necessary information, you may provide this office a letter with a small scale map showing the location of the site, requesting a flood-hazard evaluation of the site. The request should be addressed to the Chief, Flood Control and Floodplain Management Branch, Jacksonville District, U.S. Army Corps of Engineers, P.O. Box 4970, Jacksonville, Florida 32232-0019.

This letter does not obviate the requirement to obtain any State or local permits which may be necessary for your proposed work. You should check State permitting requirements with the Florida Department of Environmental Regulation. A list of addresses of the appropriate State offices is enclosed for your information and use.

Thank you for your cooperation with our permit program.

Sincerely,

Marie G. Burns
Chief, North Permits Branch

Enclosures

✓ Copy Furnished:

Mr. Douglas C. Miller
England, Thims & Miller
Incorporated
3131 St. John's Bluff Road South
Jacksonville, Florida 32216-9999

modifications, if any, to the nationwide permits can be obtained from the appropriate district engineer. Nationwide permits are designed to allow certain activities to occur with little, if any, delay or paperwork. Nationwide permits are valid only if the conditions applicable to the nationwide permits are met. Failure to comply with a condition does not necessarily mean the activity cannot be authorized but rather that the activity can only be authorized by an individual or regional permit. Several of the nationwide permits require notification to the district engineer prior to commencement of the authorized activity. The procedures for this notification are located at § 330.7 of this Part. Nationwide permits can be issued to satisfy the requirements of section 10 of the Rivers and Harbors Act of 1899, section 404 of the Clean Water Act, and/or section 103 of the Marine Protection, Research and Sanctuaries Act. The applicable authority is indicated at the end of each nationwide permit.

§ 330.2 Definitions.

(a) The definitions of 33 CFR Parts 321-329 are applicable to the terms used in this Part.

(b) The term "headwaters" means the point on a non-tidal stream above which the average annual flow is less than five cubic feet per second. The district engineer may estimate this point from available data by using the mean annual area precipitation, area drainage basin maps, and the average runoff coefficient, or by similar means. For streams that are dry for long periods of the year, district engineers may establish the "headwaters" as that point on the stream where a flow of five cubic feet per second is equaled or exceeded 50 percent of the time.

(c) Discretionary authority means the authority delegated to division engineers in § 330.8 of this part to override provisions of nationwide permits, to add regional conditions, or to require individual permit application.

§ 330.3 Activities occurring before certain dates.

The following activities were permitted by nationwide permits issued on July 19, 1977, and unless modified do not require further permitting:

(a) Discharges of dredged or fill material into waters of the United States outside the limits of navigable waters of the United States that occurred before the phase-in dates which began July 25, 1975, and extended section 404 jurisdiction to all waters of the United

PART 330—NATIONWIDE PERMITS

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	Authority: 33 U.S.C. 401 et seq.; 33 U.S.C. 1344; 33 U.S.C. 1413.

§ 330.1 General.

The purpose of this regulation is to describe the Department of the Army's (DA) nationwide permit program and to list all current nationwide permits which have been issued by publication herein. A nationwide permit is a form of general permit which may authorize activities throughout the nation. (Another type of general permit is a "regional permit" and is issued by division or district engineers on a regional basis in accordance with 33 CFR Part 325). Copies of regional conditions and

States. (These phase-in dates are: After July 25, 1975, discharges into navigable waters of the United States and adjacent wetlands; after September 1, 1976, discharges into navigable waters of the United States and their primary tributaries, including adjacent wetlands, and into natural lakes, greater than 5 acres in surface area; and after July 1, 1977, discharges into all waters of the United States.) (Section 404)

(b) Structures or work completed before December 18, 1968, or in waterbodies over which the district engineer had not asserted jurisdiction at the time the activity occurred provided, in both instances, there is no interference with navigation. (Section 10)

§ 330.4 Public notice.

(a) *Chief of Engineers.* Upon proposed issuance of new nationwide permits, modification to, or reissuance of, existing nationwide permits, the Chief of Engineers will publish a notice in the *Federal Register* seeking public comments and including the opportunity for a public hearing. This notice will state the availability of information at the Office of the Chief of Engineers and at all district offices which reveals the Corps' provisional determination that the proposed activities comply with the requirements for issuance under general permit authority. The Chief of Engineers will prepare this information which will be supplemented, if appropriate, by division engineers.

(b) *District engineers.* Concurrent with publication in the *Federal Register* of proposed, new, or reissued nationwide permits by the Chief of Engineers, district engineers will so notify the known interested public by an appropriate notice. The notice will include regional conditions, if any, developed by the division engineer.

§ 330.5 Nationwide permits.

(a) *Authorized activities.* The following activities are hereby permitted provided they meet the conditions listed in paragraph (b) of this section and, where required, comply with the notification procedures, of § 330.7.

(1) The placement of aids to navigation and regulatory markers which are approved by and installed in accordance with the requirements of the U.S. Coast Guard (33 CFR Part 68, Subchapter C). (Section 10)

(2) Structures constructed in artificial canals within principally residential developments where the connection of the canal to a navigable water of the United States has been previously authorized (see 33 CFR Part 322.5(g)). (Section 10)

(3) The repair, rehabilitation, or replacement of any previously authorized, currently serviceable, structure or fill, or of any currently serviceable structure or fill constructed prior to the requirement for authorization, provided such repair, rehabilitation, or replacement does not result in a deviation from the plans of the original structure or fill, and further provided that the structure or fill has not been put to uses differing from uses specified for it in any permit authorizing its original construction. Minor deviations due to changes in materials or construction techniques and which are necessary to make repair, rehabilitation, or replacement are permitted. Maintenance dredging and beach restoration are not authorized by this nationwide permit. (Section 10 and 404)

(4) Fish and wildlife harvesting devices and activities such as pound nets, crab traps, eel pots, lobster traps, duck blinds, and clam and oyster digging. (Section 10)

(5) Staff gages, tide gages, water recording devices, water quality testing and improvement devices, and similar scientific structures. (Section 10)

(6) Survey activities including core sampling, seismic exploratory operations, and plugging of seismic shot holes and other exploratory-type bore holes. Drilling of exploration-type bore holes for oil and gas exploration is not authorized by this nationwide permit; the plugging of such holes is authorized. (Sections 10 and 404).

(7) Outfall structures and associated intake structures where the effluent from that outfall has been permitted under the National Pollutant Discharge Elimination System program (Section 402 of the Clean Water Act) (see 40 CFR Part 122) provided that the district or division engineer makes a determination that the individual and cumulative adverse environmental effects of the structure itself are minimal in accordance with § 330.7 (c)(2) and (d). Intake structures per se are not included—only those directly associated with an outfall structure are covered by this nationwide permit. This permit includes minor excavation, filling and other work associated with installation of the intake and outfall structures. (Sections 10 and 404)

(8) Structures for the exploration, production, and transportation of oil, gas, and minerals on the outer continental shelf within areas leased for such purposes by the Department of Interior, Mineral Management Service, provided those structures are not placed within the limits of any designated shipping safety fairway or traffic

separation scheme (where such limits have not been designated or where changes are anticipated, district engineers will consider recommending the discretionary authority provided by 330.8 of this Part, and further subject to the provisions of the fairway regulations in 33 CFR 322.5(1) (Section 10).

(9) Structures placed within anchorage or fleeting areas to facilitate moorage of vessels where such areas have been established for that purpose by the U.S. Coast Guard. (Section 10)

(10) Non-commercial, single-boat, mooring buoys. (Section 10)

(11) Temporary buoys and markers placed for recreational use such as water skiing and boat racing provided that the buoy or marker is removed within 30 days after its use has been discontinued. At Corps of Engineers reservoirs, the reservoir manager must approve each buoy or marker individually. (Section 10)

(12) Discharge of material for backfill or bedding for utility lines, including outfall and intake structures, provided there is no change in preconstruction bottom contours (excess material must be removed to an upland disposal area). A "utility line" is defined as any pipe or pipeline for the transportation of any gaseous, liquid, liquifiable, or slurry substance, for any purpose, and any cable, line, or wire for the transmission for any purpose of electrical energy, telephone and telegraph messages, and radio and television communication. (The utility line and outfall and intake structures will require a Section 10 permit if in navigable waters of the United States. See 33 CFR Part 322. See also paragraph (a)(7) of this section). (Section 404)

(13) Bank stabilization activities provided:

(i) The bank stabilization activity is less than 500 feet in length;

(ii) The activity is necessary for erosion prevention;

(iii) The activity is limited to less than an average of one cubic yard per running foot placed along the bank within waters of the United States;

(iv) No material is placed in excess of the minimum needed for erosion protection;

(v) No material is placed in any wetland area;

(vi) No material is placed in any location or in any manner so as to impair surface water flow into or out of any wetland area;

(vii) Only clean material free of waste metal products, organic materials, unsightly debris, etc. is used; and

(viii) The activity is a single and complete project. (Sections 10 and 404)

(14) Minor road crossing fills including all attendant features, both temporary and permanent, that are part of a single and complete project for crossing of a non-tidal waterbody, provided that the crossing is culverted, bridged or otherwise designed to prevent the restriction of, and to withstand, expected high flows and provided further that discharges into any wetlands adjacent to the waterbody do not extend beyond 100 feet on either side of the ordinary high water mark of that waterbody. A "minor road crossing fill" is defined as a crossing that involves the discharge of less than 200 cubic yards of fill material below the plane of ordinary high water. The crossing may require a permit from the US Coast Guard if located in navigable waters of the United States. Some road fills may be eligible for an exemption from the need for a Section 404 permit altogether (see 33 CFR 323.4). District engineers are authorized, where local circumstances indicate the need, to define the term "expected high flows" for the purpose of establishing applicability of this nationwide permit. (Sections 10 and 404)

(15) Discharges of dredged or fill material incidental to the construction of bridges across navigable waters of the United States, including cofferdams, abutments, foundation seals, piers, and temporary construction and access fills, provided such discharge has been authorized by the US Coast Guard as part of the bridge permit. Causeways and approach fills are not included in this nationwide permit and will require an individual or regional Section 404 permit. (Section 404)

(16) Return water from an upland, contained dredged material disposal area (see 33 CFR 323.2(d)) provided the state has issued a site specific or generic certification under section 401 of the Clean Water Act (see also 33 CFR 325.2(b)(1)). The dredging itself requires a Section 10 permit if located in navigable waters of the United States. The return water or runoff from a contained disposal area is administratively defined as a discharge of dredged material by 33 CFR 323.2(d) even though the disposal itself occurs on the upland and thus does not require a section 404 permit. This nationwide permit satisfies the technical requirement for a section 404 permit for the return water where the quality of the return water is controlled by the state through the section 401 certification procedures. (Section 404)

(17) Fills associated with small hydropower projects at existing reservoirs where the project which

includes the fill is licensed by the Federal Energy Regulatory Commission (FERC) under the Federal Power Act of 1920, as amended; has a total generating capacity of not more than 1500 kw (2,000 horsepower); qualifies for the short-form licensing procedures of the FERC (see 18 CFR 4.81); and the district or division engineer makes a determination that the individual and cumulative adverse effects on the environment are minimal in accordance with § 330.7 (c)(2) and (d). (Section 404)

(18) Discharges of dredged or fill material into all waters of the United States other than wetlands that do not exceed ten cubic yards as part of a single and complete project provided the material is not placed for the purpose of stream diversion. (Sections 10 and 404)

(19) Dredging of no more than ten cubic yards from navigable waters of the United States as part of a single and complete project. This permit does not authorize the connection of canals or other artificial waterways to navigable waters of the United States (see Section 33 CFR 322.5(g)). (Section 10)

(20) Structures, work, and discharges for the containment and cleanup of oil and hazardous substances which are subject to the National Oil and Hazardous Substances Pollution Contingency Plan, (40 CFR Part 300), provided the Regional Response Team which is activated under the Plan concurs with the proposed containment and cleanup action. (Sections 10 and 404)

(21) Structures, work, discharges associated with surface coal mining activities provided they were authorized by the Department of the Interior, Office of Surface Mining, or by states with approved programs under Title V of the Surface Mining Control and Reclamation Act of 1977; the appropriate district engineer is given the opportunity to review the Title V permit application and all relevant Office of Surface Mining or state (as the case may be) documentation prior to any decision on that application; and the district or division engineer makes a determination that the individual and cumulative adverse effects on the environment from such structures, work, or discharges are minimal in accordance with §§ 330.7 (c) (2) and (3) and (d). (Sections 10 and 404)

(22) Minor work, fills, or temporary structures required for the removal of wrecked, abandoned, or disabled vessels, or the removal of man-made obstructions to navigation. This permit does not authorize maintenance dredging, shoal removal, or river bank snagging. (Sections 10 and 404)

(23) Activities, work, and discharges undertaken, assisted, authorized, regulated, funded, or financed, in whole or in part, by another federal agency or department where that agency or department has determined, pursuant to the CEQ Regulation for Implementing the Procedural Provisions of the National Environmental Policy Act (40 CFR Part 1500 et seq.), that the activity, work, or discharge is categorically excluded from environmental documentation because it is included within a category of actions which neither individually nor cumulatively have a significant effect on the human environment, and the Office of the Chief of Engineers (ATTN: DAEN-CWO-N) has been furnished notice of the agency's or department's application for the categorical exclusion and concurs with that determination. Prior to approval for purposes of this nationwide permit of any agency's categorical exclusions, the Chief of Engineers will solicit comments through publication in the Federal Register. (Sections 10 and 404)

(24) Any activity permitted by a state administering its own Section 404 permit program for the discharge of dredged or fill material authorized at 33 U.S.C. 1344(g)-(1) is permitted pursuant to section 10 of the Rivers and Harbors Act of 1899. Those activities which do not involve a section 404 state permit are not included in this nationwide permit but many will be exempted by section 154 of Pub. L. 94-587. (See 33 CFR 322.3(a)(2)). (Section 10)

(25) Discharge of concrete into tightly sealed forms or cells where the concrete is used as a structural member which would not otherwise be subject to Clean Water Act jurisdiction. (Section 404)

(26) Discharges of dredged or fill material into the waters listed in paragraphs (a)(26) (i) and (ii) of this section except those which cause the loss or substantial adverse modification of 10 acres or more of such waters of the United States, including wetlands. For discharges which cause the loss or substantial adverse modification of 1 to 10 acres of such waters, including wetlands, notification to the district engineer is required in accordance with section 330.7 of this section. (Section 404).

(i) Non-tidal rivers, streams, and their lakes and impoundments, including adjacent wetlands, that are located above the headwaters.

(ii) Other non-tidal waters of the United States, including adjacent wetlands, that are not part of a surface tributary system to interstate waters or

navigable waters of the United States (i.e., isolated waters).

(b) *Conditions.* The following special conditions must be followed in order for the nationwide permits identified in paragraph (a) of this section to be valid:

(1) That any discharge of dredged or fill material will not occur in the proximity of a public water supply intake.

(2) That any discharge of dredged or fill material will not occur in areas of concentrated shellfish production unless the discharge is directly related to a shellfish harvesting activity authorized by paragraph (a)(4) of this section.

(3) That the activity will not jeopardize a threatened or endangered species as identified under the Endangered Species Act (ESA), or destroy or adversely modify the critical habitat of such species. In the case of federal agencies, it is the agencies' responsibility to comply with the requirements of the ESA. If the activity may adversely affect any listed species or critical habitat, the district engineer must initiate Section 7 consultation in accordance with the ESA. In such cases, the district engineer may:

(i) Initiate section 7 consultation and then, upon completion, authorize the activity under the nationwide permit by adding, if appropriate, activity specific conditions, or

(ii) Prior to or concurrent with section 7 consultation he may recommend discretionary authority (See section 330.8) or use modification, suspension, or revocation procedures (See 33 CFR 325.7).

(4) That the activity shall not significantly disrupt the movement of those species of aquatic life indigenous to the waterbody (unless the primary purpose of the fill is to impound water);

(5) That any discharge of dredged or fill material shall consist of suitable material free from toxic pollutants (see section 307 of the Clean Water Act) in toxic amounts;

(6) That any structure or fill authorized shall be properly maintained.

(7) That the activity will not occur in a component of the National Wild and Scenic River System; nor in a river officially designated by Congress as a "study river" for possible inclusion in the system, while the river is in an official study status;

(8) That the activity shall not cause an unacceptable interference with navigation;

(9) That, if the activity may adversely affect historic properties which the National Park Service has listed on, or determined eligible for listing on, the National Register of Historic Places, the permittee will notify the district

engineer. If the district engineer determines that such historic properties may be adversely affected, he will provide the Advisory Council on Historic Preservation an opportunity to comment on the effects on such historic properties or he will consider modification, suspension, or revocation in accordance with 33 CFR 325.7.

Furthermore, that, if the permittee before or during prosecution of the work authorized, encounters a historic property that has not been listed or determined eligible for listing on the National Register, but which may be eligible for listing in the National Register, he shall immediately notify the district engineer;

(10) That the construction or operation of the activity will not impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights;

(11) That in certain states, an individual state water quality certification must be obtained or waived (See § 330.9);

(12) That in certain states, an individual state coastal zone management consistency concurrence must be obtained or waived (See § 330.10);

(13) That the activity will comply with regional conditions which may have been added by the division engineer (See § 330.8(a)); and

(14) That the management practices listed in § 330.6 of this part shall be followed to the maximum extent practicable.

(c) *Further information.* (1) District engineers are authorized to determine if an activity complies with the terms and conditions of a nationwide permit unless that decision must be made by the division engineer in accordance with § 330.7.

(2) Nationwide permits do not obviate the need to obtain other Federal, state or local authorizations required by law.

(3) Nationwide permits do not grant any property rights or exclusive privileges.

(4) Nationwide permits do not authorize any injury to the property or rights of others.

(5) Nationwide permits do not authorize interference with any existing or proposed Federal project.

(d) *Modification, Suspension or Revocation of Nationwide Permits.* The Chief of Engineers may modify, suspend, or revoke nationwide permits in accordance with the relevant procedures of 33 CFR 325.7. Such authority includes, but is not limited to: adding individual, regional, or nationwide conditions; revoking authorization for a category of activities

or a category of waters by requiring individual or regional permits; or revoking an authorization on a case-by-case basis. This authority is not limited to concerns for the aquatic environment as is the discretionary authority in § 330.8.

§ 330.6 Management practices.

(a) In addition to the conditions specified in § 330.5 of this Part, the following management practices shall be followed, to the maximum extent practicable, in order to minimize the adverse effects of these discharges on the aquatic environment. Failure to comply with these practices may be cause for the district engineer to recommend, or the division engineer to take, discretionary authority to regulate the activity on an individual or regional basis pursuant to § 330.8 of this Part.

(1) Discharges of dredged or fill material into waters of the United States shall be avoided or minimized through the use of other practical alternatives.

(2) Discharges in spawning areas during spawning seasons shall be avoided.

(3) Discharges shall not restrict or impede the movement of aquatic species indigenous to the waters or the passage of normal or expected high flows or cause the relocation of the water (unless the primary purpose of the fill is to impound waters).

(4) If the discharge creates an impoundment of water, adverse impacts on the aquatic system caused by the accelerated passage of water and/or the restriction of its flow shall be minimized.

(5) Discharge in wetlands areas shall be avoided.

(6) Heavy equipment working in wetlands shall be placed on mats.

(7) Discharges into breeding areas for migratory waterfowl shall be avoided.

(8) All temporary fills shall be removed in their entirety.

§ 330.7 Notification procedures.

(a) The general permittee shall not begin discharges requiring pre-discharge notification pursuant to the nationwide permit at § 330.5(a)(26):

(1) Until notified by the district engineer that the work may proceed under the nationwide permit with any special conditions imposed by the district or division engineer; or

(2) If notified by the district or division engineer that an individual permit may be required; or

(3) Unless 20 days have passed from receipt of the notification by the district engineer and no notice has been

received from the district or division engineer.

(b) Notification pursuant to the nationwide permit at § 330.5(a)(26) must be in writing and include the information listed below. Notification is not an admission that the proposed work would result in more than minimal impacts to waters of the United States; it simply allows the district or division engineer to evaluate specific activities for compliance with general permit criteria.

(1) Name, address, and phone number of the general permittee;

(2) Location of the planned work;

(3) Brief description of the proposed work, its purpose, and the approximate size of the waters, including wetlands, which would be lost or substantially adversely modified as a result of the work; and

(4) Any specific information required by the nationwide permit and any other information that the permittee believes is appropriate.

(c) *District engineer review of notification.* Upon receipt of notification, the district engineer will promptly review the general permittee's notification to determine which of the following procedures should be followed:

(1) If the nationwide permit at § 330.5(a)(26) is involved and the district engineer determines either, (i) the proposed activity falls within a class of discharges or will occur in a category of waters which has been previously identified by the Regional Administrator, Environmental Protection Agency; the Regional Director, Fish and Wildlife Service; the Regional Director, National Marine Fisheries Service; or the heads of the appropriate state natural resource agencies as being of particular interest to those agencies; or (ii) the particular discharge has not been previously identified but he believes it may be of importance to those agencies, he will promptly forward the notification to the division engineer and the head and appropriate staff officials of those agencies to afford those agencies an adequate opportunity before such discharge occurs to consider such notification and express their views; if any, to the district engineer concerning whether individual permits should be required.

(2) If the nationwide permits at § 330.5(a) (7), (17), or (21) are involved and the Environmental Protection Agency, the Fish and Wildlife Service, the National Marine Fisheries Service or the appropriate state natural resource or water quality agencies forward concerns to the district engineer, he will forward those concerns to the division engineer

together with a statement of the factors pertinent to a determination of the environmental effects of the proposed discharges, including those set forth in the 404(b)(1) guidelines, and his views on the specific points raised by those agencies.

(3) If the nationwide permit at § 330.5(a)(21) is involved the district engineer will give notice to the Environmental Protection Agency and the appropriate state water quality agency. This notice will include as a minimum the information required by paragraph (b) of this section.

(d) *Division engineer review of notification.* The division engineer will review all notifications referred to him in accordance with paragraph (c)(1) or (c)(2) of this section. The division engineer will require an individual permit when he determines that an activity does not comply with the terms or conditions of a nationwide permit or does not meet the definition of a general permit (see 33 CFR 322.2(f) and 323.2(n)) including discharges under the nationwide permit at § 330.5(a)(26) which have more than minimal adverse environmental effects on the aquatic environment when viewed either cumulatively or separately. In reaching his decision, he will review factors pertinent to a determination of the environmental effects of the proposed discharge, including those set forth in the 404(b)(1) guidelines, and will give full consideration to the views, if any, of the federal and state natural resource agencies identified in paragraph (c) of this section. If the division engineer decides that an individual permit is not required, and a federal or appropriate state natural resource agency has indicated in writing that an activity may result in more than minimal adverse environmental impacts, he will prepare a written statement, available to the public on request, which sets forth his response to the specific points raised by the commenting agency. When the division engineer reaches his decision he will notify the district engineer, who will immediately notify the general permittee of the division engineer's decision.

§ 330.8 Discretionary authority.

Except as provided in paragraphs (c) (2) and (d) of this section, division engineers on their own initiative or upon recommendation of a district engineer are authorized to modify nationwide permits by adding regional conditions or to override nationwide permits by requiring individual permit applications on a case-by-case basis, for a category of activities, or in specific geographic areas. Discretionary authority will be

based on concerns for the aquatic environment as expressed in the guidelines published by EPA pursuant to section 404(b)(1). (40 CFR Part 230)

(a) *Activity Specific conditions.*

Division engineers are authorized to modify nationwide permits by adding individual conditions on a case-by-case basis applicable to certain activities within their division. Activity specific conditions may be added by the District Engineer in instances where there is mutual agreement between the district engineer and the permittee. Furthermore, district engineers will condition NWP's with conditions which have been imposed on a state section 401 water quality certification issued pursuant to § 330.9 of this Part.

(b) *Regional conditions.* Division engineers are authorized to modify nationwide permits by adding conditions on a generic basis applicable to certain activities or specific geographic areas within their divisions. In developing regional conditions, division and district engineers will follow standard permit processing procedures as prescribed in 33 CFR Part 325 applying the evaluation criteria of 33 CFR Part 320 and appropriate parts of 33 CFR Parts 321, 322, 323, and 324. Division and district engineers will take appropriate measures to inform the public of the additional conditions.

(c) *Individual permits—(1) Case-by-Case.* In nationwide permit cases where additional individual or regional conditioning may not be sufficient to address concerns for the aquatic environment or where there is not sufficient time to develop such conditions under paragraphs (a) or (b) of this section, the division engineer may suspend use of the nationwide permit and require an individual permit application on a case-by-case basis. The district engineer will evaluate the application and will either issue or deny a permit. However, if at any time the reason for taking discretionary authority is satisfied, then the division engineer may remove the suspension, reactivating authority under the nationwide permit. Where time is of the essence, the district engineer may telephonically recommend that the division engineer assert discretionary authority to require an individual permit application for a specific activity. If the division engineer concurs, he may orally authorize the district engineer to implement that authority. Oral authorization should be followed by written confirmation.

(2) *Category.* Additionally, after notice and opportunity for public hearing, division engineers may decide that individual permit applications

should be required for categories of activities, or in specific geographic areas. However, only the Chief of Engineers may modify, suspend, or revoke nationwide permits on a statewide or nationwide basis. The division engineer will announce the decision to persons affected by the action. The district engineer will then regulate the activity or activities by processing an application(s) for an individual permit(s) pursuant to 33 CFR Part 325.

(d) For the nationwide permit found at § 330.5(a)(28), after the applicable provisions of § 330.7(a) (1) and (3) have been satisfied, the permittee's right to proceed under the general permit may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 325.7.

(e) A copy of all modifications or revocations of activities covered by nationwide permits will be forwarded to the Office of the Chief of Engineers, ATTN: DAEN-CWO-N.

§ 330.9 State water quality certification.

(a) State water quality certification is required for nationwide permits which may result in any discharge into waters of the United States. If a state issues a water quality certification which includes special conditions, the district engineer will add these conditions as conditions of the nationwide permit in that state. However, if such conditions do not comply with the provisions of 33 CFR 325.4 or if a state denies a required 401 certification for a particular nationwide permit, authorization for all discharges covered by the nationwide permit within the state is denied without prejudice until the state issues an individual or generic water quality certification or waives its right to do so. A district engineer will not process an individual permit application for an activity for which authorization has been denied without prejudice under the nationwide permit program. However, if the division engineer determines that it would otherwise be appropriate to exercise his discretionary authority, pursuant to § 330.8, to override the nationwide permit or permits in question, he may do so, and the district engineer may proceed with the processing of individual permit applications. In instances where a state has denied the 401 water quality certification for discharges under a particular nationwide permit, applicants must furnish the district engineer with an individual or generic 401 certification or a copy of the application to the state for the certification. If a state fails to act within a reasonable period of time (see § 325.2(b)(1)(iii)), a waiver will be

presumed. Upon receipt of an individual or generic certification or a waiver of certification, the proposed work is authorized under the nationwide permit. If a state issues a conditioned individual certification, the district engineer will include those conditions that comply with 33 CFR 325.4 as special conditions of the nationwide permit (see 33 CFR Part 330.8(a)) and notify the applicant that the work is authorized under the nationwide permit provided all conditions are met.

(b) Certification requirements for nationwide permits fall into the following general categories:

(1) *No certification required.* Nationwide permits numbered 1, 2, 4, 5, 8, 9, 10, 11, and 19 do not involve activities which may result in a discharge and therefore 401 certification is not applicable.

(2) *Certification sometimes required.* Nationwide permits numbered 3, 6, 7, 13, 20, 21, 22, and 23 each involve various activities, some of which may result in a discharge and require certification, and others of which do not. State denial of certification for any specific nationwide permit in this category affects only those activities involving discharges. Those not involving discharges remain in effect.

(3) *Certification required.* Nationwide permits numbered 12, 14, 15, 16, 17, 18, 24, 25, and 26 involve activities which would result in discharges and therefore 401 certification is required.

(c) District engineers will take appropriate measures to inform the public of which waterbodies or regions within the state, and for which nationwide permits, an individual 401 water quality certification is required.

§ 330.10 Coastal zone management consistency determination.

In instances where a state has not concurred that a particular nationwide permit is consistent with an approved coastal zone management plan, authorization for all activities subject to such nationwide permit within or affecting the state coastal zone agency's area of authority is denied without prejudice until the applicant has furnished to the district engineer a coastal zone management consistency determination pursuant to section 307 of the Coastal Zone Management Act and the state has concurred in it. If a state does not act on an applicant's consistency statement within six months after receipt by the state, consistency shall be presumed. District engineers will take appropriate measures to inform the public of which waterbodies or regions within the state, and for which nationwide permits, such individual

consistency determination is required. District engineers will not process any permit application for an activity which has been denied without prejudice under the nationwide permit program. However, if the division engineer determines that it would otherwise be appropriate to exercise his discretionary authority, pursuant to § 330.8, to override the nationwide permit or permits in question, he may do so, and the district engineer may proceed with the processing of individual-permit applications.

§ 330.11 Nationwide permit verification.

(a) General permittees may, and in some cases must, request from a district engineer confirmation that an activity complies with the terms and conditions of a nationwide permit. District engineers will respond promptly to such requests. The response will state that the verification is valid for a period of no more than two years or a lesser period of time if deemed appropriate. Section 330.12 takes precedence over this section, therefore, it is incumbent upon the permittee to remain informed of changes to nationwide permits.

(b) If the district engineer decides that an activity does not comply with the terms or conditions of a nationwide permit, he will so notify the person desiring to do the work and indicate that an individual permit is required (unless covered by a regional permit).

(c) If the district engineer decides that an activity does comply with the terms and conditions of a nationwide permit he will so notify the general permittee. In such cases, as with any activity which qualifies under a nationwide permit, the general permittee's right to proceed with the activities under the nationwide permit may be modified, suspended, or revoked only in accordance with the procedures of 33 CFR 325.7.

§ 330.12 Expiration of nationwide permits.

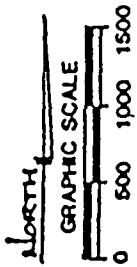
The Chief of Engineers will review nationwide permits on a continual basis, and will decide to either modify, reissue (extend) or revoke the permits at least every five years. If a nationwide permit is not modified or reissued within five years of publication in the Federal Register, it automatically expires and becomes null and void. Authorization of activities which have commenced or are under contract to commence in reliance upon a nationwide permit will remain in effect provided the activity is completed within twelve months of the date a nationwide permit has expired or was revoked unless discretionary permit authority has been exercised in

accordance with § 330.8 of this Part or modification, suspension, or revocation procedures are initiated in accordance with the relevant provisions of 33 CFR 325.7. Activities completed under the authorization of a nationwide permit which was in effect at the time the activity was completed continue to be authorized by that nationwide permit.

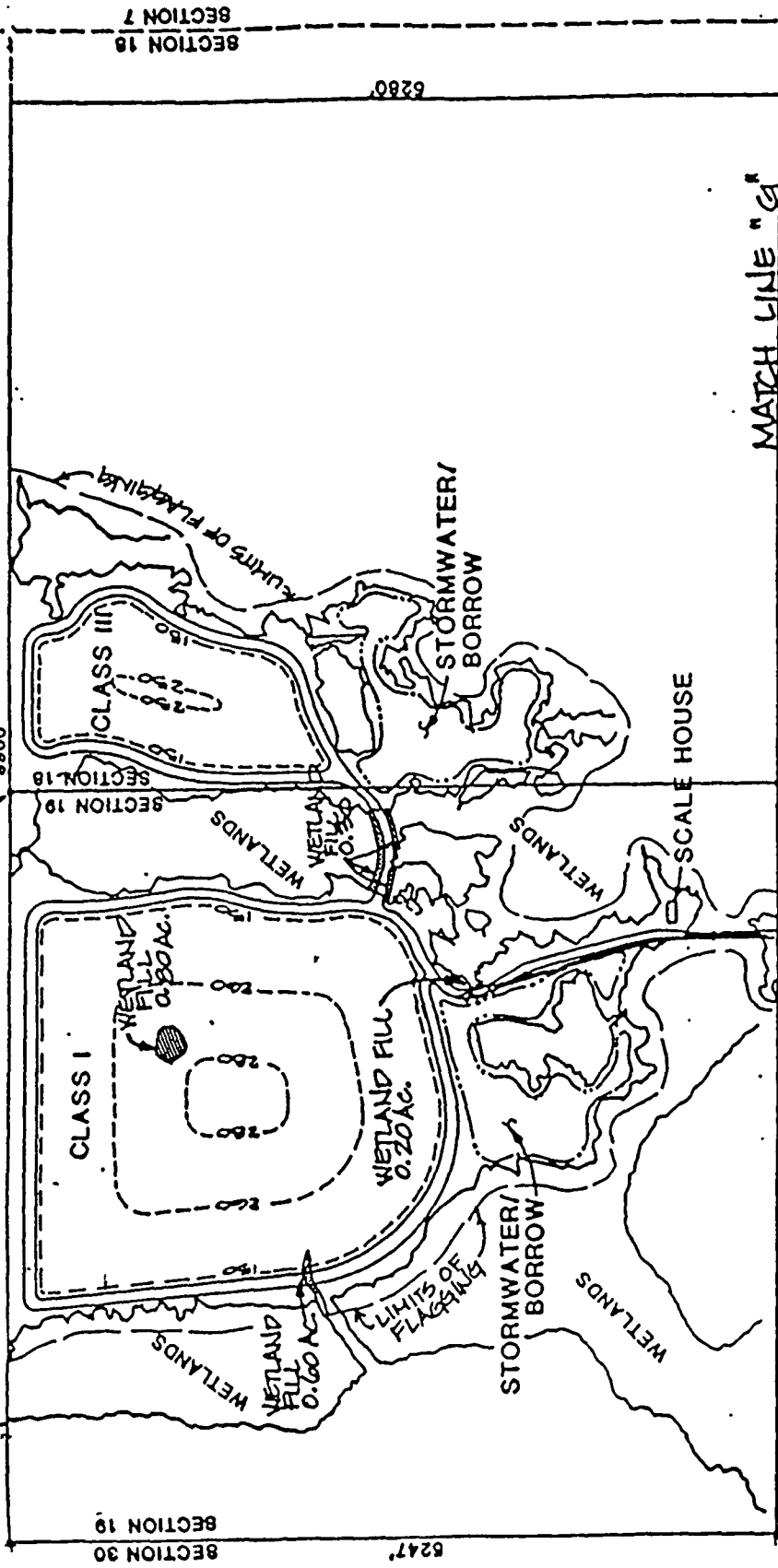
[FR Doc. 88-25301 Filed 11-12-88; 8:45 am]

BILLING CODE 3710-63-M

89NW27-91177



WETLAND COORDINATE ID NO. 105.



TOTAL WETLAND IMPACT
1.8 ACRES

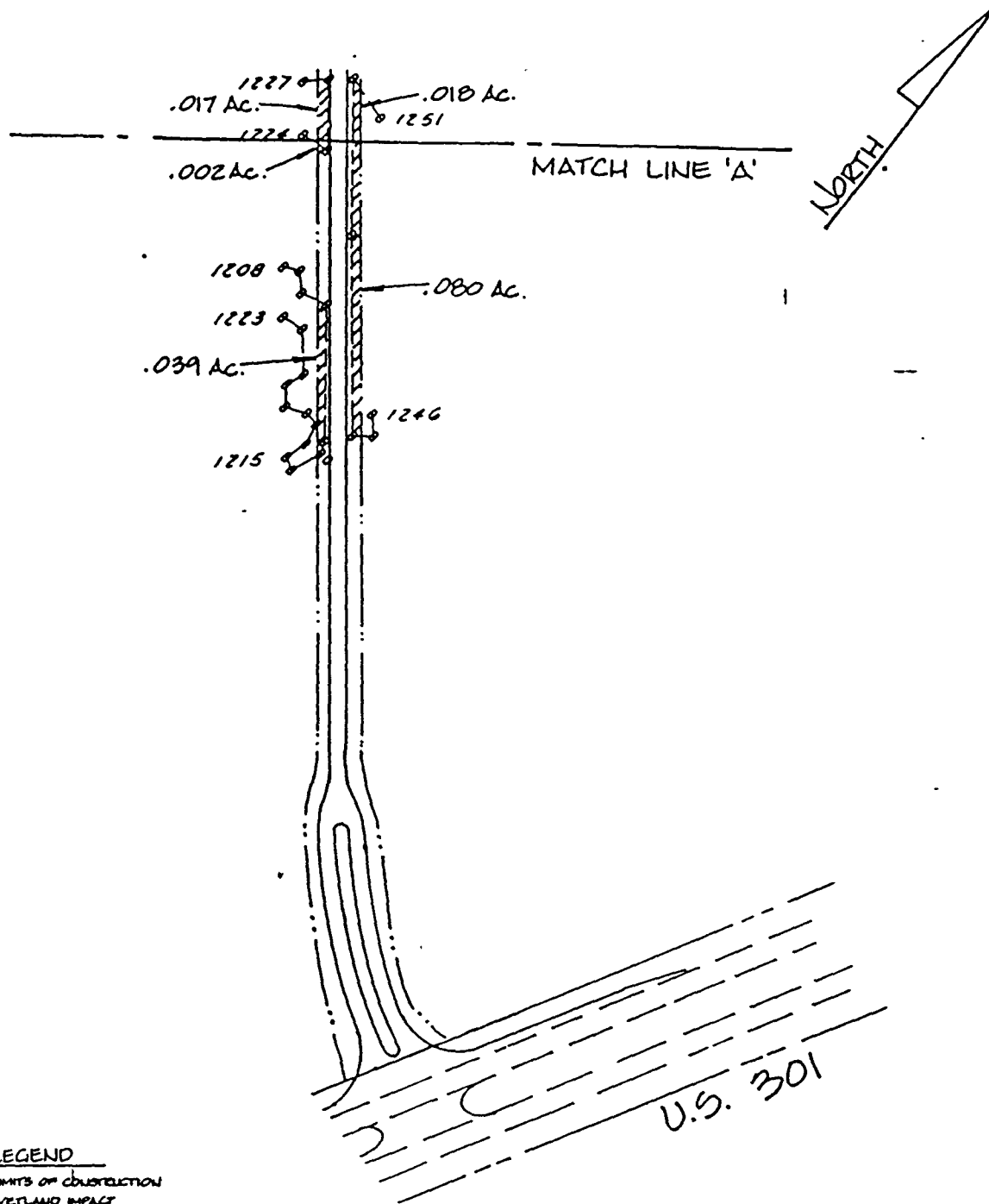
WETLAND COORDINATE ID NO. 113

PROJ. NO. E89-113
DATE DEC., 1989
SCALE SEE GRAPHIC
DRAWING NO. '1

SITE PLAN

TRAIL RIDGE LANDFILL

England-Thims & Miller, Inc.
Consulting & Design Engineers
301 S. JOHN BURR RD., JACONVILLE, R. 32216



LEGEND
 - - - - - LIMITS OF CONSTRUCTION
 // // // WETLAND IMPACT
 = = = = = PROPOSED 24' ASPHALT PAVT.

TOTAL WETLAND IMPACT 2.54 Acres

England-Thimms
& Miller, Inc.
Consulting & Design Engineers

SITE PLAN

TRAIL RIDGE LANDFILL
 TRAIL RIDGE LANDFILL, INC.

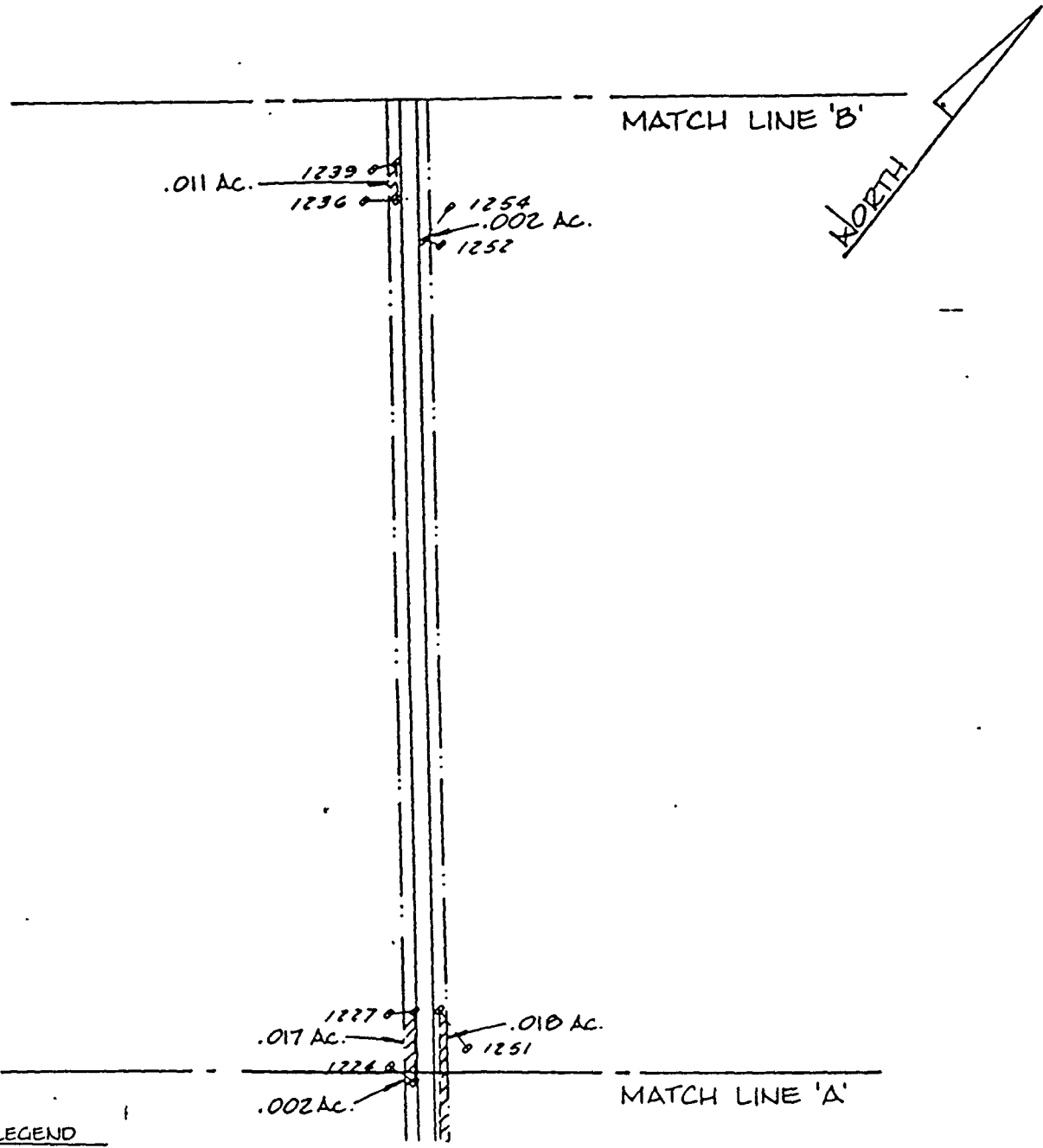
PROJ. NO. E 89-103

DATE DEC., 1989

SCALE 1"=200'

DRAWING NO. 2

EPNWD-91177



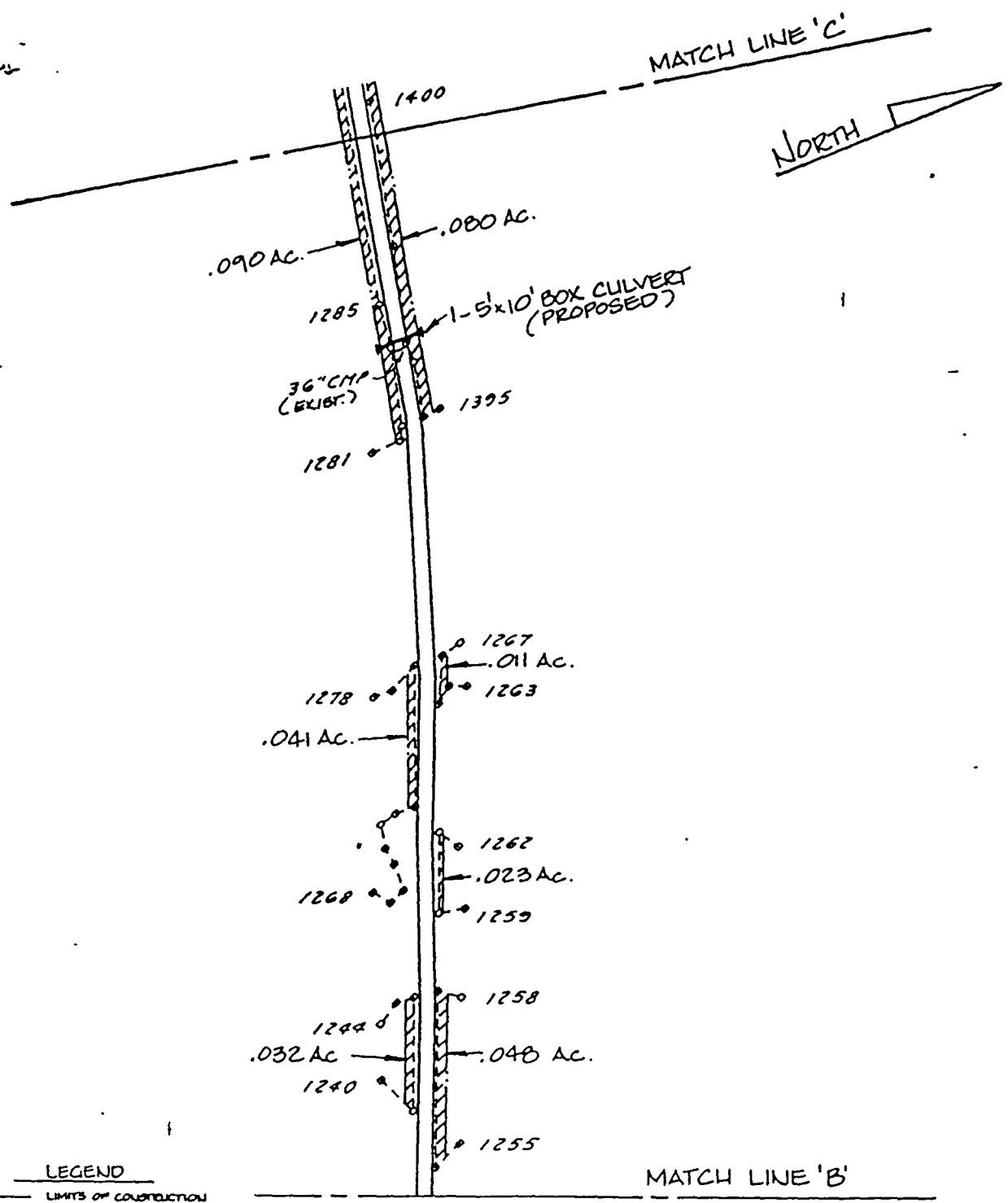
England-Thims
& Miller, Inc.
Consulting & Design Engineers

SITE PLAN

TRAIL RIDGE LANDFILL
TRAIL RIDGE LANDFILL, INC.

PROJ. NO. E 89-103
DATE DEC., 1989
SCALE 1"=200'
DRAWING NO. 3

89N00-91177



LEGEND

--- LIMITS OF CONSTRUCTION

//// WETLAND IMPACT

==== PROPOSED 26' ASPHALT PMT.

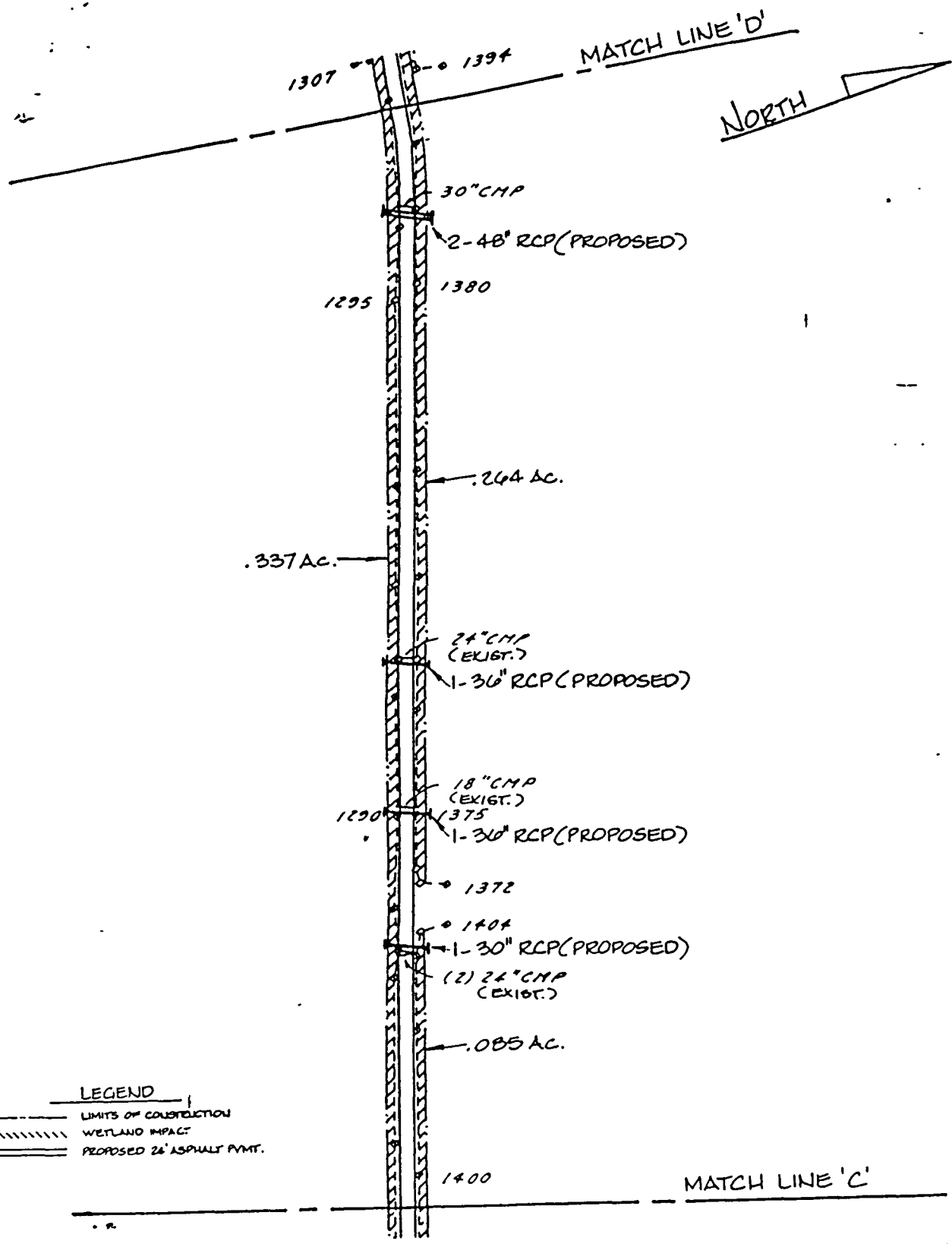
England-Thims
& Miller, Inc.
Consulting & Design Engineers

SITE PLAN

TRAIL RIDGE LANDFILL
TRAIL RIDGE LANDFILL, INC.

PROJ. NO.	E 89-103
DATE	DEC., 1989
SCALE	1"=200'
DRAWING NO.	4

89NWQ-91177



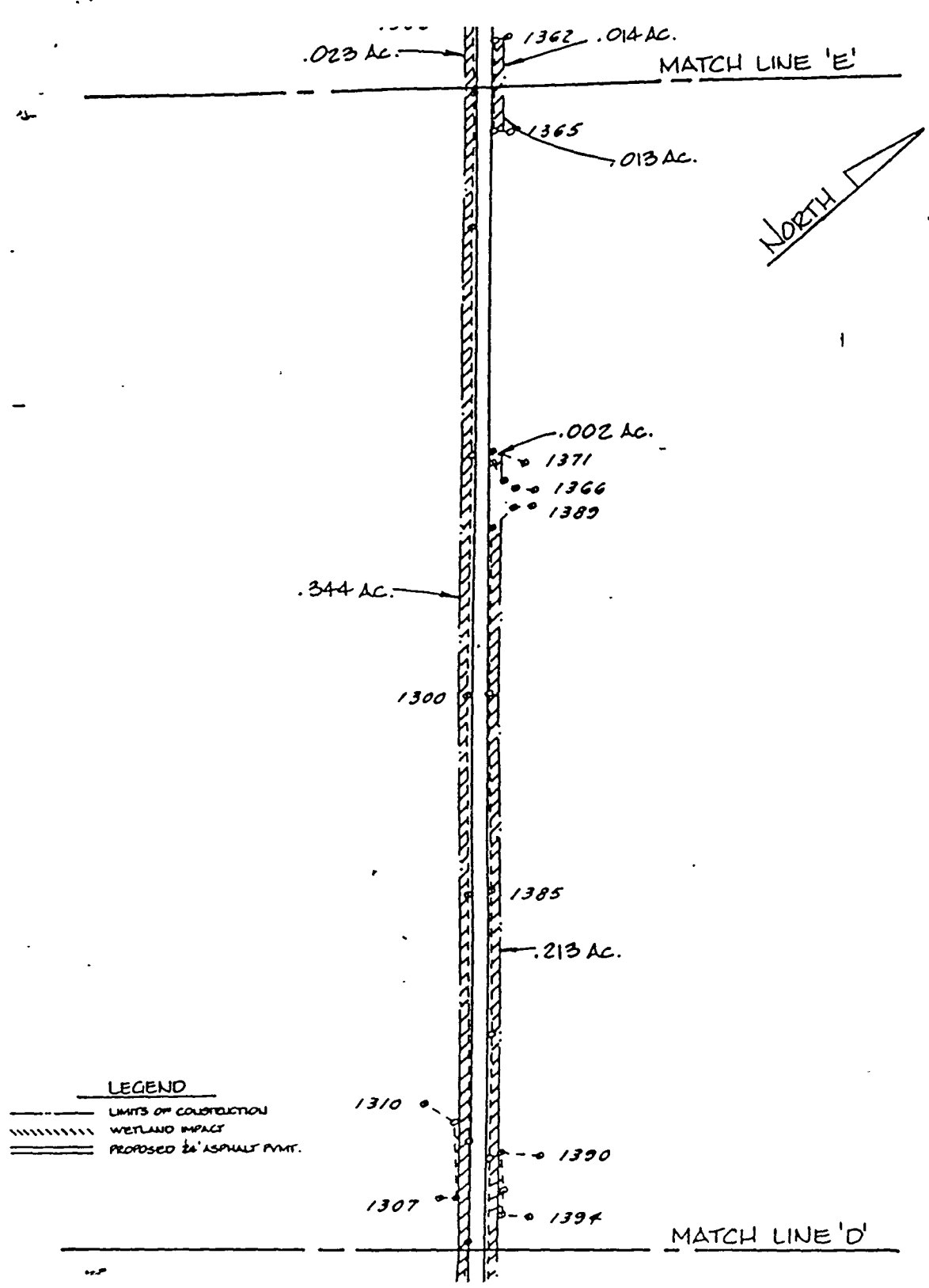
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 - - - - - LIMITS OF CONSTRUCTION
 // // // // WETLAND IMPACT
 = = = = = PROPOSED 24" ASPHALT PAVT.



SITE PLAN
TRAIL RIDGE LANDFILL
 TRAIL RIDGE LANDFILL, INC.

PROJ. NO. E 89-103
DATE DEC., 1989
SCALE 1"=200'
DRAWING NO. 5

89NWD-91177




 England-Thims
 & Miller, Inc.
 Consulting & Design Engineers

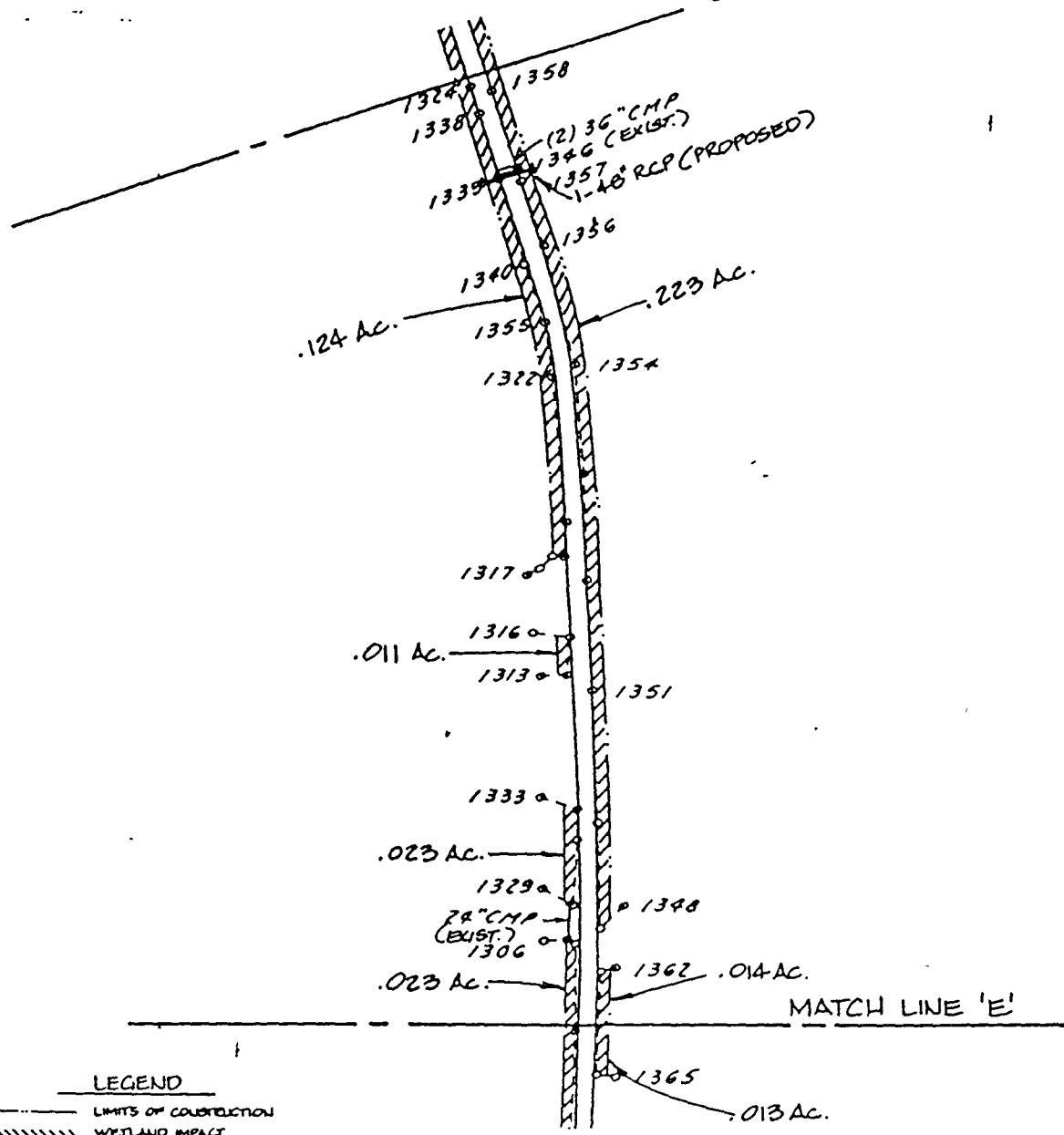
SITE PLAN
TRAIL RIDGE LANDFILL
 TRAIL RIDGE LANDFILL, INC.

PROJ. NO. E 89-103
 DATE DEC., 1989
 SCALE 1"=200'
 DRAWING NO. 6




89 N 670-911-77

NORTH 

MATCH LINE 'F'



LEGEND

-  LIMITS OF CORRECTION
-  WETLAND IMPACT
-  PROPOSED 24' ASPHALT PMT.


 England-Thimby
& Miller, Inc.
Consulting & Design Engineers

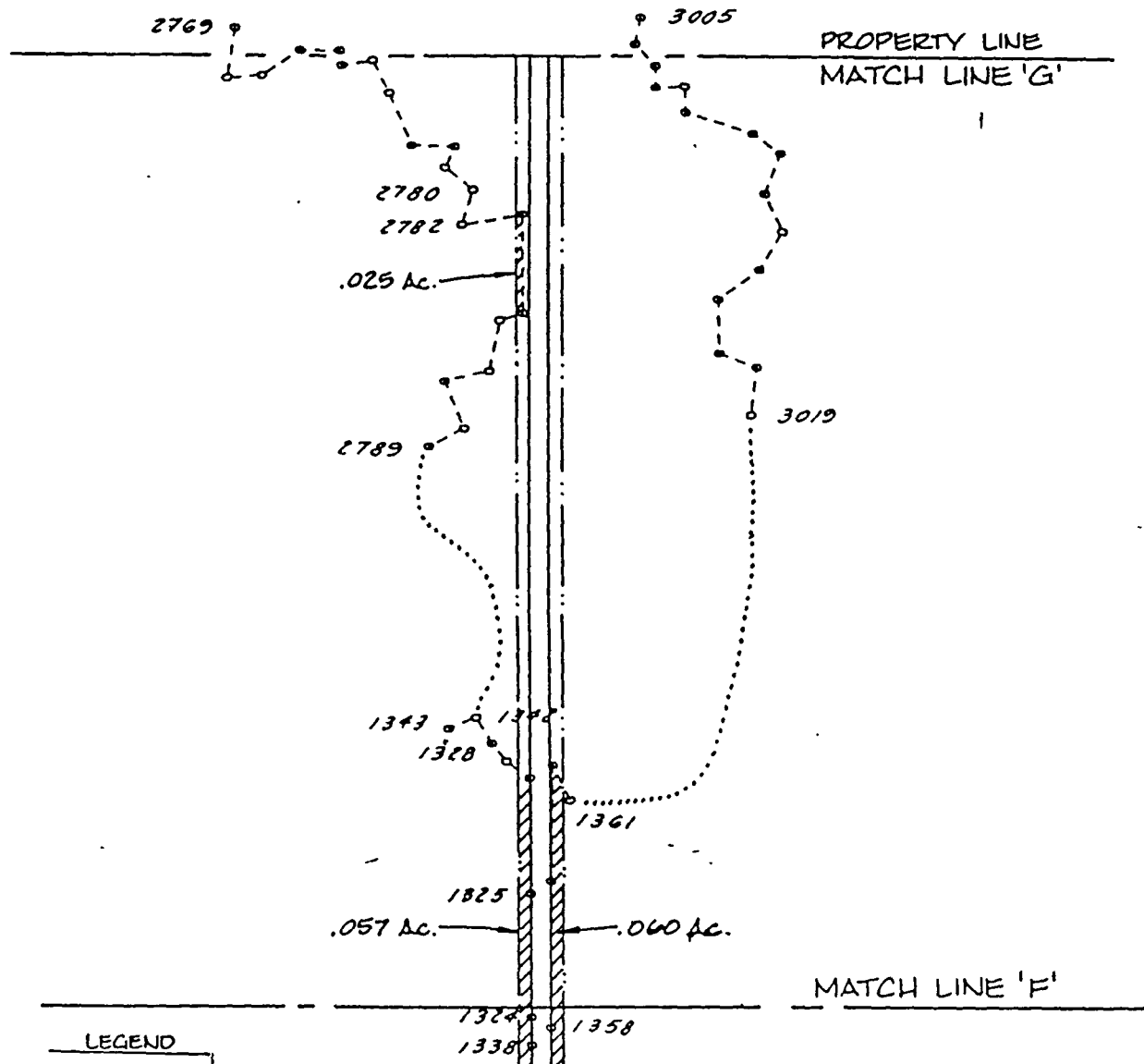
SITE PLAN

TRAIL RIDGE LANDFILL
TRAIL RIDGE LANDFILL, INC.




PROJ. NO. E 89-103
DATE DEC., 1989
SCALE 1"=200'
DRAWING NO. 7

89N(20)-91177

NORTH 



LEGEND


-  LIMITS OF CONSTRUCTION
-  WETLAND IMPACT
-  PROPOSED 24' ASPHALT PAVT.

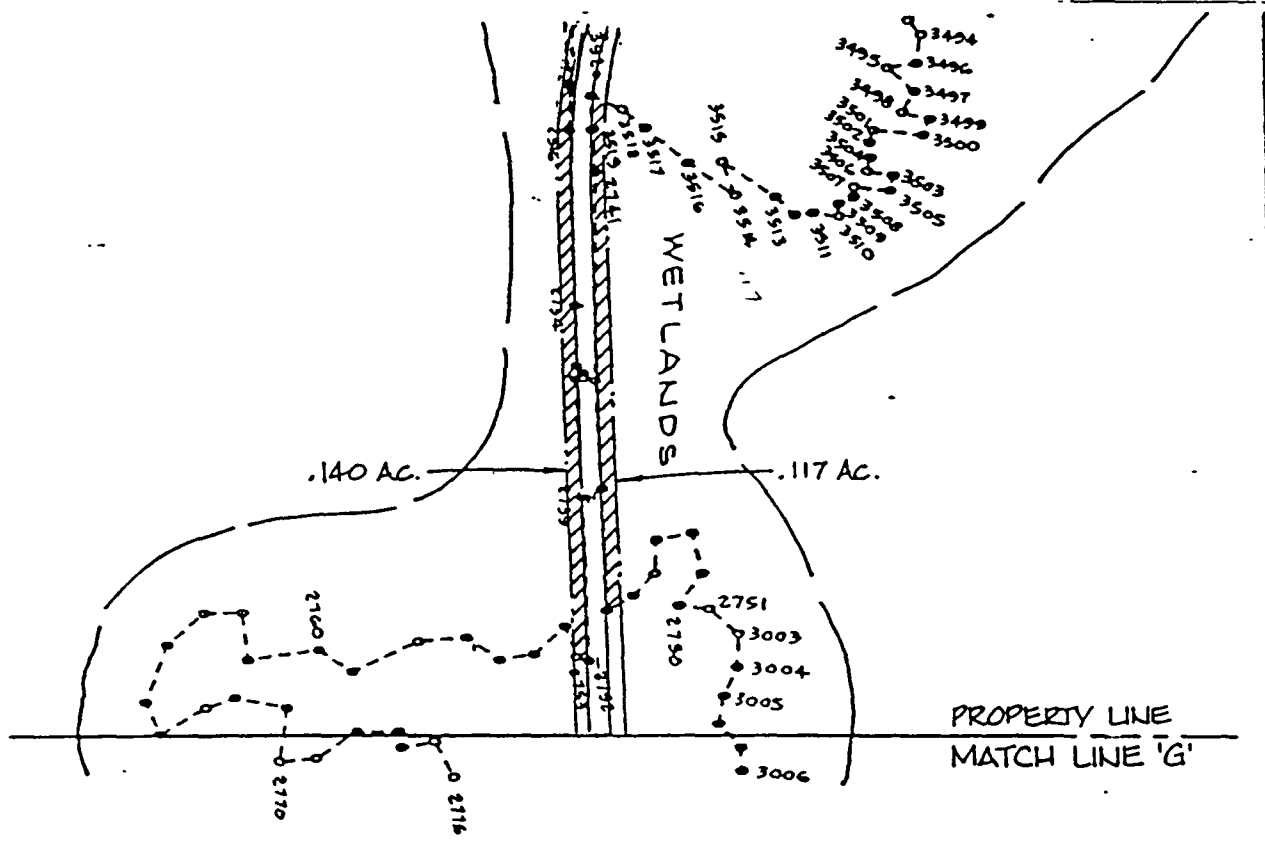
 England-Thimms
& Miller, Inc.
Consulting & Design Engineers

SITE PLAN
TRAIL RIDGE LANDFILL
TRAIL RIDGE LANDFILL, INC.

PROJ. NO. E 89-103
DATE DEC., 1989
SCALE 1"=200'
DRAWING NO. 8

89NWO-91177

NORTH 



LEGEND
 - - - - - LIMITS OF CONSTRUCTION
 // // // // WETLANDS IMPACT
 = = = = = PROPOSED 26' ASPHALT PAVT.

 England-Thimby
& Miller, Inc.
Consulting & Design Engineers

SITE PLAN
TRAIL RIDGE LANDFILL
 TRAIL RIDGE LANDFILL, INC.

PROJ. NO. E 89-103
 DATE DEC., 1989
 SCALE 1"=200'
 DRAWING NO. 9

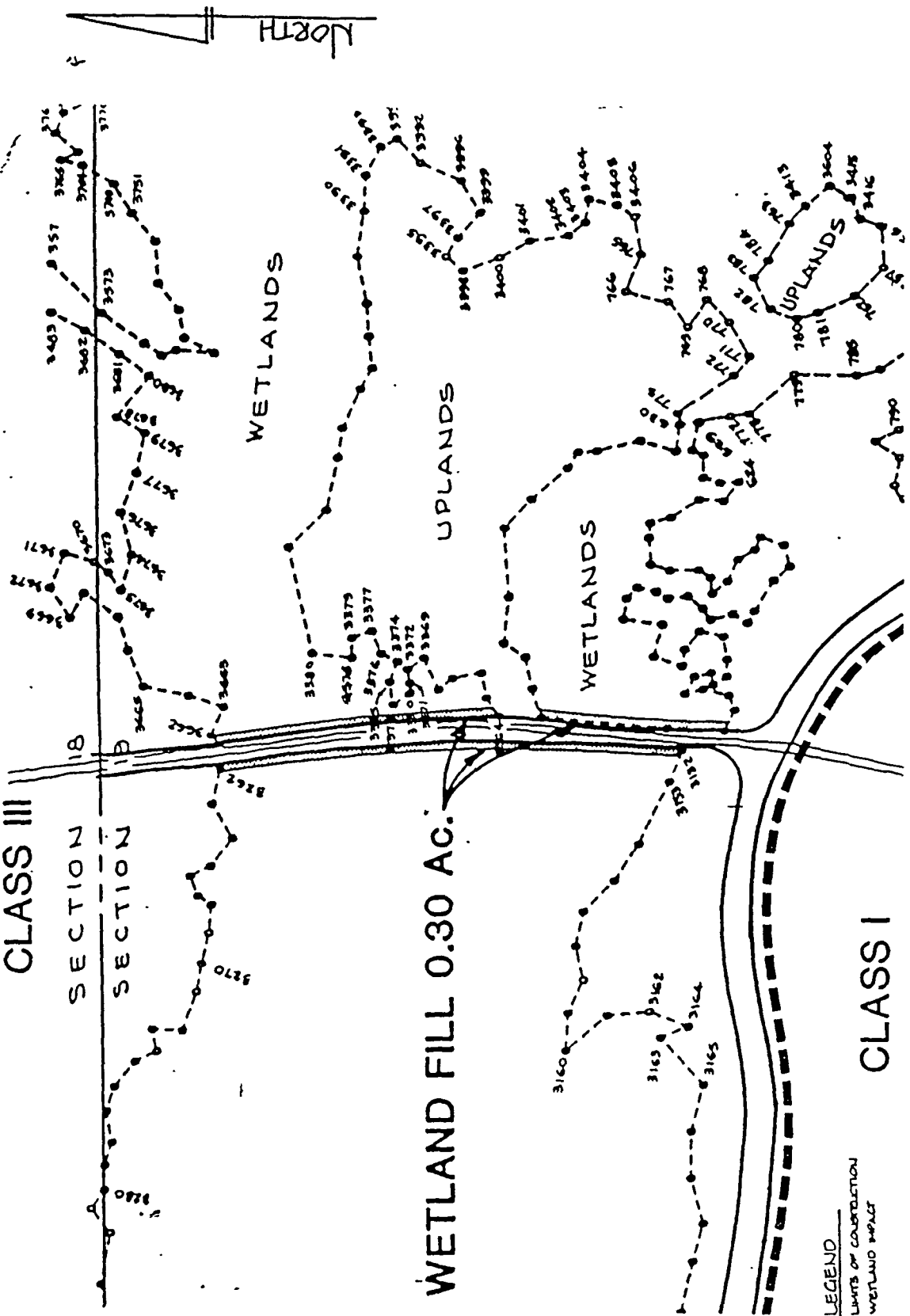
891100 0117

991W0-91177

CLASS III
SECTION
SECTION

WETLAND FILL 0.30 AC.

CLASS I

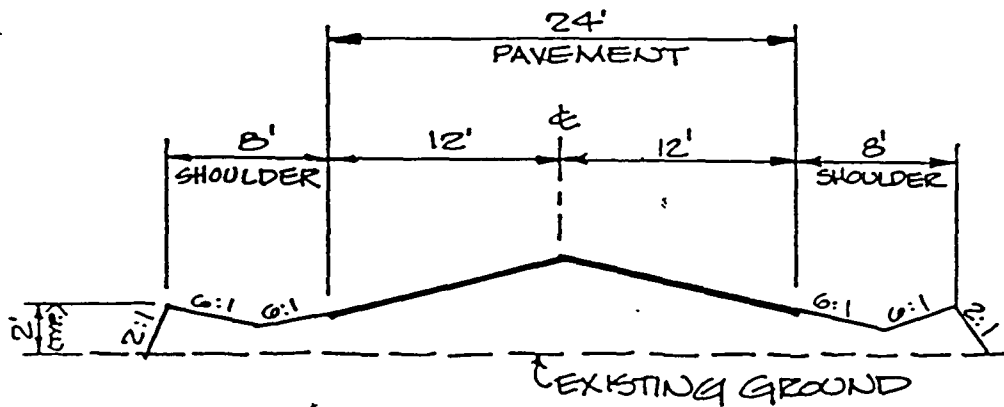


LEGEND
 ——— LIMITS OF CONSTRUCTION
 - - - - - WETLAND BOUNDARY

PROJ. NO. E89-113
 DATE DEC., 1989
 SCALE 1"=200'
 DRAWING NO. 10

SITE PLAN
 TRAIL RIDGE LANDFILL

England-Thims & Miller, Inc.
 Consulting & Design Engineers
 3101 St. Johns Blvd. So., Jacksonville, FL 32226




**England-Thims
& Miller, Inc.**
 Consulting & Design Engineers

TYPICAL ENTRANCE
ROADWAY SECTION

TRAIL RIDGE LANDFILL

PROJ. NO. E 89-113

DATE DEC., 1989

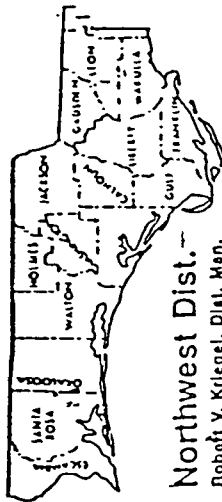
SCALE 1" = 10'

DRAWING NO. 11

89NWC-91177

Twin Towers Office Building
2600 E
Tallahassee, Florida 32399-2400

904-488-4805

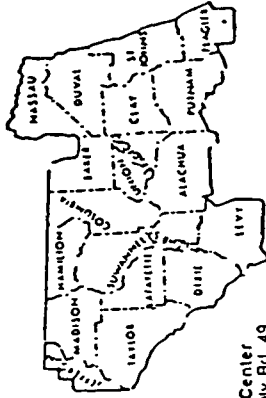


Northwest Dist.

Robert V. Krieger, Dist. Man.
100 Governmental Center
Panama City, Florida 32405
904 436 8300
(Suncom 695 8300)

Northwest Dist Branch Office
340 W 23rd Street, Suite E,
Panama City, Florida 32405
904 872 4375
(Suncom 777 4375)

Northwest Dist. Branch Office
1847 Capital Circle NE
Tallahassee, Florida 32308 4419
904 488 3704
(Suncom 278 3704)

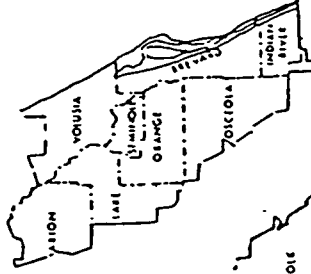


Northeast Dist.

Ernest E. Frey, Dist. Man.
3426 Dale Rd
Jacksonville, Florida 32207
904 798 4200
(Suncom 821 5295)

Northeast Dist. Branch Office
5700 SW 34th Street, Suite 1204
Gainesville, Florida 32608
904 336 2095
(Suncom 625 2095)

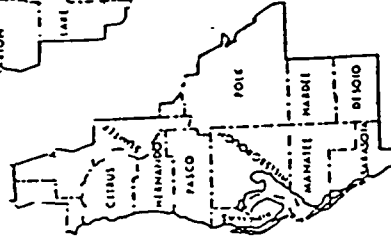
Suwannee River
Environmental Dist. Center
Highway 90 E & County Rd. 49
Rt. 3 Box 64
Live Oak, Florida 32060
904 362 1001
(Suncom 860 1001)



Central Florida Dist.

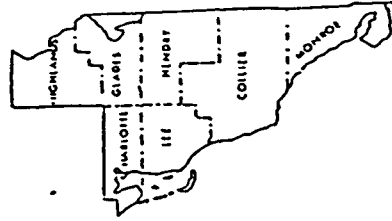
Alex Alexander, Dist. Man.
3319 Magnolia Blvd., Suite 232
Orlando, Florida 32803 3767
905 894 7555
(Suncom 325 1011)

Central Florida Dist. Branch Office
13 East Melbourne Ave
Melbourne, Florida 32901
305 768 7611



Southwest Dist.

Dr. Richard D. Garrity, Dist. Man.
4570 Oak Fair Boulevard
Tampa, Florida 33610 7347
813 623 5561
(Suncom 552 7612)

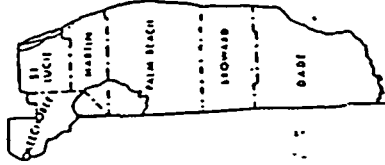


South Florida Dist.

Philip R. Edwards, Dist. Man.
2269 Bay St
Fort Myers, Florida 33901-2896
813 332 2667
(Suncom 721 7900)

South Florida Dist. Branch Office
7451 Golf Course Blvd
Punta Gorda, Florida 33902 9359
813 639 4907
(Suncom 721 7838)

South Florida Dist. Branch Office
11400 Overseas Highway
Suite 219 224
Marathon, Florida 33050
305 743 5955/4334
(Suncom 451 5094)



Southeast Florida Dist.

Scott Benyon, Dist. Man.
1900 S Congress Ave., Suite A
West Palm Beach, Florida 33406
305 964 9160
(Suncom 221 5005)

Southeast Florida Dist. Branch Office
2745 SE Magnolia Blvd
Palm St. Lucia, Florida 34952
305 878 3890/335 4310
(Suncom 221 5053)

APPENDIX V.

Phasing Drawings Nos. 9, 9A, 9B and 25A

MAP(S)/ PLAN(S)

SCANNED

SEPARATELY