

APPLICATION FOR MATERIAL LICENSE

44-28075

030-30132

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20555

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,  
MASSACHUSETTS, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND,  
OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIAL SECTION B  
631 PARK AVENUE  
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA,  
PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR  
WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
MATERIAL RADIATION PROTECTION SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR  
WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
MATERIALS LICENSING SECTION  
799 ROOSEVELT ROAD  
GLEN ELLYN, IL 60127

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA,  
NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH,  
OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
MATERIAL RADIATION PROTECTION SECTION  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON,  
AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS  
TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
MATERIAL RADIATION PROTECTION SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☒ A. NEW LICENSE  
☐ B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_  
☐ C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

Empire Sanitary Landfill, Inc.  
P.O. Box 28  
Taylor, PA 18517

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

Empire Sanitary Landfill, Inc.  
200 S. Keyser Ave.  
Taylor, PA 18517

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Alan W. Stephens

TELEPHONE NUMBER

(717) 562 - 3942

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount  
which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR  
TRAINING AND EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES

8801060246 870825  
REG1 LIC30  
37-28075-01 PDR

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 3P AMOUNT  
ENCLOSED \$ 230.00

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

*Gerald J. Linski*

Gerald J. Linski

Geologist

7-14-87

a. ANNUAL RECEIPTS

< \$250K	\$1M-3.5M
\$250K-500K	\$3.5M-7M
\$500K-750K	\$7M-10M
\$750K-1M	> \$10M

b. NUMBER OF EMPLOYEES (Total for  
entire facility excluding outside contractors)

c. NUMBER OF BEDS

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (dollar and/or staff hours)  
ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE  
PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit  
it to protect confidential commercial or financial—proprietary—information furnished to  
the agency in confidence)

YES

FOR NRC USE ONLY

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

APPROVED BY

AMOUNT RECEIVED

CHECK NUMBER

DATE

\$230

1846 (CARD, etc.)

ML10 107562

7/28/87

## PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission  
Director, Division of Fuel Cycle and Material Safety  
Office of Nuclear Material Safety and Safeguards  
Washington, D.C. 20555

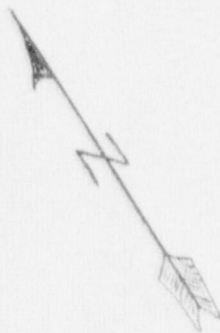
[Figure 2]

WOODED AREA



SEDIMENT  
BASIN

EXISTING WORK AREA



WOODED AREA

WOODED AREA

TEMPORARY  
TROXLER  
GUAGE  
STORAGE  
IN SOILS LAB

OFFICE

Soils  
Lab

JOB

TRAILERS

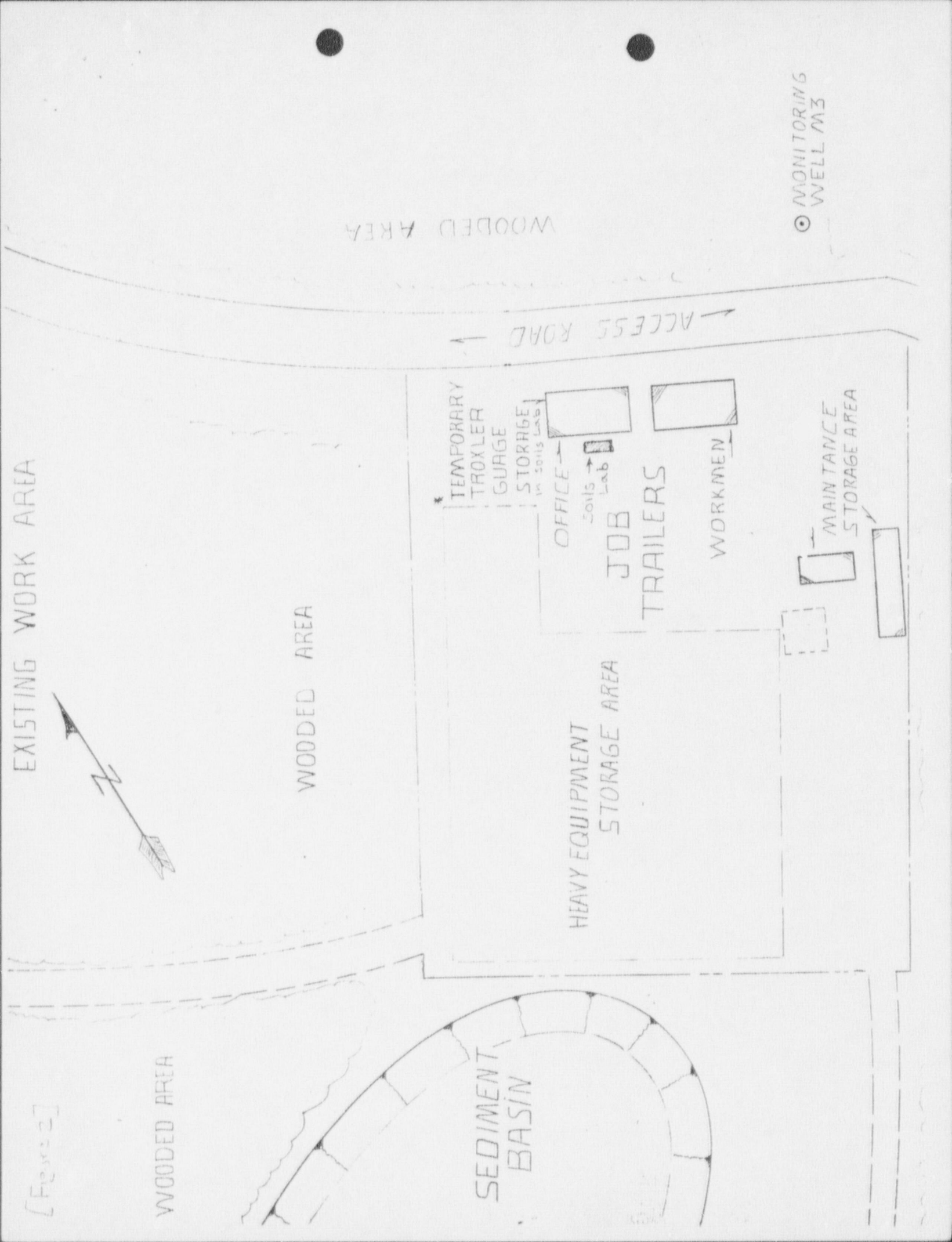
WORKMEN

HEAVY EQUIPMENT  
STORAGE AREA

MAINTANCE  
STORAGE AREA

ACCESS ROAD

MONITORING  
WELL M3





# PROPOSED FACILITY PLAN

WIND ICK



TANKER  
LOADING  
AREA

FIRE  
WASH

FALL  
OFF  
AREA

Soils Testing Lab

SED  
BASIN

LANDSCAPING

Admin  
EYE  
ROOM

OUT SCALE  
IN SCALE

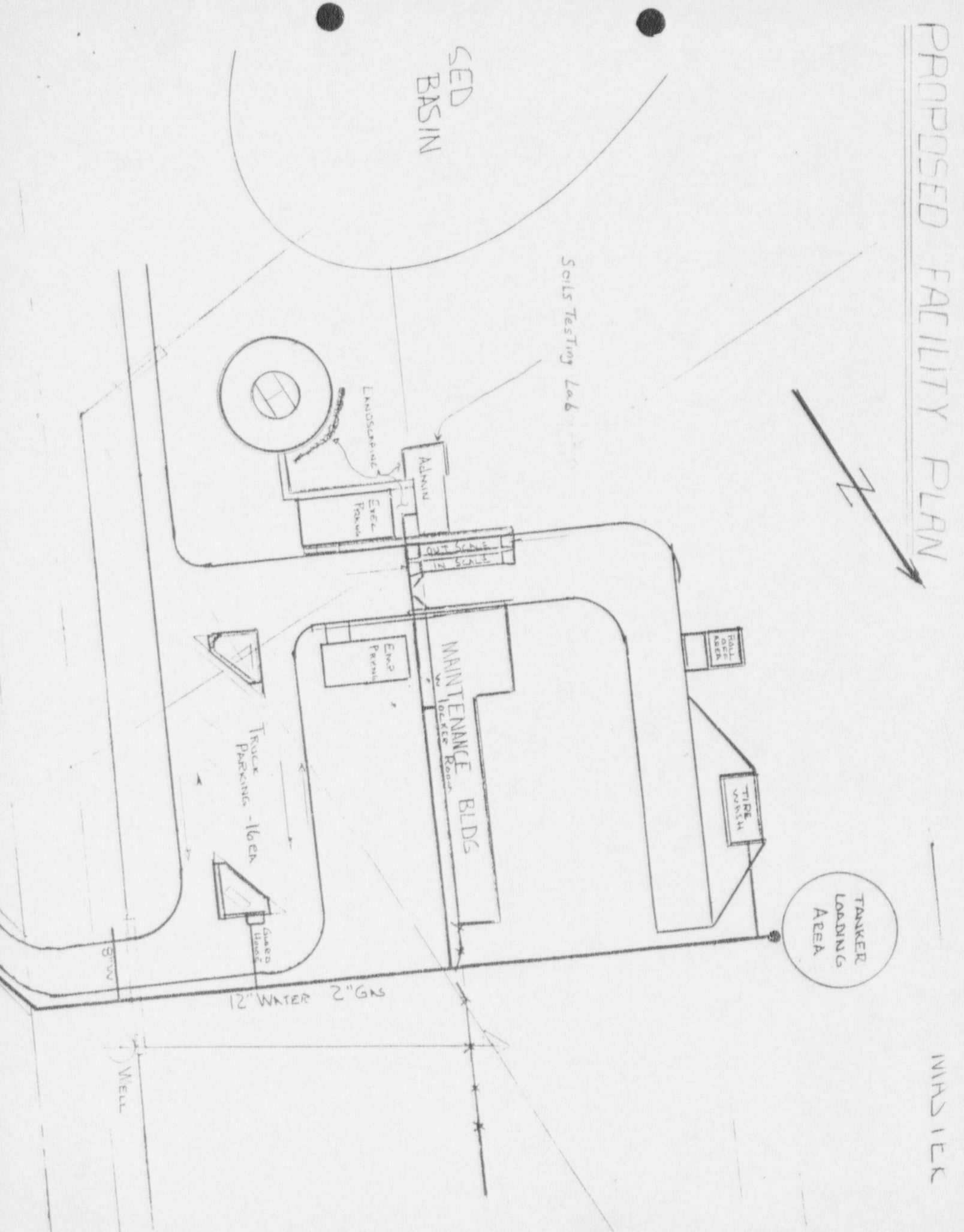
MAINTENANCE BLDG  
LOCKER ROOM  
EYE  
ROOM

TRUCK  
PARKING - 16ea

GUARD  
HOUSE

12" WATER 2" GAS

WELL



5. Radioactive material

Element	Form	Troxler Drawing #	Max. Amt.
A. Cs-137	Special form	A-102112	Not to exceed 9 mCi per source
B. Am-241:Be	Special form	A-102451	Not to exceed 44 mCi per source

6. Purpose

This material will be used in the Troxler model 3400 series Surface/Density Gauge. The gauge utilizes these radioactive elements to determine moisture density relationships in soils.

7. Gerald J. Linski  
Robert Sochovka

8. Both persons have attended the Troxler training seminar and are certified to operate the machine in accordance with The Nuclear Regulatory Commission Rules and Regulations.

9. The Empire Sanitary Landfill, Inc. is a new solid waste disposal facility currently under construction. The proposed plan (Figure 1) is the lay-out of the buildings, scales, access roads, and parking areas. The basement of the administration building will be the permanent location of the Soils Laboratory. Within the Soils Laboratory a storage closet will be used to store the Troxler Nuclear Gauge. Both the storage closet and entrance to the Laboratory will be in use during normal working hours (7:00 AM to 5:30 PM). A lab technician will not be in the Lab 100% of the time.

Temporarily, a small storage shed will be the location of our testing Lab. This building will be 16' x 10' x 7' in dimension. The Nuclear Gauge will be stored in a special storage area in the Lab. This storage area will be under lock and key along with the entrance door to the building. For the remainder of the day a full-time security guard will be on site.

Gerald J. Linski will be the individual responsible for the keys to the storage room where the device will be stored.

This trailer is not occupied 100% of the time.

## Radiation Safety Program

### RADIATION SAFETY OFFICER

A. (Name of individual listed in item 7) has been designated as the company Radiation Safety Officer and will assume the duties and responsibilities that include the following:

1. To ensure that all terms and conditions of the license are being met and that the information contained in the license is up-to-date.
2. To ensure that the equipment has been leak tested every six (6) months and that the leak test is performed in the manner prescribed by the equipment manufacturer.
3. To ensure that the use of the equipment is only by individuals that have been authorized by the Radiation Safety Officer and that all users wear personnel monitoring badges when utilizing the equipment.
4. To maintain the records as required by the Nuclear Regulatory Commission. These records shall include personnel quarterly exposure records, leak test reports and training certificates for all operators.
5. To insure that the equipment is properly secured against unauthorized removal at all times, especially when it is not in use. The RSO will have the keys to the gauge's storage room only.
6. To serve as a point of contact and give assistance in case an emergency such as damaged equipment or theft. At that point the NRC and Troxler Electronics will be notified.
7. To insure that all users have read and understand the radiation safety operating and emergency procedures as directed by the Radiation Safety Officer and Troxler Electronics.
8. To post "Caution Radioactive Material" on the storage location, along with NRC Form #3 "Notice to Employees" nearby in a visible area.
9. To conduct a written six (6) month inventory of all nuclear gauges, and kept on file for inspection.

### OPERATING PROCEDURES

#### A. Transportation of Equipment

1. All possible means shall be provided to ensure that the



equipment is fully secured in the transporting vehicle and when transporting in an enclosed vehicle, keep the gauge in the trunk or rear compartment area so as to limit the exposure rate to a minimum. The vehicle will also be locked at all times. When transporting in an open bed vehicle, the gauge should be securely fastened and locked to the truck bed.

2. The gauge will be transported in the Troxler transportation case. The U.S. Department of Transportation requires that the gauge be transported in a properly labeled carrying case. A copy of the U.S. D.O.T. transport package certification will be kept with the transporter.

3. At all times during transport, the transporter (operator) will also have a properly completed Bill of Lading for each gauge, Source Certificate, Personal ID, and a copy of the Transport Package Certification.

#### B. Utilization Procedures:

1. A utilization log book will be used to control the gauges whereabouts at all times - signing it out and back in when returning from the field.

2. When the gauge is in the field, we will maintain control over the gauge at all times. The gauge will never be left unattended, as this type of negligence has led to stolen or damaged equipment.

3. When not making measurements, the gauge will be placed in the transportation case and returned to its permanent storage area as soon as possible. The gauge will be properly used as directed by Troxler Electronics. This will maintain any radiation exposure below the acceptable limits. When recharging the gauge, it will be kept in the locked storage room.

4. When using the equipment, we will wear Eberline Analyt. TLD badge that has been assigned to the specific operator. These badges will monitor both gamma and neutron radiation with quarterly exchange frequency and reports examined for unusually high dosages. Proper measures will be taken to correct this type of situation.

#### C. MAINTENANCE and LEAK TEST PROCEDURES

1. Periodic maintenance will include cleaning the gauge, at which point TLD badges will be worn.

2. No maintenance will be performed in which the radioactive source is removed from the gauge. Troxler Electronics will conduct source removal procedures only.

3. Leak tests will be done every 6 months using the Troxler Model 3880 kit, following the instructions as outlined within the kit. TLD badges will be worn.  
EMERGENCY PROCEDURES

A. In the event of physical damage to a gauge, the following will be done.

1. Immediately cordon off an area around the gauge of at least 15 feet.
2. If a vehicle is involved, it will be stopped until the extent of contamination, if any, can be established.
3. A visual inspection of the gauge will be made to determine if the source housing and/or shielding has been damaged.
4. At the earliest possible time, when the situation is under control, we will contact our Radiation Safety Officer at (phone #). We will describe the present conditions and follow his instructions.

B. In the event the gauge is lost or stolen, we will immediately notify the RSO, who in turn will contact the NRC and Troxler Electronics.

A COPY OF THIS RADIATION SAFETY PROGRAM WILL BE KEPT WITH THE GAUGE AT ALL TIMES FOR REFERENCE WHEN NEEDED.

17 JUL 1987



# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

GERALD J. LINSKI

of

EMPIRE SANITARY LANDFILL, INC.

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.  
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

## Radiological Safety

1. Principles and practices of radiation protection.
2. Leak testing procedures.
3. Mathematics and calculations basic to the use and measurement of radioactivity.
4. Biological effects of radiation.
5. Radioactivity measurement standardization and monitoring techniques and instruments.
6. Accident and incident procedures.
7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

## Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance
4. Field application
5. Gauge calibration

*W. F. Troxler*  
INSTRUCTOR

06-25-87

DATE

№ 16822

W. F. Troxler

PRESIDENT

# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

GERALD J. LINSKI

of

EMPIRE SANITARY LANDFILL, INC.

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.  
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

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## Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance

4. Field application
5. Gauge calibration

06-25-87

DATE

No 16822

INSTRUCTOR

W. F. Troxler

PRESIDENT



# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

ROBERT P. SOCHOUKA

of

EMPIRE SANITARY LANDFILL, INC.

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.  
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

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## Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance

06-25-87

DATE

W. F. Troxler

PRESIDENT

№ 16821

INSTRUCTOR

107562



03 030 132

BETWEEN: C. James Holloway, Chief  
License Fee Management Branch  
Office of Resource Management

John E. Glenn, Chief  
Nuclear Materials Safety & Safeguards Section B  
Division of Radiation Safety and Safeguards

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee:

Application Dated:

Control No.:

License No.:

Empire Sanitary Landfill  
7/14/87  
107562

New Application

2. FEE ATTACHED

Amount:

Check No.:

\$230.00

1846

3. COMMENTS

Signed

Date

Foster  
7/23/87

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount:

2. Correct Fee Paid. Application may be processed for:

Amendment

Renewal

License

3P

\$230

✓

Signed

Date

S. Kimberley  
7/28/87