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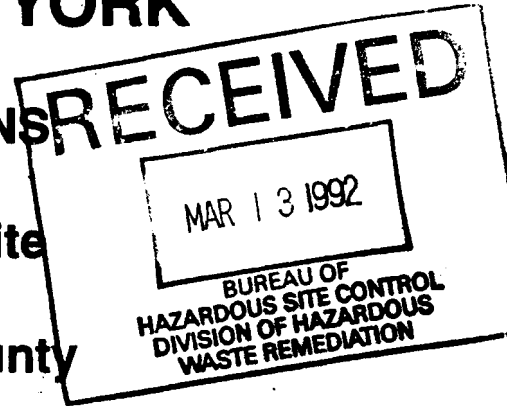
YN-4080 D2633

# ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK

PHASE II INVESTIGATIONS

Golden Road Disposal Site  
Site No. 828021  
Town of Chili, Monroe County

March 1992



Prepared for:

**New York State Department  
of Environmental Conservation**

50 Wolf Road, Albany, New York 12233

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## 1. EXECUTIVE SUMMARY

### 1.1 SITE DESCRIPTION AND BACKGROUND

The Golden Road Disposal Site (Golden Road site) is located in the Town of Chili, Monroe County, New York (see Figures 1-1 and 1-2). The 8-acre inactive site is located adjacent to Route 490 in a once-rural area of the Town of Chili. Access to the site is obtained from Golden Road. Conrail railroad tracks divide the site into two separate areas, both of which lie immediately adjacent to designated wetlands and are characterized by poor drainage and a high water table. The access road to the area south of the railroad tracks is blocked off by a locking gate. Access to the area north of the railroad tracks is through the Fitzsimons residence driveway.

The site owner, Mr. Howard Fitzsimons, Jr., has been associated with the Golden Road site throughout its use as a disposal site. Most of the fill and drums were brought onto the site with the owner's permission; however, Mr. Fitzsimons himself trucked foundry sand from Abex Corporation to the site (Fitzsimons 1991). The drums originated from the U.S. Army Reserve Unit, Chevron Oil, and unknown illegal dumping. The poorly covered site was active from 1955 through 1976, receiving a wide variety of waste types including U.S. Army artillery shell casings from the 98th Division Reserve Unit (Fitzsimons 1991), 55-gallon drums of unknown wastes, household refuse, metal slag, fly ash, and junked vehicles. The filling of the site was largely accomplished using foundry sand. A great deal of structural steel, fuel tanks, and partially buried drums presently lie about the site. A portion of the wetland area to the west and south was filled during the operation of the site. There are no records concerning the volume of wastes that entered the site.

In early 1982, prior to the Phase I investigation, the Monroe County Health Department and the New York State Department of Environmental Conservation (NYSDEC) began taking samples of the surface waters, sediments, drum contents, and well water from wells in close proximity to the site. Results of groundwater testing indicated levels of cadmium and lead exceeding New York State drinking water standards. Surface water contained elevated levels of cadmium, benzene, and toluene. These results were reported in the Phase I investigation report submitted by Recra Research, Inc. in November 1983.

During 1985, an emergency drum removal project was carried out by a United States Environmental Protection Agency (EPA) contractor. Approximately 560 drums were removed from the land surface. Environmental testing revealed the presence of chlorinated and nonchlorinated solvents, high total organic carbon, organic solids with low flash points, polychlorinated biphenyls (PCBs), and waste oils. Partially buried drums are still visible on site.

## 1.2 PHASE II INVESTIGATION

As part of the Phase II Investigation, Ecology and Environment Engineering, P.C. (E & E) performed an initial site reconnaissance on April 26, 1989, and a geophysical survey on May 17, 1989. Along with a visual inspection, the site reconnaissance included a continuous air monitoring survey using an HNu photoionization detector to determine the presence of organic vapors. The geophysical investigation consisted of a ground conductivity survey and a total earth's magnetic field survey to locate any buried metallic materials and determine the presence of contaminant plumes.

On June 15, 1989, Om P. Popli, P.E. Engineers (Om Popli), under subcontract to E & E, collected 11 surface soil samples, two waste samples, and one leachate sample to characterize the chemical composition of the soils throughout the site. A third waste sample was collected on August 2, 1989, as requested by NYSDEC. Five monitoring wells were drilled and installed between August 22 and 28, 1989, by Empire Soils under the supervision of Om Popli. Subsurface soil samples from three borings were collected for geotechnical analysis and one sample from well GW-7 was collected for chemical analyses. Groundwater samples were

collected on February 6 and 7, 1990, and surface water samples were collected on February 6, 8, 9, and 12, 1990. All sampling was performed by Om Popli, as was the site survey, which was performed on February 12, 1990. All analyses were performed by E & E's Analytical Services Center (ASC).

### 1.3 SITE ASSESSMENT

The continuous air monitoring survey during the site reconnaissance using the HNu photoionization detector indicated no organic vapors above background levels from any areas on site. The geophysical surveys provided information to characterize the subsurface and locate potential areas of buried metallic materials. Surface interference from metallic objects (i.e., junked vehicles, steel structures, electric fences, etc.) was encountered in several areas, however, six of the seven survey grids contained enough area free from subsurface metallic debris to drill the monitoring wells without any obstructions. The survey grid for monitoring well GW-7 was not designated free from subsurface metallic debris due to the presence of junked vehicles within the survey grid. This well location was moved to a more suitable area. The subsurface stratigraphy, as confirmed by the installation of the groundwater monitoring wells, indicated an average of 3 feet of fill material (foundry sand, wood fragments, etc.) and possibly 18 feet in some locations (i.e., GW-5). The fill was underlain by silt and clay with rock fragments. In areas where fill material was absent, the soils consisted of various layers of silt, clay, sand, and gravel. Bedrock varied in depth between 11.2 feet to 25.4 feet below ground surface and the top of bedrock generally dipped to the southwest.

Water levels varied between 2.1 feet above ground surface to 5.2 feet below ground surface. Water levels rising above ground surface may indicate artesian conditions, enhanced by a mounding effect within the fill areas, causing a high piezometric surface in the southern and northwestern portions of the site. The groundwater in Monroe County generally flows to the Genesee River or to Irondequoit Bay, which both flow northerly to northeasterly into Lake Ontario (Sweet et al. 1938). Regional groundwater in the vicinity of the site likely flows east toward the Genesee River or north to northwesterly toward the lake.

However, groundwater beneath the site is likely to be mounded in the fill areas. Mounding occurs as water flows through the fill areas, which are composed of coarser materials and have a high hydraulic conductivity, to the underlying finer, undisturbed overburden, which has a lower hydraulic conductivity. Those differences in hydraulic conductivity cause groundwater within the fill to flow radially outward to the surrounding wetlands and ditches. Groundwater flow in the underlying overburden appears to be to the east as indicated by the water levels measured in the monitoring wells.

One subsurface soil sample was collected and analyzed for Target Compound List (TCL) organics including volatile organics, base/neutral and acid extractables (BNAs), and PCBs/pesticides. In addition, this sample was analyzed for the inorganic portion of the TCL list including 23 metals and cyanide. The sample was collected from the GW-7 well bore at a depth of 17 to 19 feet. No organic compounds or cyanide were detected, however, magnesium was detected slightly above the common range for soils in the Eastern United States.

Seven groundwater samples and one drill water sample were collected and analyzed for TCL organics and inorganics. Several organic compounds were detected in both up- and downgradient newly installed groundwater monitoring wells and in the drill rig water. The drill rig water was taken from a local fire hydrant on Golden Road and placed in the drill rig water tank. Contamination detected in the drill rig water sample was the result of laboratory artifacts and is not of concern. Most of the compounds detected in the groundwater were in very low concentrations (i.e., below sample quantitation limits). Some also may have been laboratory artifacts. Benzene in GW-1 and GW-6, ethylbenzene in GW-1, and vinyl chloride, chloroethane, 1,1-dichloroethane, and total 1,2-dichloroethene in GW-7 exceeded New York State Class GA drinking water standards. Several metals also exceeded New York State Class GA drinking water standards in both unfiltered and filtered samples from all the newly installed wells. Some of the samples contained metals (i.e., arsenic, barium, cadmium, chromium, copper, iron, lead, manganese, and zinc) in unfiltered portions that were not detected in the filtered portions. No PCBs, pesticides, or cyanide were detected in any of the groundwater samples tested.

Twenty-three surface water/sediment samples were collected on and adjacent to the Golden Road site. Fourteen on-site samples were analyzed for TCL organics and inorganics and eight off-site samples from the railroad drainage ditch were analyzed only for PCBs/pesticides. Proposed sample SW-13/SED-13 was not collected due to dry conditions. Several organic compounds were detected in five of the 14 surface water samples tested (SW-1, SW-7, SW-9, SW-11, and SW-12). All of the compounds detected were in very low concentrations (i.e., below sample quantitation limits) and did not exceed Class C surface water standards. Several metals were detected in almost all the surface water samples tested at concentrations exceeding Class C surface water standards for the protection of aquatic life. The metals detected included aluminum, cadmium, copper, cobalt, iron, lead, nickel, selenium, vanadium, and zinc. No PCBs, pesticides, or cyanide were detected in any of the surface water samples tested.

Several organic compounds were detected in 11 of the 14 sediment samples tested (SED-1, SED-3, SED-4 through SED-11, and SED-14). Most of these compounds were detected in very low concentrations (below sample quantitation limits) and some may have been laboratory artifacts (i.e., carbon disulfide). In SED-8, one PCB compound (Aroclor-1254) was detected at a very low concentration (i.e., below sample quantitation limits), and two metals (chromium and nickel) exceeded the common range for metals in soils of the Eastern United States. No pesticides or cyanide were detected in any of the samples tested.

Eleven surface soil samples were collected and analyzed for TCL organics and inorganics. Several organic compounds were detected in all of the surface soils tested. Most of the compounds were in very low concentrations (i.e., below sample quantitation limits) and some may have been laboratory artifacts (i.e., chloroform, phthalates). One PCB compound (Aroclor-1260) was also detected in very low concentrations in samples S-1, S-2, and S-8. Neither metals nor cyanide were detected in excess of common ranges of metals in soils of the Eastern United States, and no pesticides were detected in any of samples tested.

Three waste samples and two leachate samples from apparent out-breaks were collected and also analyzed for TCL organics and inorganics. Two of the waste samples (W-1 and W-2) consisted of foundry sand and one

sample (W-3) was a resin-like substance from a partially buried drum. One of the leachate samples (L-1) was aqueous and the other was stained soil/sediment. Several organic compounds were detected in all of the waste and leachate samples tested. Most of the compounds were in very low concentrations (i.e., below sample quantitation limits) and some may have been laboratory artifacts (i.e., chloroform). The concentrations of several metals such as cobalt, iron, manganese, and lead in the resin-like waste sample (W-3) and aluminum, cadmium, cobalt, iron, lead, nickel, vanadium, and zinc in the aqueous leachate sample (L-1) were noticeably high, and exceeded New York State standards for the protection of aquatic life in Class C surface water. The lead concentration in W-3 was noticeably high at 3,430 micrograms per liter ( $\mu\text{g/L}$ ). No metals were detected in excess of common ranges of metals in soils in the Eastern United States for the foundry sand (W-1 and W-2) and leachate-stained soil/sediment (L-2). No PCBs/pesticides or cyanide were detected in any of the waste or leachate samples.

#### 1.4 HAZARD RANKING SYSTEM SCORE

The Hazard Ranking System (HRS) score was compiled to evaluate risks associated with the site. The HRS is applied to inactive hazardous waste sites in New York State to prioritize those needing additional investigation and remediation. The system evaluates site characteristics, containment measures, waste types, and potential contaminant receptors.

Under the HRS, three numerical scores are computed to express the site's relative risk to or damage done to the surrounding population and the environment. The three scores are described below:

- o  $S_M$  reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility via groundwater, surface water, or air. It is a composite of separate scores for each of the three routes ( $S_{gw}$  = groundwater route score,  $S_{sw}$  = surface water route score, and  $S_a$  = air route score).
- o  $S_{FE}$  reflects the potential for harm from substances that can explode or cause fires.
- o  $S_{DC}$  reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).



Based on the results of this and previous studies, the HRS scores for the Golden Road site have been calculated as follows:

$$S_M = 28.06 \quad (S_{gw} = 44.89; S_{sw} = 18.46; S_a = 0)$$

$$S_{FE} = \text{Not scored}$$

$$S_{DC} = 50$$

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF HAZARDOUS WASTE REMEDIATIONOriginal-BHSC  
Copy-REGION  
Copy-DEE  
Copy-DOH  
Copy-PREPARER

## ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES

|  |  |   |   |
|--|--|---|---|
| 1. Site Name<br>Golden Road Disposal Site  | 2. Site Number<br>828021                               | 3. Town<br>Chili  | 4. County<br>Monroe   |
| 5. Region<br>9   | 6. Classification<br>Current <u>2</u> / Proposed _____ | 7. Activity<br><input type="checkbox"/> Add <input type="checkbox"/> Reclassify <input type="checkbox"/> Delist <input type="checkbox"/> Modify _____ |   |
| 8a. Describe location of site (attach USGS topographic map showing site location).<br>The Golden Road Disposal Site is located in the Town of Chili, Monroe County, New York, adjacent to Interstate 490. Site access is from Golden Road. Figure 1-1 of the Phase II Investigation Report shows the site location on the USGS topographic quadrangle.   |  |   |   |
| b. Quadrangle <u>Clifton, NY</u>   |  | c. Site latitude <u>40°07'15"</u>   | Longitude <u>77°45'30"</u> d. Tax Map Number <u>132.16,132.20,133.13</u><br><u>133.17</u> |
| 9a. Briefly describe the site (attach site plan showing disposal/sampling locations)<br>The site, which is approximately 8 acres in size, is divided into two sections (north and south) by Conrail tracks. The northern section is primarily used for residences and cow pasture, with a large area of junked vehicles. The southern section is inactive, partially wooded, and contains various areas of foundry sand and other surface debris. Wetlands are present to the north, west, and south of the site. Figure 1-2 of the Phase II Investigation report shows the site plan. |  |   |   |
| b. Area <u>8</u> acres   |  | c. EPA ID number _____  | d. PA/SI <input type="checkbox"/> Yes <input type="checkbox"/> No                         |
| e. Completed: <input checked="" type="checkbox"/> Phase I <input checked="" type="checkbox"/> Phase II <input type="checkbox"/> PSA <input checked="" type="checkbox"/> Sampling   |  |   |   |
| 10. Briefly list the type and quantity of the hazardous waste and the dates that it was disposed of at this site.<br>The site was active from 1955 to 1976, receiving a wide variety of waste types, including: U.S. Army artillery shells, 55-gallon drums of unknown wastes, household refuse, metal slag, fly ash, and junked vehicles.   |  |   |   |
| 11a. Summarized sampling data attached<br><input type="checkbox"/> Air <input checked="" type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Surface Water <input checked="" type="checkbox"/> Soil <input checked="" type="checkbox"/> Waste <input type="checkbox"/> EP Tox  |  |   |   |
| b. List contravened parameters and values  |  |   |   |
| Groundwater:   |  | Surface Water:  |   |
| Arsenic to 29.4 µg/l   |  | Aluminum to 18,700 µg/l   |   |
| Barium to 1,230 µg/l   |  | Cadmium to 38.4 µg/l  |   |
| Cadmium to 38 µg/l   |  | Copper to 182 µg/l  |   |
| Chromium to 217 µg/l   |  | Iron to 326,000 µg/l  |   |
| Copper to 260 µg/l   |  | Lead to 193 µg/l  |   |
| Iron to 265,000 µg/l   |  | Nickel to 666 µg/l  |   |
| Lead to 364 µg/l   |  | Vanadium to 107 µg/l  |   |
| Magnesium to 840,000 µg/l  |  | Zinc to 803 µg/l  |   |
| Manganese to 1,030 µg/l  |  |   |   |
| Sodium to 71,600 µg/l  |  |   |   |
| Zinc to 1,320 µg/l   |  |   |   |
| Chloroethane to 17 µg/l  |  |   |   |
| 1,1,-Dichloroethane to 36 µg/l   |  |   |   |
| Total-1,2,-dichloroethene to 8 µg/l  |  |   |   |
| Benzene to 36 µg/l   |  |   |   |
| Ethylbenzene to 6 µg/l   |  |   |   |

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12. Site impact data

a. Nearest surface water: Distance 0 ft. Direction west, south Classification C

b. Nearest groundwater: Depth 2.1 feet above ground Flow Direction: northeast [ ] Source  Primary [ ] Principal  
surface to 5.2 feet below the surface.

c. Nearest water supply: Distance 0 ft. Direction east Active  Yes [ ] No

d. Nearest building: Distance 0 ft. Direction east Use residence

e. Crops/livestock on site?  Yes [ ] No j. Within a State Economic Development Zone? [ ] Yes [ ] No

f. Exposed hazardous waste?  Yes [ ] No k. For Class 2A: Code \_\_\_\_\_ Health model score \_\_\_\_\_

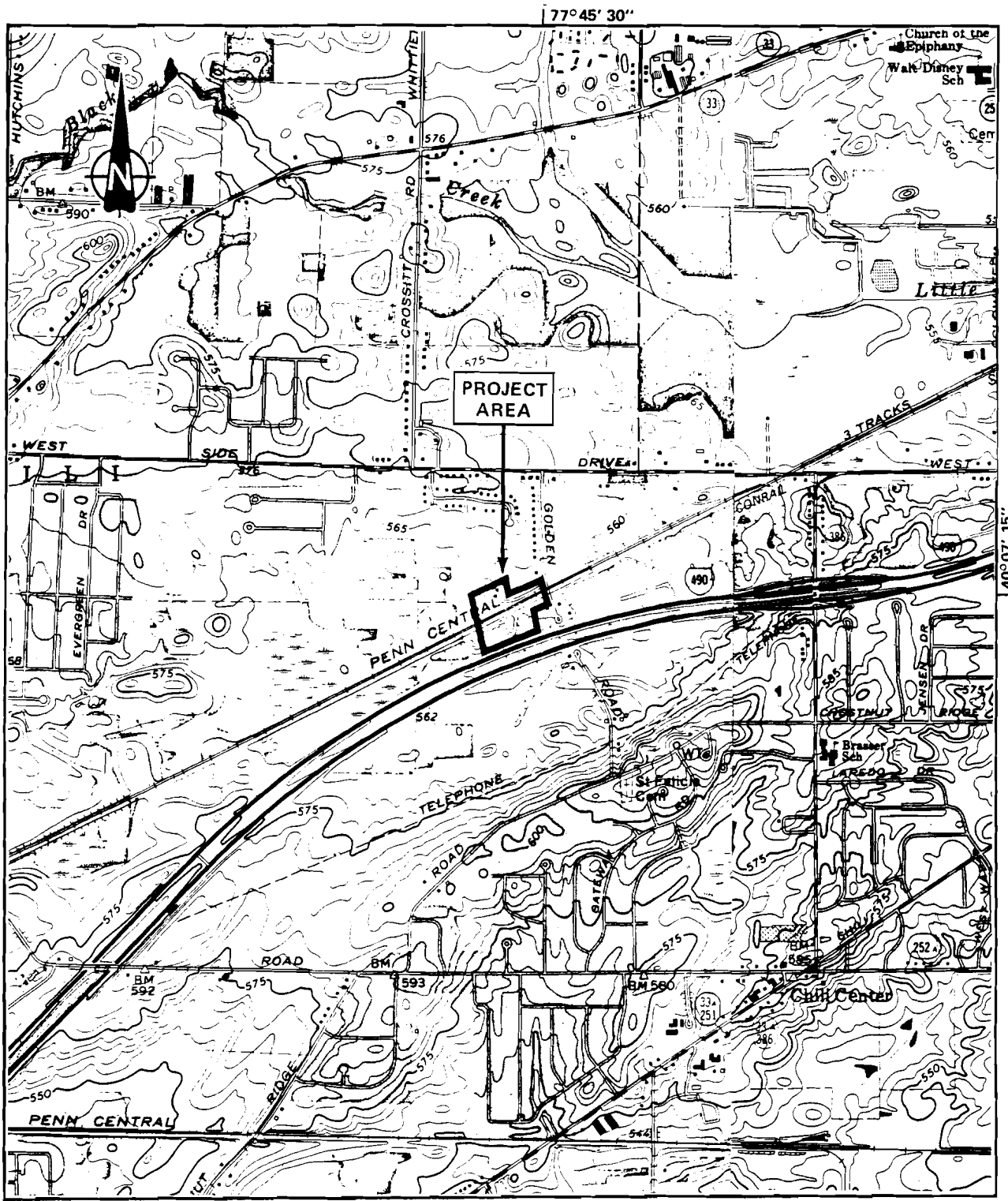
g. Controlled site access? [ ] Yes  No l. For Class 2: Priority category \_\_\_\_\_

h. Documented fish or wildlife mortality? [ ] Yes  No m. HRS Score 28.06

i. Impact on special status fish or wildlife resource? [ ] Yes  No n. Significant threat  Yes \_\_\_\_\_ [ ] No  
[ ] Unknown

|   |   |  |
|---|---|--|
| 13. Site owner's name<br>Howard Fitzsimons, Jr.   | 14. Address<br>227 Golden Road, Chili, NY | 15. Telephone Number<br>(716) 594-2335 |
| 16. Preparer<br><u>James D. Griffis, CHMM</u> Ecology and Environment Engineering, P.C.<br>Name, title, and organization<br><u>2/5/92</u> <u>James D. Griffis</u><br>Date Signature |   |  |
| 17. Approved<br>_____<br>Name, title, and organization<br>_____<br>Date Signature   |   |  |

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SOURCE: USGS 7.5 Minute Series (Topographic) Quadrangle; Clifton, NY, 1971; West Henrietta, NY, 1971; Rochester, NY, 1971; Spencerport, NY, 1971; All (Photorevised 1978).

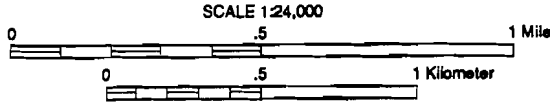


Figure 1-1  
LOCATION MAP: GOLDEN ROAD DISPOSAL SITE

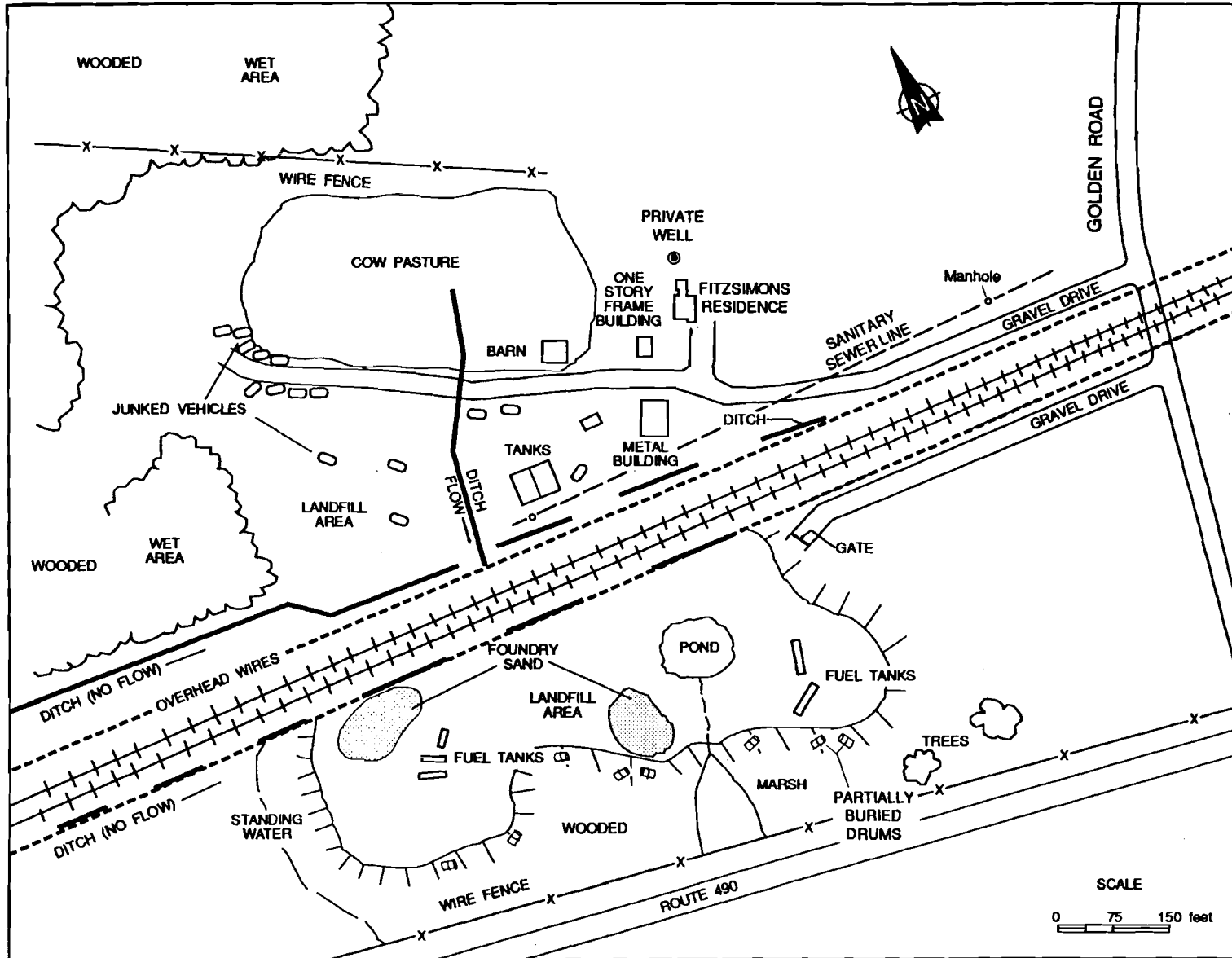


Figure 1-2  
SITE SKETCH OF GOLDEN ROAD DISPOSAL SITE

## 2. OBJECTIVE

This Phase II investigation was conducted under contract to the NYSDEC Division of Hazardous Waste Remediation, Bureau of Hazardous Site Control. The objective of the Phase II investigation was to determine if hazardous wastes have been disposed of at the site, if contaminants exist in the various media (air, groundwater, and soils), and whether threats to human health and the environment exist. Information gathered relative to the above will allow NYSDEC to reclassify the site or, if warranted, delist it.

The Phase II investigation was designed to supplement existing data for the Golden Road Disposal site and update the HRS score. Previous investigations conducted by Recra Research, Inc. in November 1983 have shown levels of cadmium and lead in private groundwater wells that exceed New York State drinking water standards. Also, cadmium, benzene, and toluene were found in the surface water on site. No surface or subsurface soil data for the site were available prior to the Phase II study.

### 3. SCOPE OF WORK

#### 3.1 INTRODUCTION

Field work for the Phase II investigation at the Golden Road site was based on a work plan prepared by NYSDEC; the work began in June 1989 and was completed in February 1990. A site-specific health and safety plan (HSP) was submitted for review, and a quality assurance project plan (QAPP) was submitted to NYSDEC for approval prior to the start of field work. The work plan called for the installation of seven groundwater monitoring wells and the collection of groundwater samples from each monitoring well, as well as the collection of 15 surface water/-sediment samples, 11 surface soil samples, two waste samples, and two leachate samples. Based on the findings of the geophysical survey, two proposed well locations (GW-5 and GW-7) were moved due to significant electrical or magnetic anomalies and on-site access problems. Proposed monitoring well GW-5 was moved onto the fill area because of a steep grade and standing water at the originally proposed location, and GW-7 was moved 125 feet southwest of the original location due to the presence of surface interference to geophysical instruments caused by junked vehicles surrounding the proposed well location.

At the request of the on-site NYSDEC representative, one additional waste sample was collected from a partially buried drum containing a resin-like substance and eight additional surface water/sediment samples were collected along the railroad drainage ditch. The sample from the drum was submitted for full TCL analysis while the samples from the drainage ditch were analyzed for PCBs/pesticides only.

## **3.2 PHASE II SITE INVESTIGATION**

### **3.2.1 Records Search/Data Compilation**

Available information from state, county, municipal, and private files were collected and reviewed prior to the initiation of field work. Records from local and state agency files were reviewed to supplement the Phase I report prepared by Recra Research, Inc. in November 1983. The data review facilitated completion of the field investigation and site assessment and calculation of the final HRS score. Specific contacts are listed in Table 3-1.

### **3.2.2 Site Reconnaissance and Site Safety**

At the beginning of each day of field activities, a site safety meeting was conducted by the site safety officer or the team leader. Discussions included the contaminants found on site, routes of exposure, the route to the hospital, location of the nearest phone, and the use of the air monitoring instruments. Also, a general plan of the site activities for the day was discussed. Each person on site was requested to sign the attendance sheet from these meetings. A site specific HSP was available to all personnel at all times (see Appendix A).

On May 9, 1989, E & E personnel conducted a site reconnaissance. The purposes of the site visit were to:

- o Identify access problems;
- o Identify tentative locations for borings and wells, surface soil, surface water/sediment, waste, and leachate samples;
- o Visually inspect well locations and contact utility companies to determine if underground or aboveground utilities may impact drilling.
- o Identify a water supply source for drilling purposes;
- o Conduct a limited air monitoring study using an HNu photoionization detector; and
- o Photodocument present site conditions.

The air monitoring survey indicated no organic vapor readings above background from any area tested. The site contained large amounts of metal debris on the surface, which caused interference with geophysical



instrumentation. Access appeared to be limited to GW-1 by power lines and a drainage ditch, to GW-2 by trees and a sharp change in grade, and to GW-5 by ponded water and steep grade. Actual site conditions during the site reconnaissance have been photodocumented and are presented in Appendix B, and field logbooks are included in Appendix I.

### 3.2.3 Geophysical Survey

Geophysical surveys utilizing an EM31 ground conductivity meter and a proton precession magnetometer were performed at the Golden Road site on May 17, 1989. These surveys were conducted at the seven proposed monitoring well locations within and around the perimeter of the site (see Figure 3-1). The results were used to determine site geological conditions, locate buried materials, verify proposed monitoring well locations, and identify any conductive subsurface plumes. The geophysical survey methods and results are presented in Appendix C, and field logbooks are included in Appendix I.

### 3.2.4 Monitoring Well Installation

Five shallow overburden wells were installed at the Golden Road site between August 22 and August 29, 1989 and two on January 9, 1990 by Empire Soil Investigations, Inc. under the supervision of Om Popli. Two of the wells were installed in January due to delays incurred in obtaining a permit to drill on New York State Department of Transportation (NYSDOT) property. The permit was issued by NYSDOT with co-approval of the United States DOT. The wells monitor shallow groundwater in the overburden, both up- and downgradient of the site (see Figure 3-2 and Table 3-2).

The wells were drilled using an Acker AD-2 hollow-stem auger rig and constructed in accordance with NYSDEC guidelines. Two-foot soil samples were collected in 5-foot intervals above the water table and continuously below the water table using a 2-inch outside diameter (OD) split-spoon sampler driven by a 140-pound safety hammer with a 30-inch free fall. Additional split-spoon samples were taken where major changes in lithology occurred. Seven soil samples were collected for geotechnical analyses along with one sample for chemical analysis (GW-7, 17 to 19 feet). The last sample was collected because of elevated

organic emissions above background levels detected from the split-spoon sample. No visible contamination was observed.

The boreholes were advanced using 4.25-inch inside diameter (ID) hollow-stem augers until refusal at top of bedrock. All wells were set in the overburden, just above bedrock. Well screen consisting of 2-inch ID 0.010 machine-slot polyvinyl chloride (PVC) was set at the bottom of each borehole, above the top of bedrock. Screen length varied from 5 feet (GW-1 and GW-2) to 7 feet (GW-6 and GW-7) to 10 feet (GW-3, GW-4, and GW-5). The screens were followed by threaded, flush-joint PVC riser of the same diameter as the well screen to approximately 2 feet above ground surface. The wells were completed with a sand pack extending 1 foot above the top of the well screen in GW-1 and GW-2, and 2 feet in the other wells, followed by 1 foot of bentonite pellets in GW-1 and GW-2 and 2 feet in the other wells, followed by bentonite grout. These differences were the result of differing depths to groundwater and the need to screen across the water table. A locking protective steel casing was placed over the PVC and a concrete pad was constructed on the ground surface around the protective casing.

After completion of the well, but not sooner than 24 hours after grouting was completed, the well was developed using air surging. Well development was performed until pH, conductivity, and temperature remained constant.

A decontamination pad was constructed on site to steam clean the drill rig, augers, bits, rods, split-spoons, casings, etc. before and after the installation of each well. Split-spoons were decontaminated at each drill site between each sample to prevent cross-contamination of samples. A trisodium phosphate solution, tap water rinse, pesticide-grade methanol rinse, and triple deionized water rinse were used successively.

Boring logs are found in Appendix D, geotechnical analyses are included in Appendix E, and field logbooks are included in Appendix I.

### 3.2.5 Subsurface Soil Sampling and Analysis

During the installation of the seven monitoring wells (GW-1 through GW-7), one subsurface soil sample was collected on August 23, 1989 for chemical analysis. The sample was collected from GW-7 at a depth of 17

to 19 feet as requested by the NYSDEC site representative due to an organic odor present from the split-spoon sample. The sample was analyzed for TCL organics and inorganics by E & E's Analytical Services Center (ASC). In addition, quality assurance/quality control (QA/QC) samples consisting of one matrix spike/matrix spike duplicate (MS/MSD) sample (GW-7MS/GW-7MSD) were analyzed for volatile organic compounds. Analyses and reporting were performed following the NYSDEC Contract Laboratory Protocol (CLP) of November 1987.

Seven subsurface soil samples were collected for geotechnical analyses. Three were analyzed for grain size and four for Atterberg limits. Each of these samples was chosen because it lay within the screened depth of the well.

Field procedures for subsurface soil sampling are discussed in Section 3.2.4. Geotechnical analyses are included in Appendix E. Analytical results are discussed in Section 4.5 and raw data summary sheets are included in Appendix F.

### **3.2.6 Groundwater Sampling and Analysis**

As part of the Phase II investigation of the Golden Road site, water level measurements and groundwater samples were collected from the seven newly installed monitoring wells on February 6 and 7, 1990 (see Figure 3-2 and Table 3-2). The wells were purged of three to five well volumes of water after recording the water level, then sampled using dedicated PVC bailers. Although the wells were properly developed and purged prior to sampling, the groundwater samples were very silty during sample collection. These samples were analyzed for TCL organics and inorganics by E & E's ASC. In addition, QA/QC samples consisting of a drill rig water sample were analyzed for the above-mentioned compounds. MS/MSD samples were analyzed for volatile organics (GW-6MS/GW-6MSD), BNAs (drill rig MS/drill rig MSD), and PCBs/pesticides (GW-4MS/GW-4MSD and drill rig MS/drill rig MSD).

Analytical results are discussed in Section 4.5 and raw data summary sheets are included in Appendix F. Field procedures for groundwater sampling are presented in Appendix G.

### **3.2.7 Surface Water/Sediment Sampling and Analysis**

Twenty-three surface water/sediment samples were collected on February 6, 8, 9, and 12, 1990 from intermittent streams, wetlands, ponds, storm sewers, and railroad ditches surrounding the site (see Figure 3-2 and Table 3-3). Fifteen of the samples were analyzed for TCL organics and inorganics and eight for PCBs/pesticides only. Surface water/sediment location SW-13/SED-13 was not sampled due to dry conditions. All analyses were performed by E & E's ASC. In addition, QA/QC samples consisting of surface water MS/MSD samples were analyzed for volatile organics (SW-14MS/SW-14MSD), BNAs (SW-11MS/SW-11MSD and SW-12MS/SW-12MSD), and PCBs/pesticides (SW-19MS/SW-19MSD). Sediment MS/MSD samples were analyzed for volatile organics (SED-8MS/SED-8MSD, SED-10MS/SED-10MSD, SED-14MS/SED-14MSD, and SED-15MS/SED-15MSD), BNAs (SED-11MS/SED-11MSD), and PCBs/pesticides (SED-16MS/SED-16MSD).

Analytical results are discussed in Section 4.5, raw data is presented in Appendix F, and field procedures used are described in Appendix G.

### **3.2.8 Surface Soil Sampling and Analysis**

Eleven surface soil samples were collected from various areas throughout the site on June 15, 1989 (see Figure 3-2 and Table 3-4). These samples were analyzed for TCL organics and inorganics by E & E's ASC. In addition, a QA/QC sample consisting of one MS/MSD sample (S-9MS/S-9MSD) was analyzed for all of the above-mentioned parameters except BNAs.

Analytical results are discussed in Section 4.5, raw data are presented in Appendix F, and field procedures are described in Appendix G.

### **3.2.9 Waste Sampling and Analysis**

Two waste samples consisting of foundry sand were collected on June 15 and one of a resin-like substance from a partially buried drum was collected on August 24, 1989 (see Figure 3-2 and Table 3-5). These samples were analyzed for TCL organics and inorganics by E & E's ASC. In addition, a QA/QC sample consisting of one MS/MSD sample (W-3MS/W-3MSD) was also analyzed for volatile organics. Analytical

results are discussed in Section 4.5, raw data are presented in Appendix F, and field procedures are described in Appendix G.

#### **3.2.10 Leachate Sampling and Analysis**

Two leachate samples were collected along the northern edge of the southern portion of the site at apparent outbreaks (see Figure 3-2 and Table 3-5). One sample, L-1, collected June 15, 1989, was mostly aqueous in nature. The second leachate sample, L-2, collected February 8, 1990, contained frozen stained soil/sediment. The samples were analyzed for TCL organics and inorganics by E & E's ASC. For QA/QC purposes, the aqueous leachate sample was grouped with the other water samples and the soil/sediment sample was grouped with the other sediment samples.

Analytical results are discussed in Section 4.5, raw data are presented in Appendix F, and field procedures are described in Appendix G.

Table 3-1

SOURCES CONTACTED FOR THE NYSDEC PHASE II INVESTIGATION  
AT THE GOLDEN ROAD DISPOSAL SITE

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New York State Department of Health  
Bureau of Environmental Exposure  
2 University Place  
Room 205  
Albany, New York 12203  
Contact: Mary Ketter  
Telephone Number: 716/847-4551  
Date: April 6, 1989  
Information Gathered: File search for NYSDEC Phase II report preparation.

New York State Department of Environmental Conservation  
584 Delaware Avenue  
Buffalo, New York 14202  
Contact: Jaspal Singh Walia  
Telephone Number: 716/847-4585  
Date: March 27-28, 1989  
Information Gathered: File search for NYSDEC Phase II report preparation.

Monroe County Environmental Management Council  
65 Broad Street  
Terminal Building, Room 203  
Rochester, New York  
Contact: Louise Hartshorn  
Telephone Number:  
Date: April 13, 1989  
Information Gathered: Monroe aerial photos and water service maps of NYSDEC Phase II sites. Monroe County Department of Health was present at this meeting.

County of Monroe  
Department of Planning  
47 South Fitzhugh Street, Suite 200  
Rochester, New York  
Contact: Andy Wheatcraft  
Telephone Number: 716/428-5335  
Date: March 29, 1989  
Information Gathered: Land use and census data for Monroe County NYSDEC Phase II sites.

New York State Department of Environmental Conservation  
Bureau of Hazardous Site Control  
50 Wolf Road  
Albany, New York 12233  
Contact: Mike Ryan and Jane Thapa  
Telephone Number: 518/457-9538  
Date: April 3-4, 1989  
Information Gathered: File search for additional data and NYSDEC Phase I reports.

New York State Department of Health  
Bureau of Environmental Exposure  
2 University Place  
Room 205  
Albany, New York 12203  
Contact: Lana D. Rafferty  
Telephone Number: 518/458-6308  
Date: April 3-4, 1989  
Information Gathered: Viewed site inspection reports for NYSDEC Phase I sites.

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Table 3-1 (Cont.)

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New York State Department of Environmental Conservation  
Division of Regulatory Affairs  
600 Delaware Avenue  
Buffalo, New York 14202  
Contact: Mary Ketter  
Telephone Number: 716/847-4551  
Date: April 6, 1989  
Information Gathered: File search.

Monroe County Water Authority  
475 Noris Drive  
Rochester, New York  
Contact: Tom Stein  
Telephone Number: 716/422-2000  
Date: June 16, 1989  
Information Gathered: Water use information for NYSDEC Golden Road site.

New York State Department of Environmental Conservation  
Information Services/Significant Habitat Unit  
Wildlife Resources Center  
700 Troy-Schenectady Road  
Latham, New York 12110-2400  
Contact: John Ozard  
Telephone Number 518/783-5733  
Date: May 2, 1989  
Information Gathered: Information on designated critical habitats with respect to  
NYSDEC Phase II sites.

Monroe County Department of Maps and Surveys  
39 West Main Street, Room 304  
Rochester, New York  
Contact: Andies Hrycaj  
Telephone Number: 716/428-5461  
Date: April 3, 1989  
Information Gathered: Orthophoto maps of Monroe County NYSDEC Phase II site, tax  
maps for Golden Road site.

New York State Department of Environmental Conservation, Region 8  
Division of Hazardous Waste  
6274 East Avon-Lima Road  
Avon, New York  
Contact: Todd Caffoe  
Telephone Number: 716/226-2466  
Date: March 28, 1989  
Information Gathered: File search for NYSDEC Phase II reports.

New York State Department of Environmental Conservation  
Water Division  
600 Delaware Avenue  
Buffalo, New York 14202  
Contact: Rebecca Anderson  
Telephone Number: 716/847-4590  
Date: January 24, 1990  
Information Gathered: Flood Insurance Rate Maps

Monroe County Economic Development Office  
1 West Main Street, Suite 600  
Rochester, New York  
Contact: Melissa Brookmire  
Telephone Number: 716/428-4504  
Date: March 28, 1989  
Information Gathered: Population figures for Town of Chili.

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Table 3-2  
WATER LEVEL DATA

| Well | Date Measured | Water Level Below Ground Surface (feet) | Relative Elevations <sup>a</sup> (feet)   |                                       |                                |
|------|---------------|---|---|---------------------------------------|--------------------------------|
|      |               |   | Relative Elevation at T.O.C. <sup>b</sup> | Relative Grade Elevation <sup>c</sup> | Relative Water Level Elevation |
| GW-1 | 2/7/90        | 3.2                                     | 351.18                                    | 349.0                                 | 345.8                          |
|      | 3/8/91        | 2.9                                     |   |                                       | 346.2                          |
| GW-2 | 2/7/90        | +0.5                                    | 348.12                                    | 346.1                                 | 346.6                          |
|      | 3/8/91        | 0.2                                     |   |                                       | 345.9                          |
| GW-3 | 2/7/90        | +1.5                                    | 347.65                                    | 345.5                                 | 347.0                          |
|      | 3/8/91        | +1.9 (flowing)                          |   |                                       | 347.5                          |
| GW-4 | 2/7/90        | +2.1 (flowing)                          | 347.93                                    | 345.8                                 | 347.9                          |
|      | 3/8/91        | +2.1 (flowing)                          |   |                                       | 347.9                          |
| GW-5 | 2/7/90        | 5.2                                     | 353.50                                    | 351.1                                 | 345.9                          |
|      | 3/8/91        | 4.5                                     |   |                                       | 346.6                          |
| GW-6 | 2/6/90        | +0.7                                    | 348.65                                    | 346.5                                 | 347.2                          |
|      | 3/8/91        | +1.8                                    |   |                                       | 348.4                          |
| GW-7 | 2/6/90        | 4.3                                     | 351.60                                    | 349.5                                 | 345.3                          |
|      | 3/8/91        | 1.7                                     |   |                                       | 347.8                          |

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<sup>a</sup>Elevations are not true elevations, but an on-site reference point (i.e., a railroad spike in Rochester Gas and Electric Power Pole No. 13 with an assumed elevation of 350.00 feet above mean sea level).

<sup>b</sup>T.O.C. = Top of steel casing.

<sup>c</sup>Grade elevations reported to the tenth of an inch only.

+Water level measured within the well casing at an elevation above ground surface.

Note: Water levels were measured to the nearest 0.01 foot using an electronic audible water level meter.



Table 3-3

## SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS

| Sample Number                 | Location                  |
|-------------------------------|---------------------------|
| SW-1/SED-1                    | Wetlands southeast        |
| SW-2/SED-2                    | I-490 intermittent stream |
| SW-3/SED-3                    | South intermittent stream |
| SW-4/SED-4                    | Wetlands south            |
| SW-5/SED-5                    | Wetlands southwest        |
| SW-6/SED-6                    | Railroad ditch            |
| SW-7/SED-7                    | Railroad ditch            |
| SW-8/SED-8                    | On-site pond/south        |
| SW-9/SED-9                    | Railroad ditch            |
| SW-10/SED-10                  | Railroad ditch            |
| SW-11/SED-11                  | Invert of storm sewer     |
| SW-12/SED-12                  | Wetlands north            |
| SW-13/SED-13<br>(not sampled) | Wetlands north center     |
| SW-14/SED-14                  | Wetlands west             |
| SW-15/SED-15                  | Wetlands northwest        |
| SW-16/SED-16                  | Off-site railroad ditch   |
| SW-17/SED-17                  | Off-site railroad ditch   |
| SW-18/SED-18                  | Off-site railroad ditch   |
| SW-19/SED-19                  | Off-site railroad ditch   |
| SW-20/SED-20                  | Off-site railroad ditch   |
| SW-21/SED-21                  | Off-site railroad ditch   |
| SW-22/SED-22                  | Off-site railroad ditch   |
| SW-23/SED-23                  | Off-site railroad ditch   |

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**Table 3-4**  
**SURFACE SOIL SAMPLING LOCATIONS**

| Sample | Location                                       |
|--------|--|
| S-1    | Along the east side of the southern fill area  |
| S-2    | Along the east side of the southern fill area  |
| S-3    | Along the east side of the southern fill area  |
| S-4    | Along the south side of the southern fill area |
| S-5    | Along the south side of the southern fill area |
| S-6    | Along the south side of the southern fill area |
| S-7    | Along the north side of the southern fill area |
| S-8    | Along the south side of the southern fill area |
| S-9    | Adjacent to GW-7                               |
| S-10   | Along the west side of the northern fill area  |
| S-11   | Along the west side of the northern fill area  |

[UZ]YN4080:D2833, #2885, PM = 33

Table 3-5

WASTE AND LEACHATE SAMPLING LOCATIONS

| Sample                 | Location   |
|------------------------|--|
| W-1                    | Foundry sand from the northwest end of the southern fill area  |
| W-2                    | Foundry sand from the central portion of the southern fill area  |
| W-3                    | Resin-like substance from a partially buried drum adjacent to GW-5 near the western edge of the southern fill area |
| L-1<br>(aqueous)       | Along the north edge of the southern fill area   |
| L-2<br>(soil/sediment) | Along the north edge of the southern fill area   |

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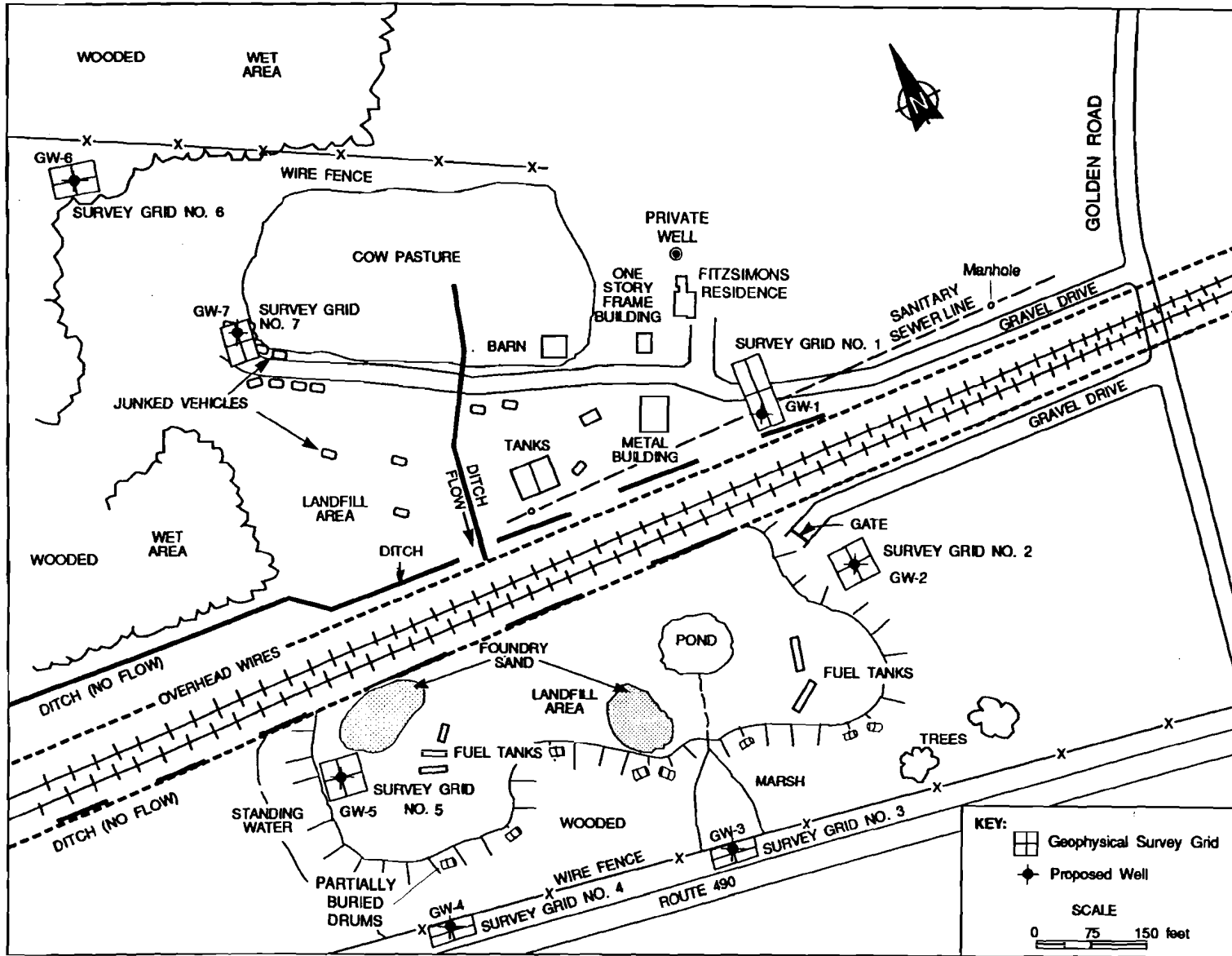
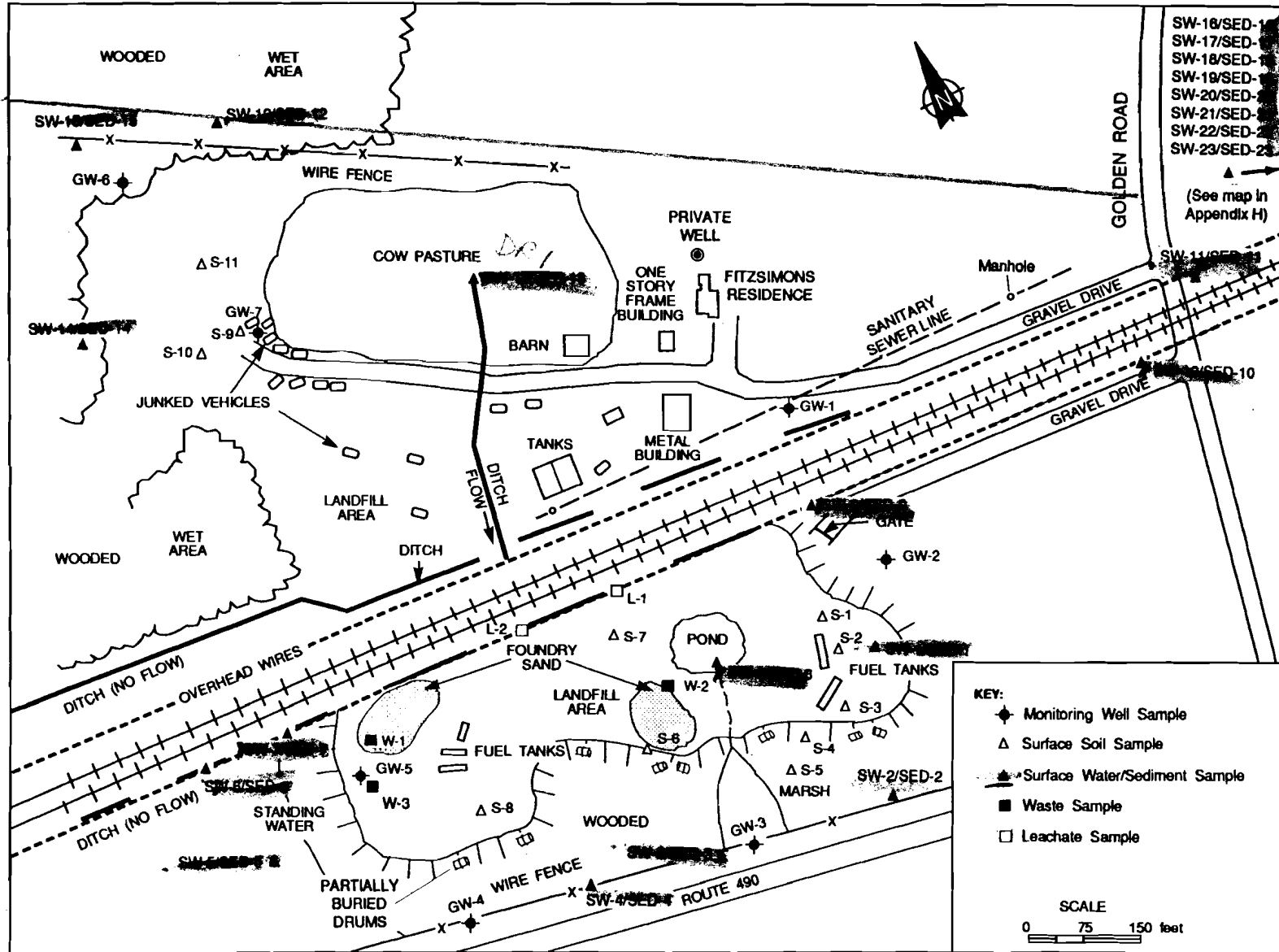


Figure 3-1  
GEOPHYSICAL SURVEY AND PROPOSED GROUNDWATER MONITORING WELL LOCATIONS



**Figure 3-2**  
**MONITORING WELL, GROUNDWATER, SURFACE WATER, SURFACE WATER/SEDIMENT, SURFACE SOIL, WASTE, AND LEACHATE SAMPLING LOCATIONS**

*Handwritten notes:*  
 PCB  
 (See map in Appendix H)

*Handwritten notes:*  
 10/10/00  
 10/10/00

## 4. SITE ASSESSMENT

### 4.1 SITE HISTORY

The Golden Road site is an 8-acre, private parcel of land that was used as a fill area, located in a once-rural area of the Town of Chili, Monroe County, New York. The site is divided into two separate areas (north and south) by Conrail railroad tracks. The northern area is presently occupied by the site owner, Mr. Howard Fitzsimons, Jr.

The Fitzsimons residence is a two-story dwelling set back approximately 600 feet to the west of Golden Road. The property is bounded by active Conrail tracks to the south and wooded wetlands to the north and west. The area is open and currently used as a cow pasture. There are numerous junked vehicles, several aboveground storage tanks that once contained fuel oil from Chili Fuels, and a metal storage building along the southern border of this northern section. The storage building belongs to Mr. Fitzsimons and was used for general storage, maintenance, and repair of equipment. An 18-inch transit sanitary sewer line (cement/asbestos) is present north of and parallel to the railroad lines. The sewer line is approximately 12 feet below the ground surface. The dates of installation and purpose of this sewer line could not be confirmed.

*Need  
Soils  
...  
...  
...  
...*

The southern area of the site is currently inactive. This area is characterized by areas of fill (foundry sand from Abex Corporation), surrounded by wooded wetlands to the south and west, Conrail tracks to the north, and a wooded area to the east. The fill area contains very large, empty steel storage tanks and scrap metal on the surface, and partially buried drums on the southern border. Both areas lie immediately adjacent to Class II designated wetlands and are characterized by poor drainage and a high water table. Extensive landfilling has

elevated the site surface approximately 10 feet above the surrounding terrain.

The Golden Road site was filled from 1955 through 1976 by Mr. Howard Fitzsimons, Jr., the sole owner. The site received a wide variety of wastes including U.S. Army artillery shell casings from the 98th Division Reserve Unit (Fitzsimons 1991), household refuse, metal slag, fly ash, and junked vehicles. No live ammunition was disposed of on site. Much of the actual filling of the site was accomplished using foundry sand hauled from Abex Corporation.

Prior to 1985, several hundred rusted, leaking 55-gallon drums were piled in several places, some of which were lying in the impounded water of the wetlands to the south of the Conrail tracks. The drums originated from the U.S. Army Reserve unit, Chevron Oil, and unknown illegal dumping. In 1985, an emergency drum removal project was completed by an EPA contractor, and approximately 560 drums were removed from the site. However, partially buried drums are still visible on site, and additional buried drums may be present. Environmental testing revealed the presence of chlorinated and nonchlorinated solvents, high total organic carbon, organic solids with low flashpoints, PCBs, and waste oils.

A large number of junk vehicles exist on the northern section of the property behind the Fitzsimons residence and the large metal storage building. The Fitzsimons residence is served by a private well located approximately 40 feet to the north of the residence; however, most of the surrounding area is serviced by public water. Also located on the site are a great deal of structural steel debris and fuel tanks. There are no records of the volumes of the various types of waste that entered the Golden Road site.

## **4.2 REGIONAL SETTING**

### **4.2.1 Regional Geology and Hydrology of Monroe County**

Monroe County lies within the Central Lowland Physiographic Province (Eastern Lake Section). The county is primarily mantled by glacial till and laminated lacustrine clay and silt deposits. The till consists of unconsolidated, poorly-sorted clay, silt, and/or sand deposits of relatively low permeability (loamy matrix). Till thickness ranges from 1 to 165 feet. Lacustrine deposits span southward for

nearly 10 miles from the southern shore of Lake Ontario and exhibit moderate bedding-plane permeability. Lacustrine deposits vary up to 165 feet. Eskers, trending southwest, exist in the western part of the county. The area between Rochester and Syracuse, just east of the site, has been estimated to include approximately 10,000 drumlins (Broughton et al. 1973).

Outcropping of bedrock is sporadic but occurs along the Genesee River, Sibleyville Gravel Pit, Honeyoe Falls, and State Route 386 (approximately 1 mile south of South Greece). The bedrock in the region is exclusively sedimentary and nearly flat-lying, dipping south-southwest approximately 40 feet per mile. Although the bedrock dips southward, the land surface increases in elevation to the south. Therefore, the bedrock units are progressively younger from north to south.

This discussion focuses on five distinct bedrock groups that occur between the southern shore of Lake Ontario and the New York State Thruway (see Figure 4-1). These sedimentary units are all located beneath the Golden Road site and act as the primary controls on regional groundwater flow. The oldest unit, upper Ordovician in age, is the predominantly red shale of the Queenston Formation. Commonly, thin green shale beds and green mottling are present. When weathered, these shales form the sticky red clay of the Lake Ontario Plain. The Queenston is approximately 700 to 1,100 feet thick.

Groundwater occurs principally within a fractured and weathered zone at the top of the Queenston Shale. Most wells penetrating the Queenston draw water from both the Queenston and the overlying deposits (Johnston 1964).

Overlying the Queenston Formation is the Lower Silurian Grimsby Formation of the Medina Group. The basal portion of the Grimsby consists of red shales with interbedded red sandstones. The upper Grimsby is very distinct in that it is green and white mottled with numerous depositional features such as cross-bedding, ripple marks, and sole marks. Its thickness is reported to be 70 feet at Medina in neighboring Orleans County.

The rock units of the Clinton Group, which overlie the Medina Group, are highly fossiliferous, with lithologies that are more diverse than any other bedrock group in this report. Rock units of the Clinton



Group include shale, sandstone, hematite, limestone, and dolostone. The total thickness of the Clinton Group is more than 170 feet.

Generally, the limestones and sandstones are the water-bearing units within the Clinton Group. These rock units contain both vertical and bedding-plane joints. However, the Rochester Shale of the upper Clinton is relatively impermeable and impedes recharge to the underlying, more permeable limestones and sandstones, thus making the Clinton a less productive aquifer than the Lockport Group which lies above. The Lockport Group, which underlies the site, is considered a primary source of groundwater throughout the area. Three types of bedrock openings in the Lockport Group contain the groundwater: bedding planes, vertical fractures, and solution cavities.

The bedding planes, which transmit most of the water in the Lockport Group, and vertical fractures have been widened by up to 1/8 inch by dissolution of the surrounding rock. These fractures extend several miles, thus constituting effective water conduits.

The vertical joints of the Lockport Group are generally too short and sparse to account for significant groundwater storage and transmission, except in the top 10 to 25 feet of bedrock (Oak Orchard Formation). Furthermore, solution cavities, formed when gypsum is dissolved, are present, but are not important components of groundwater flow in the aquifer. Although they increase the porosity of the rock, they are isolated and do not contribute to groundwater transmission.

Overlying the Lockport Group is the upper Silurian Vernon Formation of the Salina Group. This 300-foot-thick red shale serves as a confining layer for the overlying, more permeable, unconsolidated deposits found at the site. Interbedded shale and salt formations, the Syracuse and Camillus, of the Salina Group contain numerous cavities formed by dissolution of salt and gypsum and are very productive aquifers. These formations, as well as the Bertie and Akron formations of the Salina Group, are not present at the site. They can be located, however, in close proximity to the south. The Akron and Bertie carbonate units contain water in bedding joints widened by dissolution. Very little groundwater is found in the Devonian formations above the Salina Group. These formations, principally shale, are relatively impermeable. Some water transmission occurs in small fractures in the bedrock, but no

wells of significant yield are found in these units. In central New York, south of the site, groundwater is obtained mainly from glacial overburden deposits.

The depth of the Precambrian basement, which underlies all of the above-mentioned sedimentary units, increases from approximately 2,000 feet at the northern border of Monroe County to nearly 4,000 feet at its southern border (Broughton et al. 1966). There is only one well documented within the county that reaches the Precambrian.

The only noteworthy structure is a system of vertical to sub-vertical joints that are pervasive throughout the sedimentary units described above. In this region, the joints strike in numerous directions, thereby generally permitting bedrock to transmit groundwater flow in the direction of the hydraulic gradient.

### 4.3 SITE GEOGRAPHY

#### 4.3.1 Topography

The Golden Road site is located in the Central Lowlands (Eastern Lake section) Physiographic Province of the United States. This section consists of the plains region, which is covered by a young blanket of glacial till (Pirkle and Yoho 1977). The glacial deposits in the vicinity of the site are uneven and undulating, resulting in well-developed hilly areas with elevations up to 900 feet above mean sea level (AMSL) (Sweet et al. 1938).

The ground surface over the site is uneven, but generally flat-lying. There are several mounds of foundry sand and other fill, and several depressions containing ponds and wetlands. The fill areas are generally 5 to 10 feet above natural grade. The site is located at an elevation of approximately 560 feet AMSL (United States Geological Survey [USGS] 1971).

The site is located in Zone C of the Flood Insurance Rate Map (FIRM). The actual panel (Community Panel No. 3604120010A) prepared by the Federal Emergency Management Agency (FEMA) for this area is not printed because Zone C represents areas of minimal flooding.

#### 4.3.2 Soils

Four soil types have been identified surrounding the landfill area within the boundaries of the property. These soils are represented by

the Schoharie silty clay loam to the north of the railroad tracks, Poygan silt loam to the north and south of the railroad tracks, Colwood loam to the west of the fill areas, and Ontario loam to the north of the Schoharie silty clay loam (Heffner and Goodman 1973; Sweet et al. 1938).

The Schoharie silty clay loam consists of a silty clay loam surface layer with a dull Indian-red clay subsoil. The substratum consists of alternating layers of red clay and sandy material. This soil is usually found in nearly level areas, and exhibits a pH of 6.3 to 7.5 with depth.

The Poygan silt loam is slightly lighter brown in the surface soil than Poygan silty clay loam, lighter in texture, and better drained. The Poygan silty clay loam has a very coarse, granular surface soil. This is underlain by a reddish-brown compact clay, followed by a compact sandy till. This soil occupies low, less drained areas when associated with Schoharie soil and exhibits a pH of 6.0 at the surface.

The Colwood loam consists of a granular loam of fine, light texture at the surface, followed by a light-textured sandy soil. The subsoil consists of sandy clay to fine sandy loam. The lower subsoil layer ranges from a sandy clay to a fine sandy loam. These soils usually occur in poorly-drained areas.

The Ontario loam consists of a friable, fine-textured loam with some small irregular sandstone gravel at the surface, and is underlain by a loam of light texture and loose friable consistency, also containing gravel. The subsoil is composed of a compact, very gravelly material consisting of small rock fragments.

Soil borings at the Golden Road site (see Appendix D) generally indicated the presence of fill material averaging 3 feet in thickness and possibly as thick as 18 feet in the vicinity of GW-5. However, recovery during split spooning at GW-5 was insufficient to verify the depth of fill at that location (see Appendix I). This upper layer was usually a silty, gravelly sand. The soils underlying the fill consisted of various layers of silty sand, silty clay, and clay; followed by rock fragments and silt overlying the bedrock. Geotechnical analyses were performed on one sample from each well. The results of these analyses are presented in Table 4-1 and Appendix E.

#### 4.4 SITE HYDROGEOLOGY

The information used to develop the discussion in this subsection includes the Phase II geophysical survey, seven monitoring well borings and installations, USGS topographic maps (see Figure 1-1), geological survey maps (see Figure 4-1), and regional groundwater reports.

The boring logs are included in Appendix D, and geotechnical analysis results are presented in Appendix E.

##### 4.4.1 Geology

Bedrock underlying the soils at the Golden Road site varied in depth from 11.2 to 25.4 feet below ground surface. Drill log information is summarized in Table 4-2. The top of bedrock was shallowest along the eastern border of the fill areas, and deepest in the western portion of the southern section of the site. Top of bedrock dips to the southwest. The seven boreholes did not penetrate the bedrock.

The bedrock underlying the soils at the Golden Road site is the Lockport Dolomite of the Lockport Group. The formation is generally brownish-gray in color, medium to thick bedded, stylolitic dolomite, exhibiting parting (i.e., separations along planes), mineralized vugs, and poorly preserved fossils (Tesmer 1981). Throughout its outcrop and in the subsurface beneath the Devonian rocks, the Lockport maintains a nearly uniform thickness of 200 feet. It is also known for its diversity of mineral content (i.e., quartz, calcite, selenite and gypsum, dolomite, sphalerite, galena, pyrite, and fluorite). Although none of the minerals has been used on a commercial scale, the rock itself is quarried extensively for use as a crushed stone (Broughton et al. 1966).

##### 4.4.2 Hydrology

###### Groundwater

In general, regional groundwater flow in Monroe County is to the north toward Lake Ontario. The groundwater in Monroe County generally flows to the Genesee River or to Irondequoit Bay, which both flow northerly to northeasterly into Lake Ontario (Sweet et al. 1938). Regional groundwater in the vicinity of the site likely flows east toward the Genesee River or north to northwesterly toward the lake.

The terrain is variable across the site. From northeast to southwest, the features include a highland area with a maximum elevation above the landfill of approximately 25 feet, a low swampy area, the raised northern landfill area containing a pipeline parallel to the railroad tracks, a low railroad ditch, an elevated railroad track bed, a low railroad ditch, the southern landfill area, a low swampy area, the elevated Route 490 highway, a low swampy area, and a highland area with a maximum elevation above the landfill of approximately 55 feet. Many of the low areas were described as "wet with standing water" during field observations. Topographic maps of the area (USGS 1971, 1978) indicate possible drainage of these swampy areas is to the east and/or west.

The two landfill areas on site are large surface areas with a maximum elevated relief of 8 feet above the low areas. They are composed of a mixture of fill materials that include foundry sand underlain by finer undisturbed overburden material consisting of silt, clay, and some sand.

Seven groundwater monitoring wells were installed in the overburden at the Golden Road site. Three wells were installed in the northern section and four in the southern section. These wells were installed to establish whether contamination is present and migrating off site. The well locations are shown in Figure 3-2 and well construction data are presented in Table 4-3. Appendix D contains the boring logs, and water level data are shown in Table 4-4.

Groundwater encountered during drilling varied in depth from 7 to 15 feet below ground surface, or a relative site elevation of 340 to 333 feet. The groundwater levels in the completed wells varied in depth from approximately 2.1 feet above ground surface to 5.2 feet below ground surface or a relative site elevation of 347.9 to 345.25 feet.

This change in water levels between when the water-bearing zone was first encountered and after well completion indicates an upward vertical gradient. This upward gradient is caused by recharge to the aquifer from an area of higher potential. When a monitoring well intercepts a groundwater potential with a higher elevation than the elevation at which water was encountered, groundwater will rise to the elevation of

the intercepted potential in the well. In addition, a confining layer may be present. According to the boring logs (see Appendix D), the overburden materials are composed of predominantly silts and clays. These fine-grained materials may confine or partially confine the underlying coarser sandy silt and gravelly weathered bedrock zones in some locations.

Groundwater may mound in the landfill areas due to the differences in hydraulic conductivity between the fill, which is coarse and more permeable, and the underlying undisturbed overburden, which is finer and less permeable. Water flow, though the fill flows radially outwards, acting as a recharge area, is to the surrounding lower topographic areas. At this site, the lower areas consist of the swampy low lands and the railroad bed and ditches. If it can be assumed that the swampy conditions existed before the railroad bed was constructed, then the placement of coarser fill on the tighter overburden may have caused the coarser material to sink into the overburden over time and use. This would then provide a more permeable east-west channel for the preferential flow of the groundwater from the fill and the swampy low areas. This is only a hypothesis since all seven wells were screened below the tighter overburden layer.

An 18-inch transit sanitary sewer line (cement/asbestos) trending east-west is present north of and parallel to the railroad tracks (see Figure 1-2). The sewer line is approximately 12 feet below ground surface at the overburden-bedrock interface (Murphy 1991). The presence of this line appears to impact groundwater flow in the undisturbed overburden aquifer since a depression in the groundwater table was detected in the wells in the vicinity of the pipeline. It is possible that hydraulic communication can take place more readily between the fill and lower overburden due to the disturbance of the overburden from the pipeline's construction.

Route 490 may act as a small point of recharge to the groundwater but this is difficult to determine without knowing the drainage systems utilized or the details of construction. If the road has an impact on the site, it would be in contributing to the surface water and sediment samples taken between the south edge of the landfill and Route 490.

In summary, the Golden Road site may have a complex groundwater flow pattern. The mounding of the upper groundwater flow system within

the fill may flow radially outward to the outer lowland areas, the railroad bed, and possibly the sewer pipeline. The lower groundwater system may be partially confined. The monitoring wells that were screened in the lower groundwater flow system indicate groundwater flow to the east or northeast, possibly converging in on and possibly following a preferential flow along the sewer pipeline.

#### **Surface Water**

There are several surface water bodies located on the Golden Road site. Drainage ditches exist on both sides of the Conrail tracks. However, no flow was observed in these ditches during the field work. Standing water is located in the central portion and along the western and southern edges of the southern section of the site. These areas appeared to be stagnant and swampy and flow direction could not be determined. Little Black Creek is located approximately 1 mile north of the site and Black Creek is located 2 miles south of the site.

Little Black Creek is a Class C stream from its mouth to 1,000 feet above the Chili Avenue bridge, Class B to the Pixley Road bridge, and Class C to its headwaters. Tributaries to Little Black Creek are both Class B and C. Black Creek is Class C within a 3-mile radius of the project area. All tributaries to Black Creek within a 3-mile radius of the project area are Class C (Department of State 1983).

Best use for Class B waters is for primary contact recreation and any other use except as a source of water supply for drinking, culinary, or food processing purposes. The best use for Class C waters is for fishing and all other uses except as a source of water supply for drinking, culinary or food processing purposes, and primary-contact recreation (NYSDEC 1986).

#### **4.5 SITE CONTAMINATION ASSESSMENT**

Analytical data for the site contamination assessment are presented in Appendix F. For TCL organic compounds, all positive reported values and qualifiers for samples, field QC samples, and laboratory MS/MSD samples are presented on data summary forms. For TCL inorganics, CLP Form 1's are included for all samples and field QC samples.

All CLP data packages were reviewed to determine whether qualified data were acceptable for the intended use. In general, methylene

chloride, acetone, 2-butanone, and phthalate compounds are considered to be due to laboratory contamination and not evaluated if levels are less than five times the detection limit, when the values are qualified with a "B." In addition, hexane, which is also considered a laboratory contaminant, was often found in samples from the unknown compound search.

#### 4.5.1 Subsurface Soil from Well Borings

Only one subsurface soil sample was collected from one of the monitoring well borings (GW-7) and tested for TCL organics and inorganics. No other samples were collected due to the lack of organic vapor readings above background. Although this sample did not exhibit measurable organic vapors with the instrumentation, it was collected at a depth interval of 17 to 19 feet because of a discoloration and organic odor.

No organic compounds, PCBs/pesticides, or cyanide were detected; however, magnesium was detected slightly above the common range of metals in soils of the Eastern United States (see Tables 4-5 and 4-6).

#### 4.5.2 Groundwater

Groundwater samples were collected from each of the seven new monitoring wells and analyzed for TCL organics and inorganics. Monitoring wells GW-3 and GW-4 were considered upgradient and GW-1, GW-2, GW-5, GW-6, and GW-7 were considered downgradient. Although GW-3 and GW-4 are upgradient wells, they may be receiving water from the southern landfill due to a mounding effect. Table 4-7 contains field measurements of groundwater chemical parameters taken during well sampling.

Portions of the groundwater TCL organic data were qualified as unusable due to analytical problems caused by the lack of a re-extraction during the initial sample analysis or re-extraction performed over 50 days beyond holding times, thus resulting in very low surrogate recoveries. The unusable data included the BNA results for GW-4, GW-5, GW-6, and GW-7, and PCB/pesticide results for GW-2 and GW-6. In addition, PCB/pesticide results for GW-1, GW-3, GW-5, and GW-7 should be considered biased low. These analytical results were not used to determine the extent of contamination, however, the elimination of these results has no effect on the HRS scoring because the metals results yielded the maximum possible score. All metals and volatiles data are valid and usable.



The groundwater and drill rig water results for TCL organic compounds are summarized in Table 4-8. The groundwater contaminants were generally limited to trace levels of volatile organic compounds detected in GW-1, GW-6, and GW-7. Benzene detected in GW-1 and GW-6, ethylbenzene in GW-1, and vinyl chloride, chloroethane, 1,1-dichloroethane, and total-1,2-dichloroethene in GW-7 exceeded New York State drinking water standards.

Other petroleum-related volatiles such as toluene in GW-6 and total xylenes in GW-1 and GW-6 were also detected, indicating a potential petroleum contamination. The potential source of these contaminants in GW-1 may be activities associated with the storage of Chili Fuels trucks in the steel building to the west or the aboveground storage tanks behind that building. Monitoring well GW-6 may be intercepting the same petroleum plume as GW-1. Significant levels of chlorinated organic solvents such as chloroethane and 1,1-dichloroethane were found in GW-7, along with very low levels of tetrachloroethene and chlorobenzene in GW-6.

Drill rig water was taken from a local fire hydrant on Golden Road and placed in the drill rig water tank. The trihalomethanes detected in the volatile fraction of the sample analysis are typical of potable water sources using chlorination processes. The phthalate in the sample may be a laboratory artifact.

The following metals exceed New York State Class GA groundwater drinking water standards (see Table 4-9):

- o Arsenic in the unfiltered portion of GW-1;
- o Barium in the unfiltered portion of GW-2;
- o Cadmium and chromium in the unfiltered portion of GW-1, GW-2, and GW-5;
- o Copper in the unfiltered portion of GW-1 and GW-2;
- o Iron in the unfiltered portion of GW-4 and GW-5, and both the unfiltered and filtered portions of GW-1, GW-2, GW-3, GW-6, GW-7, and drill-rig water;
- o Lead in the unfiltered portion of GW-1, GW-2, GW-5, and GW-6;
- o Magnesium in both the unfiltered and filtered portions of GW-1 through GW-7;

- o Manganese in the unfiltered portions of GW-2, GW-3, GW-5, and GW-6, and both the unfiltered and filtered portions of GW-1 and GW-7;
- o Sodium in both the unfiltered and filtered portions of GW-1 through GW-7; and
- o Zinc in the unfiltered portions of GW-1, GW-2, and GW-5.

No PCBs/pesticides or cyanide were detected in any of the ground-water or drill water samples tested.

Groundwater was also sampled from two private drinking water wells located on Golden Road. The samples were collected by the Monroe County Department of Health (DOH) on October 30, 1990 and analyzed by the New York State DOH. The samples were collected from the site owner's (Fitzsimons) well located at 227 Golden Road and from the Hendrickson well located at 240 Golden Road (across the street and to the north of the site). Analytical results of these samples indicated no contaminants attributable to the site in the Hendrickson water sample and only low levels (below the NYSDEC Class GA drinking water standard) of trichloroethene (TCE) in the Fitzsimons water sample. These sample results are on file at the State and County DOH offices.

#### 4.5.3 Surface Water/Sediment

Twenty-two surface water/sediment samples were collected on and adjacent to the Golden Road site. Fourteen on-site samples were analyzed for TCL organics and inorganics and eight off-site samples (along the railroad drainage ditch) were analyzed for PCB/pesticides only. Sample SW-13/SED-13 in the north central portion of the site was not collected due to dry conditions.

Portions of the surface water TCL organic data were also qualified as unusable due to the same analytical problems stated in Section 4.5.2. The data include the BNA results for SW-1, SW-12, and SW-14, and PCB/pesticide results for SW-12. These analytical results cannot be used to determine the extent of contamination. The elimination of the results will have no effect on the HRS score because the metals and volatile results yielded the maximum possible score. All metals and volatiles data are valid and usable.

The surface water results for TCL organic compounds are summarized in Table 4-10. All surface water samples were free of contamination with the exception of very low levels (below sample quantitation limits) of benzene, toluene, and chlorobenzene in SW-7, toluene in SW-11, carbon disulfide in SW-12, and total polynuclear aromatic hydrocarbons (PAHs) in SW-1 and SW-9.

The following metals exceeded New York State Class C surface water regulatory standards for the protection of aquatic life (see Table 4-11):

- o Aluminum in SW-1 through SW-12, SW-14, and SW-15;
- o Cadmium in SW-1, SW-7, and SW-9;
- o Cobalt in SW-3;
- o Copper in SW-1, SW-7, SW-9, and SW-10;
- o Iron in SW-1 through SW-10, SW-12, SW-14, and SW-15;
- o Lead in SW-1, SW-2, and SW-4 through SW-10;
- o Nickel in SW-8;
- o Selenium in SW-1, SW-2, SW-7, and SW-10;
- o Vanadium in SW-1, SW-7, SW-9, and SW-10; and
- o Zinc in SW-1, SW-2, SW-4 through SW-10, SW-14, and SW-15.

There are no standards for the protection of human life for Class C surface waters. No PCBs or pesticides were detected in any of the surface waters tested.

The sediment results for TCL organic compounds are summarized in Table 4-5. In general, the sediments contained low levels of toluene and varying levels of PAHs. The highest total PAH concentrations were found in sediment samples SED-7, SED-8, SED-9, SED-10, and SED-11. Other volatile organic compounds (i.e., carbon disulfide, chloromethane, and 2-butanone) detected are possible laboratory artifacts.

Only two metals (chromium and nickel) exceeded the common range for metals in soils in the Eastern United States in sample SED-8. Cyanide was detected only in sample SED-2 (see Table 4-6).

No pesticides were detected in any of the sediment samples tested, but a low level of PCB Aroclor-1254 was found in SED-8.

The eight off-site surface water and sediment samples (SW-16 to SW-23) were collected at the request of NYSDEC after the site owner reported that his neighbor may have dumped materials containing PCBs in the ditches along the railroad tracks. These samples were collected and analyzed at ASC for pesticides/PCBs. No pesticides/PCBs were detected in any sample. Laboratory analytical results are presented in Appendix F.

#### 4.5.4 Surface Soil

Eleven surface soils were collected and analyzed for TCL organics and inorganics. The surface soil results for TCL organic compounds are summarized in Table 4-5. Samples S-1, S-7, S-9, and S-11 contained low levels of chlorinated solvents such as total-1,2-dichloroethene and tetrachloroethene with the highest concentrations present in S-1 and S-11. Because of the low concentrations present and various minor analytical problems, the soil volatile results should be considered estimates. Several soil samples also contained varying concentrations of semivolatile organic compounds including phenol (S-3, S-5, S-8, S-10, and S-11), n-nitrosodiphenylamine (S-1 and S-2), and PAHs (S-1 through S-11). The highest concentrations of total PAHs were found in samples S-2, S-3, and S-5. One PCB compound (Aroclor-1260) was detected at low concentrations in samples S-1, S-2, and S-8. Most of the compounds detected were low in concentration, and chloroform, hexane, and phthalates are probably laboratory artifacts.

No metals exceeded common ranges for metals in soil in the Eastern United States. Cyanide was detected only in sample S-2 (see Table 4-6).

No pesticides were detected in any of the surface soil samples tested.

#### 4.5.5 Waste

Three waste samples were collected and analyzed for TCL organics and inorganics. Two of the waste samples consisted of foundry sand (W-1 and W-2) and one was a resin-like substance from a partially buried drum (W-3). The foundry sand contained the following organic compounds: low-level PAH in W-1 and W-2; total-1,2,-dichloroethene in W-1; toluene in

W-1; and hexane in W-2. The resin-like substance (W-3) contained the following organic compounds: total xylenes and total trimethyl-benzene isomers (see Table 4-5). Most of the above-mentioned compounds are very low in concentration (i.e., below sample quantitation limits), and some (methylene chloride and hexane) are probably laboratory artifacts.

Several metals such as cobalt, iron, lead, and manganese in sample W-3 were noticeably high.

No metals in the foundry sand samples (W-1 and W-2) exceeded the common range of metals in soils in the Eastern United States (see Table 4-6). Metals detected from waste sample W-3 are reported in Table 4-12. Cyanide was not detected in any of the waste samples.

No PCBs or pesticides were detected in any of the waste samples collected.

#### 4.5.6 Leachate

Two samples were collected from areas of apparent leachate outbreaks and analyzed for TCL organics and inorganics. One sample was aqueous (L-1) and the other was stained soil/sediment (L-2). The aqueous sample contained measurable concentrations of the chlorinated organic compounds chloroethane and 1,1-dichloroethane. N,n-diethyl-3-methylbenzamide was also identified to be present at low concentrations (see Table 4-10). Only two organic compounds, chloroform and dibenzofuran, were detected at very low concentrations in the stained soil/sediment sample (see Table 4-5). Chloroform may be a laboratory artifact.

Several inorganic elements in the aqueous sample exceeded New York State human regulatory limits for surface water: arsenic, barium, cadmium, iron, lead, magnesium, manganese, and zinc; and those that exceeded aquatic regulatory limits include aluminum, cobalt, iron, vanadium, and zinc (see Table 4-11). No inorganic elements exceeded common ranges for metals in soils in the Eastern United States from the leachate-stained soil/sediment sample.

No PCBs/pesticides or cyanide were detected in either leachate sample.

#### 4.5.7 Contamination Assessment Summary

Only one subsurface soil sample (GW-7 at 17 to 19 feet) was collected at the Golden Road site. Analysis of this sample did not indicate the presence of any organic contaminants. Only one metal (manganese) exceeded the common range of metals in soils of the Eastern United States from this sample.

The groundwater from the upgradient wells contained the following chemical constituents at significant concentrations:

##### GW-3 (Background)

- o Iron, magnesium, manganese, and sodium above drinking water standards in the unfiltered sample; and
- o Iron, magnesium, and sodium in excess of drinking water standards in the filtered sample.

##### GW-4

- o Iron and sodium above drinking water standards in the unfiltered sample; and
- o Sodium above drinking water standards in the filtered sample.

The groundwater from the downgradient wells contained the following chemical constituents at significant concentrations:

##### GW-1

- o Benzene and ethylbenzene in excess of drinking water standards;
- o Arsenic, cadmium, chromium, copper, iron, lead, magnesium, manganese, sodium, and zinc in excess of drinking water standards in the unfiltered sample; and
- o Iron, magnesium, manganese, and sodium in excess of drinking water standards in the filtered sample.

##### GW-2

- o Barium, cadmium, chromium, copper, iron, lead, magnesium, manganese, sodium, and zinc above drinking water standards in the unfiltered sample; and
- o Iron, magnesium, and sodium in excess of drinking water standards in the filtered sample.

#### GW-5

- o Cadmium, chromium, iron, lead, manganese, sodium, and zinc above drinking water standards in the unfiltered sample; and
- o Sodium above drinking water standards in the filtered sample.

#### GW-6

- o Benzenes in excess of drinking water standards;
- o Iron, lead, manganese, and sodium above drinking water standards in the unfiltered sample; and
- o Iron and sodium above drinking water standards in the filtered sample.

#### GW-7

- o Vinyl chloride, chloroethane, 1,1-dichloroethane, and total-1,2-dichloroethane in excess of drinking water standards;
- o Manganese and sodium above drinking water standards in the unfiltered sample; and
- o Manganese and sodium above drinking water standards in the filtered sample.

Since both upgradient and downgradient wells and the drill water contained iron in excess of drinking water standards, the source of the iron is probably off site. High concentrations of manganese were also detected upgradient (GW-3), thereby indicating an off-site source. Very low concentrations of 4-methyl-1,2-pentanone were detected in several of the downgradient wells, along with one of the upgradient wells (GW-4), thereby indicating a possible upgradient source also. All of the other organic compounds and metals mentioned above, detected in the downgradient wells, appear to have originated on site.

The surface waters tested were generally free from organic contaminants except for very low concentrations of benzene, toluene, and chlorobenzene in GW-7; PAHs in SW-1 and SW-9; and toluene in SW-11. Samples SW-7, SW-9, and SW-11 were from the drainage ditch along the south side of the railroad tracks. All of the surface water samples contained metals in excess of Class C surface water standards for the protection

of aquatic life. There are no standards for the protection of human life in Class C surface waters. Aluminum, iron, and zinc are present both upgradient and downgradient, indicating an off-site source, while cadmium, cobalt, lead, magnesium, manganese, selenium, and vanadium seem to be concentrated in the southeast portion of the site.

Organic constituents detected in the sediments associated with the surface water samples consisted of mainly very low concentrations of toluene in SED-1, SED-3, SED-4, SED-5, SED-7, SED-9, and SED-10, all in the area to the south of the railroad tracks. Other organics detected in this area include dibenzofuran in SED-8, SED-9, and SED-10, and Aroclor-1254 in SED-8. Chloromethane and 2-butanone were detected near the west border in the northern portion of the site; however, they are often associated with background laboratory contamination. Only two metals (chromium and nickel) exceeded common ranges of metals in soils for the Eastern United States in sample SED-8. Cyanide was detected in SED-2; however, there are no guidelines for this constituent.

Surface soil sample S-1, located to the east of the pond in the southern portion of the site, and S-11, located in the open area in the northwest portion of the site contained the most organic contaminants: 1,1-dichloroethane; total-1,2-dichloroethene; 1,1,1-trichloroethane, tetrachloroethene, toluene, n-nitro-sodiphenylamine, PAHs, and Aroclor-1260; and total-1,2-dichloroethene, trichloroethene, tetrachloroethene, toluene, and phenol, respectively. Phenols were also detected in samples S-3, S-5, S-8, and S-10; n-nitrosodiphenylamine in S-2; 1,1-dichloroethane in S-3, total-1,2-dichloroethene in S-7 and S-9; 1,1,1-trichloroethene in S-3; and Aroclor-1260 in S-8. No metals exceeded the common range of metals in soils of the Eastern United States. Cyanide was detected in sample S-2; however, no guidelines exist for this constituent.

The foundry sand waste samples (W-1 and W-2) contained very low concentrations of total-1,2-dichloroethene and toluene, and the resin-like waste (W-3) contained total xylenes and total-trimethyl-benzene isomers. No metals in the foundry sand samples exceeded common ranges of metals in soils of the Eastern United States; however, high levels of iron, lead, and manganese were detected in the resin-like sample.



The aqueous leachate sample, L-1, contained chloroethane, 1,1-dichloroethane, and very low concentrations of a few BNAs. The leachate-stained soil/sediment sample, L-2, contained dibenzofuran. Elevated levels of aluminum, arsenic, barium, cadmium, cobalt, iron, lead, magnesium, manganese, vanadium, and zinc were detected in the aqueous sample (L-1); but no metals exceeded common ranges for the Eastern United States in the leachate-stained soil/sediment sample (L-2).

In general, the groundwater, surface water, and surface soils appear to have been contaminated by landfilling activities on both sides of the railroad tracks. No pesticides were detected in any of the samples tested; PCBs were detected only in surface soil samples S-1, S-2, and S-8, and sediment sample SW-8; cyanide was detected only in surface soil sample S-2 and sediment sample SW-2. No PCBs/pesticides were detected from the additional surface water/sediment from the railroad drainage ditch requested by the on-site NYSDEC representative.

#### 4.6 RECOMMENDATIONS

Based upon the analytical results of subsurface soil, groundwater, surface water/sediment, surface soil, waste, and leachate samples collected at the Golden Road site, contamination of all the above mentioned media was confirmed. Most of the organic contaminant levels were low; however, metal concentrations in both the groundwater and surface water exceeded drinking water standards. It is apparent that the contamination is originating on site. The question that remains is whether there are contaminants on site that pose a significant threat to human health and the environment. Since the drums removed from the site contained chlorinated and nonchlorinated solvents, high total organic carbon, organic solids with low flashpoints, PCBs, and waste oils, it is possible that a major source of the on-site contaminants have been removed. The partially buried drums that are still visible may contain additional contamination and warrant further investigation. The data collected to date are insufficient to make a definitive determination; thus, additional investigatory work is recommended for the immediate vicinity of the buried drums. There is also the potential for buried live artillery shells on site; therefore, an explosive ordnance specialist should be

consulted in order to determine the presence or absence of the shells. The groundwater monitoring wells should also be tested for explosive constituents. In addition, sampling of all downgradient private wells in the vicinity of the site (i.e., along Golden Road) is recommended in order to further determine the extent of groundwater contamination migration.

Table 4-1  
SUMMARY OF GEOTECHNICAL ANALYSES

| Sample Number | Sample Depth (feet) | Partical Size Distribution (percent) |             |             |           |      |      | Atterburg Limits (percent) |               |                  |
|---------------|---------------------|--------------------------------------|-------------|-------------|-----------|------|------|----------------------------|---------------|------------------|
|               |                     | Gravel                               | Coarse Sand | Medium Sand | Fine Sand | Silt | Clay | Liquid Limit               | Plastic Limit | Plasticity Index |
| GW-1          | 1 - 3               | 21                                   | 16          | 22          | 15        | 17   | 9    | NR                         | NR            | NR               |
| GW-2          | 1 - 3               |                                      |             |             |           |      |      | Non-plastic                |               |                  |
| GW-3          | 17 - 19             |                                      |             |             |           |      |      | 15                         | 12            | 3                |
| GW-4          | 5 - 8               |                                      |             |             |           |      |      | Non-plastic                |               |                  |
| GW-5          | 5 - 7               | 17                                   | 4           | 7           | 53        | 11   | 8    | NR                         | NR            | NR               |
| GW-6          | 1 - 3               | 0                                    | 0           | 0           | 64        | 21   | 15   | NR                         | NR            | NR               |
| GW-7          | 15 - 17             |                                      |             |             |           |      |      | Non-plastic                |               |                  |

02[UZ]YN4080:D2833/2881/24

Key:

NR = Not run

Table 4-2

## DRILLING LOG INFORMATION FOR NEW WELLS

| Well Type        | Approximate Thickness of Overburden (feet) | Approximate Elevation <sup>a</sup> of Top of Bedrock or Refusal (feet above MSL) | Total Depth of Borehole Measured from Top of PVC Casing (feet) | Comments        |
|------------------|--|--|--|-----------------|
| GW-1, Overburden | 12.0                                       | 337.0  | 13.68  | Drilled 8/23/89 |
| GW-2, Overburden | 11.2                                       | 334.9  | 13.0   | Drilled 8/24/89 |
| GW-3, Overburden | 18.5                                       | 327.0  | 20.35  | Drilled 1/9/90  |
| GW-4, Overburden | 21.1                                       | 324.7  | 23.23  | Drilled 1/9/90  |
| GW-5, Overburden | 25.4                                       | 325.7  | 26.5   | Drilled 8/24/89 |
| GW-6, Overburden | 16.6                                       | 329.9  | 18.65  | Drilled 8/22/89 |
| GW-7, Overburden | 17.4                                       | 332.1  | 19.3   | Drilled 8/23/89 |

02[UZ]YN4080:D2833/2880/19

<sup>a</sup>Elevations are not true elevations, but relative to an on-site reference point.

Table 4-3  
MONITORING WELL CONSTRUCTION DATA

| Well | Opening | Feet of Screen<br>or Open Hole | Feet of<br>Riser | Thickness of<br>Bentonite<br>(feet) | Total Depth<br>of Well<br>(feet) | Stick-up<br>Height<br>(feet) |
|------|---------|--------------------------------|------------------|-------------------------------------|----------------------------------|------------------------------|
| GW-1 | Screen  | 5                              | 8.5              | 1                                   | 11.5                             | 2                            |
| GW-2 | Screen  | 5                              | 8.0              | 1                                   | 11.0                             | 2                            |
| GW-3 | Screen  | 10                             | 10.2             | 2                                   | 18.2                             | 2                            |
| GW-4 | Screen  | 10                             | 13.1             | 2                                   | 21.1                             | 2                            |
| GW-5 | Screen  | 10                             | 16.5             | 2                                   | 24.5                             | 2                            |
| GW-6 | Screen  | 7                              | 11.6             | 2                                   | 16.6                             | 2                            |
| GW-7 | Screen  | 7                              | 12.2             | 2                                   | 17.2                             | 2                            |

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4-24

102' riser

18.2

-18.2

**Table 4-4**  
**WATER LEVEL DATA**

| Well | Date Measured | Water Level Below Ground Surface (feet) | Relative Elevations <sup>a</sup> (feet)                |                                       |                                |
|------|---------------|---|--|---------------------------------------|--------------------------------|
|      |               |   | Relative Elevation <sup>b</sup> at T.O.C. <sup>c</sup> | Relative Grade Elevation <sup>c</sup> | Relative Water Level Elevation |
| GW-1 | 2/7/90        | 3.2                                     | 351.18   | 349.0                                 | 345.8                          |
|      | 3/8/91        | 2.9                                     |  |                                       | 346.2                          |
| GW-2 | 2/7/90        | +0.5                                    | 348.12   | 346.1                                 | 346.6                          |
|      | 3/8/91        | 0.2                                     |  |                                       | 345.9                          |
| GW-3 | 2/7/90        | +1.5                                    | 347.65   | 345.5                                 | 347.0                          |
|      | 3/8/91        | +1.9 (flowing)                          |  |                                       | 347.5                          |
| GW-4 | 2/7/90        | +2.1 (flowing)                          | 347.93   | 345.8                                 | 347.9                          |
|      | 3/8/91        | +2.1 (flowing)                          |  |                                       | 347.9                          |
| GW-5 | 2/7/90        | 5.2                                     | 353.50   | 351.1                                 | 345.9                          |
|      | 3/8/91        | 4.5                                     |  |                                       | 346.6                          |
| GW-6 | 2/6/90        | +0.7                                    | 348.65   | 346.5                                 | 347.2                          |
|      | 3/8/91        | +1.8                                    |  |                                       | 348.4                          |
| GW-7 | 2/6/90        | 4.3                                     | 351.60   | 349.5                                 | 345.3                          |
|      | 3/8/91        | 1.7                                     |  |                                       | 347.8                          |

02[UZ]YN4080:D2833/2893/20

<sup>a</sup>Elevations are not true elevations, but an on-site reference point (i.e., a railroad spike in Rochester Gas and Electric Power Pole No. 13 with an assumed elevation of 350.00 feet above mean sea level).

<sup>b</sup>T.O.C. = Top of steel casing.

<sup>c</sup>Grade elevations reported to the tenth of an inch only.

+Water level measured within the well casing at an elevation above ground surface.

Note: Water levels were measured to the nearest 0.01 foot using an electronic audible water level meter.

Table 4-5

**SUBSURFACE AND SURFACE SOILS, SEDIMENT, LEACHATE-STAINED  
SOIL/SEDIMENT, AND WASTE  
ORGANIC ANALYSES SUMMARY**

| Compound Detected               | Concentration<br>( $\mu\text{g}/\text{kg}$ ) | Sample   |
|---------------------------------|--|----------|
| <b>Volatile Organics</b>        |  |          |
| Chloromethane                   | 4 J  | SED-14   |
| Carbon disulfide                | 4 J  | SED-14   |
| 1,1-Dichloroethane              | 84   | S-1      |
|                                 | 5 J  | S-3      |
| Total-1,2-dichloroethene        | 2 J  | S-1      |
|                                 | 2 J  | S-7      |
|                                 | 2 J  | S-9      |
|                                 | 3 J  | S-9 MS   |
|                                 | 2 J  | S-9 MSD  |
|                                 | 9  | S-11     |
|                                 | 6 J  | S-11 RE  |
|                                 | 3 J  | W-1      |
| Chloroform                      | 2 J  | S-3      |
|                                 | 7 J  | L-2      |
| 2-Butanone                      | 92   | SED-14   |
| 1,1,1-Trichloroethane           | 19   | S-1      |
|                                 | 20   | S-3      |
| Trichloroethene                 | 5 J  | S-11     |
|                                 | 4 J  | S-11 RE  |
| Tetrachloroethene               | 12   | S-1      |
|                                 | 3 J  | S-11     |
|                                 | 1 J  | S-11 RE  |
| Toluene                         | 2 J  | S-1      |
|                                 | 9  | S-11     |
|                                 | 4 J  | S-11 RE  |
|                                 | 3 J  | SED-1    |
|                                 | 6 J  | SED-3    |
|                                 | 6 J  | SED-4    |
|                                 | 5 J  | SED-5    |
|                                 | 2 J  | SED-6    |
|                                 | 13   | SED-7    |
|                                 | 9 J  | SED-9    |
|                                 | 4 J  | SED-9 RE |
|                                 | 5 J  | SED-10   |
|                                 | 3 J  | W-1      |
| Hexane                          | 5.5 J  | S-10     |
|                                 | 11 J   | S-11     |
|                                 | 9 J  | S-11 RE  |
|                                 | 8.8 J  | W-2 RE   |
| Total xylenes                   | 820 J  | W-3      |
|                                 | 1,000 J                                      | W-3 MS   |
|                                 | 1,300 J                                      | W-3 MSD  |
| Total trimethyl-benzene isomers | 13,000                                       | W-3      |

02[UZ]YN4080:D2833/3338/31

Key at end of table.

Table 4-5 (Cont.)

| Compound Detected      | Concentration<br>(µg/kg) | Sample |     |
|------------------------|--------------------------|--------|-----|
| <b>BNAs</b>            |                          |        |     |
| Phenol                 | 70 J                     | S-3    |     |
|                        | 84 J                     | S-5    |     |
|                        | 58 J                     | S-8    |     |
|                        | 46 J                     | S-10   |     |
|                        | 65 J                     | S-11   |     |
| Dibenzofuran           | 74 J                     | SED-8  |     |
|                        | 110 J                    | SED-9  |     |
|                        | 110 J                    | SED-10 |     |
|                        | 59 J                     | L-2    |     |
| Diethylphthalate       | 1,700                    | S-2    |     |
| N-Nitrosodiphenylamine | 1,000 J                  | S-1    |     |
|                        | 110 J                    | S-2    |     |
| Di-n-butylphthalate    | 9,000                    | S-1    |     |
|                        | 150 J                    | S-2    |     |
|                        | 760                      | S-3    |     |
|                        | 240 J                    | S-4    |     |
|                        | 530 J                    | S-5    |     |
|                        | 83 J                     | S-6    |     |
|                        | 51 J                     | S-8    |     |
|                        | 84 J                     | S-9    |     |
|                        | 150 J                    | S-10   |     |
|                        | Butylbenzylphthalate     | 500 J  | S-1 |
|                        |                          | 85 J   | S-2 |
| Total PAHs             | 5,300 J                  | S-1    |     |
|                        | 24,000 J                 | S-2    |     |
|                        | 21,000                   | S-3    |     |
|                        | 5,000 J                  | S-4    |     |
|                        | 12,000 J                 | S-5    |     |
|                        | 170 J                    | S-6    |     |
|                        | 500 J                    | S-7    |     |
|                        | 1,200 J                  | S-8    |     |
|                        | 220 J                    | S-9    |     |
|                        | 290 J                    | S-10   |     |
|                        | 120 J                    | S-11   |     |
|                        | 440 J                    | SED-1  |     |
|                        | 280 J                    | SED-2  |     |
|                        | 460 J                    | SED-3  |     |
|                        | 7,700 J                  | SED-6  |     |
|                        | 64,000 J                 | SED-7  |     |
|                        | 29,000 J                 | SED-8  |     |
|                        | 19,000 J                 | SED-9  |     |
|                        | 16,000 J                 | SED-10 |     |
|                        | 13,000 J                 | SED-11 |     |
| 4,800 J                | SED-11 MS                |        |     |
| 4,300 J                | SED-11 MSD               |        |     |
| 4,900 J                | L-2                      |        |     |
| 53 J                   | W-1                      |        |     |
| 136 J                  | W-2                      |        |     |

02[UZ|YN4080:D2833/3338/31

Key at end of table.



Table 4-5 (Cont.)

| Compound Detected          | Concentration<br>( $\mu\text{g}/\text{kg}$ ) | Sample |
|----------------------------|--|--------|
| PCBs/pesticides            |  |        |
| Aroclor-1254               | 610 J  | SED-8  |
| Aroclor-1260               | 810 J  | S-1    |
|                            | 770 J  | S-2    |
|                            | 45 J   | S-8    |
| 02[UZ]YN4080:D2833/3338/31 |  |        |

Key:

- J = Estimated value for tentatively identified compounds or when mass spectral data indicate the presence of a compound that meets the identification criteria, but the result is less than the sample quantitation limit but greater than zero.
- MS = Matrix spike
- MSD = Matrix spike duplicate
- RE = Reanalysis due to unacceptable surrogate recoveries and/or internal area responses.

Table 4-6

**SUBSURFACE AND SURFACE SOILS, SEDIMENT, LEACHATE-STAINED SOIL/SEDIMENT,  
AND WASTE (FOUNDRY SAND) INORGANIC ANALYSES SUMMARY**

| Inorganics Detected | Range in Samples (mg/kg) | Guidelines for Soils/<br>Surface Materials of<br>Eastern United States <sup>a</sup> |                                   | Comments   | Samples Exceeding Guidelines |               |
|---------------------|--------------------------|---|-----------------------------------|--|------------------------------|---------------|
|                     |                          | Range (mg/kg)   | Estimated Arithmetic Mean (mg/kg) |  | Location                     | Level (mg/kg) |
| Aluminum            | 575 - 10,100             | 7,000 - >100,000  | 57,000                            | Levels are all below the arithmetic mean of the reference soils  |                              |               |
| Antimony            | ND                       | <1 - 8.8  | 0.76                              |  |                              |               |
| Arsenic             | 1.2 - 32.1               | <1.1 - 73   | 7.4                               | Levels are all below the arithmetic mean except in samples S-7, S-9, S-11, SED-6, SED-9, W-1, and W-2, which were above the arithmetic mean of the reference soils |                              |               |
| Barium              | 28.3 - 145               | 10 - 1,500  | 420                               | Levels are all below the arithmetic mean of the reference soils  |                              |               |
| Beryllium           | ND - 0.53                | <1 - 7  | 0.85                              | Level is below arithmetic mean of the reference soils, and only detected in sample S-5   |                              |               |
| Cadmium             | ND - 2.3                 | No guideline  |                                   | Only detected in sample SED-10   |                              |               |
| Calcium             | 374 - 118,000            | 10 - 280,000  | 630                               | Levels are often above the arithmetic mean of the reference soils  |                              |               |
| Chromium            | ND - 1,640               | 1 - 1,000   | 52                                | Levels are often close to the arithmetic mean of the reference soils except for sample SED-8, which exceeded the common range                                      | SED-8                        | 1,640         |
| Cobalt              | ND - 5.1                 | <0.1 - 70   | 9.2                               | Levels are all below the arithmetic mean of the reference soils  |                              |               |

02[UZ]YN4080:D2833/3340/5

Key at end of table.

Table 4-6 (Cont.)

| Inorganics Detected | Range in Samples (mg/kg) | Guidelines for Soils/<br>Surface Materials of<br>Eastern United States <sup>a</sup> |                                   | Comments  | Samples Exceeding Guidelines |               |
|---------------------|--------------------------|---|-----------------------------------|---|------------------------------|---------------|
|                     |                          | Range (mg/kg)   | Estimated Arithmetic Mean (mg/kg) |   | Location                     | Level (mg/kg) |
| Copper              | 4.9 - 85.1               | <1 - 700  | 22                                | Levels are often close to the arithmetic mean of the reference soils  |                              |               |
| Cyanide             | ND - 5.3                 | No guideline  |                                   | Detected only in samples S-2 and SED-2  |                              |               |
| Iron                | 4,970 - 21,200           | 10 - >100,000   | 2,500                             | Levels are all greater than the arithmetic mean of the reference soils  |                              |               |
| Lead                | 6.7 - 135                | <10 - 300   | 17                                | Levels are often above the arithmetic mean of the reference soils   |                              |               |
| Magnesium           | 197 - 54,500             | 50 - 50,000   | 460                               | Levels are often above the arithmetic mean, and sample GW-7 (17-19 ft) exceeded the common range of the reference soils | GW-7<br>(17-19 ft)           | 54,500        |
| Manganese           | 28.6 - 449               | <2 - 7,000  | 640                               | Levels are all below the arithmetic mean of the reference soils   |                              |               |
| Mercury             | ND - 0.23                | 0.01 - 3.4  | 0.12                              | Level is above the arithmetic mean of the reference soils, and only detected in sample SED-8                            |                              |               |
| Nickel              | 3.4 - 1,170              | <5 - 700  | 18                                | Levels are often above the arithmetic mean, and sample SED-8 exceeded the common range of the reference soils           | SED-8                        | 1,170         |
| Potassium           | ND - 489                 | 50 - 3,700  | --                                | Levels are often in the medium range of the reference soils   |                              |               |
| Selenium            | ND - 2.6                 | <0.1 - 3.9  | .45                               | Level is below arithmetic mean of the reference soils, and only detected in sample SED-15                               |                              |               |

02{UZ}YN4080:D2833/3340/5

Key at end of table.

Table 4-6 (Cont.)

| Inorganics Detected | Range in Samples (mg/kg) | Guidelines for Soils/<br>Surface Materials of<br>Eastern United States <sup>a</sup> |                                   | Comments  | Samples Exceeding Guidelines |               |
|---------------------|--------------------------|---|-----------------------------------|---|------------------------------|---------------|
|                     |                          | Range (mg/kg)   | Estimated Arithmetic Mean (mg/kg) |   | Location                     | Level (mg/kg) |
| Silver              | ND                       | No guidelines   |                                   |   |                              |               |
| Sodium              | ND - 1,160               | <500 - 50,000   | 780                               | Levels are close to the arithmetic mean of the reference soils    |                              |               |
| Thallium            | ND                       | 2.2 - 23  | 8.6                               |   |                              |               |
| Vanadium            | 2.8 - 41.9               | <7 - 300  | 66                                | Levels are all below the arithmetic mean of the reference soils   |                              |               |
| Zinc                | 14.3 - 41.9              | <5 - 2,900  | 52                                | Levels are often above the arithmetic mean of the reference soils |                              |               |

02[UZ]YN4080:D2833/3340/5

<sup>a</sup>Source: Shacklette and Boerngen 1984.

Key:

ND = Not detected

**Table 4-7**  
**FIELD MEASUREMENTS OF GROUNDWATER**  
**CHEMICAL PARAMETERS TAKEN DURING**  
**WELL SAMPLING**

| Well | Date   | Time | pH  | Temperature °C | Conductivity<br>(micromhos/cm) | Nephelometric<br>Turbidity Units<br>(NTU) <sup>a</sup> |
|------|--------|------|-----|----------------|--------------------------------|--|
| GW-1 | 2/7/90 | 0900 | 8.2 | 8.7            | 2,300                          | >1,000   |
| GW-2 | 2/7/90 | 1115 | 7.9 | 6.5            | 3,005                          | >1,000   |
| GW-3 | 2/7/90 | 1140 | 8.0 | 8.8            | 3,048                          | >1,000   |
| GW-4 | 2/7/90 | 1155 | 7.9 | 9.0            | 2,950                          | >1,000   |
| GW-5 | 2/7/90 | 1045 | 8.2 | 8.7            | 2,300                          | >1,000   |
| GW-6 | 2/6/90 | 1200 | 8.9 | 6.1            | 1,860                          | >1,000   |
| GW-7 | 2/6/90 | 1125 | 7.1 | 8.6            | 2,268                          | >1,000   |

[UZ]YN4080:D2833/2894/17

<sup>a</sup>The well water was clouded by silt during purging and sampling.

Table 4-8

## GROUNDWATER AND DRILL WATER ORGANIC ANALYSES SUMMARY

| Compound Detected        | Concentration<br>( $\mu\text{g/L}$ )   | Sample  | NYSDEC Class GA<br>Groundwater Standards <sup>a</sup><br>( $\mu\text{g/L}$ ) |
|--------------------------|--|---|--|
| <b>Volatile Organics</b> |  |   |  |
| Vinyl chloride           | 9 J                                    | GW-7  | 2  |
| Chloroethane             | 17                                     | GW-7  | 5  |
| Carbon disulfide         | 2 J                                    | GW-6  | 50 <sup>b</sup>  |
| 1,1-Dichloroethane       | 36                                     | GW-7  | 5  |
| Total-1,2-dichloroethene | 1 J<br>8                               | GW-6<br>GW-7  | 5  |
| Chloroform               | 24                                     | Drill rig   | 100  |
| Bromodichloromethane     | 11                                     | Drill rig   | 50   |
| Trichloroethene          | 2 J                                    | GW-6  | 5.0  |
| Dibromochloromethane     | 4 J                                    | Drill rig   | 50   |
| Benzene                  | 36<br>1 J                              | GW-1<br>GW-6  | Not detectable   |
| 4-methyl-1,2-pentanone   | 3 J<br>3 J<br>4 J<br>7 J<br>2 J<br>5 J | GW-1<br>GW-4<br>GW-5<br>GW-6<br>GW-6 MS<br>GW-6 MSD | 50 <sup>b</sup>  |
| 2-Hexanone               | 7 J<br>5 J                             | GW-6<br>GW-6 MSD                                    | 50   |
| Tetrachloroethene        | 2 J                                    | GW-6  | 5  |
| Toluene                  | 2 J                                    | GW-6  | 5  |
| Chlorobenzene            | 1 J                                    | GW-6  | 5  |
| Ethylbenzene             | 6<br>1 J                               | GW-1<br>GW-6  | 5  |
| Total xylenes            | 4 J<br>1 J                             | GW-1<br>GW-6  | 15   |
| <b>BNAs</b>              |  |   |  |
| Di-n-butylphthalate      | 23<br>38<br>35                         | Drill rig<br>Drill rig MS<br>Drill rig MSD          | 50 <sup>b</sup>  |

02[UZ]YN4080:D2833/3341/17

<sup>a</sup>Source: NYSDEC, New York State Ambient Water Quality Standards and Guidance Values 1990.

<sup>b</sup>NYSDEC Guidance value

Key:

J = Estimated value for tentatively identified compounds or when mass spectral data indicate the presence of a compound that meets the identification criteria, but the result is less than the sample quantitation limit but greater than zero.

MS = matrix spike

MSD = matrix spike duplicate

Table 4-9

## GROUNDWATER INORGANIC ANALYSES SUMMARY

| Inorganics Detected | Range in Samples ( $\mu\text{g/L}$ ) | NYSDEC Class GA Groundwater Standards <sup>a</sup> ( $\mu\text{g/L}$ ) | Sample Exceeding Standards or Guidance Values ( $\mu\text{g/L}$ ) |            |          |
|---------------------|--------------------------------------|--|---|------------|----------|
|                     |                                      |  | Location  | Unfiltered | Filtered |
| Aluminum            | ND - 128,000                         | No regulatory standard   |   |            |          |
| Arsenic             | ND - 29.4                            | 25   | GW-1  | 29.4       | --       |
| Barium              | ND - 1,230                           | 1,000  | GW-2  | 1,230      | --       |
| Cadmium             | ND - 38                              | 10   | GW-1  | 31.4       | ND       |
|                     |                                      |  | GW-2  | 38.0       | ND       |
|                     |                                      |  | GW-5  | 16.5       | ND       |
| Calcium             | 15,900 - 2,760,000                   | No regulatory standard   |   |            |          |
| Chromium            | ND - 217                             | 50   | GW-1  | 145        | ND       |
|                     |                                      |  | GW-2  | 217        | ND       |
|                     |                                      |  | GW-5  | 83.4       | ND       |
| Cobalt              | ND - 88.3                            | No regulatory standard   |   |            |          |
| Copper              | ND - 260                             | 200  | GW-1  | 214        | ND       |
|                     |                                      |  | GW-2  | 260        | ND       |
| Iron                | 111 - 265,000                        | 300<br>500 (iron and manganese)  | GW-1  | 243,000    | 1,140    |
|                     |                                      |  | GW-2  | 265,000    | 419      |
|                     |                                      |  | GW-3  | 17,000     | 325      |
|                     |                                      |  | GW-4  | 1,130      | --       |
|                     |                                      |  | GW-5  | 127,000    | --       |
|                     |                                      |  | GW-6  | 48,400     | 402      |
|                     |                                      |  | GW-7  | 5,730      | 580.0    |
| Drill rig           | 359                                  | NR   |   |            |          |

02[UZ]YN4080:D2833/3342/20

Key at end of table.

Table 4-9 (Cont.)

| Inorganics<br>Detected | Range in Samples<br>( $\mu\text{g/L}$ ) | NYSDEC<br>Class GA<br>Groundwater<br>Standards <sup>a</sup><br>( $\mu\text{g/L}$ ) | Sample Exceeding Standards<br>or Guidance Values ( $\mu\text{g/L}$ ) |            |          |
|------------------------|---|--|--|------------|----------|
|                        |   |  | Location   | Unfiltered | Filtered |
| Lead                   | ND - 364                                | 25   | GW-1   | 364        | ND       |
|                        |   |  | GW-2   | 180        | ND       |
|                        |   |  | GW-5   | 39         | ND       |
|                        |   |  | GW-6   | 44         | ND       |
| Magnesium              | 8,220 - 840,000                         | No regulatory standard<br>35,000 guidance value                                    | GW-1   | 840,000    | 48,500   |
|                        |   |  | GW-2   | 836,000    | 49,100   |
|                        |   |  | GW-3   | 78,200     | 42,300   |
|                        |   |  | GW-4   | 45,200     | 42,600   |
|                        |   |  | GW-5   | 197,000    | 57,300   |
|                        |   |  | GW-6   | 132,000    | 35,500   |
|                        |   |  | GW-7   | 74,500     | 61,400   |
| Manganese              | ND - 1,030                              | 300<br>500 (iron and manganese)  | GW-1   | 8,020      | 153      |
|                        |   |  | GW-2   | 12,100     | --       |
|                        |   |  | GW-3   | 596        | --       |
|                        |   |  | GW-5   | 5,120      | --       |
|                        |   |  | GW-6   | 1,600      | --       |
|                        |   |  | GW-7   | 686        | 393      |
|                        |   |  | Mercury  | ND - 0.28  | 2        |
| Nickel                 | ND - 205                                | No regulatory standard   |  |            |          |
| Potassium              | 1,280 - 19,700                          | No regulatory standard   |  |            |          |
| Sodium                 | 11,800 - 71,600                         | 20,000   | GW-1   | 61,900     | 55,500   |
|                        |   |  | GW-2   | 56,500     | 54,700   |
|                        |   |  | GW-3   | 69,800     | 70,700   |
|                        |   |  | GW-4   | 71,600     | 69,100   |
|                        |   |  | GW-5   | 23,300     | 22,200   |
|                        |   |  | GW-6   | 61,100     | 58,200   |
|                        |   |  | GW-7   | 66,000     | 63,100   |

02[UZ]YN4080:D2833/3342/20

Key at end of table.



Table 4-9 (Cont.)

| Inorganics<br>Detected | Range in Samples<br>( $\mu\text{g/L}$ ) | NYSDEC<br>Class GA<br>Groundwater<br>Standards <sup>a</sup><br>( $\mu\text{g/L}$ ) | Sample Exceeding Standards<br>or Guidance Values ( $\mu\text{g/L}$ ) |            |          |
|------------------------|---|--|--|------------|----------|
|                        |   |  | Location   | Unfiltered | Filtered |
| Vanadium               | ND - 21.3                               | No regulatory standard   |  |            |          |
| Zinc                   | ND - 1,320                              | 300  | GW-1   | 1,320      | --       |
|                        |   |  | GW-2   | 1,120      | --       |
|                        |   |  | GW-5   | 326        | ND       |

02[UZ]YN4080:D2833/3342/20

<sup>a</sup>Source: NYSDEC, New York State Ambient Water Quality Standards and Guidance Values 1990.

Key:

ND = Not detected

NR = Not run

Table 4-10

SURFACE WATER AND LEACHATE ORGANIC ANALYSES SUMMARY

| Compound Detected             | Concentration<br>( $\mu\text{g/L}$ ) | Sample        | NYSDEC Class C<br>Surface Water Standards <sup>a</sup><br>( $\mu\text{g/L}$ ) | Samples<br>Exceeding<br>Standards |
|-------------------------------|--------------------------------------|---------------|---|-----------------------------------|
| <b>Volatiles</b>              |                                      |               |   |                                   |
| Chloroethane                  | 23                                   | L-1           | 50  |                                   |
| Carbon disulfide              | 1 J                                  | SW-12         | 50  |                                   |
| 1,1-dichloroethane            | 7                                    | L-1           | 50  |                                   |
| Benzene                       | 1 J                                  | SW-7          | 6 <sup>b</sup>  |                                   |
| Toluene                       | 1 J<br>2 J                           | SW-7<br>SW-11 | 50  |                                   |
| Chlorobenzene                 | 1 J                                  | SW-7          | 5   |                                   |
| <b>BNAs</b>                   |                                      |               |   |                                   |
| N,n-diethyl-3-methylbenzamide | 16 J<br>14 J                         | L-1<br>L-1 RE | 50  |                                   |
| Total PAHs                    | 14 J<br>28 J                         | SW-1<br>SW-9  | 50  |                                   |

02[UZ]YN4080:D2833/3343/16

<sup>a</sup>Source: NYSDEC, New York State Ambient Water Quality Standards and Guidance Values 1990.

<sup>b</sup>NYSDEC guidance value

Key:

J = Estimated value for tentatively identified compounds or when mass spectral data indicate the presence of a compound that meets the identification criteria, but the result is less than the sample quantitation limit but greater than zero.  
 RE = Reanalysis due to unacceptable surrogate recoveries and/or internal area responses.

Table 4-11

## SURFACE WATER AND LEACHATE INORGANIC ANALYSES SUMMARY

| Inorganic Detected | Range in Samples<br>( $\mu\text{g/L}$ ) | NYSDEC Class C<br>Surface Water Standards <sup>a</sup><br>( $\mu\text{g/L}$ ) | Samples Exceeding Standards |                              |
|--------------------|---|---|-----------------------------|------------------------------|
|                    |   |   | Location                    | Level<br>( $\mu\text{g/L}$ ) |
| Aluminum           | 113 - 18,700                            | 100 A   | SW-1                        | 18,700                       |
|                    |   |   | SW-2                        | 2,490                        |
|                    |   |   | SW-3                        | 147 B                        |
|                    |   |   | SW-4                        | 2,200                        |
|                    |   |   | SW-5                        | 864                          |
|                    |   |   | SW-6                        | 463                          |
|                    |   |   | SW-7                        | 2,120                        |
|                    |   |   | SW-8                        | 687                          |
|                    |   |   | SW-9                        | 3,900                        |
|                    |   |   | SW-10                       | 7,420                        |
|                    |   |   | SW-11                       | 113 B                        |
|                    |   |   | SW-12                       | 449                          |
|                    |   |   | SW-14                       | 139 B                        |
|                    |   |   | SW-15                       | 1,050                        |
|                    |   |   | L-1                         | 1,360                        |
| Arsenic            | ND - 164                                | 190 (dissolved form) A  |                             |                              |
| Barium             | 32.1 - 1,260                            | No regulatory standard  |                             |                              |
| Beryllium          | ND - 3.0 B                              | 11 <sup>b</sup> or 1,100 <sup>c</sup> A                                       |                             |                              |
| Cadmium            | ND - 38.4                               | EXP (0.7852 [ln (ppm hardness)] - 3.490)<br>Range of standard 1.85 - 6.92 A   | SW-1                        | 9.5                          |
|                    |   |   | SW-7                        | 9.7                          |
|                    |   |   | SW-9                        | 14.5                         |
|                    |   |   | L-1                         | 38.4                         |
| Calcium            | 46,900 - 312,000                        | No regulatory standard  |                             |                              |
| Chromium           | ND - 43.0                               | EXP (0.819 [ln (ppm hardness)] + 1.561)<br>Range of standard 345 - 1,360 A    |                             |                              |
| Cobalt             | ND - 13.1 B                             | 5 A   | SW-3                        | 10                           |
|                    |   |   | L-1                         | 13.1                         |

02[UZ]YN4080:D2833/3344/18

Key at end of table.

Table 4-11 (Cont.)

| Inorganic Detected | Range in Samples ( $\mu\text{g/L}$ ) | NYSDEC Class C Surface Water Standards <sup>a</sup> ( $\mu\text{g/L}$ )     | Samples Exceeding Standards |                           |
|--------------------|--------------------------------------|---|-----------------------------|---------------------------|
|                    |                                      |   | Location                    | Level ( $\mu\text{g/L}$ ) |
| Copper             | ND - 182                             | EXP (0.8545 [ln (ppm hardness)] - 1.465)<br>Range of standard 20.1 - 84.6 A | SW-1                        | 105                       |
|                    |                                      |   | SW-7                        | 138                       |
|                    |                                      |   | SW-9                        | 182                       |
|                    |                                      |   | SW-10                       | 151                       |
| Iron               | 248 - 326,000                        | 300 A   | SW-1                        | 28,700                    |
|                    |                                      |   | SW-2                        | 4,810                     |
|                    |                                      |   | SW-3                        | 544                       |
|                    |                                      |   | SW-4                        | 5,000                     |
|                    |                                      |   | SW-5                        | 6,010                     |
|                    |                                      |   | SW-6                        | 9,830                     |
|                    |                                      |   | SW-7                        | 76,300                    |
|                    |                                      |   | SW-8                        | 24,800                    |
|                    |                                      |   | SW-9                        | 89,800                    |
|                    |                                      |   | SW-10                       | 22,600                    |
|                    |                                      |   | SW-12                       | 1,530                     |
|                    |                                      |   | SW-14                       | 1,790                     |
|                    |                                      |   | SW-15                       | 2,710                     |
|                    |                                      |   | L-1                         | 326,000                   |
|                    |                                      |   | Lead                        | ND - 193                  |
| SW-2               | 56                                   |   |                             |                           |
| SW-4               | 66                                   |   |                             |                           |
| SW-5               | 19.6                                 |   |                             |                           |
| SW-6               | 13.1                                 |   |                             |                           |
| SW-7               | 134                                  |   |                             |                           |
| SW-8               | 14.7                                 |   |                             |                           |
| SW-9               | 178                                  |   |                             |                           |
| SW-10              | 107                                  |   |                             |                           |
| L-1                | 61.9                                 |   |                             |                           |
| Magnesium          | 16,900 - 53,700                      | No regulatory standard  |                             |                           |

[UZ]YN4080:D2833/3344/18

Key at end of table.

Table 4-11 (Cont.)

| Inorganic Detected | Range in Samples<br>( $\mu\text{g/L}$ ) | NYSDEC Class C<br>Surface Water Standards <sup>a</sup><br>( $\mu\text{g/L}$ ) | Samples Exceeding Standards  |  |
|--------------------|---|---|--|--|
|                    |   |   | Location   | Level<br>( $\mu\text{g/L}$ )   |
| Manganese          | 25.7 - 4,650                            | No regulatory standard  |  |  |
| Nickel             | ND - 667                                | EXP (0.76 [ln (ppm hardness)] + 1.06)<br>Range of standard 154 - 550 A        | SW-8<br>L-1  | 252<br>667   |
| Potassium          | 1,540 - 17,900                          | No regulatory standard  |  |  |
| Selenium           | ND - 3.7 B                              | 1 A (acid-soluble form)   | SW-1<br>SW-2<br>SW-7<br>SW-10  | 3.7<br>1.4<br>1.1<br>1.1   |
| Sodium             | 9,020 - 272,000                         | No regulatory standard  |  |  |
| Vanadium           | ND - 107                                | 14 A (acid-soluble form)  | SW-1<br>SW-7<br>SW-9<br>SW-10<br>L-1   | 57.2<br>24.7<br>30.8<br>20.8<br>107<br>B<br>B<br>B                                   |
| Zinc               | 11.9 B - 803                            | 30 A  | SW-1<br>SW-2<br>SW-4<br>SW-5<br>SW-6<br>SW-7<br>SW-8<br>SW-9<br>SW-10<br>SW-14<br>SW-15<br>L-1 | 803<br>152<br>211<br>64.9<br>69.9<br>302<br>151<br>587<br>311<br>49.8<br>90.0<br>312 |

02[UZ]YN4080:D2833/3344/18

Key at end of table.

Table 4-11 (Cont.)

02(UZ)YN4080:D2833/3344/18

<sup>a</sup>Source: NYSDEC New York State Ambient Water Quality Standards and Guidance Values 1990.

<sup>a</sup>When hardness is less than or equal to 75 ppm

<sup>b</sup>When hardness is greater than or equal to 75 ppm

Key:

A = Aquatic

B = Reported value is less than contract-required detection limit but greater than instrument detection limit.

ND = Not detected

Table 4-12

WASTE (RESIN-LIKE SUBSTANCE)  
 SAMPLE W3  
 INORGANIC ANALYSES SUMMARY




















| Inorganic Detected | Waste ( $\mu\text{g/L}$ ) |
|--------------------|---------------------------|
| Aluminum           | 25.7 B                    |
| Antimony           | ND                        |
| Arsenic            | ND                        |
| Barium             | 7.5 B                     |
| Beryllium          | ND                        |
| Cadmium            | ND                        |
| Calcium            | 3,710                     |
| Chromium           | 3.0                       |
| Cobalt             | 162                       |
| Copper             | 2.4 B                     |
| Iron               | 778                       |
| Lead               | 3,430                     |
| Magnesium          | 1,670                     |
| Manganese          | 9,090                     |
| Mercury            | ND                        |
| Nickel             | ND                        |
| Potassium          | 336 B                     |
| Selenium           | ND                        |
| Silver             | ND                        |
| Sodium             | 1,240                     |
| Thallium           | ND                        |
| Vanadium           | ND                        |
| Zinc               | 231                       |
| Cyanide            | ND                        |

[UZ]YN4080:D2833/3346/46

Key:

B = Reported value is less than contract required detection limit but greater than the instrument detection limit.

ND = Not detected.

| System                | Series  | Group   | Formation   | Rock Type   | Thickness in Feet                             | Description  |
|-----------------------|---|---|---|---|---|--|
| Silurian              |   | Salina  | Akron and Bertie Dolostones   |    | 75  | Interbedded dolostone and shale  |
|                       |   |   | Camillus and Syracuse   |    | 300   | Green and grey shales with dolomite, gypsum, anhydrite, and halite   |
|                       |   |   | Vernon  |    | 600   | Red shale with green and grey interbeds, dolomite becoming common near the top   |
|                       |   | Lockport  | Oak Orchard   |    | 160   | Siliceous dolostone with shaly partings  |
|                       |   |   | Penfield  |    |   |  |
|                       |   | Clinton   | Decew DS  |    | 197   | Red, green and grey shales and mudstones with interbedded dolostones, sandstones, limestones, nematite, and hematitic and collitic limestone |
|                       |   |   | Rochester SH  |   |   |  |
|                       |   |   | Irondequoit LS  |  |   |  |
|                       |   |   | Williamson SH   |  |   |  |
|                       |   |   | Wolcott Furnace Hematite  |  |   |  |
|                       |   |   | Wolcott LS  |  |   |  |
|                       |   |   | Sodus SH  |  |   |  |
|                       |   |   | Bearcreek SH  |  |   |  |
|                       |   |   | Wallington LS   |  |   |  |
| Furnaceville Hematite |  |   |   |   |   |  |
| Medina                | Maplewood SH  |  | 55  | Red and green mottled sandstone and shale exhibiting depositional features          |   |  |
|                       | Thorold/Kodak SS  |  |   |   |   |  |
| Grimsby               |  |   |   |   |   |  |
| Ordovician            | Upper   | Queenston   |  | 1,100   | Thinly bedded micaceous shales and siltstones |  |

SOURCE: Revised from Rickard & Fisher, 1970, Geologic Map of New York, Finger Lakes Sheet.

Figure 4-1 BEDROCK UNITS OF NORTHERN MONROE COUNTY



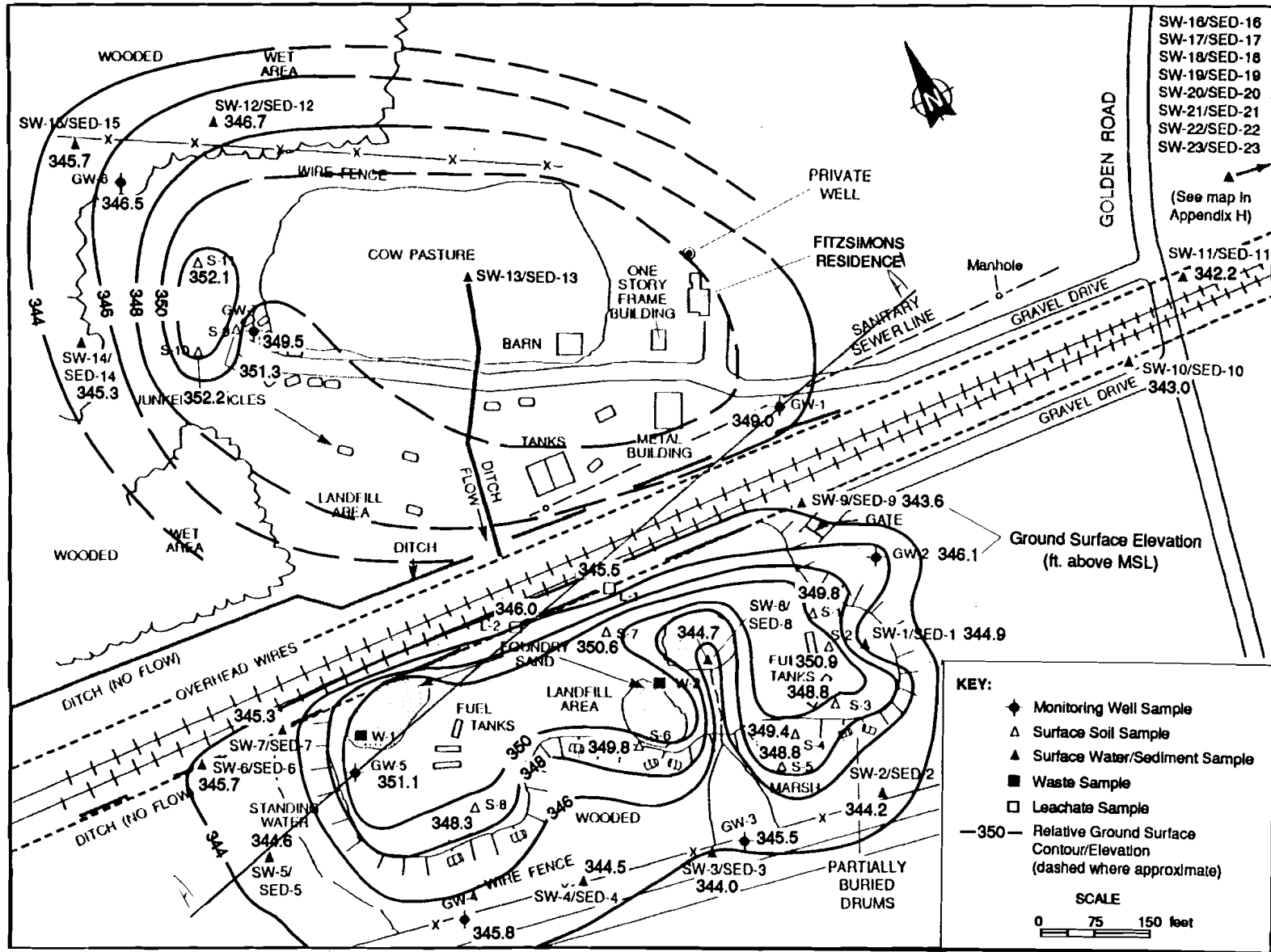


Figure 4-2  
GROUND SURFACE CONTOUR MAP

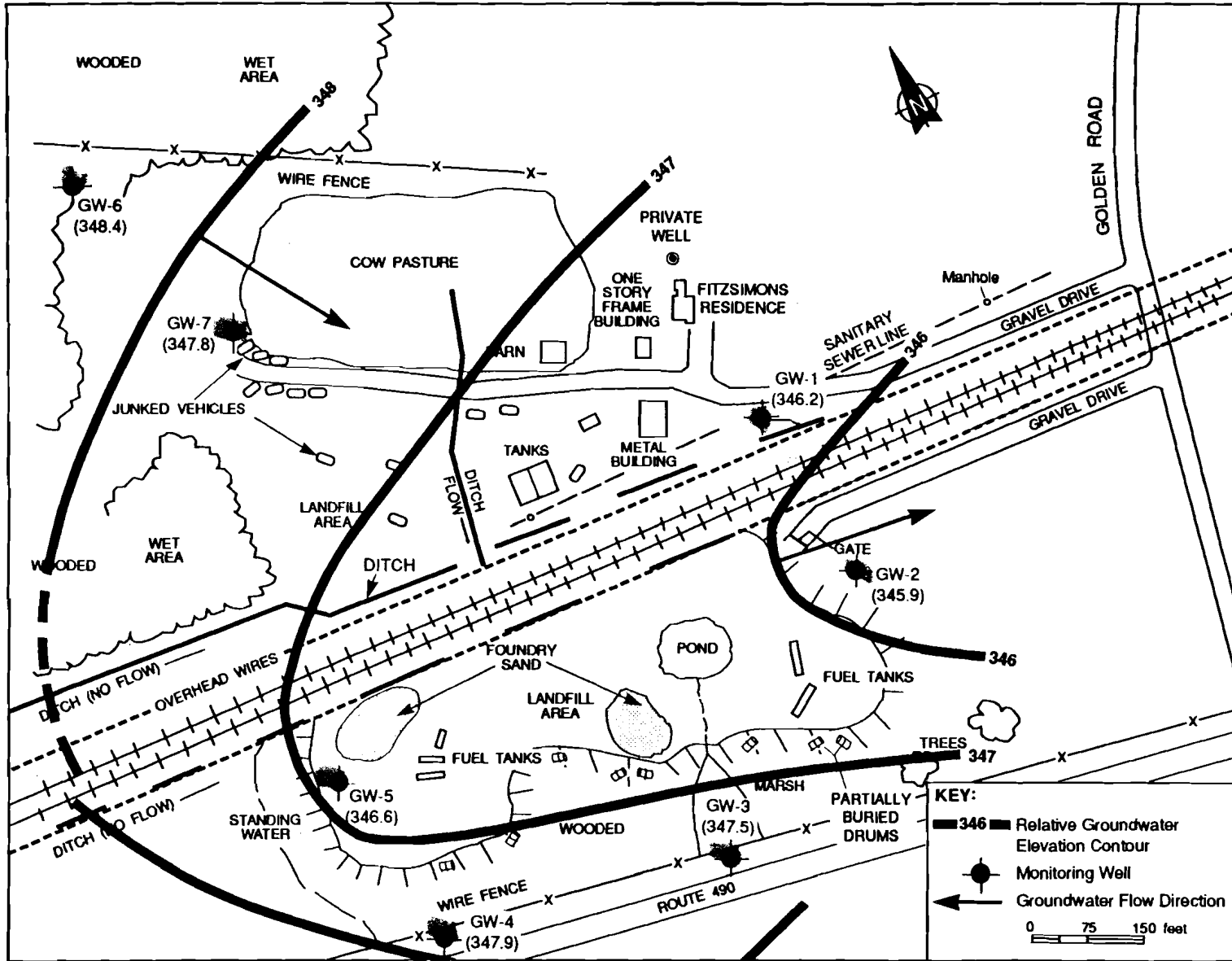


Figure 4-3  
OVERBURDEN GROUNDWATER CONTOUR MAP, MARCH 1990

## 5. FINAL APPLICATION OF HAZARD RANKING SYSTEM

### 5.1 NARRATIVE SUMMARY

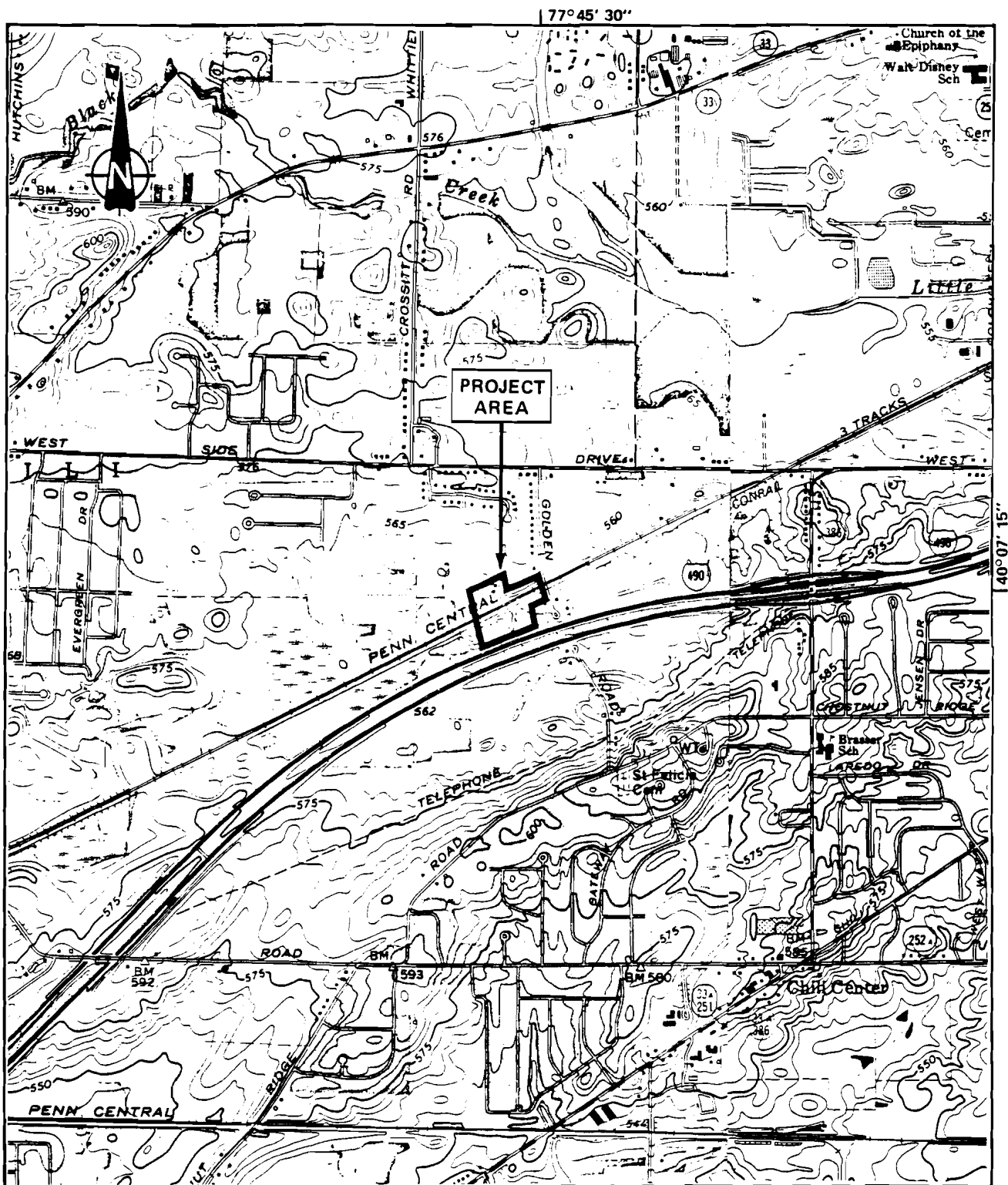
The Golden Road disposal site is situated within an 8-acre parcel of land on Golden Road in the Town of Chili, Monroe County, New York (see Figure 5-1). The site is located at 227 Golden Road and is bisected by active Conrail tracks. The site is currently owned by Howard Fitzsimons, Jr., and was previously owned by Howard Fitzsimons, Sr.

The site was active from 1955 through 1976, receiving a wide variety of wastes including U.S. Army artillery shell casings, 55-gallon drums of unknown wastes, household refuse, metal slag, fly ash, and junked vehicles. The majority of the material used for fill was foundry sand. Approximately 560 drums were removed in 1985. The drums contained chlorinated and nonchlorinated solvents, high total organic carbon, organic solids with low flashpoints, PCBs, and waste oils. Large pieces of structural steel, fuel tanks, and partially buried drums currently lie on site.

According to tests conducted by E & E, groundwater, surface water/sediment, and surface soils are contaminated with low levels of organic compounds and high levels of metals. No pesticides were detected in any of the samples tested; however, PCBs were detected in one sediment sample and three surface soil samples. Cyanide was detected in one sediment sample and one surface soil sample.

Approximately 5,352 people live within a 1-mile radius of the site and are potentially affected by direct contact due to lack of security (i.e., fences), especially to the south of the railroad tracks, and surface water and soil contamination. All residences within a 1-mile radius of the site are within the local municipal water service area;

however, residents (i.e., the site owners) are still known to be using private groundwater wells as their only source of drinking water. An exact number of people drinking groundwater within 1 mile of the site could not be obtained but is suspected to be low.



SOURCE: USGS 7.5 Minute Series (Topographic) Quadrangle: Clifton, NY, 1971; West Henrietta, NY, 1971; Rochester, NY, 1971; Spencerport, NY, 1971; All (Photorevised 1978).

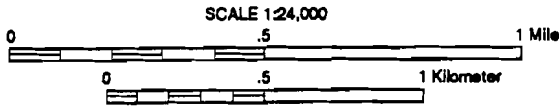


Figure 5-1  
 LOCATION MAP: GOLDEN ROAD DISPOSAL SITE

FIGURE 1

H R S C O V E R S H E E T

Facility Name: Golden Road Disposal Site

Location: 227 Golden Road, Chili, NY 14625

EPA Region: \_\_\_\_\_

Person(s) in Charge of Facility: Howard Fitzsimons, Jr.

Name of Reviewer: G. Florentino

Date: 6/26/90

General Description of the Facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action; etc.)

The Golden Road disposal site is an 8-acre, inactive landfill which contains U.S. Army artillery shells, household refuse, metal slag, fly ash, foundry sand, junked vehicles, and partially buried 55-gallon drums which may contain solvents and/or ink wastes. The site is located in a residential area. The soil surface water and groundwater contamination is of major concern.

Scores: S = 28.06 (S = 44.89 S = 18.46 S = 0 )  
M gw sw a

S = not scored  
FE

S = 50  
DC

| Ground Water Route Work Sheet   |  |             |                               |            |                |  |
|---|--|-------------|-------------------------------|------------|----------------|--|
| Rating Factor   | Assigned Value<br>(Circle One)                     | Multi-plier | Score                         | Max. Score | Ref. (Section) |  |
| <b>1</b> Observed Release   | 0 <b>45</b>  | 1           | 45                            | 45         | 3.1            |  |
| If observed release is given a score of 45, proceed to line <b>4</b> .<br>If observed release is given a score of 0, proceed to line <b>2</b> .       |  |             |                               |            |                |  |
| <b>2</b> Route Characteristics  |  |             |                               |            | 3.2            |  |
| Depth to Aquifer of Concern   | 0 1 2 <b>3</b>                                     | 2           | 6                             | 6          |                |  |
| Net Precipitation   | 0 <b>1</b> 2 3                                     | 1           | 1                             | 3          |                |  |
| Permeability of the Unsaturated Zone  | 0 1 <b>2</b> 3                                     | 1           | 2                             | 3          |                |  |
| Physical State  | 0 1 2 <b>3</b>                                     | 1           | 3                             | 3          |                |  |
| <b>Total Route Characteristics Score</b>  |  |             | 11                            | 15         |                |  |
| <b>3</b> Containment  | 0 1 2 <b>3</b>                                     | 1           | 3                             | 3          | 3.3            |  |
| <b>4</b> Waste Characteristics  |  |             |                               |            | 3.4            |  |
| Toxicity/Persistence  | 0 3 6 9 12 15 <b>18</b>                            | 1           | 18                            | 18         |                |  |
| Hazardous Waste Quantity  | 0 1 2 3 <b>4</b> 5 6 7 8                           | 1           | 4                             | 8          |                |  |
| <b>Total Waste Characteristics Score</b>  |  |             | 22                            | 28         |                |  |
| <b>5</b> Targets  |  |             |                               |            | 3.5            |  |
| Ground Water Use  | 0 1 <b>2</b> 3                                     | 3           | 6                             | 9          |                |  |
| Distance to Nearest Well/Population Served  | 0 4 8 8 10<br>12 18 18 <b>20</b><br>24 30 32 35 40 | 1           | 20                            | 40         |                |  |
| <b>Total Targets Score</b>  |  |             | 26                            | 49         |                |  |
| <b>6</b> If line <b>1</b> is 45, multiply <b>1</b> x <b>4</b> x <b>5</b><br>If line <b>1</b> is 0, multiply <b>2</b> x <b>3</b> x <b>4</b> x <b>5</b> |  |             | 25,740                        | 57,330     |                |  |
| <b>7</b> Divide line <b>6</b> by 57,330 and multiply by 100   |  |             | <b>S<sub>gw</sub> = 44.89</b> |            |                |  |

**FIGURE 2  
GROUND WATER ROUTE WORK SHEET**

| Surface Water Route Work Sheet  |  |             |            |            |                |  |
|---|--|-------------|------------|------------|----------------|--|
| Rating Factor   | Assigned Value<br>(Circle One)                       | Multi-plier | Score      | Max. Score | Ref. (Section) |  |
| <b>1</b> Observed Release   | 0 <b>(45)</b>  | 1           | 45         | 45         | 4.1            |  |
| If observed release is given a value of 45, proceed to line <b>4</b> .<br>If observed release is given a value of 0, proceed to line <b>2</b> .       |  |             |            |            |                |  |
| <b>2</b> Route Characteristics  |  |             |            |            | 4.2            |  |
| Facility Slope and Intervening Terrain  | 0 1 2 <b>(3)</b>                                     | 1           | 3          | 3          |                |  |
| 1-yr. 24-hr. Rainfall   | 0 1 <b>(2)</b> 3                                     | 1           | 2          | 3          |                |  |
| Distance to Nearest Surface Water   | 0 1 2 <b>(3)</b>                                     | 2           | 6          | 6          |                |  |
| Physical State  | 0 1 2 <b>(3)</b>                                     | 1           | 3          | 3          |                |  |
| Total Route Characteristics Score   |  |             | 14         | 15         |                |  |
| <b>3</b> Containment  | 0 1 2 <b>(3)</b>                                     | 1           | 3          | 3          | 4.3            |  |
| <b>4</b> Waste Characteristics  |  |             |            |            | 4.4            |  |
| Toxicity/Persistence  | 0 3 6 9 12 15 <b>(18)</b>                            | 1           | 18         | 18         |                |  |
| Hazardous Waste Quantity  | 0 1 2 3 <b>(4)</b> 5 6 7 8                           | 1           | 4          | 8          |                |  |
| Total Waste Characteristics Score   |  |             | 22         | 26         |                |  |
| <b>5</b> Targets  |  |             |            |            | 4.5            |  |
| Surface Water Use   | 0 1 <b>(2)</b> 3                                     | 3           | 6          | 9          |                |  |
| Distance to a Sensitive Environment   | 0 1 2 <b>(3)</b>                                     | 2           | 6          | 6          |                |  |
| Population Served/Distance to Water Intake Downstream   | <b>(0)</b> 4 6 8 10<br>12 16 18 20<br>24 30 32 35 40 | 1           | 0          | 40         |                |  |
| Total Targets Score   |  |             | 12         | 55         |                |  |
| <b>6</b> If line <b>1</b> is 45, multiply <b>1</b> x <b>4</b> x <b>5</b><br>If line <b>1</b> is 0, multiply <b>2</b> x <b>3</b> x <b>4</b> x <b>5</b> |  |             | 11,880     | 64,350     |                |  |
| <b>7</b> Divide line <b>6</b> by 64,350 and multiply by 100   |  |             | $S_{sw} =$ | 18.46      |                |  |

**FIGURE 7  
SURFACE WATER ROUTE WORK SHEET**



| Air Route Work Sheet  |                                |             |           |            |                |  |
|---|--------------------------------|-------------|-----------|------------|----------------|--|
| Rating Factor   | Assigned Value<br>(Circle One) | Multi-plier | Score     | Max. Score | Ref. (Section) |  |
| <b>1</b> Observed Release                                       | 0 45                           | 1           | 0         | 45         | 5.1            |  |
| Date and Location: N/A  |                                |             |           |            |                |  |
| Sampling Protocol: N/A  |                                |             |           |            |                |  |
| If line <b>1</b> is 0, the $S_a = 0$ . Enter on line <b>5</b> . |                                |             |           |            |                |  |
| If line <b>1</b> is 45, then proceed to line <b>2</b> .         |                                |             |           |            |                |  |
| <b>2</b> Waste Characteristics                                  |                                |             |           |            | 5.2            |  |
| Reactivity and Incompatibility                                  | 0 1 2 3                        | 1           | 1         | 3          |                |  |
| Toxicity  | 0 1 2 3                        | 3           | 3         | 9          |                |  |
| Hazardous Waste Quantity  | 0 1 2 3 4 5 6 7 8              | 1           | 4         | 8          |                |  |
| Total Waste Characteristics Score                               |                                |             | 8         | 20         |                |  |
| <b>3</b> Targets  |                                |             |           |            | 5.3            |  |
| Population Within 4-Mile Radius                                 | 0 9 12 15 18<br>21 24 27 30    | 1           | 21        | 30         |                |  |
| Distance to Sensitive Environment                               | 0 1 2 3                        | 2           | 6         | 6          |                |  |
| Land Use  | 0 1 2 3                        | 1           | 3         | 3          |                |  |
| Total Targets Score   |                                |             | 30        | 39         |                |  |
| <b>4</b> Multiply <b>1</b> x <b>2</b> x <b>3</b>                |                                |             | 0         | 35,100     |                |  |
| <b>5</b> Divide line <b>4</b> by 35,100 and multiply by 100     |                                |             | $S_a = 0$ |            |                |  |

**FIGURE 9  
AIR ROUTE WORK SHEET**

|   | s     | s <sup>2</sup> |
|---|-------|----------------|
| Groundwater Route Score (S <sub>gw</sub> )        | 44.89 | 2015.11        |
| Surface Water Route Score (S <sub>sw</sub> )      | 18.46 | 340.77         |
| Air Route Score (S <sub>a</sub> )                 | 0     | 0              |
| $S_{gw}^2 + S_{sw}^2 + S_a^2$                     |       | 2355.88        |
| $\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$              |       | 48.54          |
| $\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M$ |       | 28.06          |

**FIGURE 10  
WORKSHEET FOR COMPUTING S<sub>M</sub>**

| Fire and Explosion Work Sheet                              |                                |   |             |       |                  |                |   |   |   |   |   |
|--|--------------------------------|---|-------------|-------|------------------|----------------|---|---|---|---|---|
| Rating Factor  | Assigned Value<br>(Circle One) |   | Multi-plier | Score | Max. Score       | Ref. (Section) |   |   |   |   |   |
| <b>1</b> Containment                                       | 1                              | 3 | 1           |       | 3                | 7.1            |   |   |   |   |   |
| <b>2</b> Waste Characteristics                             |                                |   |             |       |                  | 7.2            |   |   |   |   |   |
| Direct Evidence  | 0                              | 3 | 1           |       | 3                |                |   |   |   |   |   |
| Ignitability   | 0                              | 1 | 2           | 3     | 1                | 3              |   |   |   |   |   |
| Reactivity   | 0                              | 1 | 2           | 3     | 1                | 3              |   |   |   |   |   |
| Incompatibility  | 0                              | 1 | 2           | 3     | 1                | 3              |   |   |   |   |   |
| Hazardous Waste Quantity                                   | 0                              | 1 | 2           | 3     | 4                | 5              | 6 | 7 | 8 | 1 | 8 |
| <b>Total Waste Characteristics Score</b>                   |                                |   |             |       | 20               |                |   |   |   |   |   |
| <b>3</b> Targets   |                                |   |             |       |                  | 7.3            |   |   |   |   |   |
| Distance to Nearest Population                             | 0                              | 1 | 2           | 3     | 4                | 5              | 1 | 5 |   |   |   |
| Distance to Nearest Building                               | 0                              | 1 | 2           | 3     |                  |                | 1 | 3 |   |   |   |
| Distance to Sensitive Environment                          | 0                              | 1 | 2           | 3     |                  |                | 1 | 3 |   |   |   |
| Land Use   | 0                              | 1 | 2           | 3     |                  |                | 1 | 3 |   |   |   |
| Population Within 2-Mile Radius                            | 0                              | 1 | 2           | 3     | 4                | 5              | 1 | 5 |   |   |   |
| Buildings Within 2-Mile Radius                             | 0                              | 1 | 2           | 3     | 4                | 5              | 1 | 5 |   |   |   |
| <b>Total Targets Score</b>                                 |                                |   |             |       | 24               |                |   |   |   |   |   |
| <b>4</b> Multiply <b>1</b> x <b>2</b> x <b>3</b>           |                                |   |             |       | 1,440            |                |   |   |   |   |   |
| <b>5</b> Divide line <b>4</b> by 1,440 and multiply by 100 |                                |   |             |       | SFE = Not scored |                |   |   |   |   |   |

**FIGURE 11  
FIRE AND EXPLOSION WORK SHEET**

| Direct Contact Work Sheet   |                                |             |          |            |                   |  |
|---|--------------------------------|-------------|----------|------------|-------------------|--|
| Rating Factor   | Assigned Value<br>(Circle One) | Multi-plier | Score    | Max. Score | Ref.<br>(Section) |  |
| <b>1</b> Observed Incident  | 0 45                           | 1           | 0        | 45         | 8.1               |  |
| If line <b>1</b> is 45, proceed to line <b>4</b><br>If line <b>1</b> is 0, proceed to line <b>2</b>   |                                |             |          |            |                   |  |
| <b>2</b> Accessibility  | 0 1 2 3                        | 1           | 3        | 3          | 8.2               |  |
| <b>3</b> Containment  | 0 15                           | 1           | 15       | 15         | 8.3               |  |
| <b>4</b> Waste Characteristics<br>Toxicity  | 0 1 2 3                        | 5           | 15       | 15         | 8.4               |  |
| <b>5</b> Targets  |                                |             |          |            | 8.5               |  |
| Population Within a<br>1-Mile Radius  | 0 1 2 3 4 5                    | 4           | 16       | 20         |                   |  |
| Distance to a<br>Critical Habitat   | 0 1 2 3                        | 4           | 0        | 12         |                   |  |
| Total Targets Score   |                                |             | 16       | 32         |                   |  |
| <b>6</b> If line <b>1</b> is 45, multiply <b>1</b> x <b>4</b> x <b>5</b><br>If line <b>1</b> is 0, multiply <b>2</b> x <b>3</b> x <b>4</b> x <b>5</b> |                                |             | 0,800    | 21,600     |                   |  |
| <b>7</b> Divide line <b>6</b> by 21,600 and multiply by 100   |                                |             | SOC = 50 |            |                   |  |

**FIGURE 12  
DIRECT CONTACT WORK SHEET**

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DOCUMENTATION RECORDS  
FOR  
HAZARD RANKING SYSTEM

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Instructions: As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,320 drums plus 80 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

Facility Name: Golden Road Disposal Site

Location: 227 Golden Road, Town of Chili, NY

Date Scored: 7/3/90

Person Scoring: G. Florentino

Primary Source(s) of Information (e.g., EPA region, state, FIT, etc.):

Ref. 1, 5, 6, 7

Factors Not Scored Due to Insufficient Information:

Comments or Qualifications:

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GROUNDWATER ROUTE

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1. OBSERVED RELEASE

Contaminants detected (3 maximum):

Total lead, benzene  
1,1-dichloroethane Score = 45  
Ref. 1

Rationale for attributing the contaminants to the facility:

Groundwater samples collected from on-site wells  
Ref. 1

\* \* \*

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Lockport Group  
Ref. 2 and 3

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

The shallowest water level encountered during drilling was 3.0 feet in GW-2. Water levels rose in the completed wells to 2.1 feet above ground surface in GW-4.  
Ref. 1

Depth from the ground surface to the lowest point of waste disposal/storage:

<20 feet  
Assigned value = 3

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

32 inches  
Ref. 4

Mean annual or seasonal evaporation (list months for seasonal):

27 inches  
Ref. 4

Net precipitation (subtract the above figures):

5 inches  
Assigned value = 1

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Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Silty sand, sometimes silty clay  
Ref. 2 and 3

Permeability associated with soil type:

0.63 - 2.0 inches per hour  
Ref. 2 and 3

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Solids: Artillery shells, foundry sand/fly ash, household refuse  
Liquids: >560 55-gallon drums  
Ref. 5 and 6

\* \* \*

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill - no liner, no cap

Method with highest score:

See above  
Assigned value = 3  
Ref. 5 and 6

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

|                    |                     |
|--------------------|---------------------|
| Total lead         | Assigned value = 18 |
| 1,1-dichloroethane | Assigned value = 12 |
| Benzene            | Assigned value = 12 |
| Ref. 1 and 7       |                     |

Compound with highest score:

|                     |   |
|---------------------|---|
| Total lead          | Note: Dissolved lead was not detected, therefore an alternative score would be 12 |
| Assigned value = 18 | for benzene.  |
| Ref. 7              |   |

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0.  
(Give a reasonable estimate even if quantity is above maximum.):

560 drums were removed from the site and several still remained partially, and possibly, buried.  
(Note: Other waste present on site in unknown quantities)  
Ref. 5 and 6

Basis of estimating and/or computing waste quantity:

560 drums removed from site (Note: This is a minimal waste value)  
Ref. 5 and 6

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5. TARGETS

Groundwater Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Drinking water with municipal water from alternate unthreatened sources presently available.  
Assigned value = 2  
Ref. 5

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Mr. Howard Fitzsimons 227 Golden Road  
Ref. 1, 5, and 19

Distance to above well or building:

Adjacent to fill  
Assigned value = 4  
Ref. 1, 5, and 19

Population Served by Groundwater Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Average of 14.1 wells per square mile in Town of Chili.  
9.4 sq. miles x 14.1 wells/sq. mile x 3.8 people/well = 504 people  
Ref. 5 and 8

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

300 acres x 1.5 = 450 people  
Ref. 5

Total population served by groundwater within a 3-mile radius:

504 + 450 = 954  
Assigned value = 2

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S U R F A C E   W A T E R   R O U T E

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1. OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Cadmium                    Toluene  
Lead                        Manganese  
Benzene  
Score = 45  
Ref. 1

Rationale for attributing the contaminants to the facility:

Samples collected from on-site or adjacent surface water  
Ref. 1

\* \* \*

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

0 - 3%  
Ref. 1, 5, 10, 11, 12, and 13

Name/description of nearest downslope surface water:

Unnamed pond and wetlands on and adjacent to site  
Ref. 1 and 5

Average slope of terrain between facility and above-cited surface water body in percent:

0 - 3%  
Ref. 1, 5, 10, 11, 12, and 13

Is the facility located either totally or partially in surface water?

Yes  
Ref. 1, 5, 10, 11, 12, and 13

Is the facility completely surrounded by areas of higher elevation?

No  
Assigned value = 3  
Ref. 1, 5, 10, 11, 12, and 13

1-Year 24-Hour Rainfall in Inches

2.2  
Assigned value = 2  
Ref. 14

Distance to Nearest Downslope Surface Water

Adjacent  
Assigned value = 3  
Ref. 1 and 5

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Physical State of Waste

Solids: Artillery shells, foundry sand/fly ash, household refuse  
Liquids: >560 55-gallon drums  
Assigned value = 3  
Ref. 5 and 19

\* \* \*

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill - no liner, no cap

Method with highest score:

Same as above  
Assigned value = 3  
Ref. 5

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

|           |                     |
|-----------|---------------------|
| Cadmium   | Assigned value = 18 |
| Lead      | Assigned value = 18 |
| Manganese | Assigned value = 18 |
| Benzene   | Assigned value = 12 |
| Toluene   | Assigned value = 9  |

Ref. 1 and 7

Compound with highest score:

Cadmium  
Assigned value = 18  
Ref. 7

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0.  
(Give a reasonable estimate even if quantity is above maximum.):

560 drums removed from site. Other drums exist partially or completely buried. Other wastes exist on site in unknown quantities  
Ref. 6

Basis of estimating and/or computing waste quantity:

560 drums were removed (Note: This is a minimal waste value)  
Assigned value = 4  
Ref. 7

\* \* \*

5. TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Unknown, possibly recreation. No intakes in area.  
Assigned value = 2  
Ref. 5, 10, 11, 12, and 13

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Is there tidal influence?

None  
Ref. 15

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None  
Ref. 15

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Site adjacent to designated Class II wetland  
Assigned value = 3  
Ref. 5

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

None  
Assigned value = 0  
Ref. 5

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

None  
Assigned value = 0  
Ref. 5

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

None  
Ref. 5

Total population served:

None  
Ref. 5

Name/description of nearest of above water bodies:

None  
Ref. 5

Distance to above-cited intakes, measured in stream miles:

None  
Ref. 5

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A I R   R O U T E

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1. OBSERVED RELEASE

Contaminants detected:

Air samples were not collected and tested. The site was screened with an HNu photoionization detector.  
No contaminants were detected.  
Assigned value = 0  
Ref. 1

Date and location of detection of contaminants:

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

\* \* \*

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Not sampled, unknown  
Assigned value = 1  
Ref. 1 and 5

Most incompatible pair of compounds:

Unknown  
Assigned value = 1  
Ref. 7

Toxicity

Most toxic compound:

Unknown  
Assigned value = 1

Hazardous Waste Quantity

Total quantity of hazardous waste:

560 drums  
Ref. 6

Basis of estimating and/or computing waste quantity:

560 drums removed (waste quantity is a minimal value because other wastes were disposed on site)  
Ref. 1, 5, and 6

\* \* \*

3. TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi

0 to 1 mi

0 to 1/2 mi

0 to 1/4 mi

0-1 miles 5,352  
Assigned value = 21  
Ref. 16

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None  
Ref. 15

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Site adjacent to designated Class II wetland  
Assigned value = 3  
Ref. 5

Distance to critical habitat of an endangered species, if 1 mile or less:

None  
Assigned value = 0  
Ref. 5

Land Use

Distance to commercial/industrial area, if 1 mile or less:

1 mile  
Assigned value = 3  
Ref. 10, 11, 12, 13, and 17

Distance to national or state park, forest, wildlife reserve, if 2 miles or less:

None  
Assigned value = 0  
Ref. 10, 11, 12, and 13

Distance to residential area, if 2 miles or less:

Adjacent  
Assigned value = 3  
Ref. 10, 11, 12, 13, and 17

Distance to agricultural land in production within past 5 years, if 1 mile or less:

<0.25 mile  
Assigned value = 3  
Ref. 17

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

<0.25 mile  
Assigned value = 3  
Ref. 17

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within the view of the site?

None  
Assigned value = 0  
Ref. 9

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F I R E   A N D   E X P L O S I O N

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1. CONTAINMENT

Hazardous substances present:

No fire hazard at site.  
Ref. 18

Type of containment, if applicable:

\* \* \*

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

No readings with O<sub>2</sub>/explosimeter  
Assigned value = 0  
Ref. 1

Ignitability

Compound used:

Unknown  
Assigned value = 1  
Ref. 7

Reactivity

Most reactive compound:

Unknown  
Assigned value = 1  
Ref. 7

Incompatibility

Most incompatible pair of compounds:

Unknown  
Assigned value = 1  
Ref. 7

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

560 drums  
Ref. 6

Basis of estimating and/or computing waste quantity:

560 drums removed (Note: Waste quantity is a minimum value due to the disposal of other unknown quantities of waste)  
Ref. 5 and 6

\* \* \*

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3. TARGETS

Distance to Nearest Population

Adjacent  
Assigned value = 5  
Ref. 1, 5, 10, 11, 12, and 13

Distance to Nearest Building

Adjacent  
Assigned value = 3  
Ref. 1, 5, 10, 11, 12, and 13

Distance to a Sensitive Environment

Distance to wetlands:

Adjacent  
Assigned value = 3  
Ref. 5, 10, 11, 12, and 13

Distance to critical habitat:

None  
Assigned value = 0  
Ref. 5

Land Use

Distance to commercial/industrial area, if 1 mile or less:

1.0 mile  
Assigned value = 3  
Ref. 17

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

None  
Assigned value = 0  
Ref. 10, 11, 12, and 13

Distance to residential area, if 2 miles or less:

Adjacent  
Assigned value = 3  
Ref. 10, 11, 12, 13, and 17

Distance to agricultural land in production within past 5 years, if 1 mile or less:

<0.25 miles  
Assigned value = 3  
Ref. 17

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

<0.25 miles  
Assigned value = 3  
Ref. 17

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within the view of the site?

None  
Assigned value = 0  
Ref. 9

Population Within 2-Mile Radius

19,439  
Assigned value = 5  
Ref. 16

Buildings Within 2-Mile Radius

>700  
Assigned value = 3  
Ref. 10, 11, 12, and 13

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D I R E C T   C O N T A C T

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OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No incidents on record.  
Ref. 5

\* \* \*

2. ACCESSIBILITY

Describe type of barrier(s):

Barriers do not completely surround the facility.  
Assigned value = 3

\* \* \*

3. CONTAINMENT

Type of containment, if applicable:

No containment. Foundry sand/fly ash at surface.  
Assigned value = 15  
Ref. 1, 5, and 19

\* \* \*

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Benzene           Assigned value = 3  
Toluene           Assigned value = 2  
Ref. 1 and 7

Compound with highest score:

Benzene  
Assigned value = 3  
Ref. 7

\* \* \*

5. TARGETS

Population Within One-Mile Radius

5,352  
Assigned value = 4  
Ref. 16

Distance to Critical Habitat (of endangered species)

None  
Assigned value = 0  
Ref. 5

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R E F E R E N C E S

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If the entire reference is not available for public review in the EPA regional files on this site, indicate where the reference may be found.

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| Reference<br>Number | Description of the Reference   |
|---------------------|--|
| 1                   | Ecology and Environment Engineering, P.C., April 26, 1989, Site Inspection of the Golden Road Disposal Site, Town of Chili, New York, performed for the New York State Department of Environmental Conservation, Albany, New York.   |
| 2                   | Sweet, A.T., W.J. Latimer, C.S. Pearson, C.H. Diebold, W.W. Rietz, C.P. Mead, W. Secor, and M. Howard, Jr., 1938, <u>Soil Survey of Monroe County, New York</u> , United States Department of Agriculture, Soil Conservation Service, Cornell, New York. Document location: Ecology and Environment Engineering, P.C., Buffalo, New York.                                    |
| 3                   | Heffner, R.L., S.D. Goodman, 1973, <u>Soil Survey of Monroe County, New York</u> , United States Department of Agriculture, Soil Conservation Service, Cornell, New York. Document location: Ecology and Environment Engineering, P.C., Buffalo, New York.   |
| 4                   | National Oceanic and Atmospheric Administration, 1983, Climatic Atlas of the United States, Reprinted from United States Department of Commerce, Environmental Science Services Administration, Environmental Data Service, 1968, National Climatic Data Center, Asheville, North Carolina. Document location: Ecology and Environment Engineering, P.C., Buffalo, New York. |
| 5                   | New York State Department of Environmental Conservation, November 28, 1983, Golden Road Disposal Site, New York State Superfund Phase I Summary Report, Town of Chili, Monroe County, New York, prepared by Recra Research, Inc. Document location: NYSDEC, Albany, New York.  |
| 6                   | Jackson, D., July 25, 1983, Sampling Report, Golden Road Disposal Site, Site No. 8-28-021, New York State Department of Environmental Conservation, Division of Solid and Hazardous Waste, Region 8, Albany, New York. Document location: Ecology and Environment Engineering, P.C., Lancaster, New York.  |
| 7                   | Uncontrolled Hazardous Waste Site Ranking Systems, A Users Manual, National Oil and Hazardous Substances, Contingency Plan, Appendix A (40 CFR) (47 FR 31219), July 16, 1982. Document location: Ecology and Environment Engineering, P.C., Buffalo, New York.   |
| 8                   | Chudyk, S., July 3, 1990, personal communication, Highway Superintendent, Town of Chili, New York. Document location: Ecology and Environment Engineering, P.C., Buffalo, New York.  |
| 9                   | National Conference of State Historic Preservation Officers, National Park Service, and American Association for State and Local History, 1989, <u>National Register of Historic Places 1966-1988</u> , American Association for State and Local History, Nashville, Tennessee. Document location: Ecology and Environment Engineering, P.C., Buffalo, New York.             |
| 10                  | United States Geological Survey, 1971, Clifton, New York Quadrangle, Monroe County, New York, 7.5-Minute Series (Topographic), Washington, D.C. Document location: Ecology and Environment Engineering, P.C., Buffalo, New York.   |

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02[UZ]YN480:D2833/6639

Reference  
Number

Description of the Reference

- 11 \_\_\_\_\_, 1978, Rochester West, New York Quadrangle, Photorevised from 1971, Monroe County, New York, 7.5-Minute Series (Topographic), Washington, D.C.
- 12 \_\_\_\_\_, 1978, Spencerport, New York Quadrangle, Photorevised from 1971, Monroe County, New York, 7.5-Minute Series (Topographic), Washington, D.C.
- 13 \_\_\_\_\_, 1978, West Henrietta, New York Quadrangle, Photorevised from 1971, Monroe County, New York, 7.5-Minute Series (Topographic), Washington, D.C.
- 14 Hershfield, D., 1963, Rainfall Frequency from 30 minutes to 24 hours and Return Periods from 1 to 10 years, Technical Paper No. 40, prepared for United States Department of Agriculture, Soil Conservation Service, Washington, D.C. Document location: Ecology and Environment Engineering, P.C., Buffalo, New York.
- 15 Kirsch, K., April 11, 1990, personal communication, New York State Department of Environmental Conservaiton, Wetlands Section, Avon, New York. Document location: Ecology and Environment Engineering, P.C., Buffalo, New York.
- 16 General Sciences Corporation, 1987, Graphical Exposure Modeling System Users Guide, Volume I: Core Manual, United States Environmental Protection Agency, Washington, D.C.
- 17 Monroe County Department of Planning, 1988, Existing Land Use Map 1 Environmental Planning Atlas, Rochester, New York.
- 18 Christian, J., July 5, 1990, personal communication, Fire Marshall, Town of Chili, Chili, New York. Document location: Ecology and Environment Engineering, P.C., Buffalo, New York.
- 19 Fitzsimons, L., January 21, 1991, personal communication, Golden Road Disposal Site owner, Chili, New York. Document location: Ecology and Environment Engineering, P.C., Buffalo, New York.

02[UZ]YN480:D2833/6639

**REFERENCE 1**

# ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK

## PHASE II INVESTIGATIONS

Golden Road Disposal Site  
Site No. 828021  
Town of Chili, Monroe County

August 1990  
Volume I



Prepared for:

**New York State Department  
of Environmental Conservation**

50 Wolf Road, Albany, New York 12233  
*Thomas C. Jorling, Commissioner*

**Division of Hazardous Waste Remediation**

*Michael J. O'Toole, Jr., P.E., Director*

Prepared by:

**Ecology and Environment Engineering, P.C.**

5-26

**REFERENCE 2**

Series 1933, No. 17

Issued May 1938

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G3803.M6

UNITED STATES DEPARTMENT OF AGRICULTURE

Soil Survey  
of  
Monroe County, New York

By

A. T. SWEET, in Charge, and W. J. LATIMER  
United States Department of Agriculture

and

C. S. PEARSON, C. H. DIEBOLD, W. W. RIETZ  
C. P. MEAD, WILBER SECOR, and MONTAGUE HOWARD, Jr.  
Cornell University Agricultural Experiment Station



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In cooperation with the  
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**REFERENCE 3**

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# SOIL SURVEY

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# Monroe County New York

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UNITED STATES DEPARTMENT OF AGRICULTURE  
Soil Conservation Service  
In cooperation with  
CORNELL UNIVERSITY AGRICULTURAL EXPERIMENT STATION  
Issued March 1973

5-30



# SOIL SURVEY OF MONROE COUNTY, NEW YORK

By ROBERT L. HEFFNER AND SEYMOUR D. GOODMAN, SOIL CONSERVATION SERVICE

SOILS SURVEYED BY ROBERT L. HEFFNER, SEYMOUR D. GOODMAN, BRADFORD A. HIGGINS, AND TROY D. YOAKUM, SOIL CONSERVATION SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, IN COOPERATION WITH THE CORNELL UNIVERSITY AGRICULTURAL EXPERIMENT STATION

**M**ONROE COUNTY is in the Erie-Ontario Lake Plain region of western New York (fig. 1). It is approximately 25 miles from north to south and 27 miles from east to west. It has a total area of 430,720 acres, or about 673 square miles. Rochester, the county seat, is in the northern part of the county.

State Park. The county owns approximately 10,000 acres of parkland, which is distributed throughout the county.

Rochester, the county seat, has many manufacturing facilities that include food processing, clothing, graphic arts, cameras, chemicals, automotive parts, and heavy machine tools. Brockport, Honeoye Falls, Hilton, and other towns also have small manufacturing facilities.

## How This Survey Was Made

Soil scientists made this survey to learn what kinds of soil are in Monroe County, where they are located, and how they can be used. The soil scientists went into the county knowing they were likely to find many soils they had already seen and perhaps some they had not. As they traveled over the county, they observed the steepness, length, and shape of slopes, the size and speed of streams, the kinds of native plants or crops, the kinds of rock, and many facts about the soils. They dug many holes to expose soil profiles. A profile is the sequence of natural layers, or horizons, in a soil; it extends from the surface down into the parent material that has not been changed much by leaching or by the action of plant roots.

The soil scientists made comparisons among the profiles they studied, and they compared these profiles with those in counties nearby and in places more distant. They classified and named the soils according to nationwide, uniform procedures. The soil series (7)<sup>1</sup> and the soil phase are the categories of soil classification most used in a local survey.

Soils that have profiles almost alike make up a soil series. Except for different texture in the surface layer, all the soils of one series have major horizons that are similar in thickness, arrangement, and other important characteristics. Each soil series is named for a town or other geographic feature near the place where a soil of that series was first observed and mapped. Collamer and Hilton, for example, are the names of two soil series. All the soils in the United States having the same series name are essentially alike in those characteristics that affect their behavior in the undisturbed landscape.

Soils of one series can differ in texture of the surface layer and in slope, stoniness, or some other characteristic that affects use of the soils by man. On the basis of such differences, a soil series is divided into phases. The name of a soil phase indicates a feature that affects management.

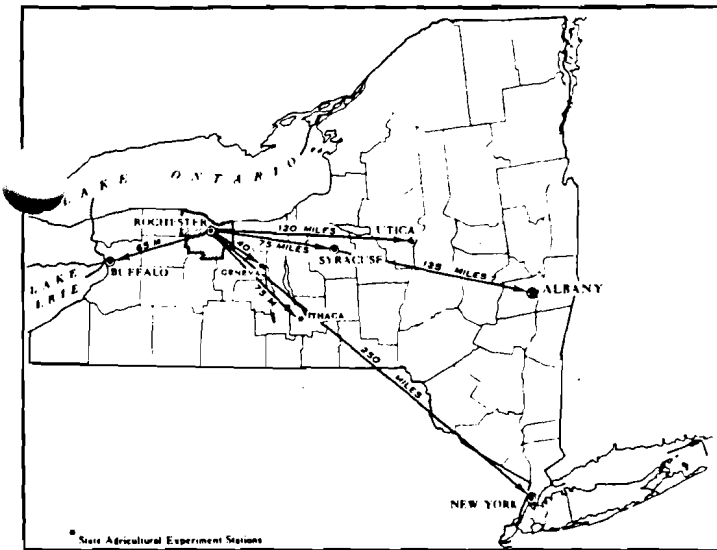


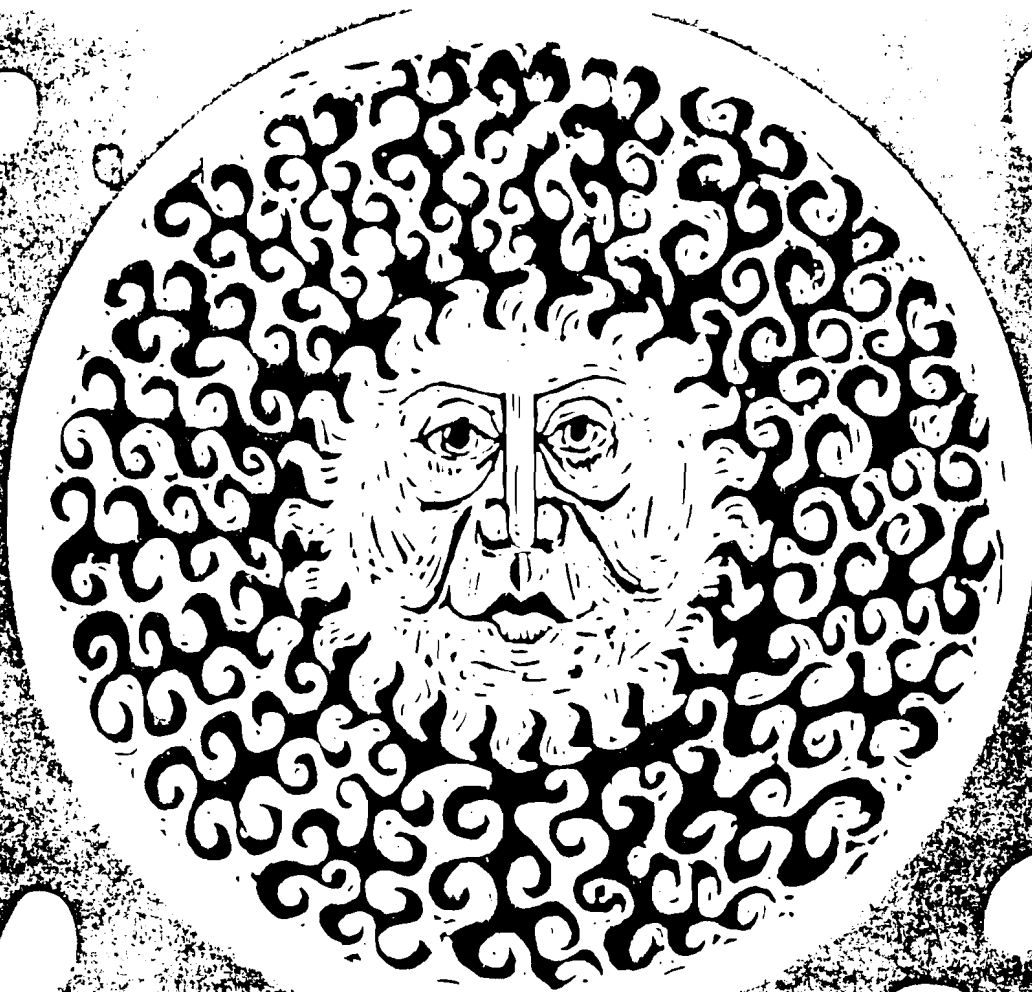
Figure 1.—Location of Monroe County in New York.

Slightly less than half the county is used for farming. Dairying is the predominant farm enterprise. A substantial amount of fluid milk is sold. Also important are cash-grain crops and fruits and vegetables. Grain crops are grown for dairy feed, as well as for cash income. Also, a considerable acreage of dry beans is grown in the county. North of U.S. Route 10 $\frac{1}{2}$  and also in small areas south of this highway, an extensive acreage is used for fruits and vegetables. Apples, cherries, pears, prunes, tomatoes, potatoes, cabbage, and green beans are commonly grown. Approximately 30 percent of the total dollar value of farm products sold comes from the sale of fruits and vegetables.

Only a small percentage of the county is used for woodland. Much of the acreage is scattered throughout the county in small farm woodlots. Much of the woodland is owned by the Government. The State owns land along the Ontario Parkway, the Erie Barge Canal, and Hamlin

<sup>1</sup> Italic numbers in parentheses refer to Literature Cited, p. 170.

**REFERENCE 4**



# CLIMATIC ATLAS OF THE UNITED STATES

Environmental Science Services Administration  
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**ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION**  
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**JUNE 1968**

**REPRINTED BY THE**  
**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**  
**1983**

**REFERENCE 5**

GOLDEN ROAD DISPOSAL SITE

NEW YORK STATE SUPERFUND  
PHASE I SUMMARY REPORT

FINAL

November 28, 1983

Prepared By:

Recra Research, Inc.  
4248 Ridge Lea Road  
Amherst, New York 14226

For:

New York State Department of Environmental Conservation  
50 Wolf Road  
Albany, New York 12233-0001

5-36

**REFERENCE 6**

SAMPLING REPORT

Golden Road Disposal Site

Chili (T), Monroe (C)

Site Code: 8-28-021

Priority Code: N

Date Sampled: July 20, 1983

By: Deborah Jackson  
Senior Engineering Technician  
Division of Solid and Hazardous Waste  
Region 8

July 25, 1983



**REFERENCE 7**

---

# Uncontrolled Hazardous Waste Site Ranking System

## A Users Manual (HW-10)

Originally Published in  
the July 16, 1982, *Federal Register*

United States  
Environmental Protection  
Agency

1984

5-40

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**REFERENCE 8**

CONTACT REPORT

Telephone (X) Meeting ( ) Other ( )

AGENCY: Town of Chili  
ADDRESS: 3235 Chili Ave.  
Rochester, N.Y. 14624  
PHONE NO.: (716) 889-3550  
PERSON CONTACTED: Steven Chudyk  
Highway Superintendent  
TO: YN-4000  
FROM: G. Florentino  
DATE: 7/3/90  
SUBJECT: Water Supply for Town of Chili

Mr. Chudyk stated that there are residences south of Black Creek in the Town of Chili that are not on Monroe County water and there may also be some residences north of Black Creek on private wells.

Acknowledgment:  
(See Attached)

Signature: Stephen A. Chudyk Date: July 9, 1990  
Title: Supt. of Highways

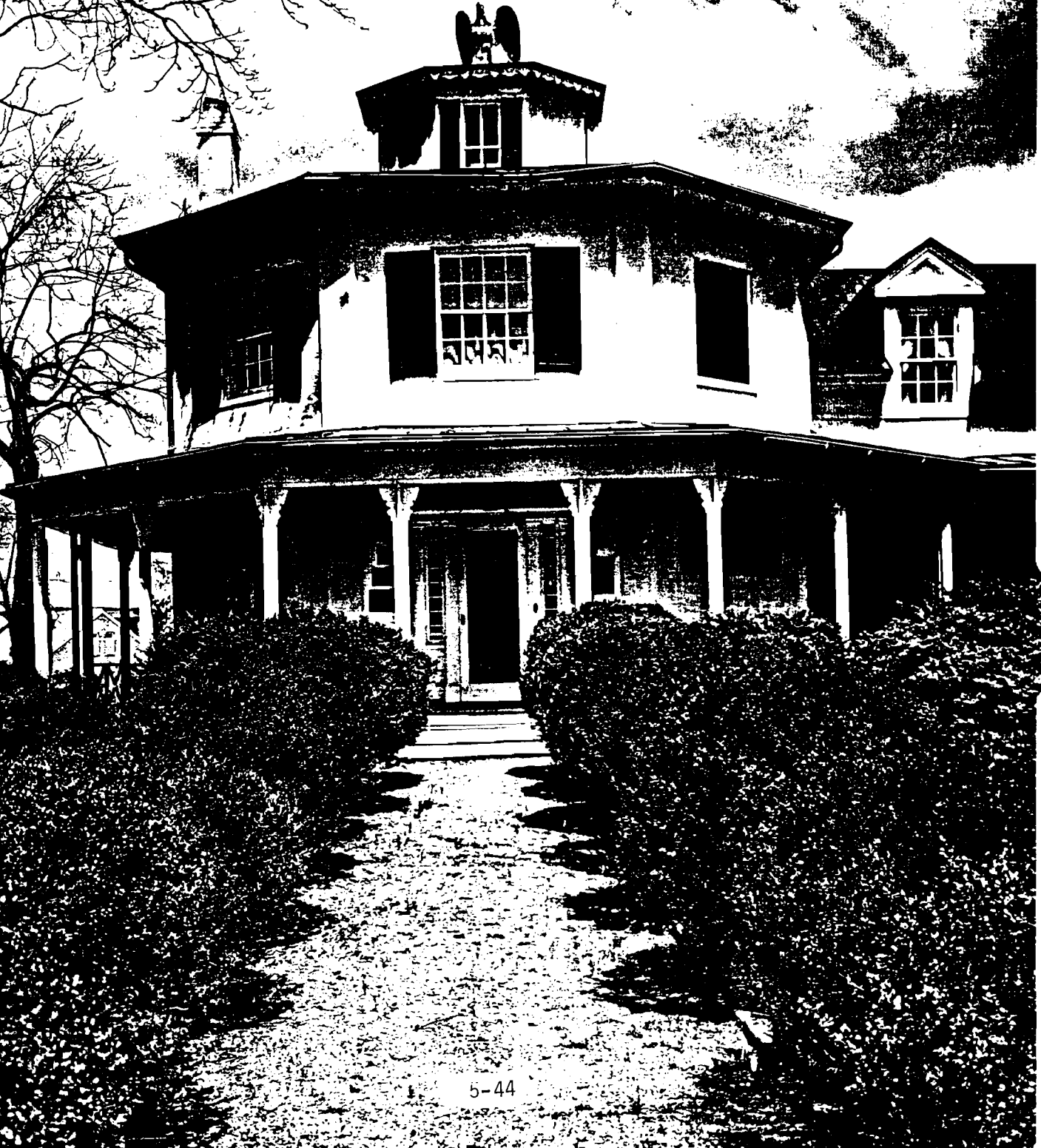
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**REFERENCE 9**

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# NEW OF HISTORIC PLACE 1966-1988



# NATIONAL REGISTER OF HISTORIC PLACES 1966-1988

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AMERICAN ASSOCIATION FOR  
STATE AND LOCAL HISTORY  
*Nashville, Tennessee*

5-45

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1. Historic sites—United States—Directories. I. United States. National Park Service. II. National Conference of State Historic Preservation Officers. III. American Association for State and Local History.

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The cumulative list included in this edition of the *National Register of Historic Places 1966-1988* has been compiled, edited, and provided to the American Association for State and Local History in magnetic tape form by the National Park Service.

#### Photo Credits

Front Cover - The Glebe in Arlington, Virginia, has evolved to its present condition with additions made to it over the years. Walter Jones built the original portion in the early 1820s with the artist, Clark Mills, adding the octagonal wing to the house in the 1850s. That wing is one of the best examples of this mid-19th century building form. (*HABS, Jack E. Boucher.*)

Back Cover - Top: *W.P. Snyder, Jr.*, shown here underway at Pittsburgh, Pennsylvania, circa 1945, is a sternwheel river towboat designed to pass under low bridges. Called a "poolboat" and built in 1918 for Carnegie Steel, she towed barges of coal on the Ohio, Mississippi, and Monongahela rivers. She is now a museum vessel at the Ohio River Museum in Marietta, Ohio. (*Courtesy of Ohio Historical Society*) Middle: This archeological site is the remains of Fort Filmore. The fort, near Las Cruces, New Mexico, was a typical southwestern army post of the 1850s. Sand soon covered the fort after it was abandoned in 1862, which helped preserve the lower portions of the adobe walls. (*John P. Wilson*) Bottom: Southern Terminal and Warehouse Historic District was the wholesaling center for the city of Knoxville, Tennessee, and much of the surrounding region in the late 19th and early 20th centuries. A variety of commercial architectural styles highlights the district. (*Gail L. Guymon.*)



**Madison County—Continued**

- Comstock, Zephnia, Farmhouse [Cazenovia Town MRA], 2363 Nelson St., Cazenovia, 11/02/87, A.C. 87001866
- Cottage Lawn, 435 Main St., Oneida, 11/06/80, A.C. 80002650
- Crandall Farm Complex [Cazenovia Town MRA], 2430 Ballina Rd., Cazenovia vicinity, 11/02/87, A.C. 87001867
- Evergreen Acres [Cazenovia Town MRA], Syracuse Rd., Cazenovia vicinity, 11/02/87, A.C. 87001868
- First National Bank of Morrisville, Main St., Morrisville, 9/12/85, A.C. 85002365
- Hamilton Village Historic District, Roughly Kendrick Ave., Broad, Payne, Hamilton, Madison, Pleasant and Lewbanon Sts., Hamilton, 9/13/84, C. 84002494
- House at 107 Stroud Street [Canastota Village MRA], 107 Stroud St., Canastota, 5/23/86, C. 86001302
- House at 115 South Main Street [Canastota Village MRA], 115 S. Main St., Canastota, 5/23/86, C. 86001289
- House at 205 North Main Street [Canastota Village MRA], 205 N. Main St., Canastota, 5/23/86, C. 86001296
- House at 233 James Street [Canastota Village MRA], 233 James St., Canastota, 5/23/86, C. 86001295
- House at 313 North Main Street [Canastota Village MRA], 313 N. Main St., Canastota, 5/23/86, C. 86001298
- House at 326 North Peterboro Street [Canastota Village MRA], 326 N. Peterboro St., Canastota, 5/23/86, C. 86001299
- House at 328 North Peterboro Street [Canastota Village MRA], 328 N. Peterboro St., Canastota, 5/23/86, C. 86001301
- Lorenzo, Ledyard St. (U.S. 20), Cazenovia, 2/18/71, C. 71000541
- Main-Broad-Grove Streets Historic District, Roughly bounded by Main, Broad, E. Grove, W. Grove, Wilbur, Elizabeth, E. Walnut, W. Walnut, and Stone Sts., Oneida, 9/15/83, C. 83001705
- Maples, The [Cazenovia Town MRA], 2420 Nelson Rd., Cazenovia vicinity, 11/02/87, A.C. 87001876
- Meadows Farm Complex [Cazenovia Town MRA], Rippleton Rd., Cazenovia vicinity, 11/02/87, A.C. 87001869
- Middle Farmhouse [Cazenovia Town MRA], 4875 W. Lake Rd., Cazenovia vicinity, 11/02/87, C. 87001870
- Niles Farmhouse [Cazenovia Town MRA], Rippleton Rd., Cazenovia vicinity, 11/02/87, A.C. 87001871
- Old Biology Hall, Colgate University, Hamilton, 9/20/73, C. 73001199
- Old Madison County Courthouse, E. Main St., Morrisville, 6/15/78, A.C. 78001860
- Oneida Community Mansion House, Sherrill Rd., Oneida, 10/15/66, A.B.a. NHL, 66000527
- Parker Farmhouse [Cazenovia Town MRA], 3981 East Rd., Cazenovia vicinity, 11/02/87, A.C. 87001872
- Peterboro Land Office, Peterboro Rd., Peterboro, 9/07/84, A.C. 84002498
- Peterboro Street Elementary School [Canastota Village MRA], 220 N. Peterboro St., Canastota, 5/23/86, C. 86001304
- Roberts, Judge Nathan S., House [Canastota Village MRA], W. Seneca Ave., Canastota, 5/23/86, C. 86001305
- Rolling Ridge Farm [Cazenovia Town MRA], 3937 Number Nine Rd., Cazenovia vicinity, 11/02/87, A.C. 87001873
- Smith, Adon, House, 3 Broad St., Hamilton, 5/02/74, C. 74001256
- South Peterboro Street Commercial Historic District [Canastota Village MRA], Roughly bounded by NY 76, Diamond St., Penn Central RR tracks, and Commerce Ave., Canastota, 5/23/86, C. 86001287
- South Peterboro Street Residential Historic District [Canastota Village MRA], S. Peterboro St. between Terrace and Rasbach Sts., Canastota, 5/23/86, C. 86001288
- Sweetland Farmhouse [Cazenovia Town MRA], Number Nine Rd., Cazenovia vicinity, 11/02/87, C. 87001874
- Tall Pines [Cazenovia Town MRA], Ridge Rd., Cazenovia vicinity, 11/02/87, C. 87001875
- US Post Office—Canastota [US Post Offices in New York State, 1858-1943, TR], 118 S. Peterboro St., Canton, 11/17/88, A.C. 88002467
- United Church of Canastota [Canastota Village MRA], 144 W. Center St., Canastota, 5/23/86, C.a. 86001306
- Wheeler House Complex, NY 8, Leonardsville, 9/22/83, C. 83001706

**Monroe County**

- Adams-Ryan House, 425 Washington St., Adams Basin, 9/05/85, A.C. 85001957
- Andrews Street Bridge [Inner Loop MRA; Stone Arch Bridge TR], Andrews St. at Genesee River, Rochester, 10/11/84, A.C. 84000182
- Anthony, Susan B., House, 17 Madison St., Rochester, 10/15/66, B. NHL, 66000528
- Bevier Memorial Building, Washington St., Rochester, 10/25/73, A.C. 73001201
- Bridge Square Historic District [Inner Loop MRA], Roughly bounded by Inner Loop, Centre Park, Washington and W. Main Sts., Rochester, 10/11/84, A.C. 84000273
- Brown, Adam, Block [Inner Loop MRA], 480 E. Main St., Rochester, 10/04/85, C. 85002857
- Building at 551—555 North Goodman Street, 551—555 N. Goodman St., Rochester, 3/20/86, C. 86000448
- Campbell-Whittlesey House, 123 S. Fitzhugh St., Rochester, 2/18/71, C. 71000542
- Chamber of Commerce [Inner Loop MRA], 55 Saint Paul St., Rochester, 10/04/85, C. 85002859
- Child, Jonathan, House & Brewster-Burke House Historic District, 37 S. Washington St. and 130 Spring St., Rochester, 2/18/71, B,C, 71000543
- Chili Mills Conservation Area, 1 mi. SW of West Chili off Stuart Rd. along Black Creek, West Chili vicinity, 3/12/75, C,D, 75001198
- City Hall Historic District, S. Fitzhugh St. between Broad and W. Main Sts., Rochester, 9/17/74, A,C,a. 74001258
- Cohen, H. C., Company Building—Andrews Building [Inner Loop MRA], 216 Andrews St., Rochester, 10/04/85, A.C. 85002853
- Court Exchange Building—National Casket Company [Inner Loop MRA], 142 Exchange St., Rochester, 10/04/85, C. 85002850
- Court Street Bridge [Inner Loop MRA; Stone Arch Bridge TR], Court St. at Genesee River, Rochester, 10/11/84, A.C. 84000276
- Cox Building [Inner Loop MRA; Department Store TR], 36-48 St. Paul St., Rochester, 10/11/84, A.C. 84000279
- Daisy Flour Mill, Inc., 1880 Blossom Rd., Rochester, 6/26/72, A.C. 72000855
- DeLand, Henry, House, 99 S. Main St., Fairport, 4/17/80, C. 80004610
- Dewey, Chester, School No. 14 [Inner Loop MRA], 200 University Ave., Rochester, 10/04/85, C. 85002847
- East Avenue Historic District, Irregular pattern along East Ave. from Probert St. to Alexander St., Rochester, 4/17/79, A.C. 79001589
- East High School, 410 Alexander St., Rochester, 6/30/83, C. 83001707
- Eastman Dental Dispensary, 800 E. Main St., Rochester, 4/28/83, B,C. 83001708
- Eastman, George, House, 900 East Ave., Rochester, 11/13/66, B. NHL, 66000529
- Edwards Building [Inner Loop MRA; Department Store TR], 26-34 St. Paul St., Rochester, 10/11/84, A.C. 84000287
- Ely, Hervey, House, 138 Troup St., Rochester, 8/12/71, C. 71000544
- Erie Canal: Second Genesee Aqueduct, Broad St., Rochester, 9/29/76, A.C. 76001228
- Federal Building, N. Fitzhugh and Church Sts., Rochester, 4/13/72, C. 72000856
- First National Bank of Rochester—Old Monroe County Savings Bank Building [Inner Loop MRA], 35 State St., Rochester, 10/04/85, C. 85002861
- First Presbyterian Church, 101 S. Plymouth Ave., Rochester, 10/25/73, C.a. 73001202
- First Universalist Church, SE corner of S. Clinton Ave. and Court St., Rochester, 5/27/71, C.a. 71000545
- Gannett Building [Inner Loop MRA], 55 Exchange St., Rochester, 10/04/85, A.C. 85002862
- Genesee Lighthouse, 70 Lighthouse St., Rochester, 8/13/74, A. 74001259

**Monroe County—Continued**

- Granite Building [Inner Loop MRA; Department Store TR], 124 E. Main St., Rochester, 10/11/84, A.C, 84000290
- Grove Place Historic District [Inner Loop MRA], Gibbs, Selden, Grove and Windsor Sts., Rochester, 10/11/84, A.C, 84000299
- Hinchey, Franklin, House, 634 Hinchey Rd., Gates, 11/10/83, C, 83004045
- House at 235—237 Reynolds Street, 235—237 Reynolds St., Rochester, 9/12/85, C, 85002272
- Jewish Young Men's and Women's Association [Inner Loop MRA], 400 Andrews St., Rochester, 10/04/85, C, 85002848
- Kirstein Building [Inner Loop MRA], 242 Andrews St., Rochester, 10/04/85, A.C, 85002844
- Lehigh Valley Railroad Station [Inner Loop MRA], 99 Court St., Rochester, 10/04/85, A.C, 85002858
- Leopold Street Shule, 30 Leopold St., Rochester, 6/07/74, A.C,a, 74001260
- Little Theatre [Inner Loop MRA], 240 East Ave., Rochester, 10/04/85, A.C, 85002860
- Lower Mill, N. Main St., Honeoye Falls, 5/17/73, A.C, 73001200
- Madison Square—West Main Street Historic District, Roughly bounded by Silver, Canal, W. Main and Madison Sts., Rochester, 11/03/88, A.C, 88002382
- Main Street Bridge [Inner Loop MRA; Stone Arch Bridge TR], Main St. at Genesee River, Rochester, 10/11/84, A.C, 84000303
- Michaels—Stern Building [Inner Loop MRA], 87 N. Clinton Ave., Rochester, 10/04/85, A.C, 85002854
- Mt. Hope-Highland Historic District, Bounded roughly by the Clarissa St. Bridge, Genesee River, Grove and Mt. Hope Aves., plus Rochester, 1/21/74, B.C, 74001261
- Mud House, 1000 Whalen Rd., Penfield, 10/11/78, C, 78001862
- National Company Building [Inner Loop MRA; Department Store TR], 159 E. Main St., Rochester, 10/11/84, A.C, 84000291
- Naval Armory—Convention Hall [Inner Loop MRA], 75 Woodbury Blvd., Rochester, 10/04/85, A, 85002852
- Nazareth House, 94 Averill Ave., Rochester, 4/12/84, A.C,a, 84002734
- O'Kane Market and O'Kane Building, 104—106 Bartlett St. & 239—255 Reynolds St., Rochester, 9/12/85, C, 85002288
- Old Stone Warehouse, 1 Mt. Hope Ave., Rochester, 10/15/73, A.C, 73001203
- Phoenix Building, S. Main and State Sts., Pittsford, 8/07/74, A.C, 74001257
- Pittsford Village Historic District, Roughly bounded by the Canal, Jefferson Ave., Sutherland, and South Sts., Pittsford, 9/07/84, C, 84002736
- Powers Building, W. Main and State Sts., Rochester, 4/03/73, A.C, 73001204
- Reynolds Arcade [Inner Loop MRA], 16 E. Main St., Rochester, 10/04/85, C, 85002855
- Rich, Samuel, House, 2204 Five Mile Line Rd., Penfield vicinity, 12/30/87, A.B.C, 87002199
- Richardson's Tavern, 1474 Marsh Rd., Perinton, 5/06/80, A.C, 80002652
- Riga Academy, 3 Riga-Mumford Rd., Riga, 11/21/80, A.C, 80002653
- Rochester City School #24, Meigs St., Rochester, 9/15/83, C, 83001709
- Rochester Fire Department Headquarters and Shops [Inner Loop MRA], 185 North St., Rochester, 10/21/85, C.g, 85003361
- Rochester Savings Bank, 40 Franklin St., Rochester, 3/16/72, A.C, 72000857
- Rochester Street Historic District, Both sides of Rochester St., Scottsville, 10/25/73, C, 73001205
- Rundel Memorial Library [Inner Loop MRA], 115 South Ave., Rochester, 10/04/85, C, 85002845
- Shingleside, 476 Beach Ave., Rochester, 9/13/84, C, 84002737
- Sibley Triangle Building [Inner Loop MRA], 20—30 East Ave., Rochester, 10/04/85, C, 85002849
- Sibley, Hiram, Homestead, 29 Sibley Rd., Sibleyville, 9/12/85, B.C.b, 85002291
- Spring House, 3001 Monroe Ave., Pittsford vicinity, 11/20/75, A.C, 75001199
- St. John's Episcopal Church, 11 Episcopal Ave., Honeoye Falls, 7/07/88, C,a, 88001014
- St. Joseph Roman Catholic Church and Rectory, 108 Franklin St., Rochester, 5/29/75, A.C,a, 75001197
- St. Paul-North Water Streets Historic District [Inner Loop MRA], St. Paul, N. Water, and Andrews Sts., Rochester, 10/11/84, A.C, 84000398
- State Street Historic District [Inner Loop MRA], 109-173 State St., Rochester, 10/11/84, A.C, 84000402
- Stone-Tolan House, 2370 E. Ave., Brighton, 7/21/83, A.C,e, 83001710
- Third Ward Historic District, Roughly bounded by Adams and Peach Sts., I-490, and both sides of Troup and Fitzhugh Sts., Rochester, 7/12/74, A.B.C, 74001262
- Totiaktion Site, Address Restricted, Honeoye Falls vicinity, 9/21/78, D, 78001861
- US Post Office—East Rochester [US Post Offices in New York State, 1858-1943, TR], 206 W. Commercial St., East Rochester, 11/17/88, A.C, 88002495
- University Club [Inner Loop MRA], 26 Broadway, Rochester, 10/04/85, C, 85002851
- Vanderbeck House, 1295 Lake Ave., Rochester, 4/09/84, C, 84002739
- Warner, H. H., Building [Inner Loop MRA], 72—82 St. Paul St., Rochester, 10/04/85, A.C, 85002846
- Washington Street Rowhouses [Inner Loop MRA], 30—32 N. Washington St., Rochester, 10/04/85, C, 85002856

Wilbur House, 187 S. Main St., Fairport, 5/06/80, C, 80002651

Wilder Building [Inner Loop MRA], 1 E. Main St., Rochester, 10/04/85, A.C, 85002863

**Montgomery County**

- Butler, Walter, Homestead, NE of Fonda on Old Trail Rd., Fonda vicinity, 6/23/76, B, 76001229
- Caughnawaga Indian Village Site, Address Restricted, Fonda vicinity, 8/28/73, D, 73001207
- Ehle House Site, Address Restricted, Nelliston, 6/14/82, A,D, 82004780
- Ehle, Peter, House [Nelliston MRA], E. Main St., Nelliston, 9/27/80, B.C, 80002655
- Erie Canal, 6 mi. W of Amsterdam on NY 5S, Fort Hunter vicinity, 10/15/66, A.C,D, NHL, 66000530
- Fort Johnson, Jct. of NY 5 and 67, Fort Johnson, 11/28/72, B.C, NHL, 72000858
- Fort Klock, 2 mi. E of St. Johnsville on NY 5, St. Johnsville, 11/28/72, A, NHL, 72000859
- Fort Plain Conservation Area, Address Restricted, Fort Plain vicinity, 11/15/79, A.C,D,d, 79001591
- Greene Mansion, 92 Market St., Amsterdam, 12/31/79, B.C, 79001590
- Guy Park, W. Main St., Amsterdam, 2/06/73, B.C, 73001206
- Lasher-Davis House [Nelliston MRA], U.S. 5, Nelliston, 9/27/80, C, 80002656
- Nellis, Jacob, Farmhouse [Nelliston MRA], Nellis St., Nelliston, 9/27/80, B.C, 80002657
- Nelliston Historic District [Nelliston MRA], Prospect, River, Railroad and Berthoud Sts., Nelliston, 9/27/80, C, 80002658
- Palatine Bridge Freight House, E of Palatine Bridge on NY 5, Palatine Bridge vicinity, 3/07/73, A.C, 73001208
- Palatine Church, Mohawk Tpke., Palatine, 1/25/73, A.C,a, 73001209
- Reformed Dutch Church of Stone Arabia, E of Nelliston on NY 10, Nelliston vicinity, 9/14/77, A.C,a,d, 77000951
- Rice's Woods, Address Restricted, Canajoharie vicinity, 7/18/80, D,d, 80002654
- US Post Office—Amsterdam [US Post Offices in New York State, 1858-1943, TR], 12—16 Church St., Amsterdam, 11/17/88, A.C, 88002451
- US Post Office—Canajoharie [US Post Offices in New York State, 1858-1943, TR], 50 W. Main St., Canajoharie, 11/17/88, A.C, 88002464
- Van Alstyne House, Moyer St., Canajoharie, 9/08/83, A.C, 83001711
- Vrooman Avenue School, Vrooman Ave., Amsterdam, 6/30/83, A.C, 83001712
- Wagner, Webster, House, E. Grand St., Palatine Bridge, 3/07/73, B.C, 73001210
- Walrath-Van Horne House [Nelliston MRA], W. Main St., Nelliston, 9/27/80, A.C, 80002659

**REFERENCE 10**

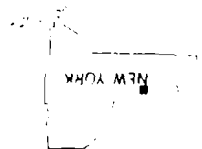
1971

CLIFTON, N. Y.

N4300-W7745/7.5

5-50

QUADRANGLE LOCATION



Primary highway  
hard surface

Secondary highway  
hard surface

Unimproved road  
hard surface

Light-duty road, hard or  
improved surface

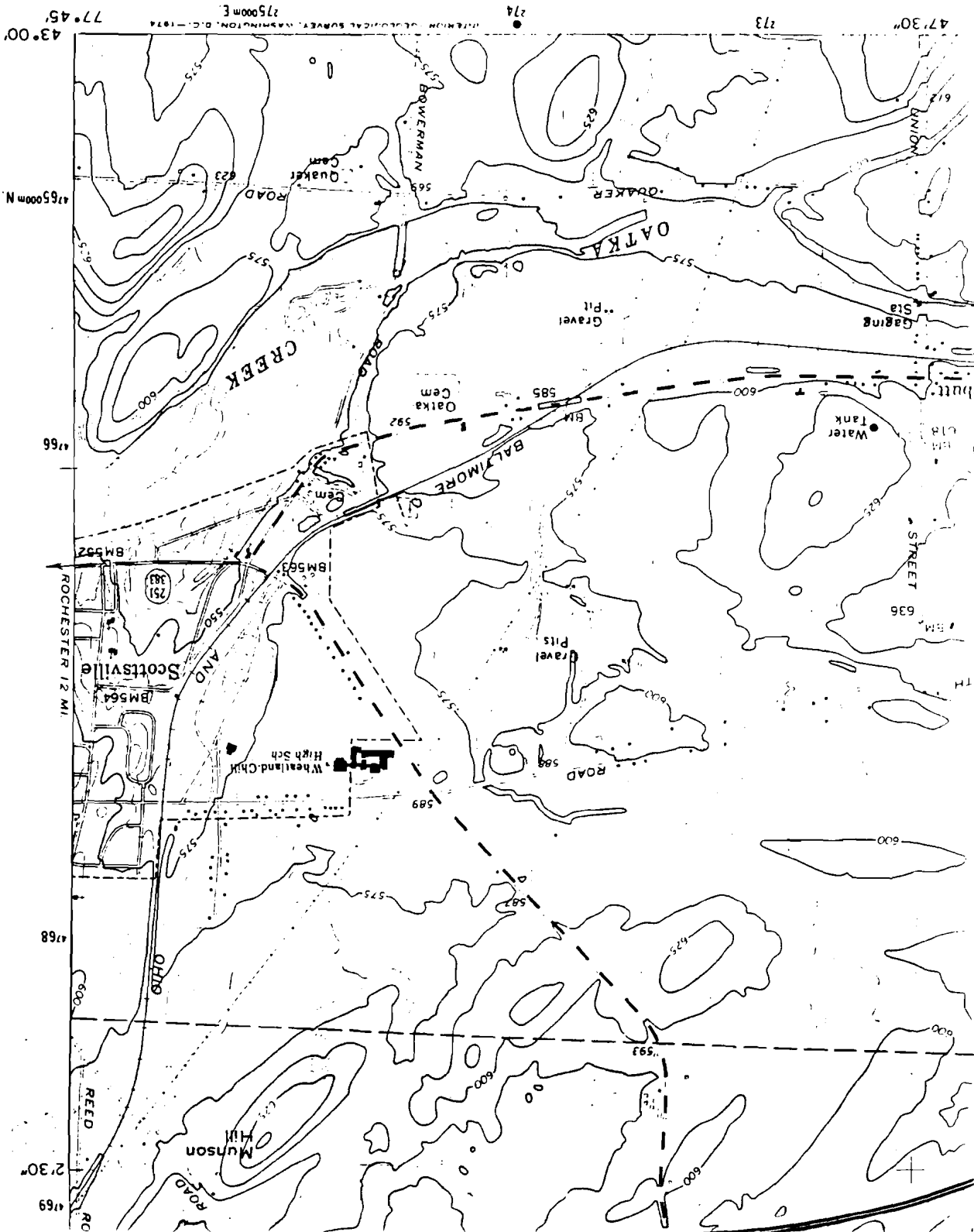
U S Route

Interstate Route

State Route

ROAD CLASSIFICATION

(RUSH)  
5469 INW



ROCHESTER 12 MI

ROAD

REED

OHIO

AND

SCOTTSDALE

ROAD

ROAD

ROAD

ROAD

ROAD

ROAD

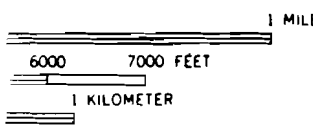
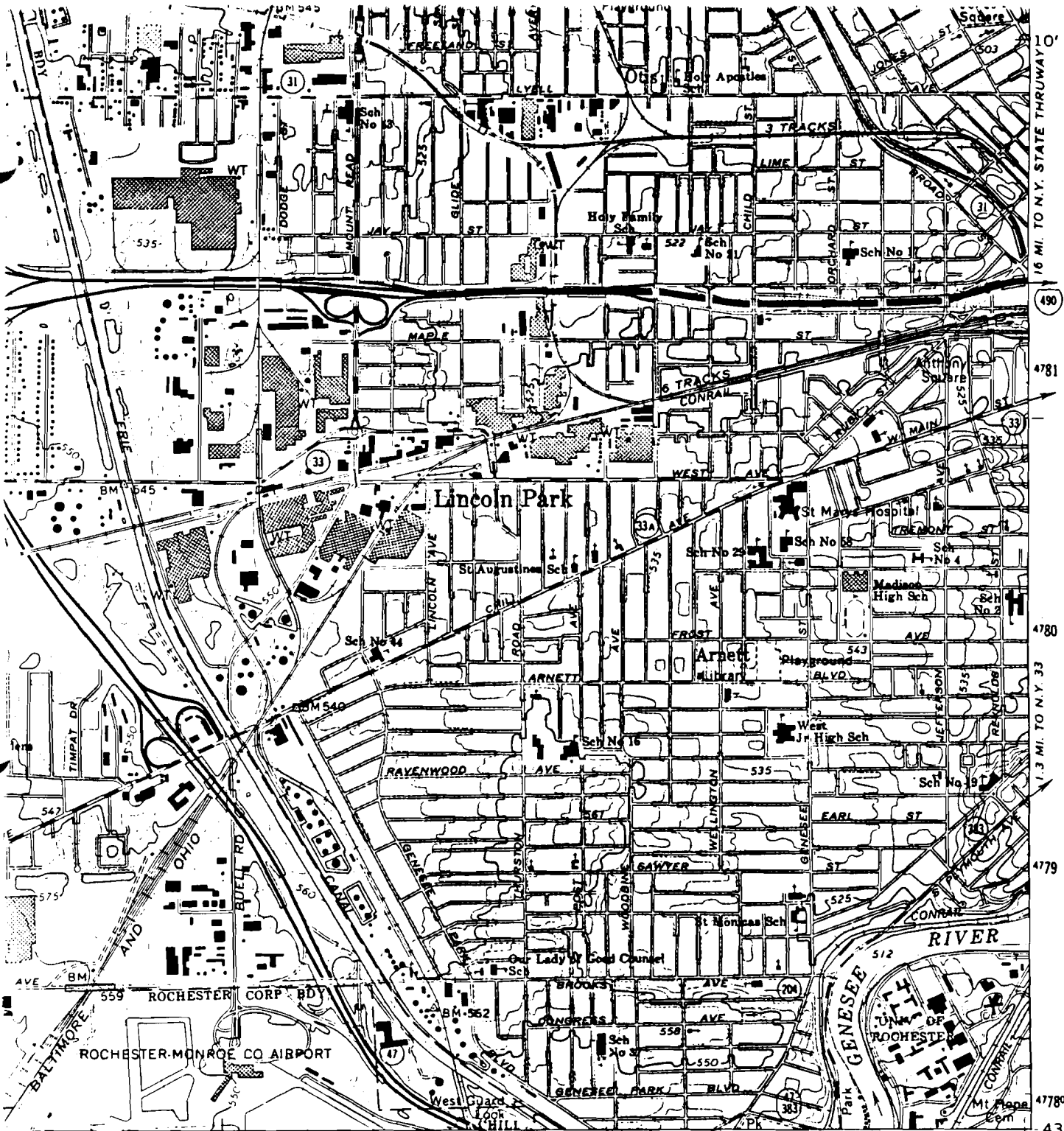
ROAD

ROAD

ROAD

ROAD

**REFERENCE 11**



WATER 242.8



QUADRANGLE LOCATION

ROADS

Revisions shown in purple compiled from aerial photographs taken 1976. This information not field checked. Map edited 1978.

22092

AVAILABLE ON REQUEST

Purple tint indicates extension of urban areas recycled paper

**ROAD CLASSIFICATION**

|                                 |   |
|---------------------------------|---|
| Primary highway, hard surface   | Light-duty road, hard or improved surface |
| Secondary highway, hard surface | Unimproved road                           |
| Interstate Route                | U. S. Route                               |
|                                 | State Route                               |

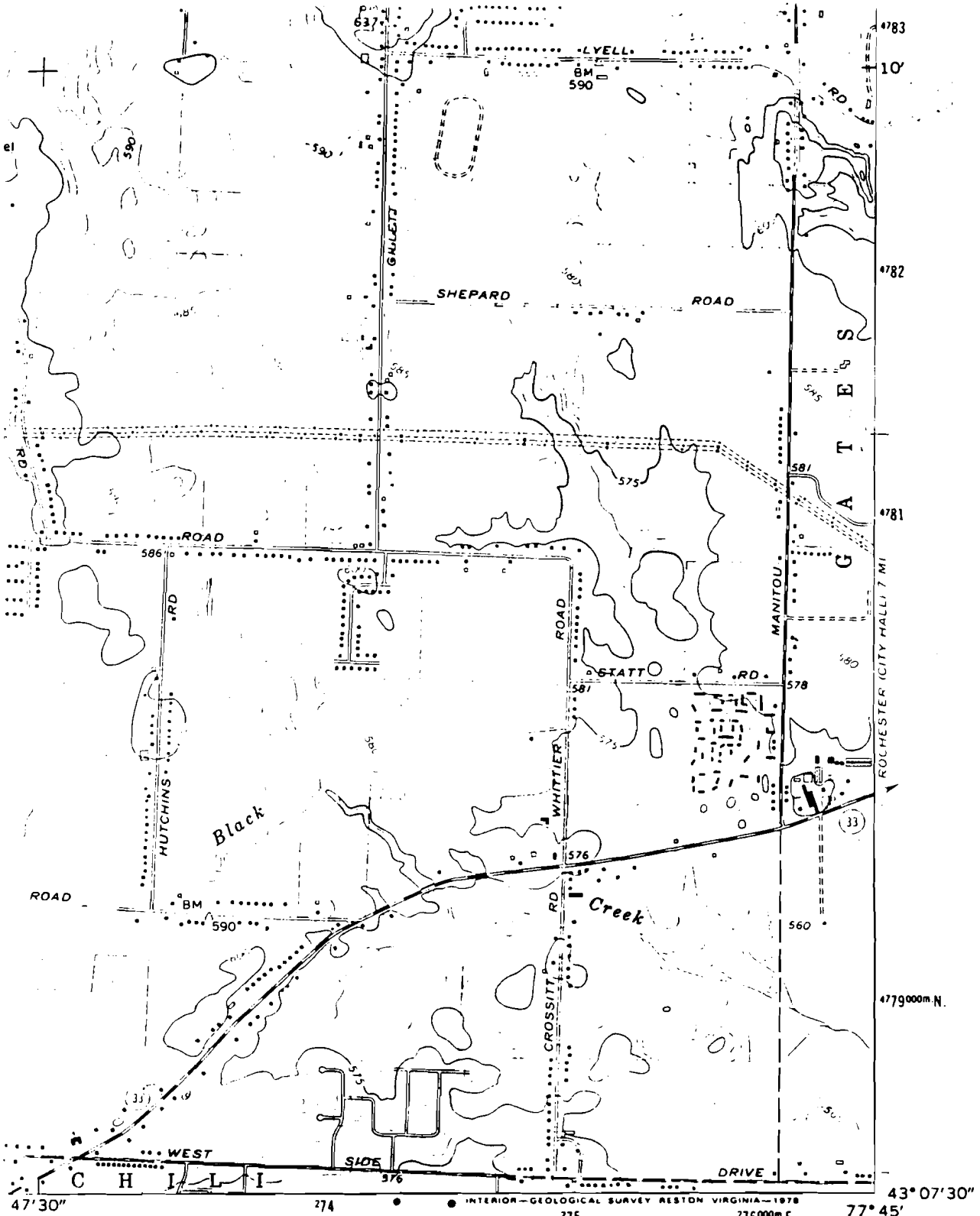
**ROCHESTER WEST, N. Y.**  
43077-B6-TF-024

1971  
PHOTOREVISED 1978  
DMA 5470 J1 NW-SERIES V821  
ecology and environment

5-52

(PITTS 5470 11)

**REFERENCE 12**



1 MILE



QUADRANGLE LOCATION

ROAD CLASSIFICATION

- Primary highway, hard surface
- Secondary highway, hard surface
- Interstate Route
- U S Route
- State Route
- Light-duty road, hard or improved surface
- Unimproved road

SPENCERPORT, N.Y.  
N4307.5—W7745/7.5

5-54

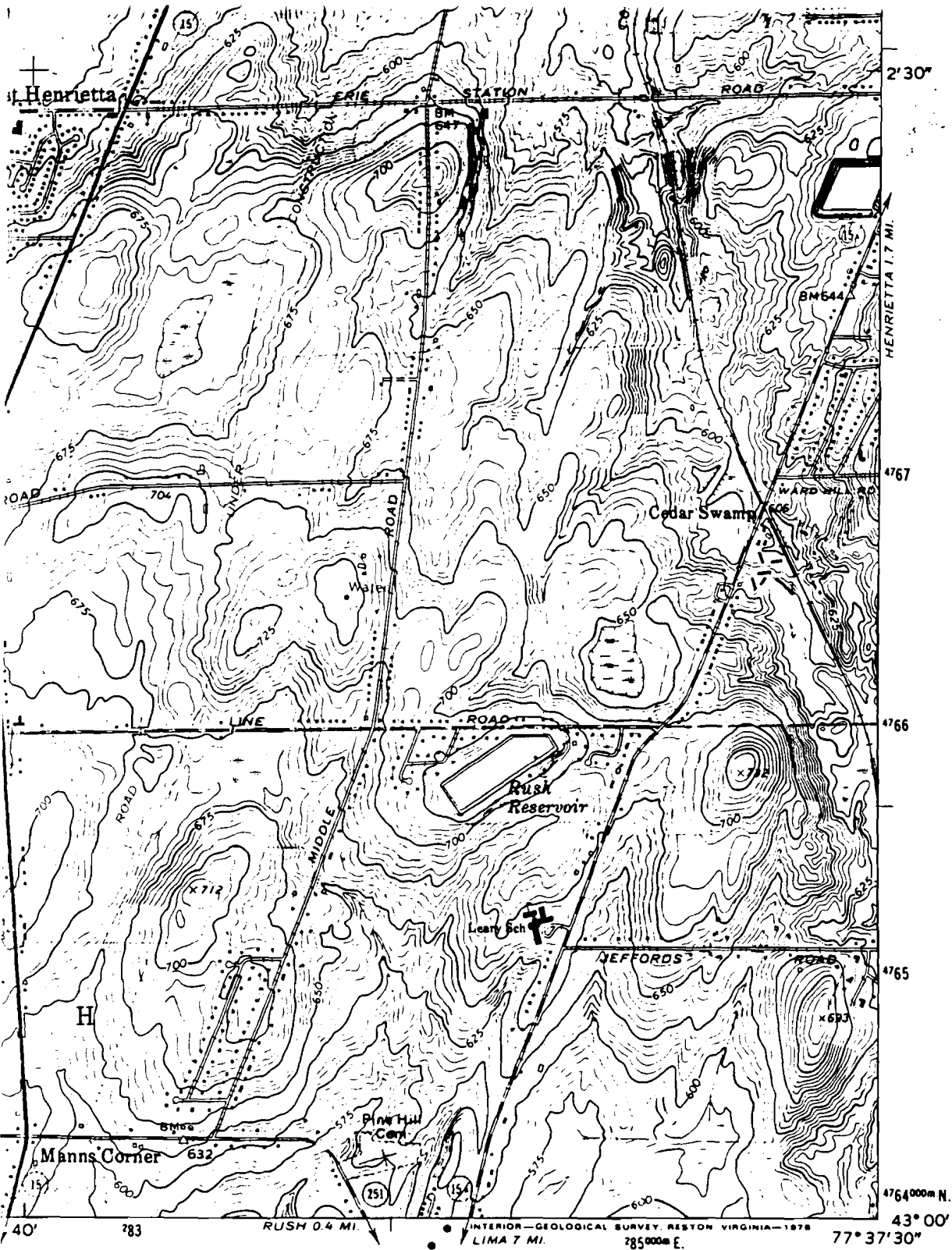
1971  
PHOTOREPRODUCED BY Environment  
AMS 5470 III NE—SERIES V821

recycled paper

(WEST HENRIETTA)  
5-40 11 SW



**REFERENCE 13**



MILE

ROAD CLASSIFICATION

- Primary highway, hard surface
- Secondary highway, hard surface
- Light-duty road, hard or improved surface
- Unimproved road
- Interstate Route
- U. S. Route
- State Route



QUADRANGLE LOCATION

WEST HENRIETTA, N. Y.  
N4300—W7737.5/7.5

5-56

1971  
PHOTOREVISED 1978  
AMS 5470 II SW—SERIES V821

recycled paper

(HONEYFALLS)  
5459 1 NE

REFERENCE 14

QC  
925.102  
T40

DEPARTMENT OF COMMERCE  
U.S. Secretary

WEATHER BUREAU  
F. W. REICHERDSEFER, Chief

TECHNICAL PAPER NO. 40

# RAINFALL FREQUENCY ATLAS OF THE UNITED STATES

for Durations from 30 Minutes to 24 Hours and  
Return Periods from 1 to 100 Years

Prepared by  
DAVID M. HERSHFIELD  
Cooperative Studies Section, Hydrologic Services Division  
for  
Engineering Division, Soil Conservation Service  
U.S. Department of Agriculture



**REFERENCE 15**

INTERVIEW ACKNOWLEDGEMENT FORM

SITE NAME: Golden Road

I.D. NUMBER:

PERSON

DATE: 4/11/89

CONTACTED: Kathy Kirsch

PHONE NUMBER: (716) 226-2466 ext. 346

AFFILIATION: NYSDEC, Region 8 Office, Wetlands Sec

CONTACT

ADDRESS: 6274 East Avon - Lima Rd., Avon, NY 14414 PERSON(S): Natasha Snyder and Matt Ki

TYPE OF CONTACT: Meeting

INTERVIEW SUMMARY

There are no coastal wetlands within two miles or less of the site.

There is no tidal influence on surface waters near the site.

ACKNOWLEDGEMENT

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to Ecology and Environment, Inc. interviewer(s) (as revised below, if necessary).

Revisions (please write in any corrections needed to above transcript)

Signature

*Kathleen G. Kirsch* 5-60

Date:

*4/11/89*

recycled paper

ecology and environment

REFERENCE 16

DRAFT  
GRAPHICAL EXPOSURE MODELING SYSTEM  
(GEMS)  
USER'S GUIDE  
VOLUME 1. CORE MANUAL

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES AND TOXIC SUBSTANCES  
EXPOSURE EVALUATION DIVISION  
Task No. 3-2.  
Contract No. 68023970  
Project Officer: Russell Kinerson  
Task Manager: Loren Hall

Prepared by:

GENERAL SCIENCES CORPORATION  
6100 Chevy Chase Drive, Suite 200  
Laurel, Maryland 20707

Submitted: February, 1987



**REFERENCE 17**

INTERVIEW ACKNOWLEDGEMENT FORM

SITE NAME: Golden Road

PERSON

CONTACTED: Arthur Ormsby

AFFILIATION: Monroe Co. Department of Planning

ADDRESS: 47 South Fitzhugh St., Suite 200  
Rochester, New York 14614-2299

TYPE OF CONTACT: Meeting

I.D. NUMBER:

DATE: 3/29 and 3/30/89

PHONE NUMBER: (716) 428-5461

CONTACT

PERSON(S): Natasha Snyder and Matt Ki

INTERVIEW SUMMARY

At the Monroe Co. Department of Planning the following information was examined and copied: Census tract maps and population figures; and the Environmental Planning Atlas for Monroe Co.

The Atlas included information on existing land use, contours and elevations, water mains and districts, prime farmland and agricultural districts, historic sites, and NYS freshwater wetlands.

ACKNOWLEDGEMENT

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to Ecology and Environment, Inc. interviewer(s) (as revised below, if necessary).

Revisions (please write in any corrections needed to above transcript)

Signature:

  
5-64

Date: March 30 1989

**REFERENCE 18**

5-65

CONTACT REPORT

Telephone (X) Meeting ( ) Other ( )

AGENCY: Town of Chili Town Hall  
ADDRESS: 3235 Chili Ave.  
Rochester, N.Y. 14624  
PHONE NO.: (716) 889-3550  
PERSON CONTACTED: Jim Christian  
TO: YN-4000 File  
FROM: G. Florentino  
DATE: 7/5/90  
SUBJECT: Fire Hazard at Golden Road Site

No apparent fire hazard at Golden Road Site (227 Golden Road, Chili, New York).

Acknowledgment:  
(See Attached)

Signature: Jim Christian Date: 7/12/90  
Title: Fire Marshal

GF/kk  
CR/YN4080  
[ENVSHARE]

5-66

REFERENCE 19



# ecology and environment, inc.

**BUFFALO CORPORATE CENTER**

368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060

International Specialists in the Environment

March 19, 1991

Mrs. H. Fitzsimons  
227 Golden Road  
Rochester, NY 14625

Dear Mrs. Fitzsimons:

Ecology and Environment Engineering, P.C., (E & E) has been contracted by the New York State Department of Environmental Conservation (NYSDEC) to conduct a Phase II investigation on your property.

In accordance with NYSDEC requirements on documentation of all reference material pertaining to this investigation, I would ask you to please review the notes of our telephone conversation (see attached) and make any necessary corrections. If the information is accurate, please sign and complete the information requested on each sheet and return to me in the envelope provided. Your assistance in this matter is greatly appreciated. If you have any questions, please call me at 716-684-8060.

Sincerely,

James J. Richert  
Project Manager

JJR/smj  
L/YN-4080  
[ENV]#885

CONTACT REPORT

Telephone (X) Meeting ( ) Other ( )

SITE: Golden Road Disposal Site  
ADDRESS: 227 Golden Road  
Rochester, NY 14624  
PHONE NO.: 716-594-2335  
PERSON  
CONTACTED: Linda Fitzsimons  
TO: Project File: YN-4000  
FROM: G. Florentino and J. Richert  
DATE: 3-14-91  
SUBJECT: Disposal History

The Fitzsimons accepted fill material to fill in low-lying areas to the south of the railroad tracks. The fill included:

- o U.S. Army artillery shell casings (no live ammunition) from the US Army Reserve 98th Division in Rochester
- o Foundry Sand from Abex Corp. in Rochester, NY  
- trucked by H. Fitzsimmons Jr.
- o Drums and assorted debris (south of the railroad tracks)  
- U.S. Army Reserve 98th Division  
- Chevron Oil  
- Unknown dumping

The Fitzsimons private well is located on the north side of the house, and is approximately 40 ft. in depth. The railroad which divides the property is active--both passenger and freight. The steel building to the south of the Fitzsimons residence on the north side of the railroad tracks has been used by the Fitzsimons' for general storage/maintenance/repair purpose in conjunction with their now inactive Chili Fuels and Great Western Construction business and their presently active farming business. The building was never considered an official office building. Fuel oil was stored in tanks on the west side of this building.

Contact Report/Fitzsimmons  
1/21/91  
Page Two

Acknowledgment

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to Ecology and Environment Engineering, P.C. Interviewer(s) as revised\* if necessary).

\*Revisions (please write in any corrections needed to the above transcript).

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

smj  
CR/YN-4070  
[ENV]#854



|  |  |                    |                              |
|--|--|--------------------|------------------------------|
| POTENTIAL HAZARDOUS WASTE SITE<br>SITE INSPECTION REPORT<br><br>EPA<br><br>PART 1 - SITE LOCATION AND INSPECTION INFORMATION | I. IDENTIFICATION<br><br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">01 State<br/><br/>NY</td> <td style="width: 50%;">02 Site Number<br/><br/>828021</td> </tr> </table> | 01 State<br><br>NY | 02 Site Number<br><br>828021 |
| 01 State<br><br>NY   | 02 Site Number<br><br>828021   |                    |                              |

|  |  |                              |  |   |                          |
|--|--|------------------------------|--|---|--------------------------|
| II. SITE NAME AND LOCATION   |  |                              |  |   |                          |
| 01 Site Name (Legal, common, or descriptive name of site)<br><br>Golden Road Disposal Site |  |                              | 02 Street, Route No., or Specific Location Identifier<br><br>227 Golden Road |   |                          |
| 03 City<br><br>Town of Chili   |  | 04 State<br><br>NY           | 05 Zip Code<br><br>14625   | 06 County<br><br>Monroe   | 07 County Code<br><br>28 |
| 09 Coordinates<br>Latitude<br><br>4 3 0 7 0 8  |  | Longitude<br><br>7 7 4 5 4 5 |  | 10 Type of Ownership (Check One)<br><input checked="" type="checkbox"/> A. Private <input type="checkbox"/> B. Federal <input type="checkbox"/> C. State<br><input type="checkbox"/> D. County <input type="checkbox"/> E. Municipal<br><input type="checkbox"/> F. Other _____ <input type="checkbox"/> G. Unknown |                          |

|  |  |   |  |  |  |
|--|--|---|--|--|--|
| III. INSPECTION INFORMATION  |  |   |  |  |  |
| 01 Date of Inspection<br><br>4 / 26 / 89<br>Month Day Year               |  | 02 Site Status<br><br><input type="checkbox"/> Active<br><input checked="" type="checkbox"/> Inactive |  | 03 Years of Operation<br><br>1955      1976<br>Beginning Year    Ending Year                                       |  |
| 04 Agency Performing Inspection (Check all that apply)                   |  |   |  |  |  |
| <input type="checkbox"/> A. EPA  |  | <input type="checkbox"/> B. EPA Contractor _____<br>(Name of Firm)                                    |  | <input type="checkbox"/> C. Municipal  |  |
| <input type="checkbox"/> D. Municipal Contractor _____<br>(Name of Firm) |  | <input type="checkbox"/> E. State   |  | <input checked="" type="checkbox"/> F. State Contractor Ecology and Environment Engineering P.C.<br>(Name of Firm) |  |
| <input type="checkbox"/> G. Other (Specify) _____                        |  |   |  |  |  |

|  |  |                           |  |   |  |  |  |
|--|--|---------------------------|--|---|--|--|--|
| 05 Chief Inspector<br><br>G. Florentino                      |  | 06 Title<br><br>Geologist |  | 07 Organization<br>Ecology and Environment Engineering P.C. |  | 08 Telephone No.<br><br>(716) 684-8060 |  |
| 09 Other Inspectors<br><br>T. Ferrara                        |  | 10 Title<br><br>Geologist |  | 11 Organization<br>Ecology and Environment Engineering P.C. |  | 12 Telephone No.<br><br>(716) 684-8060 |  |
|  |  |                           |  |   |  | ( )                                    |  |
|  |  |                           |  |   |  | ( )                                    |  |
|  |  |                           |  |   |  | ( )                                    |  |
|  |  |                           |  |   |  | ( )                                    |  |
| 13 Site Representatives Interviewed<br><br>Howard Fitzsimons |  | 14 Title<br><br>Owner     |  | 15 Address<br><br>227 Golden Road                           |  | 16 Telephone No.<br><br>(716) 594-2335 |  |
|  |  |                           |  |   |  | ( )                                    |  |
|  |  |                           |  |   |  | ( )                                    |  |
|  |  |                           |  |   |  | ( )                                    |  |
|  |  |                           |  |   |  | ( )                                    |  |

|   |  |                               |  |  |  |
|---|--|-------------------------------|--|--|--|
| 17 Access Gained by (Check one)<br>Owner Permission |  | 18 Time of Inspection<br>1445 |  | 19 Weather Conditions<br>Sunny, 60°F wind from north 5 mph |  |
|---|--|-------------------------------|--|--|--|

|  |  |   |   |                                    |  |
|--|--|---|---|------------------------------------|--|
| IV. INFORMATION AVAILABLE FROM                               |  |   |   |                                    |  |
| 01 Contact<br>Walter Demick                                  |  | 02 Agency/Organization<br>NYSDEC - Albany |   |                                    | 03 Telephone No.<br>(518) 457-9538       |
| 04 Person Responsible for Site Inspection Form<br>J. Griffis |  | 05 Agency                                 | 06 Organization<br>Ecology and Environ. Eng. P.C. | 07 Telephone No.<br>(716) 684-8060 | 08 Date<br>4 / 27 / 89<br>Month Day Year |

POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

EPA

PART 2 - WASTE INFORMATION

I. IDENTIFICATION

|                |                          |
|----------------|--------------------------|
| 01 State<br>NY | 02 Site Number<br>828021 |
|----------------|--------------------------|

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

|   |  |   |
|---|--|---|
| <p>01 Physical States<br/>(Check all that apply)</p> <p><input checked="" type="checkbox"/> A. Solid<br/> <input type="checkbox"/> B. Powder, Fines<br/> <input checked="" type="checkbox"/> C. Sludge<br/> <input checked="" type="checkbox"/> D. Other <u>Artillery shells</u><br/>                 (Specify)</p> <p><input type="checkbox"/> E. Slurry<br/> <input checked="" type="checkbox"/> F. Liquid<br/> <input type="checkbox"/> G. Gas</p> | <p>02 Waste Quantity at Site<br/>(Measure of waste quantities must be independent)</p> <p>Tons <u>unknown</u><br/>                 Cubic Yards <u>unknown</u><br/>                 No. of Drums <u>&gt;560</u></p> | <p>03 Waste Characteristics (Check all that apply)</p> <p><input checked="" type="checkbox"/> A. Toxic<br/> <input type="checkbox"/> B. Corrosive<br/> <input type="checkbox"/> C. Radioactive<br/> <input checked="" type="checkbox"/> D. Persistent<br/> <input checked="" type="checkbox"/> E. Soluble<br/> <input type="checkbox"/> F. Infectious<br/> <input checked="" type="checkbox"/> G. Flammable</p> <p><input type="checkbox"/> H. Ignitable<br/> <input type="checkbox"/> I. Highly volatile<br/> <input checked="" type="checkbox"/> J. Explosive<br/> <input type="checkbox"/> K. Reactive<br/> <input type="checkbox"/> L. Incompatible<br/> <input type="checkbox"/> M. Not applicable</p> |
|---|--|---|

III. WASTE TYPE

| Category | Substance Name          | 01 Gross Amount | 02 Unit of Measure | 03 Comments |
|----------|-------------------------|-----------------|--------------------|-------------|
| SLU      | Sludge                  |                 |                    |             |
| OLW      | Oily waste              |                 |                    |             |
| SOL      | Solvents                |                 |                    |             |
| PSD      | Pesticides              |                 |                    |             |
| OCC      | Other organic chemicals |                 |                    |             |
| IOC      | Inorganic chemicals     |                 |                    |             |
| ACD      | Acids                   |                 |                    |             |
| BAS      | Bases                   |                 |                    |             |
| MES      | Heavy Metals            | unknown         |                    |             |

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

| 01 Category | 02 Substance Name | 03 CAS Number | 04 Storage/Disposal Method | 05 Concentration | 06 Measure of Concentration |
|-------------|-------------------|---------------|----------------------------|------------------|-----------------------------|
|             |                   |               |                            |                  |                             |
|             |                   |               |                            |                  |                             |
|             |                   |               |                            |                  |                             |
|             |                   |               |                            |                  |                             |
|             |                   |               |                            |                  |                             |
|             |                   |               |                            |                  |                             |
|             |                   |               |                            |                  |                             |
|             |                   |               |                            |                  |                             |

V. FEEDSTOCKS (See Appendix for CAS Numbers)

| Category | 01 Feedstock Name | 02 CAS Number | Category | 01 Feedstock Name | 02 CAS Number |
|----------|-------------------|---------------|----------|-------------------|---------------|
| FDS      |                   |               | FDS      |                   |               |
| FDS      |                   |               | FDS      |                   |               |
| FDS      |                   |               | FDS      |                   |               |
| FDS      |                   |               | FDS      |                   |               |

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC 1983 Phase I Investigation  
Jackson, D., 1983 Sampling Report

POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

EPA

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 State

02 Site Number

NY

828021

II. HAZARDOUS CONDITIONS AND INCIDENTS

01  A. Groundwater Contamination Un- 02  Observed (Date 4/13/82) [ ] Potential  Alleged  
03 Population Potentially Affected known 04 Narrative Description

Mr. Fitzsimmon's on-site drinking water well tested positive (high concentrations of cadmium and lead). It is not known how many private wells are in the area. Most of the residents use municipal water.

01  B. Surface Water Contamination 02  Observed (Date 5/12/82) [ ] Potential  Alleged  
03 Population Potentially Affected 0 04 Narrative Description:

No known use of surface water in the area, other than wetlands.

01 [ ] C. Contamination of Air 02 [ ] Observed (Date \_\_\_\_\_) [ ] Potential [ ] Alleged  
03 Population Potentially Affected \_\_\_\_\_ 04 Narrative Description:

No record.

01 [ ] D. Fire/Explosive Conditions 02 [ ] Observed (Date \_\_\_\_\_) [ ] Potential [ ] Alleged  
03 Population Potentially Affected \_\_\_\_\_ 04 Narrative Description:

No record.

01  E. Direct Contact 02 [ ] Observed (Date 4/26/89)  Potential [ ] Alleged  
03 Population Potentially Affected 5,352 04 Narrative Description:

No fences, easily accessible.  
Population within 1-mile radius.

01  F. Contamination of Soil 02  Observed (Date 5/12/82) [ ] Potential  Alleged  
03 Area Potentially Affected 8 acres 04 Narrative Description:

Drums were observed throughout the site; some spilled onto ground, foundry sand, and/or fly ash disposed on site.

01  G. Drinking Water Contamination 02  Observed (Date 4/13/82) [ ] Potential  Alleged  
03 Population Potentially Affected unknown 04 Narrative Description:

Mr. Fitzsimmon's drinking water well tested positive for high levels of cadmium and lead. Most residents use municipal water; however, private wells may exist in the immediate area.

01 [ ] H. Worker Exposure/Injury 02 [ ] Observed (Date \_\_\_\_\_) [ ] Potential [ ] Alleged  
03 Workers Potentially Affected \_\_\_\_\_ 04 Narrative Description:

No record.

01 [ ] I. Population Exposure/Injury 02 [ ] Observed (Date \_\_\_\_\_) [ ] Potential [ ] Alleged  
03 Population Potentially Affected \_\_\_\_\_ 04 Narrative Description:

No record.

| POTENTIAL HAZARDOUS WASTE SITE<br>SITE INSPECTION REPORT   |  | I. IDENTIFICATION                  |   |
|--|--|------------------------------------|---|
| EPA<br>PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS (Cont.)  |  | 01 State<br>NY                     | 02 Site Number<br>828021                    |
| II. HAZARDOUS CONDITIONS AND INCIDENTS (Cont.)   |  |                                    |   |
| 01 <input type="checkbox"/> J. Damage to Flora<br>04 Narrative Description:  | 02 <input type="checkbox"/> Observed (Date _____)                      | <input type="checkbox"/> Potential | <input type="checkbox"/> Alleged            |
| No record.   |  |                                    |   |
| 01 <input type="checkbox"/> K. Damage to Fauna<br>04 Narrative Description:  | 02 <input type="checkbox"/> Observed (Date _____)                      | <input type="checkbox"/> Potential | <input type="checkbox"/> Alleged            |
| No record.   |  |                                    |   |
| 01 <input type="checkbox"/> L. Contamination of Food Chain<br>04 Narrative Description:  | 02 <input type="checkbox"/> Observed (Date _____)                      | <input type="checkbox"/> Potential | <input type="checkbox"/> Alleged            |
| No record.   |  |                                    |   |
| 01 <input checked="" type="checkbox"/> M. Unstable Containment of Wastes<br>(Spills/Runoff/Standing liquids,<br>Leaking drums)   | 02 <input checked="" type="checkbox"/> Observed (Date <u>2/23/79</u> ) | <input type="checkbox"/> Potential | <input checked="" type="checkbox"/> Alleged |
| 03 <input type="checkbox"/> Population Potentially Affected <u>5352</u>  | 04 Narrative Description:  |                                    |   |
| Several hundred drums observed on site. Population within 1-mile radius.   |  |                                    |   |
| 01 <input type="checkbox"/> N. Damage to Offsite Property<br>04 Narrative Description:   | 02 <input type="checkbox"/> Observed (Date _____)                      | <input type="checkbox"/> Potential | <input type="checkbox"/> Alleged            |
| No record.   |  |                                    |   |
| 01 <input type="checkbox"/> O. Contamination of Sewers, Storm/<br>Drains, WWTPs  | 02 <input type="checkbox"/> Observed (Date _____)                      | <input type="checkbox"/> Potential | <input type="checkbox"/> Alleged            |
| 04 Narrative Description:<br>No record.  |  |                                    |   |
| 01 <input checked="" type="checkbox"/> P. Illegal/Unauthorized Dumping<br>04 Narrative Description:  | 02 <input checked="" type="checkbox"/> Observed (Date <u>1979</u> )    | <input type="checkbox"/> Potential | <input checked="" type="checkbox"/> Alleged |
| Fly ash and foundry sand hauled to site by William Statt.  |  |                                    |   |
| 05 Description of Any Other Known, Potential, or Alleged Hazards   |  |                                    |   |
| III. TOTAL POPULATION POTENTIALLY AFFECTED <u>5,352 within 1-mile radius</u>   |  |                                    |   |
| IV. COMMENTS   |  |                                    |   |
| Landfill appears to once have been part of wetland.  |  |                                    |   |
| V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)  |  |                                    |   |
| NYSDEC 1983 Phase I Investigation<br>Jackson, D., 1983 Sampling Report<br>Ecology and Environment Engineering P.C. site inspection on 4/26/89<br>General Sciences Corp., 1987, 1980 census information |  |                                    |   |

EPA

POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

## PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

## I. IDENTIFICATION

01 State

02 Site Number

NY

828021

## II. PERMIT INFORMATION

| 01 Type of Permit Issued<br>(Check all apply)   | 02 Permit Number | 03 Date Issued | 04 Expiration Date | 05 Comments |
|---|------------------|----------------|--------------------|-------------|
| <input type="checkbox"/> A. NPDES NA            |                  |                |                    |             |
| <input type="checkbox"/> B. UIC                 |                  |                |                    |             |
| <input type="checkbox"/> C. AIR                 |                  |                |                    |             |
| <input type="checkbox"/> D. RCRA                |                  |                |                    |             |
| <input type="checkbox"/> E. RCRA Interim Status |                  |                |                    |             |
| <input type="checkbox"/> F. SPCC Plan           |                  |                |                    |             |
| <input type="checkbox"/> G. State (Specify)     |                  |                |                    |             |
| <input type="checkbox"/> H. Local (Specify)     |                  |                |                    |             |
| <input type="checkbox"/> I. Other (Specify)     |                  |                |                    |             |
| <input checked="" type="checkbox"/> J. None     |                  |                |                    |             |

## III. SITE DESCRIPTION

| 01 Storage Disposal<br>(Check all that apply)              | 02 Amount | 03 Unit of Measure | 04 Treatment<br>(Check all that apply)                                | 05 Other   |
|--|-----------|--------------------|---|--|
| <input type="checkbox"/> A. Surface Impoundment            |           |                    | <input type="checkbox"/> A. Incineration                              | <input checked="" type="checkbox"/> A. Buildings On Site |
| <input type="checkbox"/> B. Piles                          |           |                    | <input type="checkbox"/> B. Underground Injection                     |  |
| <input checked="" type="checkbox"/> C. Drums, Above Ground | >560      | 55-gallon          | <input type="checkbox"/> C. Chemical/Physical                         | 2  |
| <input type="checkbox"/> D. Tank, Above Ground             |           |                    | <input type="checkbox"/> D. Biological                                |  |
| <input type="checkbox"/> E. Tank, Below Ground             |           |                    | <input type="checkbox"/> E. Waste Oil Processing                      |  |
| <input checked="" type="checkbox"/> F. Landfill            | 8         | acres              | <input type="checkbox"/> F. Solvent Recovery                          | 06 Area of Site  |
| <input type="checkbox"/> G. Landfarm                       |           |                    | <input type="checkbox"/> G. Other Recycling Recovery                  |  |
| <input type="checkbox"/> H. Open dump                      |           |                    | <input checked="" type="checkbox"/> H. Other <u>None</u><br>(specify) | <u>8</u> Acres   |
| <input type="checkbox"/> I. Other _____<br>(Specify)       |           |                    |   |  |

07 Comments

## IV. CONTAINMENT

|  |
|--|
| 01 Containment of Wastes (Check one)   |
| <input type="checkbox"/> A. Adequate, Secure <input type="checkbox"/> B. Moderate <input type="checkbox"/> C. Inadequate, Poor <input checked="" type="checkbox"/> D. Insecure, Unsound, Dangerous |
| 02 Description of Drums, Diking, Liners, Barriers, etc.  |
| Drums were scattered on the surface and buried. There are no liners or any means of containment.   |

## V. ACCESSIBILITY

|   |
|---|
| 01 Waste Easily Accessible: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 02 Comments:<br>No fences, drums on surface, foundry sand on surface.                           |

## VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC 1983 Phase I Investigation; Jackson, D., 1983 Sampling Report; Ecology and Environment Engineering, P.C. site inspection 4/26/89



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
EPA  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA (Cont.)

I. IDENTIFICATION  
01 State NY  
02 Site Number 828021

VI. ENVIRONMENTAL INFORMATION

01 Permeability of Unsaturated Zone (Check one)

[ ] A. 10<sup>-6</sup> - 10<sup>-8</sup> cm/sec [ ] B. 10<sup>-4</sup> - 10<sup>-6</sup> cm/sec [X] C. 10<sup>-4</sup> - 10<sup>-3</sup> cm/sec [ ] D. Greater than 10<sup>-3</sup> cm/sec

02 Permeability of Bedrock (Check one)

[ ] A. Impermeable (Less than 10<sup>-6</sup> cm/sec) [ ] B. Relatively Impermeable (10<sup>-4</sup> - 10<sup>-6</sup> cm/sec) [X] C. Relatively Permeable (10<sup>-2</sup> - 10<sup>-4</sup> cm/sec) [ ] D. Very Permeable (Greater than 10<sup>-2</sup> cm/sec)

03 Depth to Bedrock  
11 - 25 (ft)

04 Depth of Contaminated Soil Zone  
Unknown

05 Soil pH  
Unknown

06 Net Precipitation  
6.7 (in)

07 One Year 24-Hour Rainfall  
2.0 (in)

08 Site Slope  
0 - 1 %

Direction of Site Slope  
N/A

Terrain Average Slope  
0 - 3 %

09 Flood Potential  
Site is in 500 Year Floodplain

10 [ ] Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway

11 Distance to Wetlands (5 acre minimum)  
ESTUARINE NA OTHER  
A. (mi) B. Adj. (mi)

12 Distance to Critical Habitat (of endangered species)  
None (mi)  
Endangered Species:

13 Land Use in Vicinity

Distance to:

COMMERCIAL/INDUSTRIAL  
A. 1.0 (mi)

RESIDENTIAL AREA; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES  
B. Adj. (mi)

AGRICULTURAL LANDS  
PRIME AG LAND  
C. <.25 (mi)

AG LAND  
D. <.25 (mi)

14 Description of Site in Relation to Surrounding Topography

Site is in a relatively flat-lying area that contains several wetlands. Elevation of the site has been raised 3 - 4 feet above wetlands by fill material.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

USGS topographical maps: Spencerport, NY, photo revised 1978  
Clifton, NY 1971  
West Henrietta, NY, photo revised 1978  
Rochester West, NY, photo revised 1978  
Ecology and Environment Engineering, P.C. site inspection 4/26/89  
NYSDEC Phase I Investigation 1983  
Jackson, D., 1983 Sampling Report  
United States Department of Agriculture, Soil Conservation Service, Soils of Monroe County  
General Sciences Corp., 1987, 1980 census information

|     |   |                   |                          |
|-----|---|-------------------|--------------------------|
| EPA | POTENTIAL HAZARDOUS WASTE SITE<br>SITE INSPECTION REPORT<br><br>PART 6 - SAMPLE AND FIELD INFORMATION | I. IDENTIFICATION |                          |
|     |   | 01 State<br>NY    | 02 Site Number<br>828021 |

II. SAMPLES TAKEN - No samples taken during S.I.

| Sample Type   | 01 Number of Samples Taken | 02 Samples Sent to | 03 Estimated Date Results Available |
|---------------|----------------------------|--------------------|-------------------------------------|
| Groundwater   |                            |                    |                                     |
| Surface Water |                            |                    |                                     |
| Waste         |                            |                    |                                     |
| Air           |                            |                    |                                     |
| Runoff        |                            |                    |                                     |
| Spill         |                            |                    |                                     |
| Soil          |                            |                    |                                     |
| Vegetation    |                            |                    |                                     |
| Other         | None                       |                    |                                     |

III. FIELD MEASUREMENTS TAKEN

| 01 Type        | 02 Comments                         |
|----------------|-------------------------------------|
| Organic vapors | Site screened with HNu photoionizer |
|                |                                     |
|                |                                     |

IV. PHOTOGRAPHS AND MAPS

|  |   |   |
|--|---|---|
| 01 Type  | <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Aerial      | 02 In Custody of <u>Ecology and Environment Engineering, P.C.</u><br>(Name of Organization or Individual) |
| 03 Maps  | 04 Location of Maps<br><u>Ecology and Environment Engineering, P.C. Logbook</u> |   |
| <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No |   |   |

V. OTHER FIELD DATA COLLECTED (Provide narrative description of sampling activities)

None

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Ecology and Environment Engineering, P.C. site inspection 4/26/88



|   |   |
|---|---|
| POTENTIAL HAZARDOUS WASTE SITE<br>SITE INSPECTION REPORT<br><br>EPA<br><br>PART 7 - OWNER INFORMATION | I. IDENTIFICATION<br><br>01 State NY      02 Site Number 828021 |
|---|---|

|  |                |                      |         |   |          |               |  |
|--|----------------|----------------------|---------|---|----------|---------------|--|
| II. CURRENT OWNER(S)   |                |                      |         | PARENT COMPANY (if applicable)            |          |               |  |
| 01 Name<br>Howard Fitzsimons                                 |                | 02 D+B Number        |         | 08 Name                                   |          | 09 D+B Number |  |
| 03 Street Address (P.O. Box, RFD #, etc.)<br>227 Golden Road |                | 04 SIC Code          |         | 10 Street Address (P.O. Box, RFD #, etc.) |          | 11 SIC Code   |  |
| 05 City<br>Chili   | 06 State<br>NY | 07 Zip Code<br>14625 | 12 City |   | 13 State | 14 Zip Code   |  |
| 01 Name  |                | 02 D+B Number        |         | 08 Name                                   |          | 09 D+B Number |  |
| 03 Street Address (P.O. Box, RFD #, etc.)                    |                | 04 SIC Code          |         | 10 Street Address (P.O. Box, RFD #, etc.) |          | 11 SIC Code   |  |
| 05 City  | 06 State       | 07 Zip Code          | 12 City |   | 13 State | 14 Zip Code   |  |
| 01 Name  |                | 02 D+B Number        |         | 08 Name                                   |          | 09 D+B Number |  |
| 03 Street Address (P.O. Box, RFD #, etc.)                    |                | 04 SIC Code          |         | 10 Street Address (P.O. Box, RFD #, etc.) |          | 11 SIC Code   |  |
| 05 City  | 06 State       | 07 Zip Code          | 12 City |   | 13 State | 14 Zip Code   |  |
| 01 Name  |                | 02 D+B Number        |         | 08 Name                                   |          | 09 D+B Number |  |
| 03 Street Address (P.O. Box, RFD #, etc.)                    |                | 04 SIC Code          |         | 10 Street Address (P.O. Box, RFD #, etc.) |          | 11 SIC Code   |  |
| 05 City  | 06 State       | 07 Zip Code          | 12 City |   | 13 State | 14 Zip Code   |  |
| 01 Name  |                | 02 D+B Number        |         | 08 Name                                   |          | 09 D+B Number |  |
| 03 Street Address (P.O. Box, RFD #, etc.)                    |                | 04 SIC Code          |         | 10 Street Address (P.O. Box, RFD #, etc.) |          | 11 SIC Code   |  |
| 05 City  | 06 State       | 07 Zip Code          | 12 City |   | 13 State | 14 Zip Code   |  |

|   |          |               |         |  |          |               |  |
|---|----------|---------------|---------|--|----------|---------------|--|
| III. PREVIOUS OWNER(S) (List most recent first) |          |               |         | IV. REALTY OWNER(S) (if applicable, most recent first) |          |               |  |
| 01 Name   |          | 02 D+B Number |         | 01 Name  |          | 02 D+B Number |  |
| 03 Street Address (P.O. Box, RFD #, etc.)       |          | 04 SIC Code   |         | 03 Street Address (P.O. Box, RFD #, etc.)              |          | 04 SIC Code   |  |
| 05 City   | 06 State | 07 Zip Code   | 05 City |  | 06 State | 07 Zip Code   |  |
| 01 Name   |          | 02 D+B Number |         | 01 Name  |          | 02 D+B Number |  |
| 03 Street Address (P.O. Box, RFD #, etc.)       |          | 04 SIC Code   |         | 03 Street Address (P.O. Box, RFD #, etc.)              |          | 04 SIC Code   |  |
| 05 City   | 06 State | 07 Zip Code   | 05 City |  | 06 State | 07 Zip Code   |  |
| 01 Name   |          | 02 D+B Number |         | 01 Name  |          | 02 D+B Number |  |
| 03 Street Address (P.O. Box, RFD #, etc.)       |          | 04 SIC Code   |         | 03 Street Address (P.O. Box, RFD #, etc.)              |          | 04 SIC Code   |  |
| 05 City   | 06 State | 07 Zip Code   | 05 City |  | 06 State | 07 Zip Code   |  |

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE  
 SITE INSPECTION REPORT  
 EPA  
 PART 8 - OPERATOR INFORMATION - NA

| I. IDENTIFICATION |                          |
|-------------------|--------------------------|
| 01 State<br>NY    | 02 Site Number<br>828021 |

| II. CURRENT OPERATOR (if different from Owner)               |  |                |                      | OPERATOR'S PARENT COMPANY (if applicable) |  |               |             |
|--|--|----------------|----------------------|---|--|---------------|-------------|
| 01 Name<br>Howard Fitzsimons                                 |  | 02 D+B Number  |                      | 10 Name                                   |  | 11 D+B Number |             |
| 03 Street Address (P.O. Box, RFD #, etc.)<br>227 Golden Road |  | 04 SIC Code    |                      | 12 Street Address (P.O. Box, RFD #, etc.) |  | 13 SIC Code   |             |
| 05 City<br>Chili   |  | 06 State<br>NY | 07 Zip Code<br>14625 | 14 City                                   |  | 15 State      | 16 Zip Code |

|                       |                  |  |  |  |  |  |  |
|-----------------------|------------------|--|--|--|--|--|--|
| 08 Years of Operation | 09 Name of Owner |  |  |  |  |  |  |
|-----------------------|------------------|--|--|--|--|--|--|

| III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner) |  |               |             | PREVIOUS OPERATORS' PARENT COMPANIES (if applicable) |  |               |             |
|--|--|---------------|-------------|--|--|---------------|-------------|
| 01 Name  |  | 02 D+B Number |             | 10 Name  |  | 11 D+B Number |             |
| 03 Street Address (P.O. Box, RFD #, etc.)  |  | 04 SIC Code   |             | 12 Street Address (P.O. Box, RFD #, etc.)            |  | 13 SIC Code   |             |
| 05 City  |  | 06 State      | 07 Zip Code | 14 City  |  | 15 State      | 16 Zip Code |

|                       |                                     |  |  |  |  |  |  |
|-----------------------|-------------------------------------|--|--|--|--|--|--|
| 08 Years of Operation | 09 Name of Owner During This Period |  |  |  |  |  |  |
|-----------------------|-------------------------------------|--|--|--|--|--|--|

|   |  |               |             |   |  |               |             |
|---|--|---------------|-------------|---|--|---------------|-------------|
| 01 Name                                   |  | 02 D+B Number |             | 10 Name                                   |  | 11 D+B Number |             |
| 03 Street Address (P.O. Box, RFD #, etc.) |  | 04 SIC Code   |             | 12 Street Address (P.O. Box, RFD #, etc.) |  | 13 SIC Code   |             |
| 05 City                                   |  | 06 State      | 07 Zip Code | 14 City                                   |  | 15 State      | 16 Zip Code |

|                       |                                     |  |  |  |  |  |  |
|-----------------------|-------------------------------------|--|--|--|--|--|--|
| 08 Years of Operation | 09 Name of Owner During This Period |  |  |  |  |  |  |
|-----------------------|-------------------------------------|--|--|--|--|--|--|

|   |  |               |             |   |  |               |             |
|---|--|---------------|-------------|---|--|---------------|-------------|
| 01 Name                                   |  | 02 D+B Number |             | 10 Name                                   |  | 11 D+B Number |             |
| 03 Street Address (P.O. Box, RFD #, etc.) |  | 04 SIC Code   |             | 12 Street Address (P.O. Box, RFD #, etc.) |  | 13 SIC Code   |             |
| 05 City                                   |  | 06 State      | 07 Zip Code | 14 City                                   |  | 15 State      | 16 Zip Code |

|                       |                                     |  |  |  |  |  |  |
|-----------------------|-------------------------------------|--|--|--|--|--|--|
| 08 Years of Operation | 09 Name of Owner During This Period |  |  |  |  |  |  |
|-----------------------|-------------------------------------|--|--|--|--|--|--|

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

EPA

PART 9 - GENERATOR/TRANSPORTER INFORMATION

| I. IDENTIFICATION |                |
|-------------------|----------------|
| 01 State          | 02 Site Number |
| NY                | 828021         |

| II. ON-SITE GENERATOR - NA                |          |               |  |
|---|----------|---------------|--|
| 01 Name                                   |          | 02 D+B Number |  |
| 03 Street Address (P.O. Box, RFD #, etc.) |          | 04 SIC Code   |  |
| 05 City                                   | 06 State | 07 Zip Code   |  |

| III. OFF-SITE GENERATOR(S) - NA           |          |               |         |   |             |               |          |             |
|---|----------|---------------|---------|---|-------------|---------------|----------|-------------|
| 01 Name                                   |          | 02 D+B Number |         | 01 Name                                   |             | 02 D+B Number |          |             |
| 03 Street Address (P.O. Box, RFD #, etc.) |          | 04 SIC Code   |         | 03 Street Address (P.O. Box, RFD #, etc.) |             | 04 SIC Code   |          |             |
| 05 City                                   | 06 State | 07 Zip Code   | 05 City | 06 State                                  | 07 Zip Code | 05 City       | 06 State | 07 Zip Code |
| 01 Name                                   |          | 02 D+B Number |         | 01 Name                                   |             | 02 D+B Number |          |             |
| 03 Street Address (P.O. Box, RFD #, etc.) |          | 04 SIC Code   |         | 03 Street Address (P.O. Box, RFD #, etc.) |             | 04 SIC Code   |          |             |
| 05 City                                   | 06 State | 07 Zip Code   | 05 City | 06 State                                  | 07 Zip Code | 05 City       | 06 State | 07 Zip Code |

| IV. TRANSPORTER(S) - NA                   |          |               |         |   |             |               |          |             |
|---|----------|---------------|---------|---|-------------|---------------|----------|-------------|
| 01 Name                                   |          | 02 D+B Number |         | 01 Name                                   |             | 02 D+B Number |          |             |
| 03 Street Address (P.O. Box, RFD #, etc.) |          | 04 SIC Code   |         | 03 Street Address (P.O. Box, RFD #, etc.) |             | 04 SIC Code   |          |             |
| 05 City                                   | 06 State | 07 Zip Code   | 05 City | 06 State                                  | 07 Zip Code | 05 City       | 06 State | 07 Zip Code |
| 01 Name                                   |          | 02 D+B Number |         | 01 Name                                   |             | 02 D+B Number |          |             |
| 03 Street Address (P.O. Box, RFD #, etc.) |          | 04 SIC Code   |         | 03 Street Address (P.O. Box, RFD #, etc.) |             | 04 SIC Code   |          |             |
| 05 City                                   | 06 State | 07 Zip Code   | 05 City | 06 State                                  | 07 Zip Code | 05 City       | 06 State | 07 Zip Code |

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

| POTENTIAL HAZARDOUS WASTE SITE<br>SITE INSPECTION REPORT   |                                    | I. IDENTIFICATION    |                          |
|--|------------------------------------|----------------------|--------------------------|
| EPA  | PART 10 - PAST RESPONSE ACTIVITIES | 01 State<br>NY       | 02 Site Number<br>828021 |
| II. PAST RESPONSE ACTIVITIES                               |                                    |                      |                          |
| 01 [ ] A. Water Supply Closed                              | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] B. Temporary Water Supply Provided                  | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] C. Permanent Water Supply Provided                  | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] D. Spilled Material Removed                         | 02 Date <u>1985</u>                | 03 Agency <u>EPA</u> |                          |
| 04 Description: Emergency drum removal (removed 560 drums) |                                    |                      |                          |
| 01 [ ] E. Contaminated Soil Removed                        | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] F. Waste Repackaged                                 | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] G. Waste Disposed Elsewhere                         | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] H. On-Site Burial                                   | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] I. In Situ Chemical Treatment                       | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] J. In Situ Biological Treatment                     | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] K. In Situ Physical Treatment                       | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] L. Encapsulation                                    | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] M. Emergency Waste Treatment                        | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] N. Cutoff Walls                                     | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] O. Emergency Diking/Surface Water<br>Diversion      | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |
| 01 [ ] P. Cutoff Trenches/Sump                             | 02 Date _____                      | 03 Agency _____      |                          |
| 04 Description: None on record                             |                                    |                      |                          |

|  |               |                 |
|--|---------------|-----------------|
| II. PAST RESPONSE ACTIVITIES (Cont.)   |               |                 |
| 01 <input type="checkbox"/> Q. Subsurface Cutoff Wall<br>04 Description:           None on record    | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> R. Barrier Walls Constructed<br>04 Description:           None on record | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> S. Capping/Covering<br>04 Description:           None on record          | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> T. Bulk Tankage Repaired<br>04 Description:           None on record     | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> U. Grout Curtain Constructed<br>04 Description:           None on record | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> V. Bottom Sealed<br>04 Description:           None on record             | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> W. Gas Control<br>04 Description:           None on record               | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> X. Fire Control<br>04 Description:           None on record              | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> Y. Leachate Treatment<br>04 Description:           None on record        | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> Z. Area Evacuated<br>04 Description:           None on record            | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> 1. Access to Site Restricted<br>04 Description:           None on record | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> 2. Population Relocated<br>04 Description:           None on record      | 02 Date _____ | 03 Agency _____ |
| 01 <input type="checkbox"/> 3. Other Remedial Activities<br>04 Description:           None on record | 02 Date _____ | 03 Agency _____ |

|   |
|---|
| III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)   |
| NYSDEC Phase I Investigation 1983<br>NYSDEC Files, Bureau of Hazardous Site Control, Albany, New York |

POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

EPA

PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 State

02 Site Number

NY

828021

II. ENFORCEMENT INFORMATION

01 Past Regulatory/Enforcement Action  Yes  No

02 Description of Federal, State, Local Regulatory/Enforcement Action

In 1976, NYSDEC Region 8 directed owner to stop dumping in wetland area.

On August 12, 1980, the site was added to the hazardous waste site registry by Ms. C. Wittenberg and Mr. G.D. Knowles of NYSDEC.

NYSDEC Region 8 informed owner of violations of 6 NYCRR Part 360 in 1981.

W. Statt cited by NYSDEC for lack of Part 364 permit to haul fly ash in 1981.

In 1982, NYSDEC and Monroe County Health Department sampled the site and found petroleum hydrocarbons in the soil, and toluene, xylene, and organic dyes in the drums.

July 20, 1983, the site was sampled by NYSDEC.

NYSDEC Phase I Investigation 11/28/83.

Remedial action performed (drum and soil removal) between Nov. 13, 1984 and June 27, 1985 under contract to NYSDEC.

Nov. 24, 1984, Howard Fitzsimons, Jr. received a court order from the Erie County Supreme Court to provide access and refrain from hindering or interfacing in any way with NYSDEC investigations.

May 1985, the site was sampled by NYSDEC.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDEC Phase I Investigation 1983  
NYSDEC Files, Bureau of Hazardous Site Control

## 6. REFERENCES

- Broughton, J.G., D.W. Fisher, Y.W. Isacksen, and L.V. Rickard, 1966, *Geology of New York: A Short Account*, New York State Museum and Science Service, Albany, New York.
- Christan, J., July 5, 1990, personal communication, Fire Marshal, Town of Chili, Chili, New York.
- Chudyk, S., July 3, 1990, personal communication, Highway Superintendent, Town of Chili, New York.
- Department of State, State of New York, 1983, Article 9, Part 805 of Title 6, Official Compilation of Codes, Rules, and Regulations of the State of New York, Albany, New York.
- Ecology and Environment Engineering, P.C., April 26, 1989, Site Inspection of the Golden Road Disposal Site, Town of Chili, New York, performed for the New York State Department of Environmental Conservation, Albany, New York.
- Freeze, R.A., and Cherry, J.A., 1979, Groundwater, Prentice-Hall, Inc., New Jersey.
- Fitzsimons, L., January 21, 1991, personal communication, Golden Road Site Owner, Chili, New York.
- General Sciences Corporation, 1987, Graphical Exposure Modeling System Users Guide, Volume I: Core Manual, United States Environmental Protection Agency, Washington, D.C.
- Heffner, R.L., S.D. Goodman, 1973, Soil Survey of Monroe County, New York, United States Department of Agriculture, Soil Conservation Service, Cornell, New York.
- Hershfield, D., 1963, Rainfall Frequency from 30 Minutes to 24 Hours and Return Periods from 1 to 100 Years, Technical Paper No. 40, prepared for United States Department of Agriculture, Soil Conservation Service, Washington, D.C.

- Jackson, D., July 25, 1983, Sampling Report, Golden Road Disposal Site, Site No. 8-28-021, New York State Department of Environmental Conservation, Division of Solid and Hazardous Waste, Region 8, Albany, New York.
- Johnston, R.H., 1964, Groundwater in the Niagara Falls Area, New York, Bulletin GW-53, New York State Conservation Department, Water Resources Commission.
- Kirsch, K., April 11, 1990, personal communication, New York State Department of Environmental Conservation, Wetlands Section, Avon, New York.
- Monroe County Department of Planning, 1988, Existing Land Use Map, Environmental Planning Atlas, Rochester, New York.
- Murphy, Sean P., March 14, 1991, Golden Road Disposal Site Maps, Monroe County Pure Waters, Rochester, New York.
- National Conference of State Historic Preservation Officers, National Park Service, and American Association for State and Local History, 1989, National Register of Historic Places 1966-1988, American Association for State and Local History, Nashville, Tennessee.
- National Oceanic and Atmospheric Administration, 1983, Climatic Atlas of the United States, reprinted from United States Department of Commerce, Environmental Science Services Administration, Environmental Data Service, 1968, National Climatic Data Center, Asheville, North Carolina.
- New York State Department of Environmental Conservation, November 28, 1983, Golden Road Disposal Site, New York State Superfund Phase I Summary Report, Town of Chili, Monroe County, New York, prepared by Recra Research, Inc., Albany, New York.
- \_\_\_\_\_, 1986, Water Quality Regulations, New York State Codes, Rules, and Regulations, Title 6, Chapter X, Parts 700-705, Albany, New York.
- \_\_\_\_\_, September 5, 1990, Ambient Water Quality Standards and Guidance Values, Division of Water Technical and Operational Guidance Series (1.1.1), Division of Water, Albany, New York.
- Pirkle, E.C., and W.H. Yoho, 1977, Natural Regions of the United States, 2nd Edition, Kendall/Hunt Publishing Company, Dubuque, Iowa.
- Shacklette, H.T., and J.B. Boerngen, 1984, Element Concentrations in Soils and Other Surficial Material of the Conterminous United States, United States Geological Survey Professional Paper 1270, Washington, D.C.
- Sweet, A.T., W.J. Latimer, C.S. Pearson, C.H. Diebold, W.W. Rietz, C.P. Mead, W. Secor, and M. Howard, Jr., 1938, Soil Survey of Monroe County, New York, United States Department of Agriculture, Soil Conservation Service, Cornell, New York.



Tesmer, I.H., 1981, Colossal Cataract, State University of New York Press, Albany, New York.

Uncontrolled Hazardous Waste Site Ranking Systems, A Users Manual, National Oil and Hazardous Substances, Contingency Plan, Appendix A (40 CFR) (47 FR 31219), July 16, 1982.

United States Geological Survey, 1971, Clifton, New York Quadrangle, Monroe County, New York, 7.5-Minute Series (Topographic), Washington, D.C.

\_\_\_\_\_, 1978, Rochester West, New York Quadrangle, Photo Revised from 1971, Monroe County, New York, 7.5-Minute Series (Topographic), Washington, D.C.

\_\_\_\_\_, 1978, Spencerport, New York Quadrangle, Photo Revised from 1971, Monroe County, New York, 7.5-Minute Series (Topographic), Washington, D.C.

\_\_\_\_\_, 1978, West Henrietta, New York Quadrangle, Photo Revised from 1971, Monroe County, New York, 7.5-Minute Series (Topographic), Washington, D.C.

**APPENDIX A**

**SITE-SPECIFIC HEALTH AND SAFETY PLAN AND  
DRILLING SITE SAFETY CHECKLIST**

ecology and environment, inc.  
**S I T E   S A F E T Y   P L A N**

Version 988

**A. GENERAL INFORMATION**

Project Title: Golden Road Project No.: YN4020  
 TDD/Pan No.: \_\_\_\_\_  
 Project Manager: Gene Florentino Project Dir.: J. Griffis  
 Location(s): Town of Chili, Monroe County, NY  
 Prepared by: Sharon Walck Date Prepared: 4-21-89  
 Approval by: Corp H/S group [Signature] Date Approved: 01 MAY 89  
 Site Safety Officer Review: \_\_\_\_\_ Date Reviewed: \_\_\_\_\_  
 Scope/Objective of Work: Site reconnaissance, geophysical survey, and environmental sampling.  
 Proposed Date of Field Activities: May - August 1989

Background Info: Complete: [ ] Preliminary (No analytical [ ]  
 data available)

## Documentation/Summary:

|                          |             |                |
|--------------------------|-------------|----------------|
| Overall Chemical Hazard: | Serious [ ] | Moderate [ X ] |
|                          | Low [ ]     | Unknown [ ]    |
| Overall Physical Hazard  | Serious [ ] | Moderate [ X ] |
|                          | Low [ ]     | Unknown [ ]    |

**B. SITE/WASTE CHARACTERISTICS**

## Waste Type(s):

Liquid [ X ] Solid [ X ] Sludge [ X ] Gas/Vapor [ ]

## Characteristic(s):

Flammable/ Ignitable [ X ] Volatile [ X ] Corrosive [ ] Acutely Toxic [ ]  
 Explosive [ X ] Reactive [ ] Carcinogen [ ] Radioactive\* [ ]

Other: \_\_\_\_\_

## Physical Hazards:

Overhead [ ] Confined\* [ ] Below Grade [ ] Trip/Fall [ ]  
 Puncture [ X ] Burn [ ] Cut [ ] Splash [ ]  
 Noise [ ] Other: U.S. Army Artillery shells are buried at this site. Other hazards

to be determined.

Requires completion of additional form and special approval from the Corporate Health/Safety group. Contact SC or HQ.

Site History/Description and Unusual Features (see Sampling Plan for detailed description): Disposal site  
divided in two by a railroad track, making northern and southern areas. Both areas are surrounded by wet-  
lands. Southern section is 8 to 10 feet higher due to large quantities of fill wastes: foundry sand,  
artillery shells, municipal refuse, metal slag, flyash, drummed industrial wastes.

Locations of Chemicals/Wastes: Buried wastes, partially buried drums, junk vehicles on northern section,  
Cattle may be on-site.

Estimated Volume of Chemicals/Wastes: Unknown.

Site Currently in Operation Yes: [ ] No: [ X ]

C. HAZARD EVALUATION

List Hazards by Task (i.e., drum sampling, drilling, etc.) and number them. (Task numbers are cross-referenced in Section D)

Physical Hazard Evaluation: 1. Site reconnaissance, 2. Geophysical survey, 3. Environmental sampling -  
surface soil, surface water, leachate.

Chemical Hazard Evaluation:

| Compound | PEL/TWA                     | Route of Exposure                             | Acute Symptoms                                       | Odor Threshold | Odor Description          |
|----------|-----------------------------|---|--|----------------|---------------------------|
| Copper   | 0.1 mg/m cu                 | Inhalation, skin and eye contact, ingestion   | Skin, eye, and nose irritation                       | --             | --                        |
| Zinc     | None established            | Eye and skin contact inhalation               | Skin irritation coughing, vomiting, fever            | --             | --                        |
| Fluoride | 2.5 mg/m cu/<br>0.1 ppm     | Inhalation, ingestion, eye and dermal contact | Irritation of skin, eyes, mucus membranes, and lungs | 0.035 ppm      | Strong, intense (choking) |
| Toluene  | 100 ppm                     | Inhalation, skin                              | Fatigue, nausea, dizziness                           | 2.3 ppm        | Aromatic                  |
| Xylene   | 100 ppm                     | Inhalation                                    | Dizziness, irritation to eyes and respiration        | 0.5 ppm        | Aromatic                  |
| Cadmium  | 0.5 mg/m cu/<br>0.2 mg/m cu | Inhalation, ingestion                         | Irritation of nose and throat                        | --             | --                        |
| Benzene  | 10 ppm                      | Inhalation                                    | Dizziness, eye, nose, throat irritation              | 4-12 ppm       | Gasoline                  |
| Lead     | 0.05 mg/m cu                | Inhalation, oral                              | Lassitude, pallor, loss of appetite                  | --             | --                        |

Note: Complete and attach a Hazard Evaluation Sheet for major known contaminant.

**D. SITE SAFETY WORK PLAN**

Site Control: Attach map, use back of this page, or sketch of site showing hot zone, contamination reduction, zone, etc.

Perimeter identified? [ Y ] Site secured? [ N ]

Work Areas Designated? [ N ] Zone(s) of Contamination Identified? [ N ]

Personnel Protection (TLD badges required for all field personnel):

Anticipated Level of Protection (Cross-reference task numbers to Section C):

|        | A | B | C | D |
|--------|---|---|---|---|
| Task 1 |   |   | X | X |
| Task 2 |   |   | X | X |
| Task 3 |   |   | X | X |
| Task 4 |   |   |   |   |

(Expand if necessary)

Modifications: Enter site in Level C with adequate air monitoring to either upgrade to Level B or downgrade to Level D.

Action Levels for Evacuation of Work Zone Pending Reassessment of Conditions:

- o Level D: O<sub>2</sub> <19.5% or >25%, explosive atmosphere >10% LEL, organic vapors above background levels, particulates > \_\_\_\_\_ mg/m<sup>3</sup>, other \_\_\_\_\_.
- o Level C: O<sub>2</sub> <19.5% or >25%, explosive atmosphere >25% LEL<sub>3</sub> (California-20%), unknown organic vapor (in breathing zone) >5 ppm, particulates > \_\_\_\_\_ mg/m<sup>3</sup>, other \_\_\_\_\_.
- o Level B: O<sub>2</sub> <19.5% or >25%, explosive atmosphere >25% LEL (California-20%), unknown organic vapors (in breathing zone) >500 ppm, particulates > \_\_\_\_\_ mg/m<sup>3</sup>, other \_\_\_\_\_.
- o Level A: O<sub>2</sub> <19.5% or >25%, explosive atmosphere >25% LEL (California-20%), unknown organic vapors >500 ppm, particulates > \_\_\_\_\_ mg/m<sup>3</sup>, other \_\_\_\_\_.

Air Monitoring (daily calibration unless otherwise noted):

| Contaminant of Interest | Type of Sample (area, personal) | Monitoring Equipment | Frequency of Sampling |
|-------------------------|---------------------------------|----------------------|-----------------------|
| Volatile organics       | Area                            | Hnu 10.2 eV          | Continuous            |
| Flammables              | Area                            | Explosimeter         | Continuous            |
|                         |                                 |                      |                       |
|                         |                                 |                      |                       |
|                         |                                 |                      |                       |

(Expand if necessary)

Decontamination Solutions and Procedures for Equipment, Sampling Gear, etc.:

1. Scrub with brushes in trisodium phosphate solution, 2. Rinse with deionized water, 3. 10% Nitric acid
4. Rinse with hexane, 5. Rinse with acetone, 6. Rinse with deionized water, 7. Air dry.

\*Note: Decon activities requiring solvent use necessitate wearing APR w/GMC-H cartridges, as well as impermeable gloves.

Personnel Decon Protocol: Following disposal of expendables, crew will wash hands/face asap. Water, pump soap, and paper towels to be available at hotline.

Decon Solution Monitoring Procedures, if Applicable: N/A.

Special Site Equipment, Facilities, or Procedures (Sanitary Facilities and Lighting Must Meet 29 CFR 1910.120):

Site Entry Procedures and Special Considerations: No. Invasive sampling without adequate assessment of possible buried drums and/or ordnance. Use caution if rail line is active.

Work Limitations (time of day, weather conditions, etc.) and Heat/Cold Stress Requirements: Daylight, no work during thunderstorms.

General Spill Control, if applicable: N/A.

Investigation-Derived Material Disposal (i.e., expendables, decon waste, cuttings):

To be determined; solid materials to be double bagged; liquids to be containerized. Written authorization must be obtained to leave IDMs on-site after beginning of fieldwork, or plans should be made for off-site disposal.

Sample Handling Procedures Including Protective Wear:

APR, rubber booties and gloves, Tyvek coveralls, safety shoes. Face shield to be worn when sampling liquids. Surgical gloves for handling samples during documentation, labeling, and packing.

| <u>Team Member*</u> | <u>Responsibility</u> |
|---------------------|-----------------------|
| TBD                 | Team Leader           |
|                     | Site Safety Officer   |
|                     |                       |
|                     |                       |
|                     |                       |
|                     |                       |
|                     |                       |

All entries into exclusion zone require Buddy System use. All E & E field staff participate in medical monitoring program and have completed applicable training per 29 CFR 1910.120. Respiratory protection program meets requirements of 29 CFR 1910.134, and ANSI Z88.2 (1980).

**E. EMERGENCY INFORMATION**

(Use supplemental sheets, if necessary)

**LOCAL RESOURCES**

(Obtain a local telephone book from your hotel, if possible)

Ambulance Dial 911

Hospital Emergency Room 89 Genesee Street, 14611 St. Mary's Hospital (716) 464-3000

Poison Control Center Strong Memorial Hospital, 601 Elmwood Avenue, Rochester 14642 (716) 275-5151

Police (include local, county sheriff, state) Dial 911, Monroe County Sheriff

\_\_\_\_\_

Fire Department Dial 911

Airport Rochester Monroe County Airport

Agency Contact (EPA, State, Local USCG, etc.) \_\_\_\_\_

Local Laboratory E & E ASC

UPS/Fed. Express \_\_\_\_\_

Client/EPA Contact \_\_\_\_\_

Site Contact \_\_\_\_\_

**SITE RESOURCES**

Site Emergency Evacuation Alarm Method TBD at site meeting

Water Supply Source \_\_\_\_\_

Telephone Location, Number \_\_\_\_\_

Cellular Phone, if available \_\_\_\_\_

Radio \_\_\_\_\_

Other \_\_\_\_\_

**EMERGENCY CONTACTS**

1. Dr. Raymond Harbison (Univ. of Florida) ..... (501) 221-0465 or (904) 462-3277, 3281  
Alachua, Florida ..... (501) 370-8263 (24 hours)
2. Ecology and Environment, Inc., Safety Director  
Paul Jonnaire ..... (716) 684-8060 (office)  
..... (716) 655-1260 (home)
3. Regional Office Contact ..... (home)  
..... (office)
4. FITOM, TATOM, or Office Manager ..... (home)

**MEDTOX HOTLINE**

1. Twenty-four hour answering service: (501) 370-8263

**What to report:**

- State: "this is an emergency."
- Your name, region, and site.
- Telephone number to reach you.
- Your location.
- Name of person injured or exposed.
- Nature of emergency.
- Action taken.

2. A toxicologist, (Drs. Raymond Harbison or associate) will contact you. Repeat the information given to the answering service.

3. If a toxicologist does not return your call within 15 minutes, call the following persons in order until contact is made:

- a. 24 hour hotline - (716) 684-8940
- b. Corporate Safety Director - Paul Jonmaire - home # (716) 655-1260
- c. Assistant Corp. Safety Officer - Steven Sherman - home # (716) 688-0084

**EMERGENCY ROUTES**

(NOTE: Field Team must Know Route(s) Prior to Start of Work)

Directions to hospital (include map) Golden Road to West Side Drive, make a right on West Side. Follow this  
down to Chili Avenue, make a left on Chili. Follow this all the way to Genesee Street; hospital is on corner.

Emergency Egress Routes to Get Off-Site To be determined and discussed at on-site safety meeting.



**F. EQUIPMENT CHECKLIST**

| <b>PROTECTIVE GEAR</b>           |  |     |                                   |  |     |
|----------------------------------|--|-----|-----------------------------------|--|-----|
| <u>Level A</u>                   |  | No. | <u>Level B</u>                    |  | No. |
| SCBA                             |  |     | SCBA                              |  |     |
| SPARE AIR TANKS                  |  |     | SPARE AIR TANKS                   |  |     |
| ENCAPSULATING SUIT (Type _____)  |  |     | PROTECTIVE COVERALL (Type _____)  |  |     |
| SURGICAL GLOVES                  |  |     | RAIN SUIT                         |  |     |
| NEOPRENE SAFETY BOOTS            |  |     | BUTYL APRON                       |  |     |
| BOOTIES                          |  |     | SURGICAL GLOVES                   |  |     |
| GLOVES (Type _____)              |  |     | GLOVES (Type _____)               |  |     |
| OUTER WORK GLOVES                |  |     | OUTER WORK GLOVES                 |  |     |
| HARD HAT                         |  |     | NEOPRENE SAFETY BOOTS             |  |     |
| CASCADE SYSTEM                   |  |     | BOOTIES                           |  |     |
| 5-MINUTE ESCAPE COOLING VEST     |  |     | HARD HAT WITH FACE SHIELD         |  |     |
|                                  |  |     | CASCADE SYSTEM                    |  |     |
|                                  |  |     | MANIFOLD SYSTEM                   |  |     |
|                                  |  |     |                                   |  |     |
|                                  |  |     |                                   |  |     |
| <u>Level C</u>                   |  |     | <u>Level D</u>                    |  |     |
| ULTRA-TWIN RESPIRATOR            |  | X   | ULTRA-TWIN RESPIRATOR (Available) |  | X   |
| POWER AIR PURIFYING RESPIRATOR   |  |     | CARTRIDGES (Type GMC-H)           |  | X   |
| CARTRIDGES (Type GMC-H)          |  | X   | 5-MINUTE ESCAPE MASK (Available)  |  |     |
| 5-MINUTE ESCAPE MASK             |  |     | PROTECTIVE COVERALL (Type Tyvek)  |  | X   |
| PROTECTIVE COVERALL (Type Tyvek) |  | X   | RAIN SUIT                         |  |     |
| RAIN SUIT                        |  |     | NEOPRENE SAFETY BOOTS             |  |     |
| BUTYL APRON                      |  |     | BOOTIES                           |  | X   |
| SURGICAL GLOVES                  |  | X   | WORK GLOVES                       |  | X   |
| GLOVES (Type Neoprene)           |  | X   | HARD HAT WITH FACE SHIELD         |  | X   |
| OUTER WORK GLOVES                |  |     | SAFETY GLASSES                    |  |     |
| NEOPRENE SAFETY BOOTS            |  | X   |                                   |  |     |
| HARD HAT WITH FACE SHIELD        |  |     |                                   |  |     |
| BOOTIES                          |  | X   |                                   |  |     |
| HARDHAT                          |  |     |                                   |  |     |
|                                  |  |     |                                   |  |     |
|                                  |  |     |                                   |  |     |
|                                  |  |     |                                   |  |     |
|                                  |  |     |                                   |  |     |

| <b>INSTRUMENTATION</b>     | <b>No.</b> | <b>DECON EQUIPMENT</b>          | <b>No.</b> |
|----------------------------|------------|---------------------------------|------------|
| OVA                        |            | WASH TUBS                       | X          |
| THERMAL DESORBER           |            | BUCKETS                         |            |
| O2/EXPLOSIMETER W/CAL. KIT | 1          | SCRUB BRUSHES                   | X          |
| PHOTOVAC TIP               |            | PRESSURIZED SPRAYER             | X          |
| HMU (Probe 10.2 lamp)      | 1          | DETERGENT (Type spray bottle)   | X          |
| MAGNETOMETER               |            | SOLVENT (Type hexane/acetone)   | X          |
| PIPE LOCATOR               |            | PLASTIC SHEETING                | X          |
| WEATHER STATION            |            | TARPS AND POLES                 |            |
| DRAEGER PUMP, TUBES _____  |            | TRASH BAGS                      | X          |
| BRUNTON COMPASS            |            | TRASH CANS                      | X          |
| MONITOX CYANIDE            |            | MASKING TAPE                    |            |
| HEAT STRESS MONITOR        |            | DUCT TAPE                       | X          |
| NOISE EQUIPMENT _____      |            | PAPER TOWELS                    | X          |
| PERSONAL SAMPLING PUMPS    |            | FACE MASK                       |            |
|                            |            | FACE MASK SANITIZER             | X          |
|                            |            | FOLDING CHAIRS                  |            |
|                            |            | STEP LADDERS                    |            |
| <b>RADIATION EQUIPMENT</b> |            | DISTILLED WATER                 | X          |
| DOCUMENTATION FORMS        |            | 10% NITRIC ACID                 | X          |
| PORTABLE RATEMETER         |            |                                 |            |
| SCALER/RATEMETER           |            | <b>SAMPLING EQUIPMENT</b>       |            |
| NaI Probe                  |            | 8 OZ. BOTTLES                   | X          |
| ZnS Probe                  |            | HALF-GALLON BOTTLES             |            |
| GM Pancake Probe           |            | VOA BOTTLES                     | X          |
| GM Side Window Probe       |            | STRING                          |            |
| MICRO R METER              |            | HAND BAILERS                    |            |
| ION CHAMBER                |            | THIEVING RODS WITH BULBS        |            |
| ALERT DOSIMETER            |            | SPOONS                          | X          |
| POCKET DOSIMETER           |            | KNIVES                          | X          |
|                            |            | FILTER PAPER                    |            |
| <b>FIRST AID EQUIPMENT</b> |            | PERSONAL SAMPLING PUMP SUPPLIES |            |
| FIRST AID KIT              |            |                                 |            |
| OXYGEN ADMINISTRATOR       | 1          |                                 |            |
| STRETCHER                  |            |                                 |            |
| PORTABLE EYE WASH          | 1          |                                 |            |
| BLOOD PRESSURE MONITOR     |            |                                 |            |
| FIRE EXTINGUISHER          | 1          |                                 |            |

| VAN EQUIPMENT         | No. | MISCELLANEOUS (Cont.)              | No. |
|-----------------------|-----|------------------------------------|-----|
| TOOL KIT              | 1   |                                    |     |
| HYDRAULIC JACK        |     |                                    |     |
| LUG WRENCH            | 1   |                                    |     |
| TOW CHAIN             | 1   |                                    |     |
| VAN CHECK OUT         |     |                                    |     |
| Gas                   |     |                                    |     |
| Oil                   |     |                                    |     |
| Antifreeze            |     |                                    |     |
| Battery               |     |                                    |     |
| Windshield Wash       |     |                                    |     |
| Tire Pressure         |     |                                    |     |
|                       |     |                                    |     |
|                       |     |                                    |     |
|                       |     |                                    |     |
|                       |     |                                    |     |
|                       |     |                                    |     |
|                       |     |                                    |     |
|                       |     |                                    |     |
| MISCELLANEOUS         |     | SHIPPING EQUIPMENT                 |     |
| PITCHER PUMP          |     | COOLERS                            | X   |
| SURVEYOR'S TAPE       | X   | PAINT CANS WITH LIDS, 7 CLIPS EACH |     |
| 100 FIBERGLASS TAPE   |     | VERMICULITE                        |     |
| 300 NYLON ROPE        |     | SHIPPING LABELS                    | X   |
| NYLON STRING          |     | DOT LABELS: "DANGER"               |     |
| SURVEYING FLAGS       | X   | "UP"                               |     |
| FILM                  |     | "INSIDE CONTAINER COMPLIES ..."    |     |
| WHEEL BARROW          |     | "HAZARD GROUP"                     |     |
| BUNG WRENCH           |     | STRAPPING TAPE                     | X   |
| SOIL AUGER            |     | BOTTLE LABELS                      | X   |
| PICK                  |     | BAGGIES                            | X   |
| SHOVEL                |     | CUSTODY SEALS                      | X   |
| CATALYTIC HEATER      |     | CHAIN-OF-CUSTODY FORMS             | X   |
| PROPANE GAS           |     | FEDERAL EXPRESS FORMS              |     |
| BANNER TAPE           | X   | CLEAR PACKING TAPE                 | X   |
| SURVEYING METER STICK |     |                                    |     |
| CHAINING PINS & RING  |     |                                    |     |
| TABLES                |     |                                    |     |
| WEATHER RADIO         |     |                                    |     |
| BINOCULARS            |     |                                    |     |
| MAGAPHONE             |     |                                    |     |

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**ON-SITE SAFETY MEETING**

Project \_\_\_\_\_ TDD/Pan \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_ Job No. \_\_\_\_\_  
 Address \_\_\_\_\_  
 Specific Location \_\_\_\_\_  
 Type of Work \_\_\_\_\_

**SAFETY TOPICS PRESENTED**

Protective Clothing/Equipment \_\_\_\_\_

Chemical Hazards \_\_\_\_\_

Radiation Hazards \_\_\_\_\_

Physical Hazards \_\_\_\_\_

Emergency Procedures \_\_\_\_\_

Hospital/Clinic \_\_\_\_\_ Telephone \_\_\_\_\_

Hospital Address \_\_\_\_\_

Special Equipment \_\_\_\_\_

Other \_\_\_\_\_

Checklist

1. Emergency information reviewed? \_\_\_\_\_ and made familiar to all team members? \_\_\_\_\_
2. Route to nearest hospital driven? \_\_\_\_\_ and its location known to all team members? \_\_\_\_\_
3. Site safety plan readily available and its location known to all team members? \_\_\_\_\_

Meeting shall be attended by all personnel who will be working within the exclusion area. Daily informal update meetings will be held when site tasks and/or conditions change.

**ATTENDEES**  
 (Expand on back of sheet if necessary)

| Name Printed | Signature |
|--------------|-----------|
|              |           |
|              |           |
|              |           |
|              |           |
|              |           |
|              |           |

Meeting Conducted by: \_\_\_\_\_ (Print) \_\_\_\_\_ (Signature)

\_\_\_\_\_  
 (Site Safety Coordinator)

\_\_\_\_\_  
 (Team Leader) Environment

**A T T E N D E E S (Cont.)**

| Name Printed | Signature |
|--------------|-----------|
|              |           |
|              |           |
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|              |           |

HAZARD EVALUATION OF CHEMICALS

Chemical Name Copper Date 4-21-89  
DOT Name/U.N. No. \_\_\_\_\_ Job No. GN4010  
CAS Number 7440-50-8

References Consulted (circle):

NIOSH/OSHA Pocket Guide Verschueren Merck Index Hazardline Chris (Vol. II)  
Toxic and Hazardous Safety Manual ACGIH Other: Handbook of Inorganic  
Chemicals + Compounds

Chemical Properties: (Synonyms: NONE)  
Chemical Formula CuSO<sub>4</sub> · 5H<sub>2</sub>O / CuSO<sub>4</sub> Molecular Weight 249.04  
Physical State metal dust Solubility (H<sub>2</sub>O) insoluble Boiling Point 2595°C  
Flash Point \_\_\_\_\_ Vapor Pressure/Density 8.94 Freezing Point \_\_\_\_\_  
Specific Gravity 8.92 Odor/Odor Threshold \_\_\_\_\_ Flammable Limits \_\_\_\_\_  
Incompatibilities Acetylene gas, Magnesium, Metal Resid.

Biological Properties:

TLV-TWA 0.2 mg/m<sup>3</sup> PEL 0.1 mg/m<sup>3</sup> Odor Characteristic \_\_\_\_\_  
IDLH \_\_\_\_\_ Human LD<sub>50</sub> 5.6 g/kg Aquatic 5.6 mg/L Rat/Mouse \_\_\_\_\_  
Routes of Exposure Inhalation, Ingestion, SKIN OF EYE CONTACT  
Carcinogen \_\_\_\_\_ Teratogen \_\_\_\_\_ Mutagen \_\_\_\_\_

Handling Recommendations: (Personal protective measures)

Wear protective clothing, Eye Protection, Respirator, Dust  
Protection.

Monitoring Recommendations:

Disposal/Waste Treatment:

1st Method is Copper Recovery. If that is not feasible the  
Copper CAN be precipitated through the use of Caustic And the  
Sludge deposited in A chemical waste landfill.

Health Hazards and First Aid:

Edithamil Calcium disodium Recommended. Ca<sup>++</sup> - lower if  
followed by saline catharsis. induce vomiting + eye wash. irrigate eye  
+ WASH SKIN with soap. Inhalation - MOVE to Fresh Air + provide Artificial Respiration.

Symptoms: Acute: Skin Irritation, Eye Irritation

Chronic: Ulceration of nasal septum  
Nausea, Vomiting, Headache, Dizziness, Constipation

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HAZARD EVALUATION OF CHEMICALS

Chemical Name ZINC Date 4-21-89  
DOT Name/U.N. No. UN1436 Job No. YN4000  
CAS Number \_\_\_\_\_

References Consulted (circle):

NIOSH/OSHA Pocket Guide Verschueren Merck Index Hazardline Chris (Vol. II)  
Toxic and Hazardous Safety Manual ACGIH Other: OHS LARA LAC

Chemical Properties: (Synonyms: Blue Powder, CI 77945, JASAL)

Chemical Formula ZN Molecular Weight 65.37

Physical State Solid Solubility (H<sub>2</sub>O) insol Boiling Point 1625°C

Flash Point non-flammable Vapor Pressure/Density none 909°F Freezing Point 787°C

Specific Gravity 7.14 Odor/Odor Threshold \_\_\_\_\_ Flammable Limits \_\_\_\_\_

Incompatibilities Acids, sodium Peroxide, Chlorine, Water, Calcium

Biological Properties:

TLV-TWA \_\_\_\_\_ PEL None established Odor Characteristic \_\_\_\_\_

IDLH not spec found Human \_\_\_\_\_ Aquatic \_\_\_\_\_ Rat/Mouse \_\_\_\_\_

Route of Exposure eye, skin contact, Inhalation

Carcinogen \_\_\_\_\_ Teratogen \_\_\_\_\_ Mutagen \_\_\_\_\_

Handling Recommendations: (Personal protective measures)

Prevent repeated or prolonged skin contact. wear eye protection, clothing, gloves + face shield

Monitoring Recommendations:

Disposal/Waste Treatment:

Place contaminated clothing in a separate bag and store until laundered and returned

Health Hazards and First Aid:

If it gets in eyes wash with large amt of water. Medical attention immediately.

Symptoms: Acute: Skin irritation, chest constriction, muscular ache, fever, nausea

Chronic: None specified

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HAZARD EVALUATION OF CHEMICALS

Chemical Name Fluoride (Fluorine) Date 4-21-89  
DOT Name/U.N. No. 1045 Job No. UN 1100  
CAS Number 7782-41-4

References Consulted (circle):

NIOSH/OSHA Pocket Guide Verschueren Merck Index Hazardline Chris (Vol. II)  
Toxic and Hazardous Safety Manual ACGIH Other: Handbook of Toxic and Hazardous  
Chemicals + Carcinogens.

Chemical Properties: (Synonyms: \_\_\_\_\_)  
Chemical Formula F<sub>2</sub> Molecular Weight 38.00  
Physical State Gas or liquid Solubility (H<sub>2</sub>O) insoluble Boiling Point -188°C  
Flash Point \_\_\_\_\_ Vapor Pressure/Density not available Freezing Point -219°C  
Specific Gravity 1.11 Odor/Odor Threshold 0.03 ppm Flammable Limits \_\_\_\_\_  
Incompatibilities Reacts with most oxidizing substances/water

Biological Properties:

TLV-TWA 0.1 ppm PEL 2.5 mg/m<sup>3</sup> Odor Characteristic sharp  
IDLH 500 mg/m<sup>3</sup> Human LD<sub>50</sub> 25 ppm Aquatic Rat/Mouse LC<sub>50</sub> 185 ppm  
Route of Exposure Inhale Ingestion, eye + skin Dermal  
Carcinogen \_\_\_\_\_ Teratogen \_\_\_\_\_ Mutagen \_\_\_\_\_

Handling Recommendations: (Personal protective measures)

Chemical granules - special clothing not easily washed  
by Fluorine gas.

Monitoring Recommendations:

Disposal/Waste Treatment:

Reaction of aqueous fluoride with calcium hydroxide to form calcium fluoride  
by precipitation. And either recovery or land disposal of the precipitated  
calcium fluoride.

Health Hazards and First Aid:

Avoid contact with vapor or liquid irrigate eyes immediately  
wash skin with large quantities of water for at least 15 minutes. And get medical attention if respiratory  
ingestion: give large quantities of water to induce vomiting, medical attention.

Symptoms: Acute: irritants of skin, eyes, mucous membranes + lungs

Chronic: irritant in CAN produce bronchospasm, laryngospasm  
and pulmonary edema. Also Gastrointestinal irritation.



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HAZARD EVALUATION OF CHEMICALS

Chemical Name TOLUENE Date 4-13-89 4-21-89  
DOT Name/U.N. No. 1294 Job No. YATCO 40000  
CAS Number \_\_\_\_\_

References Consulted (circle):

NIOSH/OSHA Pocket Guide Verschueren Merck Index Hazardline Chris (Vol. II)  
Toxic and Hazardous Safety Manual ACGIH Other: \_\_\_\_\_

Chemical Properties: (Synonyms: METHYL BENZENE, TOLUOL.)  
Chemical Formula C<sub>7</sub>H<sub>8</sub> Molecular Weight 92  
Physical State COLOURLESS LIQUID Solubility (H<sub>2</sub>O) 0.05%/100 H<sub>2</sub>O Boiling Point 231° F  
Flash Point 40° F Vapor Pressure/Density 3.2 Freezing Point -139° F  
Specific Gravity 0.8669 Odor/Odor Threshold 2ppm - BNC Flammable Limits 1.3% - 7.1%  
Incompatibilities STRONG OXIDIZERS, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, O<sub>2</sub>, PEROXIDES, HEAT

Biological Properties:

TLV-TWA 200ppm (30ppm CEILING) PEL \_\_\_\_\_ Odor Characteristic BENZENE LIKE  
IDLH 2000ppm Human IHL TOL - 200ppm Aquatic \_\_\_\_\_ Rat/Mouse \_\_\_\_\_  
Route of Exposure INHALATION, SKIN  
Carcinogen EXPERIMENTAL Teratogen \_\_\_\_\_ Mutagen \_\_\_\_\_

Handling Recommendations: (Personal protective measures)

IMPERVIOUS CLOTHING, GLOVES, <sup>VITON</sup> FACESHIELD, RESPIRATOR  
W/ ORGANIC VAPOR CARTRIDGE UP TO 1000ppm, >1000ppm USE SCBA

Monitoring Recommendations:

Disposal/Waste Treatment:

CONCENTRATED: INCINERATION; DILUTE DISCHARGE TO MUNICIPAL PA  
SEWER AFTER PRIMARY TREATMENT, INCINERATION FOR DILUTE  
ORGANIC MIXTURE

Health Hazards and First Aid:

FLUSH AREA WITH WATER, & WASH WITH SOAP, MOVE TO FRESH AIR IF BREATHED; IF SWALLOWED, DO NOT INDUCE VOMITING.

Symptoms: Acute: CNS DEPRESSION, FATIGUE, NAUSEA  
Chronic: BONE MARROW DEPRESSION, IRRITATION OF SKIN, DERMATITIS

HAZARD EVALUATION OF CHEMICALS

Chemical Name XYLENE Date 4-13-89 4-21-89  
DOT Name/U.N. No. 1307 Job No. Y01000 IN4000  
CAS Number \_\_\_\_\_

References Consulted (circle):

NIOSH/OSHA Pocket Guide Verschueren Merck Index Hazardline Chris (Vol. II)  
Toxic and Hazardous Safety Manual ACGIH Other: \_\_\_\_\_

Chemical Properties: (Synonyms: DIMETHYLBENZENE, XYLOL)  
Chemical Formula C<sub>8</sub>H<sub>10</sub> Molecular Weight 106  
Physical State COLORLESS LIQUID Solubility (H<sub>2</sub>O) 0.0003% Boiling Point 142°F  
Flash Point 77°F Vapor Pressure/Density 37 Freezing Point -12°F  
Specific Gravity 0.86 Odor/Odor Threshold 0.5 ppm Flammable Limits 1.0% - 7.0%  
Incompatibilities STRONG OXIDIZERS, STRONG ACID, HEAT, PEROXIDE

Biological Properties:

TLV-TWA 100 ppm PEL \_\_\_\_\_ Odor Characteristic AROMATIC  
IDLH 10,000 ppm Human HL TL0 - 200 ppm Aquatic Rat/Mouse TL0 L50 500 ppm  
Route of Exposure INHALE, SKIN  
Carcinogen EXPERIMENTAL Teratogen \_\_\_\_\_ Mutagen \_\_\_\_\_

Handling Recommendations: (Personal protective measures)

IMPERVIOUS CLOTHING, PVC GLOVES, FACESHIELD, AVOID  
PROLONGED CONTACT. RESPIRATOR w/ ORGANIC VAPOR CARTRIDGE  
TO 5,000 ppm, >10,000 ppm USE SCBA

Monitoring Recommendations:

Disposal/Waste Treatment:

OSHA STANDARD 29 CFR 1910.106 APPLIES

Health Hazards and First Aid:

SKIN - WASH w/ SOAP + WATER; EYES - FLUSH w/ WATER;  
REMOVE TO FRESH AIR IF OVERDOSE

Symptoms: Acute: EYE + MUCOUS MEMBRANE IRRITANT, CNS  
DEPRESSANT, TINGLING PERIODS GASTROINTESTINAL UP  
Chronic: MORE SEVERE THAN ABOVE, HYPERCALCAEMIA OF BONE  
MARROW;

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Hazard Evaluation of Chemicals  
Region V - Chicago

Chemical Name Cadmium Date 4-21-89

DOT Classification \_\_\_\_\_ Job Number 415403

CAS Number 7440-43-9

REFERENCES CONSULTED (circle; also include MSDS if appropriate.)

NIOSH/OSHA Pocket Guide Merck Index Hazardline Chris (vol. III)  
ACGIH TLV Booklet Toxic & Hazardous Safety Manual SAX Aldrich  
RTECS other: Casarett & Doull's Toxicology, Niosh Occupational Healthguid

CHEMICAL PROPERTIES: (Synonyms: C.I 77180 )  
Chemical Formula Cd MW 112.4 Ionization Potential N/A  
Physical State Crystals Boiling Point 1412° F Freezing Point 609° F  
Flash Point N/A Flammable Limits N/A Vapor Pressure \_\_\_\_\_  
Specific Gravity/Density 8.642 Odor/Odor Threshold None

Solubility-water: Insoluble Solubility-other: \_\_\_\_\_  
Incompatibilities & Reactivity: Strong oxidizers, sulfur, selenium, zinc, amn

TOXICOLOGICAL PROPERTIES: \_\_\_\_\_ (dust) (Fume)

Exposure Limits: TLV-TWA (ACGIH) .05mg/m<sup>3</sup> PEL (OSHA) .2mg/m<sup>3</sup> .1mg/m<sup>3</sup>  
STEL None est. Ceiling Limits .6mg/m<sup>3</sup> / .3mg/m<sup>3</sup> IDLH 40 mg/m<sup>3</sup>

Toxicity Data: (Indicate duration of study)

Human; IHL Telo 39mg/m<sup>3</sup>/20M Dermal \_\_\_\_\_ Oral \_\_\_\_\_

Rat/Mouse; IHL \_\_\_\_\_ Dermal \_\_\_\_\_ Oral LD50 225mg/kg

Aquatic: N/A Other: \_\_\_\_\_

Carcinogen animal-pos Mutagen exp. \_\_\_\_\_ Reproductive Toxin exper. teratoge

Route(s) of exposure - (circle all that apply): Inhalation Ingestion

Dermal Contact \_\_\_\_\_ Eye(ocular)\* \_\_\_\_\_ Dermal Absorption \_\_\_\_\_ Other \_\_\_\_\_

HANDLING RECOMMENDATIONS: (personal protective measures)

Respirators: > any detectable air concentraton - use SCBA

Protective Clothing: Chemical resistant gloves & boots.

Special Equipment: None

DISPOSAL, FIRE and SPILLS: (Use numbered codes; see attached sheets for explanation.)

Disposal P Fire 13 Leaks&Spills 7.10

Decomposition Products: Toxic Cd fumes

FIRST AID:

INL: Large quantities of water, induce vomiting, medical attent.

IHG: Remove to fresh air, art. resp. if necessary, med. attent. immed.

Eye/Skin: Irrigate/wash with water for at least 15 min.

SYMPTOMS:

acute (immediate) exposure effects: IHL: irritation of nose & throat, 2-ho delay before symptoms of cough, chest pain, nausea, vomiting, dizziness, hills, stomach distress. ING Nausea, vomiting, diarrhea, abdominal cramps

chronic (long term) exposure effects: loss of smell, ulceration of nose, shortness of breath, liver damage, kidney damage (most affected), mild anemia, emphysema, linked to cancer & hypertension.

reproductive effects: Possibly causes prostate cancer. teratogenic in

Hazard Evaluation of Chemicals  
Region V - Chicago

Chemical Name Benzene Date 4-21-89  
Classification \_\_\_\_\_ Job Number 4154001  
S Number 71-43-2

REFERENCES CONSULTED (circle; also include MSDS if appropriate.)  
OSHA/OSHA Pocket Guide Merck Index Hazardline Chris (vol. III)  
NIH TLV Booklet Toxic & Hazardous Safety Manual SAX Aldrich  
ECS other: \_\_\_\_\_

CHEMICAL PROPERTIES: (Synonyms: benzol, benzole, cyclohexatriene)  
Chemical Formula C<sub>6</sub>H<sub>6</sub> MW 78 Ionization Potential 9.245ev.  
Physical State liquid Boiling Point 176° F Freezing Point 42° F  
Flash Point 12° F Flammable Limits 1.3-7.1% Vapor Pressure 75mm  
Specific Gravity/Density 0.879 Odor/Odor Threshold 4.68 ppm  
Solubility-water: slightly Solubility-other: \_\_\_\_\_  
Compatibilities & Reactivity: strong oxidizers, chlorine, bromine

TOXICOLOGICAL PROPERTIES:  
Exposure Limits: TLV-TWA (ACGIH) 10 ppm PEL (OSHA) 10 ppm  
STEL none Ceiling Limits >25<50ppm/10min IDLH 2000 ppm  
Toxicity Data: (Indicate duration of study)  
Human; IHL Tclo 100/CNS Dermal \_\_\_\_\_ Oral Tdlo 130mg/kg:CNS  
Rat/Mouse; IHL Tclo 50/24H Dermal \_\_\_\_\_ Oral LD50 3800mg/kg  
Mutagenic: Tlm96: 100-10ppm Other: IHL: Man TC 2100mg/m<sup>3</sup>/4Y; carc.  
Carcinogen human-sus Mutagen exper. Reproductive Toxin exper.  
Route(s) of exposure - (circle all that apply): Inhalation Ingestion  
Dermal Contact Eye(ocular) Dermal Absorption Other \_\_\_\_\_

HANDLING RECOMMENDATIONS: (personal protective measures)  
Respirators: 10 ppm use SCBA  
Protective Clothing: excel-viton; good-neoprene; saranax; poor-butyl, natural rubber for gloves. Avoid skin/eye contact.  
Special Equipment: none

DISPOSAL, FIRE and SPILLS: (Use numbered codes; see attached sheets for explanation.)  
Disposal D Fire 6,7 Leaks&Spills 3,4,5,6,9  
Decomposition Products: toxic fumes of carbon dioxide, carbon monoxide

FIRST AID:  
ING: Do not induce vomiting, give water or milk, medical attent. immed.  
IN: Remove to fresh air, give artificial resp. if needed, medical attent.  
EYE/Skin: Flush with water, rinse/wash skin with soap & water thoroughly.

SYMPTOMS:  
Acute (immediate) exposure effects: skin irritant, CNS depressant, mostly IHL, initial excitation followed by headache, dizziness, vomiting, delirium, after re exposure may see tremors, blurred vision, shallow resp., convulsions.

Chronic (long term) exposure effects: anorexia, drowsiness, anemia, bleeding under skin, reduced blood clotting; liver, kidney, bone marrow damage, leukemia.

Reproductive effects: None reported in humans.

Hazard Evaluation of Chemicals  
Region V - Chicago

Chemical Name Lead Date 4-21-89  
Classification \_\_\_\_\_ Job Number C/N 40010  
CAS Number 7439-92-1

REFERENCES CONSULTED (circle; also include MSDS if appropriate.)  
OSHA/OSHA Pocket Guide Merck Index Hazardline Chris (vol. 111)  
NIH TLV Booklet Toxic & Hazardous Safety Manual SAX Aldrich  
ECS other: Sittig

PHYSICAL PROPERTIES: (Synonyms: White lead, plumbum )  
Chemical Formula Pb MW 207 Ionization Potential N/A  
Physical State Variable Boiling Point 3164° F Freezing Point \_\_\_\_\_  
Flash Point Incombust. Flammable Limits Incombust Vapor Pressure variable  
Specific Gravity/Density 11.3 @61° F Odor/ Odor Threshold None  
Solubility-water: Insoluble Solubility-other: \_\_\_\_\_  
Compatibilities & Reactivity: Strong oxidizers, peroxides, active metals

TOXICOLOGICAL PROPERTIES:

Exposure Limits: TLV-TWA (ACGIH) .15 mg/m<sup>3</sup> PEL (OSHA) 50ug/m<sup>3</sup>  
STEL None est. Ceiling Limits None est. IDLH Variable  
Toxicity Data: (Indicate duration of study)  
Human; IHL \_\_\_\_\_ Dermal \_\_\_\_\_ Oral Td10 450mg/kg/6Y  
Rat/Mouse; IHL \_\_\_\_\_ Dermal \_\_\_\_\_ Oral Td10 790mg/kg  
Acute: Unknown Other: Toxicity varies with lead cpds.  
Carcinogen Indef. Mutagen Indef Reproductive Toxin exp. teratogen  
Route(s) of exposure - (circle all that apply): Inhalation Ingestion  
Dermal Contact Eye/ocular Dermal Absorption Other \_\_\_\_\_

WORKING RECOMMENDATIONS: (personal protective measures)

Respirators: 5mg/m<sup>3</sup> high efficiency particulate respirator, other  
concentrations - SCBA.  
Protective Clothing: Avoid skin and eye contact  
Special Equipment: None

WASTE DISPOSAL, FIRE and SPILLS: (Use numbered codes; see attached sheets for explanation.)

Disposal P Fire 13 Leaks & Spills 7, 8, 10  
Composition Products: Toxic fumes of lead

FIRST AID:

G: Give water, induce vomiting, medical attention immed.  
I: Move to fresh air, artificial resp. if necessary, medical attent.  
E/Skin: Irrigate/wash with water. Wash skin thoroughly with soap & water.

Symptoms:

Acute (immediate) exposure effects: Cumulative neurotoxin - commonly occurs  
on prolonged exposure. Symptoms include stomach distress, vomiting,  
headache, black stools, anemia, nervous system effects.  
Chronic (long term) exposure effects: 3 clinical types: a - alimentary - abdominal  
pain, discomfort, constipation or diarrhea, metallic taste, lead line on gum  
ache. b - neuromuscular, muscle weakness, joint/muscle pain, dizziness,  
insomnia, paralysis c - encephalic: brain involvement, stupor, coma, death, rare.  
Reproductive effects: Human epid. studies have concluded that lead is a  
hazard to male & female germ cells; increased incidence of miscarriages,  
stillbirths, sterility in females; sperm depression & decreased motility in males.

## DRILLING SITE SAFETY CHECKLIST

- o All E&E drilling personnel will have read and understood the terms of E&E drilling SOP.
- o Daily inspection of rig and components - obvious or questionable safety conditions will be cause for work interruption.
- o Only approved drillers will remain in proximity to borehole during drilling and in any event, an approximate 4' x 8' super exclusion area will be in place around moving auger. No personnel will enter this zone while drilling is ongoing.
- o Continuous O<sub>2</sub>/explosimeter monitoring at borehole using remote sampling hose.
- o All field team members will be briefed on planned drilling operations and possible problems before work commences on day one. All will be shown location and operation of "kill switches". These switches will be operationally checked each morning.
- o Fire extinguisher(s) will be staged next to rig before drilling/refueling operations.
- o Welding/cutting activities will only be performed at a distance from ignition sources approved as safe by the Site Safety Officer (SSO), Team Leader.
- o Appropriate personnel protective equipment (based on hazards associated with assumed well contaminants) will be worn as directed by the SSO and terms of the site safety plan. As a minimum, steel-toed boots, hard-hats, and face shields will be worn during any active drilling.
- o Outrigger stabilizers must be in place before drilling commences. The rig must also be leveled.
- o Drill rig boom must be horizontal during movement of rig. It will not be erected within 25 feet of overhead lines.
- o Electrical storms within earshot of the job site will be cause for work termination until deemed safe by the SSO and Team Leader.
- o Where underground utilities are suspected in a vicinity of operations, the local utilities shall be contacted. Where utilities are identified, they shall be marked using flags.
- o Where buried drums, etc. are suspected, a full survey of drilling zone is required using appropriate instrumentation prior to ground breaking.

## DRILLING SITE SAFETY CHECKLIST continued:

- o Only trained, experienced staff will operate the cathead. Personnel must be knowledgeable in safe good practice procedures for cathead use.
- o Only properly licensed staff will drive the drill rig. A daily safety check of the vehicle will be carried out by the driver, per E&E protocol.
- o Climbing on vertical boom is not permitted by E&E staff.

**APPENDIX B**  
**PHOTOGRAPHIC LOGS**



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PHOTOGRAPHIC RECORD

Client: NYSDEC E & E Job No.: YN4080

Camera: Make Kodak Fling 35mm Disposable SN: N/A

Photographer: G. Florentino Date/Time: 5/17/89 1220

Lens: Type N/A SN: N/A Frame No.: 6 (Roll 2)

Comments: View to north of proposed GW-7 well location. Note area is surrounded by junked vehicles.



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PHOTOGRAPHIC RECORD

Client: NYSDEC E & E Job No.: YN4080

Camera: Make Kodak Fling 35mm Disposable SN: N/A

Photographer: G. Florentino Date/Time: 5/17/89 1235

Lens: Type N/A SN: N/A Frame No.: 5 (Roll 2)

Comments: View to south of proposed GW-1 well location (stake). Note: Driveway in foreground and Conrail tracks in background.



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PHOTOGRAPHIC RECORD

Client: NYSDEC E & E Job No.: YN4080

Camera: Make Kodak Fling 35mm Disposable SN: N/A

Photographer: G. Florentino Date/Time: 5/17/89 1345

Lens: Type N/A SN: N/A Frame No.: 4 (Roll 2)

Comments: View to north of proposed GW-2 location (stake). Note: Conrail tracks in background.



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**P H O T O G R A P H I C   R E C O R D**

Client:   NYSDEC   E & E Job No.:   YN4080  

Camera: Make   Kodak Fling 35mm Disposable   SN:   N/A  

Photographer:   G. Florentino   Date/Time:   5/17/89  1430  

Lens: Type   N/A   SN:   N/A   Frame No.:   3 (Roll 2)  

Comments:   View to west of proposed GW-5 well location (stake) on edge of fill area.  



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P H O T O G R A P H I C   R E C O R D

Client:   NYSDEC   E & E Job No.:   YN4080  

Camera: Make   Kodak Fling 35mm Disposable   SN:   N/A  

Photographer:   G. Florentino   Date/Time:   5/17/89  1620  

Lens: Type   N/A   SN:   N/A   Frame No.:   2 (Roll 2)  

Comments:   View to west of proposed GW-4 well location (stake). Note: Site boundary is to right,    
  I490 is to left.  



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PHOTOGRAPHIC RECORD

Client: NYSDEC E & E Job No.: YN4080

Camera: Make Kodak Fling 35mm Disposable SN: N/A

Photographer: G. Florentino Date/Time: 5/17/89 1710

Lens: Type N/A SN: N/A Frame No.: 1 (Roll 2)

Comments: View to west of proposed GW-3 well location (stake). Note: Site boundary is to right, I490 is to left.



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PHOTOGRAPHIC RECORD

Client: NYSDEC E & E Job No.: YN4080

Camera: Make Kodak Fling 35mm Disposable SN: N/A

Photographer: G. Florentino Date/Time: 5/17/89 1145

Lens: Type N/A SN: N/A Frame No.: 0 (Roll 3)

Comments: View to west of proposed GW-6 well location (stake).



**APPENDIX C**

**GEOPHYSICAL SURVEY**



# **ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES**

## **PHASE II INVESTIGATIONS**

### **GEOPHYSICAL SURVEY**

**GOLDEN ROAD DISPOSAL SITE  
SITE NUMBER 828021  
TOWN OF CHILI, MONROE COUNTY**

**June 1989**



**Prepared for:**

**New York State Department  
of Environmental Conservation  
50 Wolf Road, Albany, New York 12233  
Thomas C. Jorling, Commissioner**

**Division of Hazardous Waste Remediation  
Michael J. O'Toole, Jr., P.E., Director**

**Prepared by:**

**Ecology and Environment Engineering, P.C.**

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## 1. INTRODUCTION

This geophysical investigation report for the Golden Road Disposal site (I.D. No. 828021) on Golden Road in Chili, New York, was prepared by Ecology and Environment Engineering, P.C. (E & E), under contract to the New York State Department of Environmental Conservation (NYSDEC). The geophysical investigation consisted of an EM31 (electromagnetic terrain conductivity) survey and a portable proton magnetometer (total earth field magnetics) survey. This report includes field data (Appendix C-1) and contour maps (Appendix C-2) for the geophysical survey performed at this site on May 17, 1989, as part of the Phase II Investigation. Additionally, interpretations of the data generated, along with conclusions, are provided in this report.

## 2. OBJECTIVES

The geophysical survey program at the Golden Road Disposal site was designed to achieve several general goals. The main objectives of the geophysical methods used were to optimize the locations of the seven proposed on-site groundwater monitoring wells; reduce the risks associated with drilling into unknown terrain and wastes; reduce overall project time and cost; improve the accuracy and confidence of the investigation; identify the existence and boundaries of buried waste or groundwater contamination plumes; and to determine vertical and horizontal anomalies.

### 3. METHODS

Grids were set up at each of the prospective monitoring well locations. The X and Y axes of each survey grid were initially oriented approximately east-west and north-south, respectively. Precise compass orientations were then obtained for each of the survey grid axes. Survey grid coordinate 0,0 is located in the southwest corner of each contour map. Semi-permanent wooden stakes mark the proposed well locations for reference during drilling.

The dimension and station spacing of each survey grid varied due to physical restrictions at each proposed site (i.e., dense vegetation, steepness of slope, standing water, metal debris, railroad tracks, power lines, fences, etc.). Both horizontal and vertical dipole readings in north-south/east-west orientations were recorded at each survey grid node when performing the EM31 survey. The effective depths of penetration provided by the EM31 in the vertical and horizontal dipole modes is  $\leq 18$  feet and  $\leq 9$  feet, respectively. These depths were considered adequate to delineate any buried materials which may be encountered while drilling. Magnetometer readings were recorded at each node in both north-south/east-west orientations.

All geophysical field data were initially recorded in two log books dedicated to this site investigation. Magnetometer data were reduced by averaging station readings for north-south and east-west orientations and correcting these values for diurnal variation based on background station readings. EM31 conductivity data were averaged for north-south and east-west orientations for both vertical and horizontal dipole positions. The reduced geophysical data (see Appendix C-1) were then plotted and contoured for each survey (see Appendix C-2).

#### 4. DATA INTERPRETATION

The purpose of interpreting the results of the magnetometer and EM31 surveys is to provide a probable explanation for anomalous geophysical contours. The presence of buried utilities, metal objects, wastes, and contaminant plumes is often manifest as relatively elevated or decreased station readings and gradient values. The following interpretations are based on the contour maps generated from magnetometer and EM31 data which are listed in Tables 1 and 2 in Appendix C-1. The survey grids encompass each of the seven groundwater monitoring well locations as proposed by NYSDEC in the Phase II Investigation Work Plan for the Golden Road Disposal site (see Figure 4-1).

The following discussion provides details of each of the seven survey grids:

##### **Survey Grid Area No. 1**

A review of magnetometer data contours at the no. 1 grid location indicates that this 1,200-square-foot survey area is without substantial geomagnetic anomalies. The risk of drilling into any shallow ferrous material is expected to be minimal.

In general, low electromagnetic conductivity values measured with the EM31 (3.5 to 12.5 millimhos/meter) were observed in both vertical and horizontal dipole modes. These low values indicate the absence of near-surface metal debris and/or contamination. Higher values and negative values were observed in the northeast corner and along the western border of the survey grid. These values are the result of interference caused by a hay wagon, farm machinery, and other metal debris. Negative conductivity readings indicate very high conductivity beyond the capabilities of the instrument.

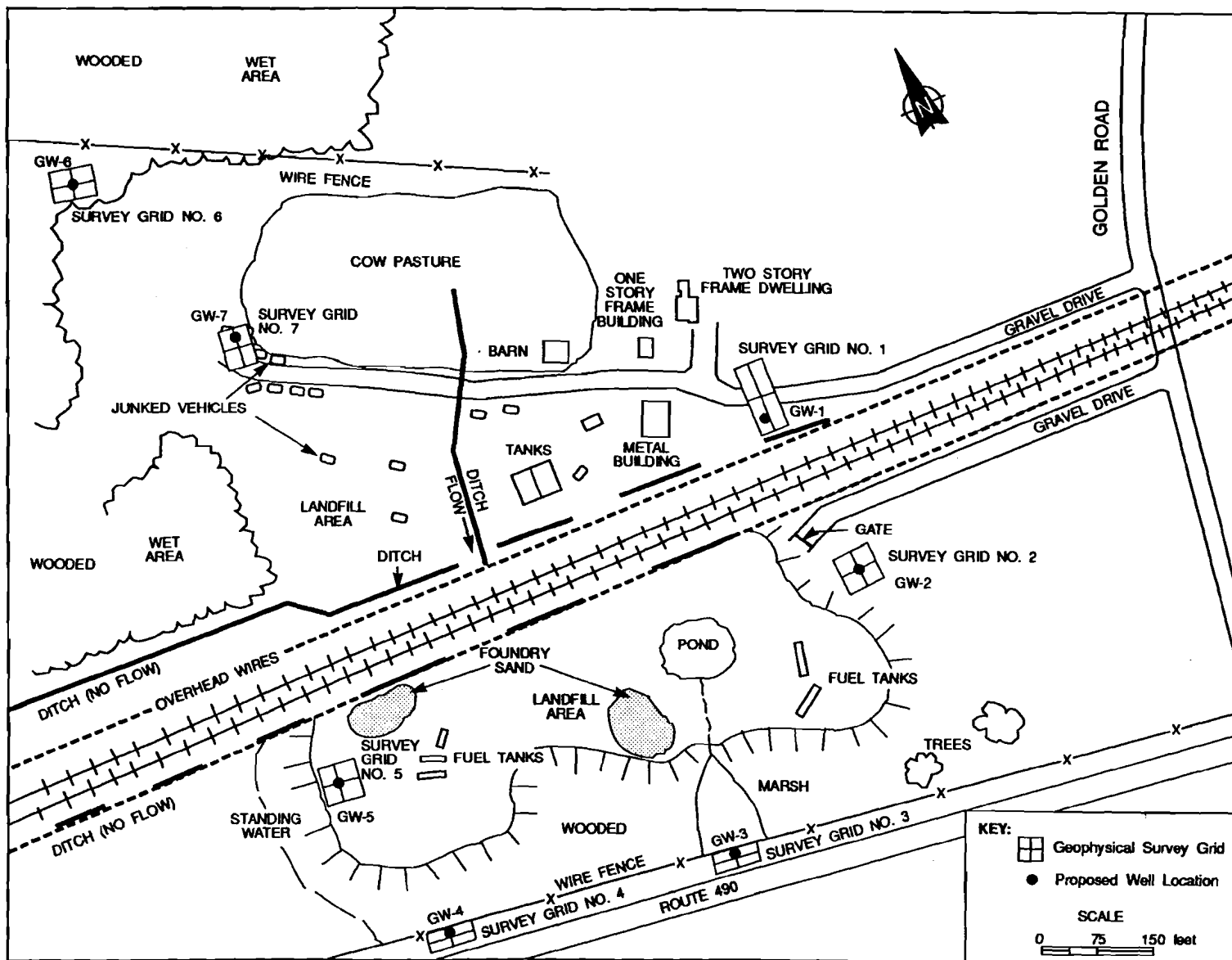


Figure 4-1  
GEOPHYSICAL SURVEY AND PROPOSED GROUNDWATER MONITORING WELL LOCATIONS



The installation of the proposed monitoring well GW-1 at the location indicated on the contour map is suitable. The well location may also be moved to any area within the survey grid if required to facilitate rig access.

### **Survey Grid Area No. 2**

A review of magnetometer data contours at the No. 2 grid location indicates that this 1,600-square-foot survey area is without substantial geomagnetic anomalies. There is an isolated area at coordinate 30,10 where the magnetic field decreases. This may be due to the presence of a very small, shallow object because an anomalous response by the EM31 at the same station was lacking. The risk of drilling into any shallow ferrous material within this grid area is expected to be minimal.

Low electromagnetic conductivity values measured with the EM31 (7.5 to 10 millimhos/meter) were observed in both vertical and horizontal dipole modes. These low values indicate the absence of near-surface metal debris and/or contamination.

The installation of the proposed monitoring well GW-2 at the location indicated on the contour map is suitable. The location may also be moved to any area within the survey grid if required to facilitate rig access.

### **Survey Grid Area No. 3**

A review of magnetometer data contours at the No. 3 grid location indicates that this 1,200-square-foot survey area contains several geomagnetic anomalies. The apparent anomalies are located in the southern portion of the survey grid. The source of these anomalies is probably due to interference from construction material of Interstate 490 along with the effects of passing vehicles approximately 10 feet to the south of the survey grid.

Electromagnetic conductivity values measured with the EM31 (13.5 to 41.5 millimhos/meter) were observed in both vertical and horizontal dipole modes. These values were relatively low and consistent in the central portion of the survey grid, thus indicating the absence of near-surface metal debris and/or contamination. Conductivity increased to the south and north of the survey grid. Once again, the increase to the

south was caused by Interstate 490, and the increase to the north was due to the presence of a fence 10 feet to the north of the survey grid.

The installation of the proposed monitoring well GW-3 at the location indicated on the contour map is suitable. The location may also be moved to any area within the survey grid if required to facilitate rig access.

#### **Survey Grid Area No. 4**

A review of magnetometer data contours at the No. 4 grid location indicates that this 1,200-square-foot survey area contains one geomagnetic anomaly. This anomalous area in the southeast corner of the survey grid is probably due to the effects of Interstate 490 approximately 10 feet to the south of the survey grid. The risk of drilling into any shallow ferrous material within this grid area is expected to be minimal.

Electromagnetic conductivity values measured with the EM31 (12.0 to 44.5 millimhos/meter) were observed in both vertical and horizontal dipole modes. These values were relatively low and constant in the central portion of the survey grid, thus indicating the absence of near-surface metal debris and/or contamination. Conductivity increased to the north due to the presence of a fence and to the south due to the effects of Interstate 490 ten feet outside the survey area.

The installation of the proposed monitoring well GW-4 at the location indicated on the contour map is suitable. The location may also be moved to any area within the survey grid if required to facilitate rig access.

#### **Survey Grid Area No. 5**

A review of magnetometer data contours at the No. 5 grid location indicates that this 1,600-square-foot survey area contains two geomagnetic anomalies. These anomalous areas, located in the northwest corner of the grid and at coordinate 10,20, probably represent small, shallow metallic objects because of the lack of anomalous responses of the EM31 in the same areas. Care should be taken when drilling in this area because it appears the survey grid is located on fill material.

Low electromagnetic conductivity values measured with the EM31 (5.5 to 14.0 millimhos/meter) were observed in both vertical and horizontal dipole modes. These low values indicate the absence of near-surface metal debris and/or contamination.

The installation of the proposed monitoring well GW-5 at the location indicated on the contour map is unsuitable due to the presence of the magnetic anomaly. The location should be moved to any other area within the survey grid outside of coordinates 0,40 to 10,40 and 0,20 to 10,20.

#### **Survey Grid Area No. 6**

A review of magnetometer data contours at the No. 6 grid location indicates that this 1,600-square-foot survey area is without substantial geomagnetic anomalies. The risk of drilling into any shallow ferrous material within this grid area is expected to be minimal.

Low electromagnetic conductivity values measured with the EM31 (6.0 to 9.5 millimhos/meter) were observed in both vertical and horizontal dipole modes. These low values indicate the absence of near-surface metal debris and/or contamination.

The installation of the proposed monitoring well GW-6 at the location indicated on the contour map is suitable. The location may also be moved to any area within the survey grid if required to facilitate rig access.

#### **Survey Grid Area No. 7**

A review of magnetometer data contours at the No. 7 grid location indicates that this 600-square-foot survey area contains several geomagnetic anomalies. The main cause of these anomalies is interference from adjacent junked vehicles. The risk of drilling into any shallow ferrous material within this grid area is unknown due to the low reliability of the data.

Electromagnetic conductivity values measured with the EM31 ranged from 12.3 to 31 millimhos/meter along with negative values along the borders of the survey grid in both vertical and horizontal dipole modes. Negative meter readings indicate very high conductivities beyond the

capabilities of the instrument. These high values also were caused by the presence of the junked vehicles.

The installation of the proposed monitoring well GW-7 at the location indicated on the contour map is questionable. The well should be moved to a location free from cultural interferences, or the vehicles should be removed and the area should be re-surveyed.

## 5. CONCLUSIONS AND RECOMMENDATIONS

Based upon the interpretations discussed in Section 4, the proposed locations of 5 of the 7 groundwater monitoring wells appear to be satisfactory with only minor adjustments. On-site field observations indicate that survey grid area no. 5 is probably located over a fill area. Particular care should be exercised in order to avoid drilling through potentially hazardous material. The location of GW-7 should be moved to an area free from cultural interferences, or the vehicles should be removed and the area re-surveyed.

Prior to drilling, the underground-utility locating service should be contacted to indicate possible public utilities buried in the vicinity of the drill sites.

All proposed well locations should be confirmed with a NYSDEC representative prior to the commencement of drilling, especially GW-5. The presence of a magnetic anomaly at the GW-5 well location indicates that this well should be moved to an area outside the 0,40 to 10,40 and 0,20 to 10,20 coordinates as discussed in Section 4.

APPENDIX C-1

MAGNETOMETER AND  
EM31 SURVEY DATA

Table 1  
**AVERAGE NORTH-SOUTH/EAST-WEST  
 MAGNETOMETER READINGS**  
**GOLDEN ROAD DISPOSAL SITE**  
 Grid No. 1

| Station # | Average<br>N-S/E-W<br>(Gammas) | Corrected Data*<br>(Gammas) |
|-----------|--------------------------------|-----------------------------|
| 0,0       | 52,136                         | 52,141                      |
| 10,0      | 52,138                         | 52,148                      |
| 20,0      | 52,139                         | 52,145                      |
| 0,10      | 52,134                         | 52,155                      |
| 10,10     | 52,139                         | 52,165                      |
| 20,10     | 52,142                         | 52,173                      |
| 0,20      | 53,093                         | 53,129                      |
| 10,20     | 52,133                         | 52,175                      |
| 20,20     | 52,138                         | 52,185                      |
| 0,30      | 52,144                         | 52,196                      |
| 10,30     | 52,134                         | 52,191                      |
| 20,30     | 52,144                         | 52,206                      |
| 0,40      | 52,144                         | 52,212                      |
| 10,40     | 52,141                         | 52,214                      |
| 20,40     | 52,146                         | 52,224                      |
| 0,50      | 52,152                         | 52,235                      |
| 10,50     | 52,150                         | 52,238                      |
| 20,50     | 52,143                         | 52,237                      |
| 0,60      | 52,138                         | 52,237                      |
| 10,60     | 52,142                         | 52,246                      |
| 20,60     | 52,148                         | 52,258                      |

[UZ]YN4030:D2419, #1637, PM=30

\*Data has been corrected for natural magnetic fluctuations (i.e., drift) by using data obtained at an on-site base station.

**Table 1**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**MAGNETOMETER READINGS**  
**GOLDEN ROAD DISPOSAL SITE**  
**Grid No. 2**

| Station # | Average<br>N-S/E-W<br>(Gammas) | Corrected Data*<br>(Gammas) |
|-----------|--------------------------------|-----------------------------|
| 0,0       | 57,283                         | 57,225                      |
| 10,0      | 56,654                         | 56,538                      |
| 20,0      | 56,976                         | 56,802                      |
| 30,0      | 56,713                         | 56,481                      |
| 40,0      | 57,097                         | 56,807                      |
| 0,10      | 57,094                         | 56,746                      |
| 10,10     | 56,228                         | 55,822                      |
| 20,10     | 55,889                         | 55,425                      |
| 30,10     | 54,546                         | 54,024                      |
| 40,0      | 56,373                         | 55,787                      |
| 0,20      | 56,135                         | 55,491                      |
| 10,20     | 56,896                         | 56,194                      |
| 20,20     | 56,396                         | 55,636                      |
| 30,20     | 56,951                         | 56,133                      |
| 40,20     | 57,218                         | 56,342                      |
| 0,30      | 57,032                         | 56,098                      |
| 10,30     | 57,540                         | 56,548                      |
| 20,30     | 57,099                         | 56,049                      |
| 30,30     | 57,651                         | 56,543                      |
| 40,30     | 57,041                         | 55,875                      |
| 0,40      | 57,077                         | 55,853                      |
| 10,40     | 57,032                         | 55,750                      |
| 20,40     | 57,057                         | 55,717                      |
| 30,40     | 57,556                         | 56,158                      |
| 40,40     | 56,951                         | 55,502                      |

[UZ]YN4030:D2419, #1637, PM=30

\*Data has been corrected for natural magnetic fluctuations (i.e., drift) by using data obtained at an on-site base station.



**Table 1**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**MAGNETOMETER READINGS**  
**GOLDEN ROAD DISPOSAL SITE**  
**Grid No. 3**

| Station # | Average<br>N-S/E-W<br>(Gammas) | Corrected Data*<br>(Gammas) |
|-----------|--------------------------------|-----------------------------|
| 40,0      | 53,390                         | 53,403                      |
| 30,0      | 54,951                         | 54,977                      |
| 20,0      | 55,588                         | 55,626                      |
| 10,0      | 54,109                         | 54,160                      |
| 0,0       | 56,733                         | 56,797                      |
| 0,10      | 53,690                         | 53,767                      |
| 10,10     | 57,661                         | 57,751                      |
| 20,10     | 53,493                         | 53,595                      |
| 30,10     | 57,199                         | 57,314                      |
| 40,10     | 57,386                         | 57,514                      |
| 0,20      | 54,633                         | 54,774                      |
| 10,20     | 55,659                         | 55,813                      |
| 20,20     | 57,232                         | 57,398                      |
| 30,20     | 55,176                         | 55,355                      |
| 40,20     | 56,194                         | 56,386                      |
| 40,30     | 56,599                         | 56,804                      |
| 30,30     | 57,189                         | 57,407                      |
| 20,30     | 56,766                         | 56,996                      |
| 10,30     | 57,305                         | 57,548                      |
| 0,30      | 57,228                         | 57,484                      |

[UZ]YN4030:D2419, #1637, PM=30

\*Data has been corrected for natural magnetic fluctuations (i.e., drift) by using data obtained at an on-site base station.

**Table 1**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**MAGNETOMETER READINGS**

**GOLDEN ROAD DISPOSAL SITE**

Grid No. 4

| Station # | Average<br>N-S/E-W<br>(Gammas) | Corrected Data*<br>(Gammas) |
|-----------|--------------------------------|-----------------------------|
| 40,0      | 54,187                         | 54,456                      |
| 30,0      | 56,165                         | 56,447                      |
| 20,0      | 56,929                         | 57,223                      |
| 10,0      | 57,130                         | 57,437                      |
| 0,0       | 57,347                         | 57,667                      |
| 0,10      | 57,046                         | 57,379                      |
| 10,10     | 56,750                         | 57,096                      |
| 20,10     | 57,201                         | 57,559                      |
| 30,10     | 57,462                         | 57,833                      |
| 40,10     | 56,871                         | 57,255                      |
| 40,20     | 57,157                         | 57,554                      |
| 30,20     | 56,951                         | 57,361                      |
| 20,20     | 56,855                         | 57,277                      |
| 10,20     | 57,000                         | 57,435                      |
| 0,20      | 57,171                         | 57,619                      |
| 0,30      | 56,572                         | 57,033                      |
| 10,30     | 56,640                         | 57,114                      |
| 20,30     | 56,597                         | 57,083                      |
| 30,30     | 56,814                         | 57,314                      |
| 40,30     | 56,754                         | 57,266                      |

[UZ]YN4030:D2419, #1637, PM=30

\*Data has been corrected for natural magnetic fluctuations (i.e., drift) by using data obtained at an on-site base station.

Table 1  
**AVERAGE NORTH-SOUTH/EAST-WEST  
 MAGNETOMETER READINGS**

**GOLDEN ROAD DISPOSAL SITE**

Grid No. 5

| Station # | Average<br>N-S/E-W<br>(Gammas) | Corrected Data*<br>(Gammas) |
|-----------|--------------------------------|-----------------------------|
| 40,40     | 57,299                         | 57,298                      |
| 30,40     | 57,221                         | 57,219                      |
| 20,40     | 57,512                         | 57,509                      |
| 10,40     | 57,562                         | 57,558                      |
| 0,40      | 53,960                         | 53,955                      |
| 0,30      | 56,906                         | 56,900                      |
| 10,30     | 57,735                         | 57,728                      |
| 20,30     | 57,406                         | 57,396                      |
| 30,30     | 57,366                         | 57,357                      |
| 40,30     | 57,507                         | 57,497                      |
| 40,20     | 57,148                         | 57,137                      |
| 30,20     | 57,237                         | 57,225                      |
| 20,20     | 57,591                         | 57,578                      |
| 10,20     | 58,042                         | 58,028                      |
| 0,20      | 57,556                         | 57,541                      |
| 0,10      | 57,686                         | 57,670                      |
| 10,10     | 57,760                         | 57,743                      |
| 20,10     | 57,530                         | 57,512                      |
| 30,10     | 57,551                         | 57,532                      |
| 40,10     | 57,412                         | 57,392                      |
| 40,0      | 57,155                         | 57,134                      |
| 30,0      | 57,669                         | 57,647                      |
| 20,0      | 57,223                         | 57,200                      |
| 10,0      | 57,507                         | 57,483                      |
| 0,0       | 57,649                         | 57,623                      |

[UZ]YN4030:D2419, #1637, PM=30

\*Data has been corrected for natural magnetic fluctuations (i.e., drift) by using data obtained at an on-site base station.

**Table 1**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**MAGNETOMETER READINGS**  
**GOLDEN ROAD DISPOSAL SITE**  
**Grid No. 6**

| Station # | Average<br>N-S/E-W<br>(Gammas) | Corrected Data*<br>(Gammas) |
|-----------|--------------------------------|-----------------------------|
| 40,40     | 56,842                         | 56,711                      |
| 30,40     | 56,861                         | 56,664                      |
| 20,40     | 57,405                         | 57,142                      |
| 10,40     | 57,253                         | 56,925                      |
| 0,40      | 57,465                         | 57,071                      |
| 0,30      | 57,209                         | 56,749                      |
| 10,30     | 57,141                         | 56,615                      |
| 20,30     | 57,124                         | 56,533                      |
| 30,30     | 57,577                         | 56,920                      |
| 40,30     | 57,176                         | 56,453                      |
| 40,20     | 57,251                         | 56,463                      |
| 30,20     | 57,024                         | 56,170                      |
| 20,20     | 57,187                         | 56,267                      |
| 10,20     | 57,345                         | 56,360                      |
| 0,20      | 57,126                         | 56,075                      |
| 0,10      | 57,222                         | 56,105                      |
| 10,10     | 57,363                         | 56,180                      |
| 20,10     | 57,577                         | 56,329                      |
| 30,10     | 57,140                         | 55,760                      |
| 40,10     | 57,194                         | 55,749                      |
| 40,0      | 57,372                         | 55,861                      |
| 30,0      | 57,061                         | 55,484                      |
| 20,0      | 57,207                         | 55,565                      |
| 10,0      | 57,211                         | 55,503                      |
| 0,0       | 57,459                         | 55,684                      |

[UZ]YN4030:D2419, #1637, PM=30

\*Data has been corrected for natural magnetic fluctuations (i.e., drift) by using data obtained at an on-site base station.

**Table 1**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**MAGNETOMETER READINGS**  
**GOLDEN ROAD DISPOSAL SITE**  
**Grid No. 7**

| Station # | Average<br>N-S/E-W<br>(Gammas) | Corrected Data*<br>(Gammas) |
|-----------|--------------------------------|-----------------------------|
| 0,0       | 55,356                         | 55,486                      |
| 10,0      | 53,893                         | 54,152                      |
| 20,0      | 54,615                         | 55,004                      |
| 20,10     | 53,429                         | 53,947                      |
| 10,10     | 54,445                         | 55,093                      |
| 0,10      | 53,618                         | 54,395                      |
| 0,20      | 54,688                         | 55,595                      |
| 10,20     | 55,393                         | 56,429                      |
| 20,20     | 53,182                         | 54,348                      |
| 20,30     | 54,421                         | 55,716                      |
| 10,30     | 54,142                         | 55,567                      |

[UZ]YN4030:D2419, #1637, PM=30

\*Data has been corrected for natural magnetic fluctuations (i.e., drift) by using data obtained at an on-site base station.

**Table 2**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**GROUND CONDUCTIVITY READINGS**  
**WITH EM31**

**GOLDEN ROAD DISPOSAL SITE**

**Survey Grid No. 1**

| Station # | Vertical Dipole<br>(millimhos/meter) | Horizontal Dipole<br>(millimhos/meter) |
|-----------|--------------------------------------|--|
| 0,0       | 9.5                                  | 8.0                                    |
| 0,10      | 36.5                                 | Neg.                                   |
| 0,20      | 24.0                                 | Neg.                                   |
| 0,30      | 13.0                                 | 3.5                                    |
| 0,40      | 12.0                                 | 11.5                                   |
| 0,50      | Neg.                                 | 18.0                                   |
| 0,60      | 11.0                                 | 8.5                                    |
| 10,0      | 8.0                                  | 7.0                                    |
| 10,10     | 9.0                                  | 7.5                                    |
| 10,20     | 7.0                                  | 8.5                                    |
| 10,30     | 8.0                                  | 8.5                                    |
| 10,40     | 10.0                                 | 11.0                                   |
| 10,50     | 8.5                                  | 12.5                                   |
| 10,60     | 11.0                                 | 9.0                                    |
| 20,0      | 10.0                                 | 9.0                                    |
| 20,10     | 10.5                                 | 8.5                                    |
| 20,20     | 10.5                                 | 8.0                                    |
| 20,30     | 11.5                                 | 8.0                                    |
| 20,40     | 8.5                                  | 11.5                                   |
| 20,50     | 11.0                                 | 11.5                                   |
| 20,60     | 36.0                                 | 12.5                                   |

[UZ]YN4030:D2419, #1638, PM=30

Neg. = Negative meter reading. This is caused by very high conductivity beyond the capabilities of the instrument.

**Table 2**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**GROUND CONDUCTIVITY READINGS**  
**WITH EM31**

**GOLDEN ROAD DISPOSAL SITE**

**Survey Grid No. 2**

| Station # | Vertical Dipole<br>(millimhos/meter) | Horizontal Dipole<br>(millimhos/meter) |
|-----------|--------------------------------------|--|
| 0,0       | 9.0                                  | 8.0                                    |
| 0,10      | 9.0                                  | 8.0                                    |
| 0,20      | 9.0                                  | 8.0                                    |
| 0,30      | 9.0                                  | 7.5                                    |
| 0,40      | 9.0                                  | 8.5                                    |
| 10,0      | 9.0                                  | 8.0                                    |
| 10,10     | 9.0                                  | 8.5                                    |
| 10,20     | 9.0                                  | 8.0                                    |
| 10,30     | 9.0                                  | 7.5                                    |
| 10,40     | 9.0                                  | 7.5                                    |
| 20,0      | 9.0                                  | 8.0                                    |
| 20,10     | 9.0                                  | 8.0                                    |
| 20,20     | 9.0                                  | 8.0                                    |
| 20,30     | 9.0                                  | 8.5                                    |
| 20,40     | 9.0                                  | 8.0                                    |
| 30,0      | 9.0                                  | 8.5                                    |
| 30,10     | 9.0                                  | 8.5                                    |
| 30,20     | 10.0                                 | 8.5                                    |
| 30,30     | 9.0                                  | 9.0                                    |
| 30,40     | 9.5                                  | 9.0                                    |
| 40,0      | 10.0                                 | 9.0                                    |
| 40,10     | 9.0                                  | 8.5                                    |
| 40,20     | 10.0                                 | 9.0                                    |
| 40,30     | 10.0                                 | 10.0                                   |
| 40,40     | 10.0                                 | 9.5                                    |

[UZ]YN4030:D2419, #1638, PM=30

**Table 2**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**GROUND CONDUCTIVITY READINGS**  
**WITH EM31**

**GOLDEN ROAD DISPOSAL SITE**

Survey Grid No. 3

| Station # | Vertical Dipole<br>(millimhos/meter) | Horizontal Dipole<br>(millimhos/meter) |
|-----------|--------------------------------------|--|
| 0,0       | 25.5                                 | 13.5                                   |
| 0,10      | 20.0                                 | 16.0                                   |
| 0,20      | 20.5                                 | 17.0                                   |
| 0,30      | 41.5                                 | 22.5                                   |
| 10,0      | 24.0                                 | 13.5                                   |
| 10,10     | 20.5                                 | 15.5                                   |
| 10,20     | 21.0                                 | 16.0                                   |
| 10,30     | 39.0                                 | 22.0                                   |
| 20,0      | 23.0                                 | 14.5                                   |
| 20,10     | 19.5                                 | 15.5                                   |
| 20,20     | 20.5                                 | 18.0                                   |
| 20,30     | 40.0                                 | 20.5                                   |
| 30,0      | 23.5                                 | 14.0                                   |
| 30,10     | 20.1                                 | 16.5                                   |
| 30,20     | 20.5                                 | 17.5                                   |
| 30,30     | 38.5                                 | 19.0                                   |
| 40,0      | 23.5                                 | 15.0                                   |
| 40,10     | 21.5                                 | 17.5                                   |
| 40,20     | 21.5                                 | 16.0                                   |
| 40,30     | 39.5                                 | 18.5                                   |

[UZ]YN4030:D2419, #1638, PM=30



**Table 2**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**GROUND CONDUCTIVITY READINGS**  
**WITH EM31**

**GOLDEN ROAD DISPOSAL SITE**

Survey Grid No. 4

| Station # | Vertical Dipole<br>(millimhos/meter) | Horizontal Dipole<br>(millimhos/meter) |
|-----------|--------------------------------------|--|
| 0,0       | 21.5                                 | 12.5                                   |
| 0,10      | 18.0                                 | 12.5                                   |
| 0,20      | 20.0                                 | 15.5                                   |
| 0,30      | 44.5                                 | 22.0                                   |
| 10,0      | 22.5                                 | 12.5                                   |
| 10,10     | 19.0                                 | 12.5                                   |
| 10,20     | 20.0                                 | 15.0                                   |
| 10,30     | 33.5                                 | 21.5                                   |
| 20,0      | 23.5                                 | 12.5                                   |
| 20,10     | 18.0                                 | 12.0                                   |
| 20,20     | 19.0                                 | 14.0                                   |
| 20,30     | 31.0                                 | 20.5                                   |
| 30,0      | 25.0                                 | 12.5                                   |
| 30,10     | 18.5                                 | 12.0                                   |
| 30,20     | 19.0                                 | 14.0                                   |
| 30,30     | 29.0                                 | 18.5                                   |
| 40,0      | 24.0                                 | 13.0                                   |
| 40,10     | 19.0                                 | 12.5                                   |
| 40,20     | 18.5                                 | 14.0                                   |
| 40,30     | 28.5                                 | 17.5                                   |

[UZ]YN4030:D2419, #1638, PM=30

**Table 2**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**GROUND CONDUCTIVITY READINGS**  
**WITH EM31**

**GOLDEN ROAD DISPOSAL SITE**

Survey Grid No. 5

| Station # | Vertical Dipole<br>(millimhos/meter) | Horizontal Dipole<br>(millimhos/meter) |
|-----------|--------------------------------------|--|
| 0,0       | 5.0                                  | 9.5                                    |
| 0,10      | 6.5                                  | 8.0                                    |
| 0,20      | 7.5                                  | 7.5                                    |
| 0,30      | 6.5                                  | 8.0                                    |
| 0,40      | 6.5                                  | 8.0                                    |
| 10,0      | 6.0                                  | 11.0                                   |
| 10,10     | 9.5                                  | 9.0                                    |
| 10,20     | 8.0                                  | 9.0                                    |
| 10,30     | 7.5                                  | 10.0                                   |
| 10,40     | 7.0                                  | 10.5                                   |
| 20,0      | 4.0                                  | 12.0                                   |
| 20,10     | 10.0                                 | 9.5                                    |
| 20,20     | 7.5                                  | 11.0                                   |
| 20,30     | 6.0                                  | 10.5                                   |
| 20,40     | 8.5                                  | 10.5                                   |
| 30,0      | 6.0                                  | 14.0                                   |
| 30,10     | 6.5                                  | 10.5                                   |
| 30,20     | 5.5                                  | 10.5                                   |
| 30,30     | 6.5                                  | 11.0                                   |
| 30,40     | 8.5                                  | 10.0                                   |
| 40,0      | 9.0                                  | 13.5                                   |
| 40,10     | 7.5                                  | 8.5                                    |
| 40,20     | 8.5                                  | 8.0                                    |
| 40,30     | 6.5                                  | 9.0                                    |
| 40,40     | 5.0                                  | 9.5                                    |

[UZ]YN4030:D2419, #1638, PM=30

**Table 2**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**GROUND CONDUCTIVITY READINGS**  
**WITH EM31**

**GOLDEN ROAD DISPOSAL SITE**

**Survey Grid No. 6**

| Station # | Vertical Dipole<br>(millimhos/meter) | Horizontal Dipole<br>(millimhos/meter) |
|-----------|--------------------------------------|--|
| 0,0       | 9.0                                  | 7.0                                    |
| 0,10      | 8.5                                  | 7.0                                    |
| 0,20      | 9.0                                  | 6.0                                    |
| 0,30      | 9.0                                  | 7.0                                    |
| 0,40      | 9.0                                  | 8.5                                    |
| 10,0      | 9.0                                  | 7.0                                    |
| 10,10     | 8.5                                  | 6.5                                    |
| 10,20     | 8.0                                  | 6.5                                    |
| 10,30     | 8.0                                  | 7.0                                    |
| 10,40     | 9.0                                  | 7.0                                    |
| 20,0      | 9.0                                  | 7.0                                    |
| 20,10     | 9.0                                  | 6.5                                    |
| 20,20     | 9.0                                  | 6.0                                    |
| 20,30     | 9.0                                  | 6.5                                    |
| 20,40     | 9.0                                  | 7.0                                    |
| 30,0      | 9.0                                  | 7.5                                    |
| 30,10     | 8.5                                  | 7.5                                    |
| 30,20     | 9.0                                  | 6.0                                    |
| 30,30     | 8.5                                  | 6.0                                    |
| 30,40     | 8.0                                  | 7.0                                    |
| 40,0      | 9.5                                  | 8.0                                    |
| 40,10     | 9.0                                  | 7.5                                    |
| 40,20     | 8.5                                  | 7.0                                    |
| 40,30     | 8.0                                  | 7.0                                    |
| 40,40     | 8.0                                  | 7.0                                    |

[UZ]YN4030:D2419, #1638, PM=30

**Table 2**  
**AVERAGE NORTH-SOUTH/EAST-WEST**  
**GROUND CONDUCTIVITY READINGS**  
**WITH EM31**

**GOLDEN ROAD DISPOSAL SITE**

Survey Grid No. 7

| Station # | Vertical Dipole<br>(millimhos/meter) | Horizontal Dipole<br>(millimhos/meter) |
|-----------|--------------------------------------|--|
| 0,0       | Neg.                                 | Neg.                                   |
| 0,10      | Neg.                                 | Neg.                                   |
| 0,20      | Neg.                                 | 19.5                                   |
| 0,30      | NA                                   | NA                                     |
| 10,0      | 12.5                                 | 17.0                                   |
| 10,10     | 13.0                                 | 18.5                                   |
| 10,20     | 13.0                                 | 17.0                                   |
| 10,30     | 31.0                                 | Neg.                                   |
| 20,0      | 15.5                                 | 24.0                                   |
| 20,10     | 17.0                                 | 13.0                                   |
| 20,20     | Neg.                                 | 16.0                                   |
| 20,30     | NA                                   | Neg.                                   |

[UZ]YN4030:D2419, #1638, PM=30

Neg. = Negative meter reading. This is caused by very high conductivity beyond the capabilities of the instrument.

NA = Data not available due to inaccessibility of a given survey station (i.e., the presence of junked vehicles).

APPENDIX C-2

MAGNETOMETER AND  
EM31 SURVEY CONTOUR MAPS

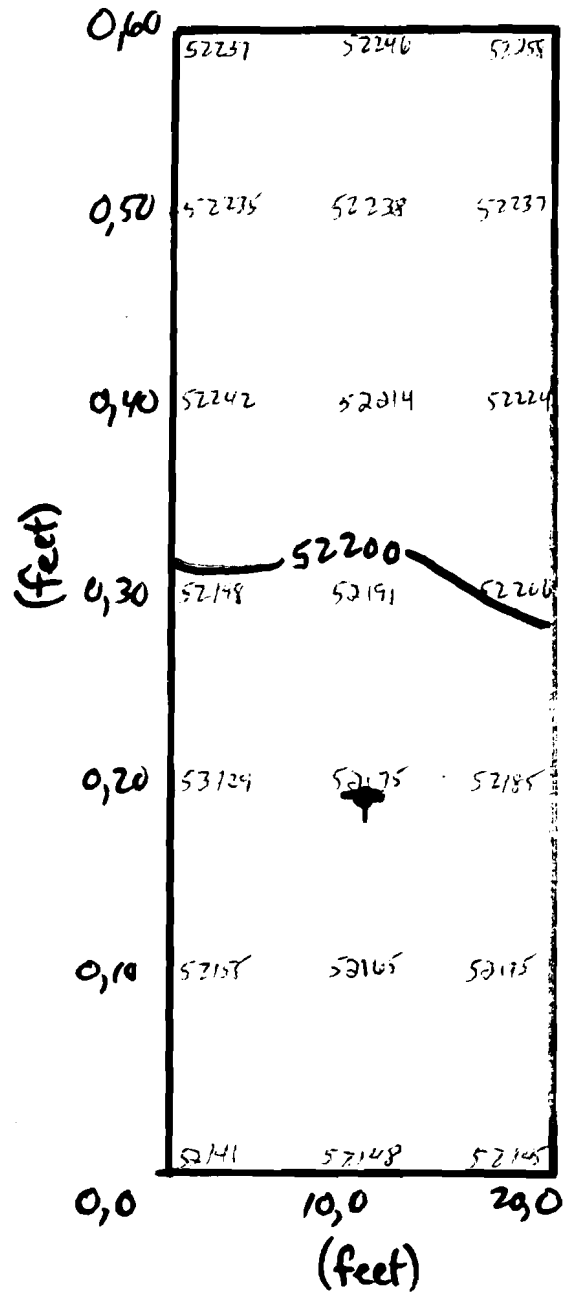
GOLDEN ROAD DISPOSAL SITE  
Site No. 828021

MAGNETOMETER SURVEY

GRID No. 1

(gammas)

N10W  
↑



C.I. = 100 gammas  
☙ = proposed well location

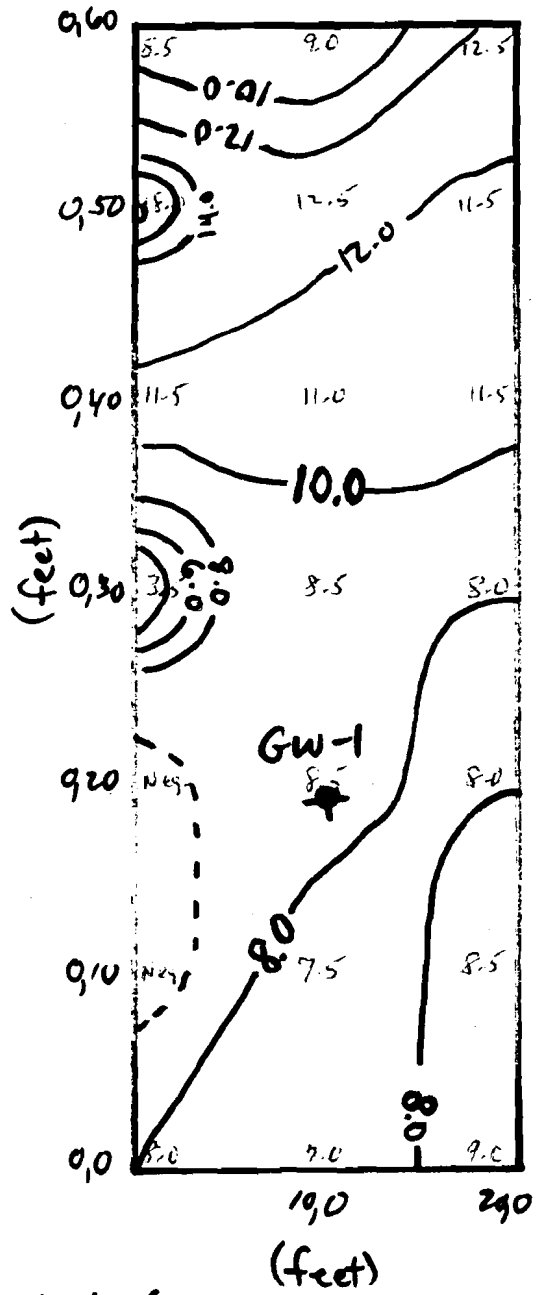
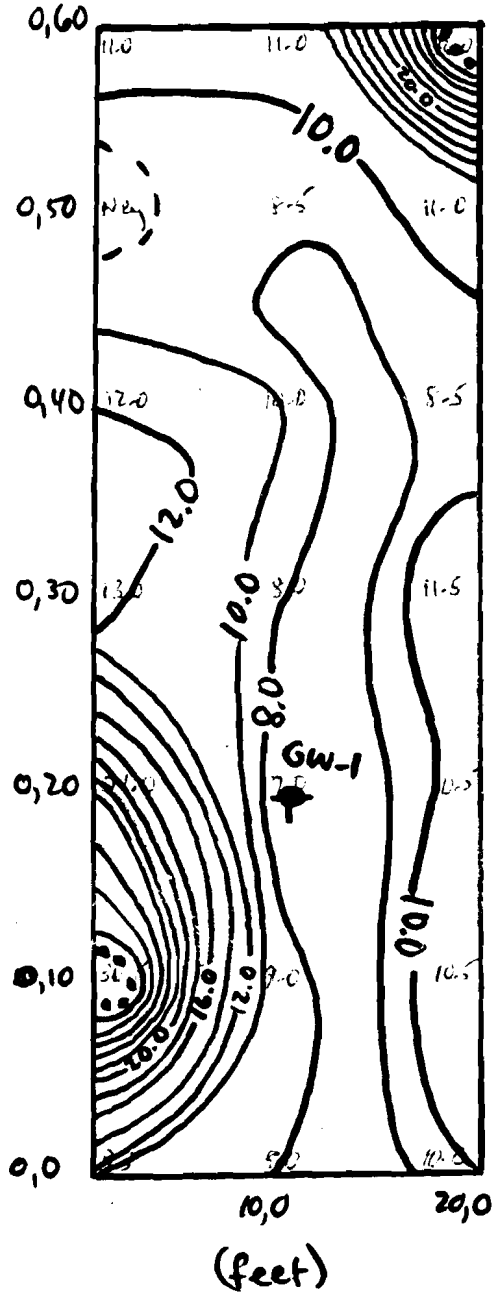
GOLDEN ROAD DISPOSAL SITE  
Site No. 828021

EM31 SURVEY GRID NO. 1

VERTICAL  
DIPOLE  
(millimhos/m)

N10W  
↑

HORIZONTAL  
DIPOLE  
(millimhos/m)



- C.I. = 2 millimhos/m
- ⊕ = Proposed well location
- - - = Negative Meter Reading
- ..... = conductivity > 30 millimhos/meter

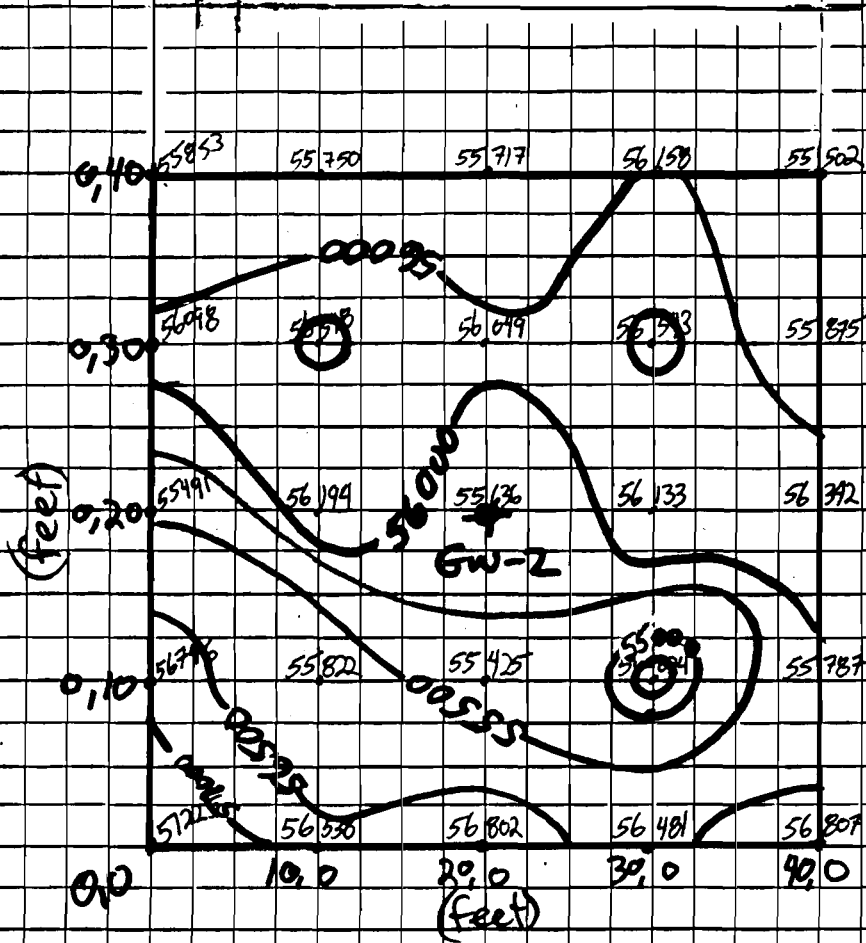
# GOLDEN ROAD SITE

Site number - 828021

## MAGNETOMETER SURVEY

GRID # 2  
(Gamma's)

North  
↑



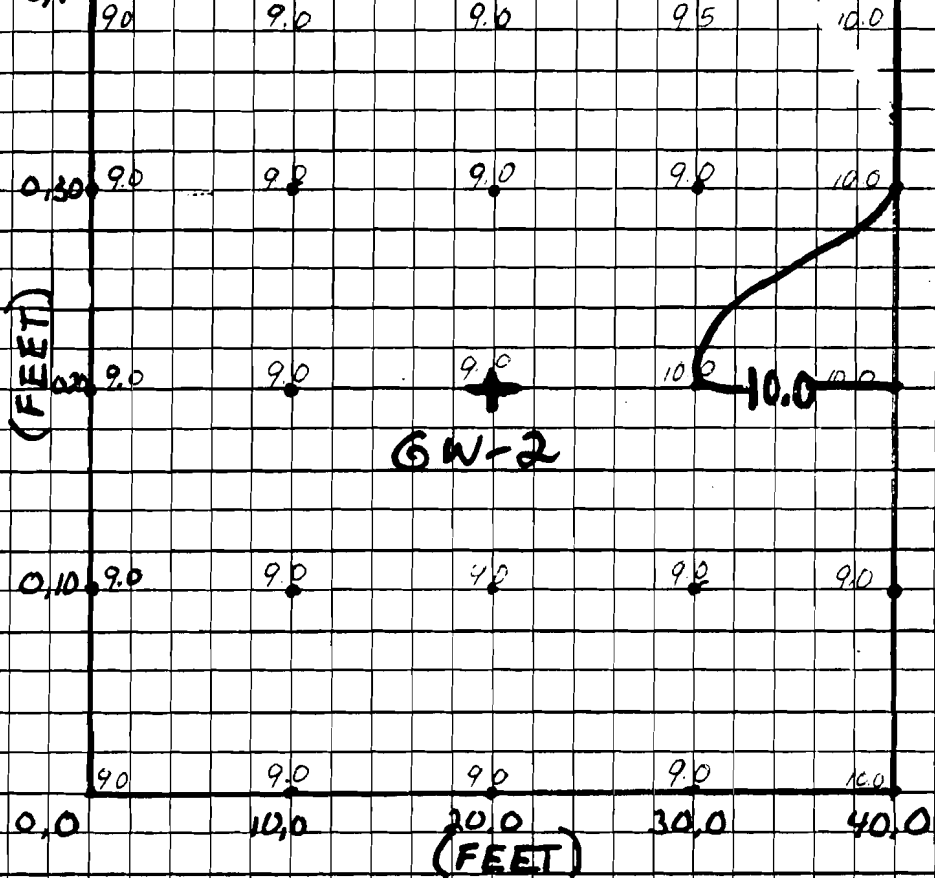
C.I. = 500 gammas

● = Proposed well location



EM31 SURVEY GRID #2

VERTICAL DIPOLE (milliHos/METER)



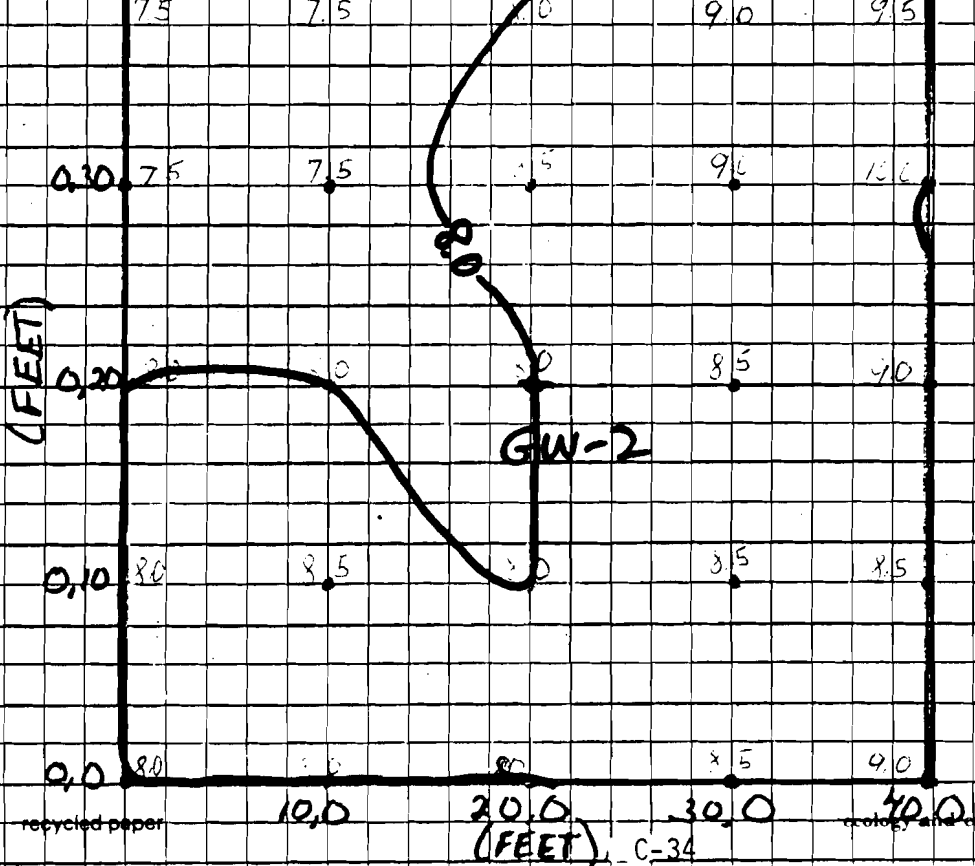
N 10W  
↑

GW-2

C.I = 2 milliHos/1

+ = PROPOSED WELL LOCAT

HORIZONTAL DIPOLE (milliHos/METER)



GW-2

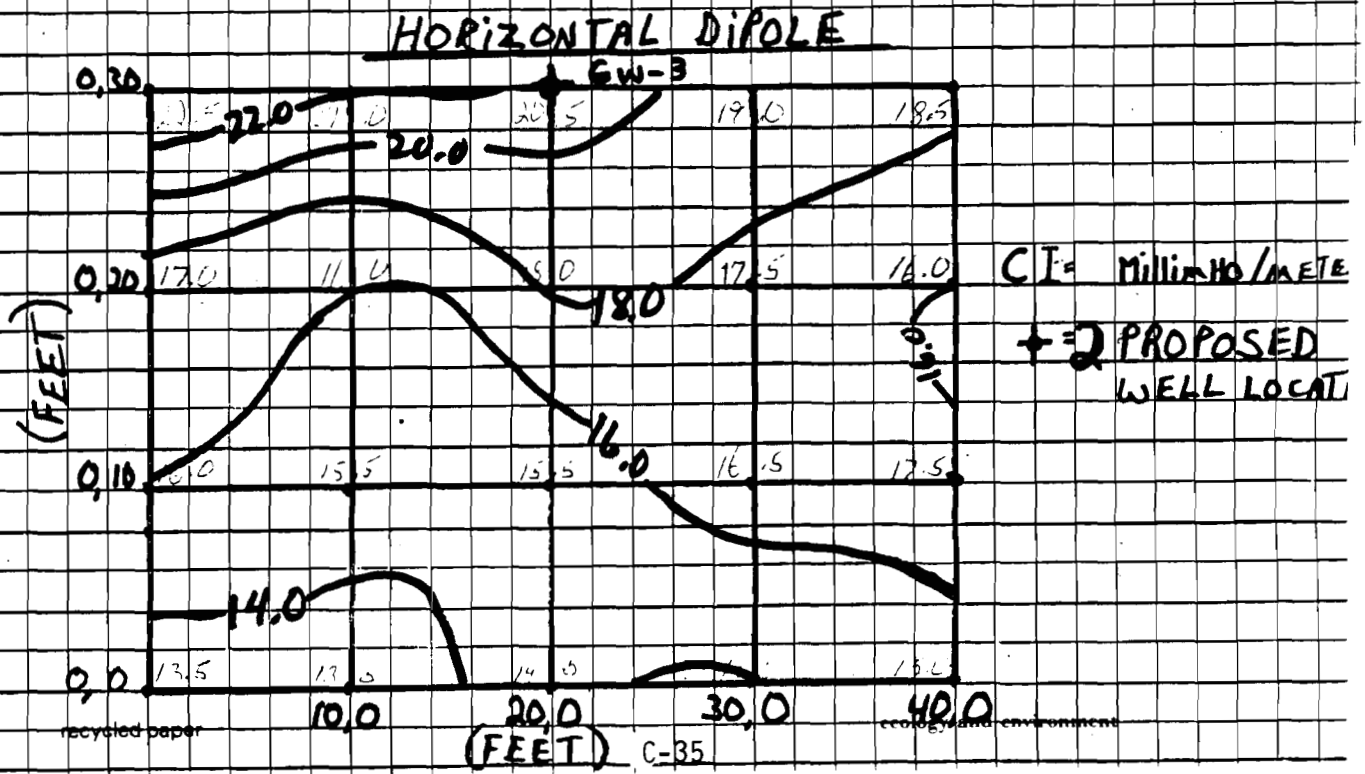
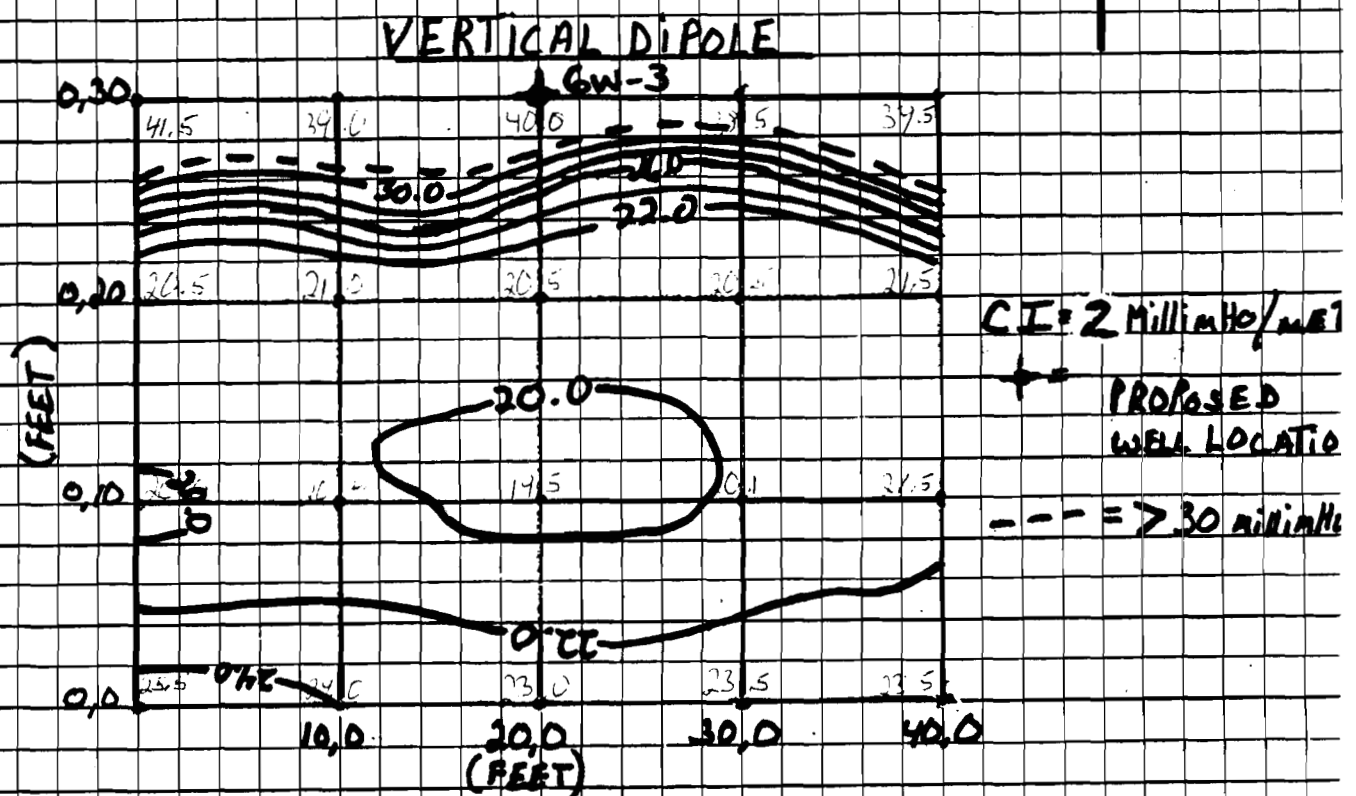
C.I = 2 milliHos

+ = PROPOSED WELL LOCAT

# GOLDEN ROAD SITE (SITE # 822021)

## EM31 SURVEY GRID # 3

N10W  
↑

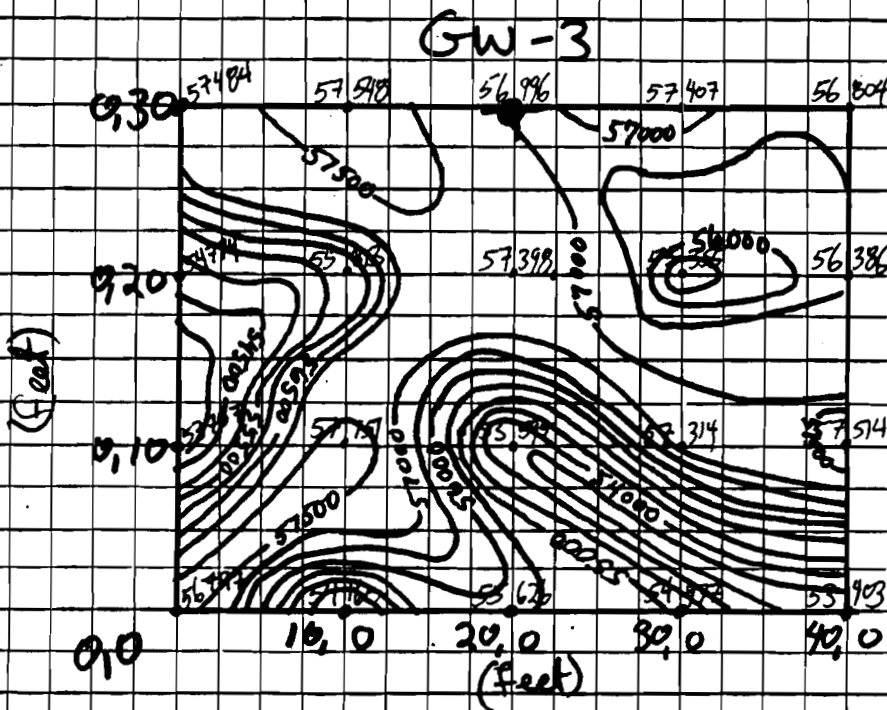


# GOLDEN ROAD SITE

Site number 828001

## MAGNETOMETER SURVEY

GRID # 3  
(gammas)



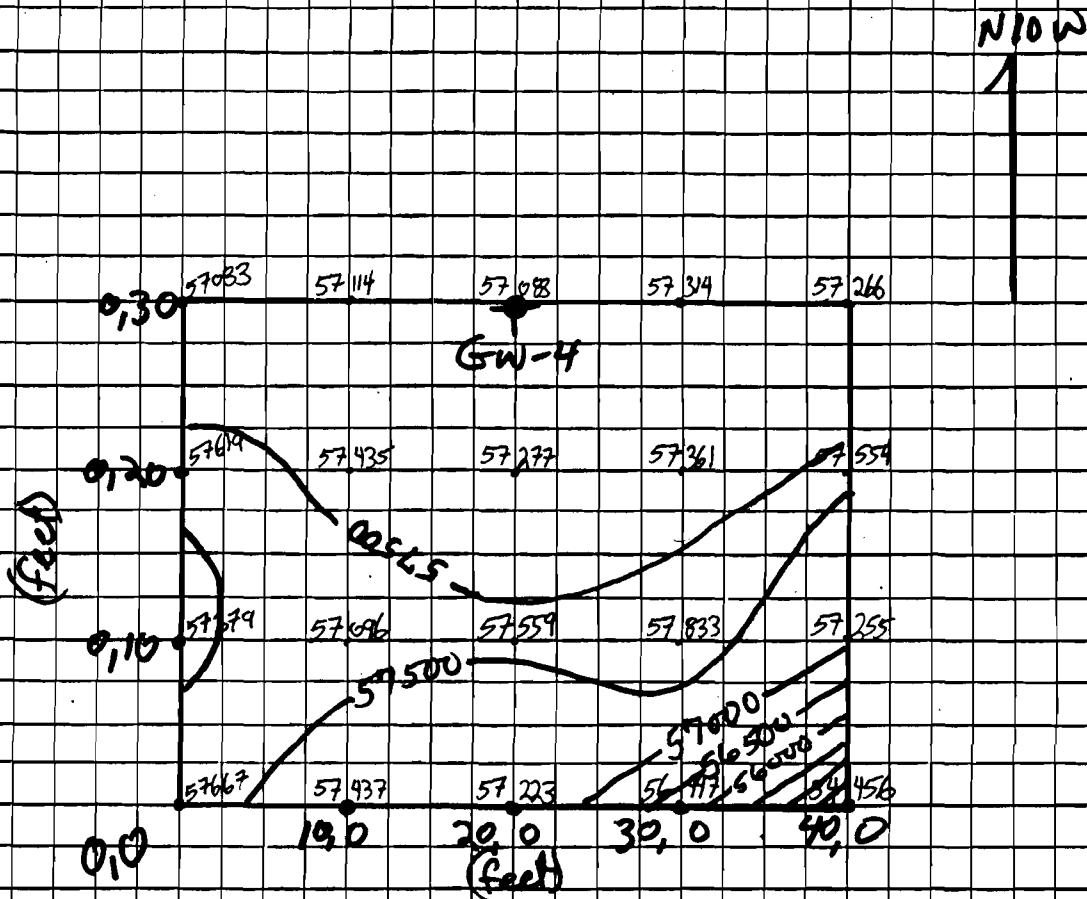
C.I = 500 gammas  
 ● = Proposed Well location

# GOLDEN ROAD SITE

Site Number 828021

## MAGNETOMETER SURVEY

GRID # 4  
(Gamma)

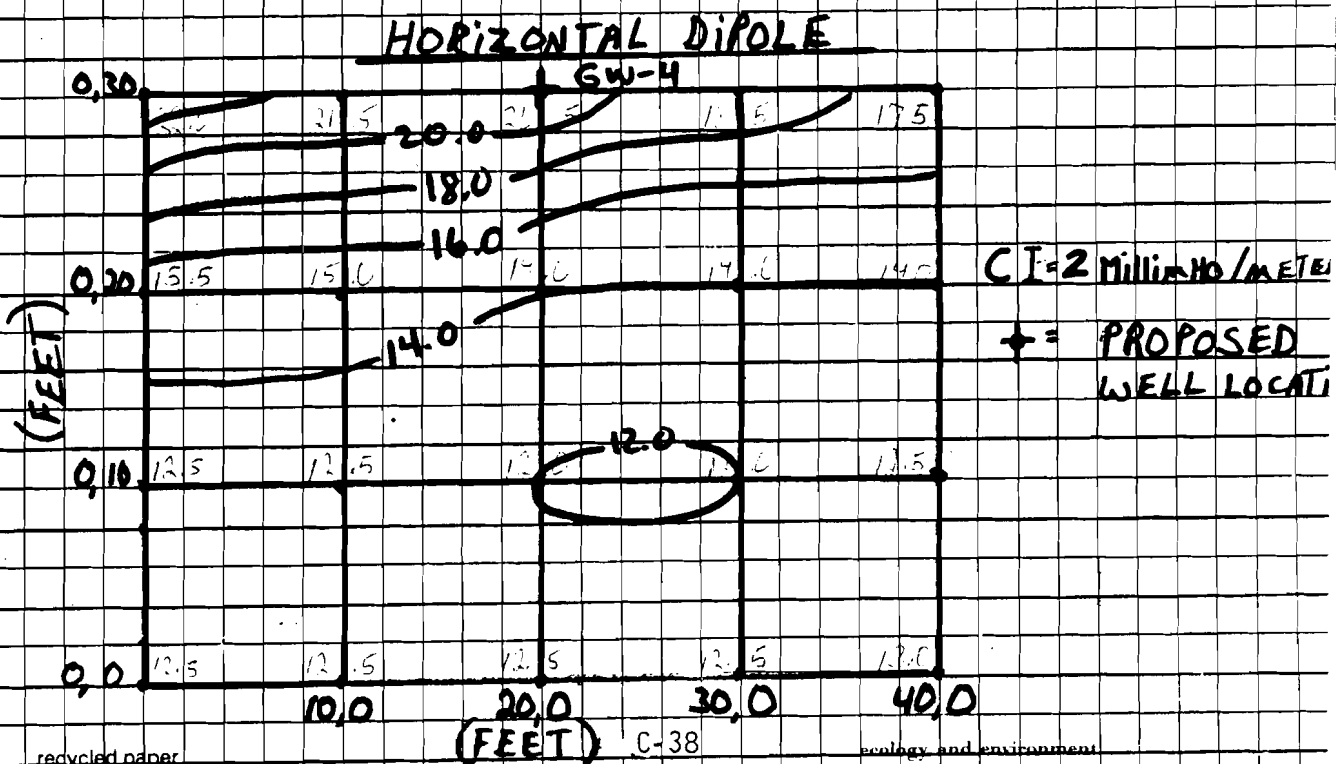
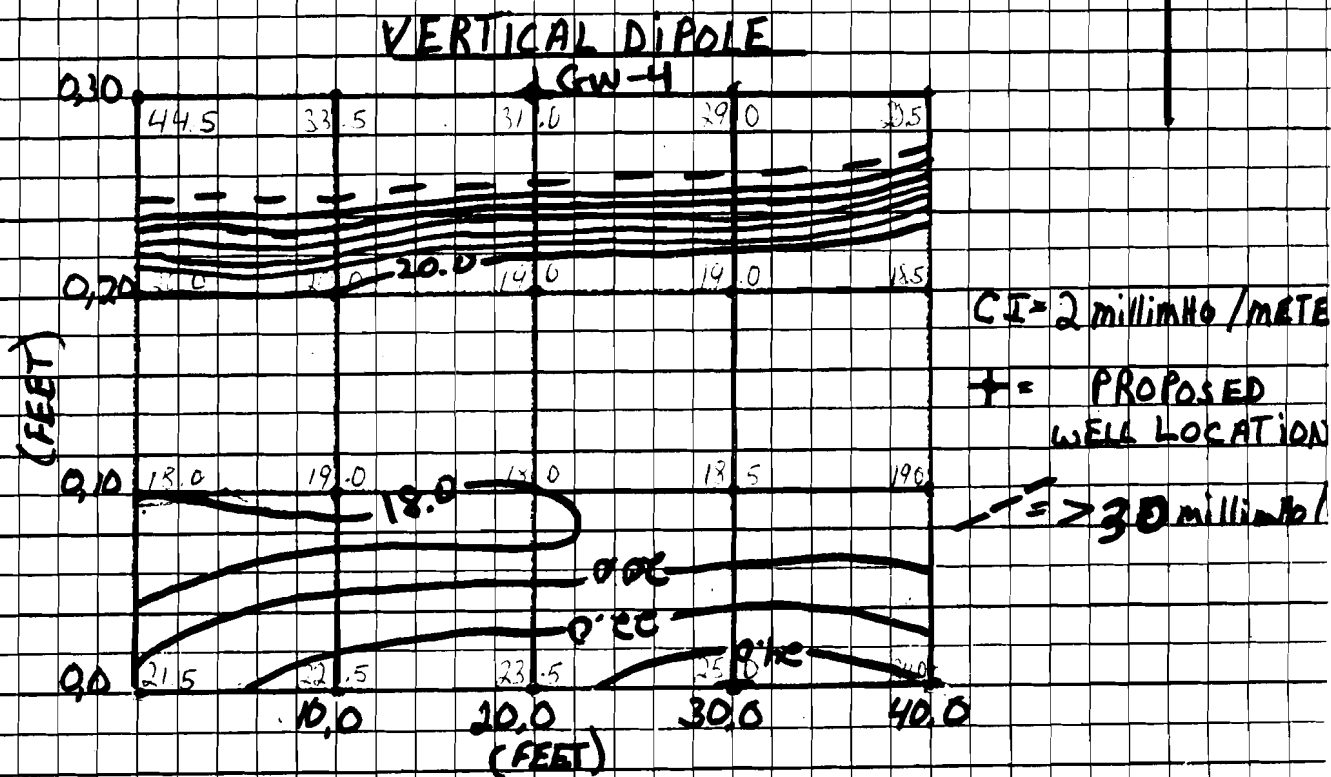


C.I. = 500 gamma  
 • = Proposed well location

# GOLDEN ROAD SITE (SITE # 828021)

## EM31 SURVEY GRID # 4

N10W



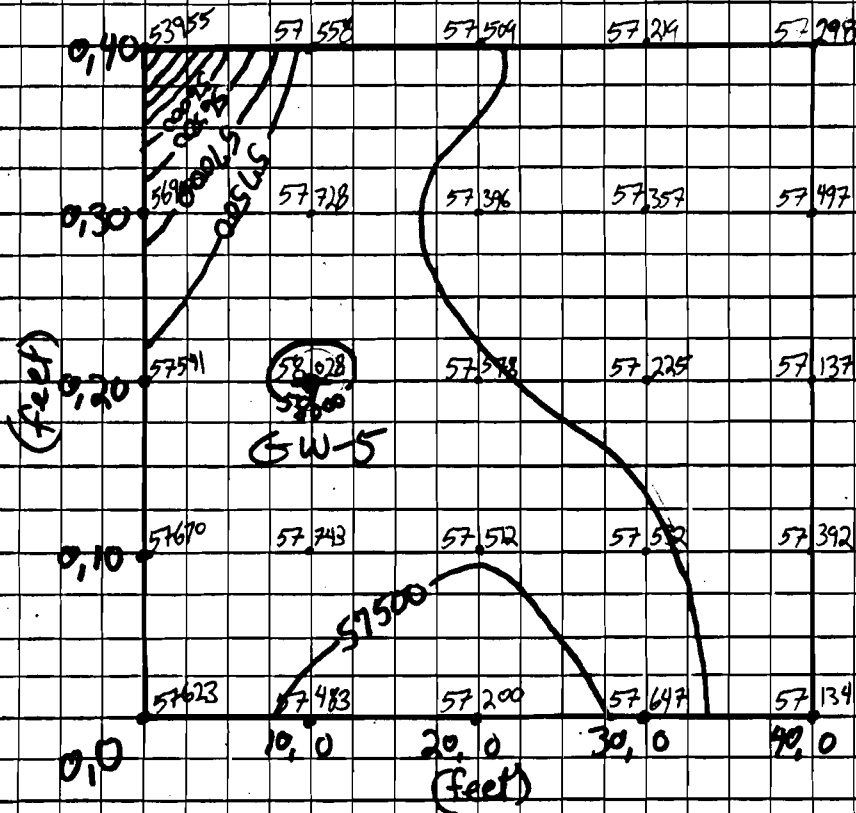
# GOLDEN ROAD SITE

Site Number 828021

## MAGNETOMETER SURVEY

GRID #S  
(gammas)

N10W

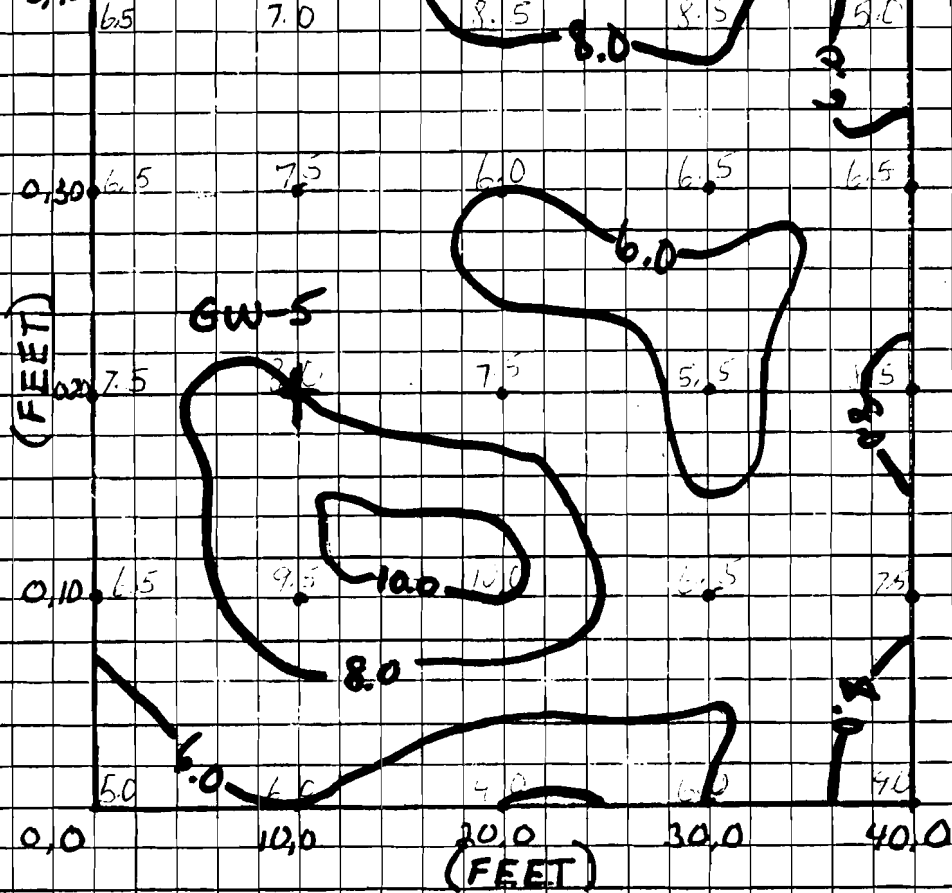


C.I. = 500 gammas

⊙ = Proposed well location

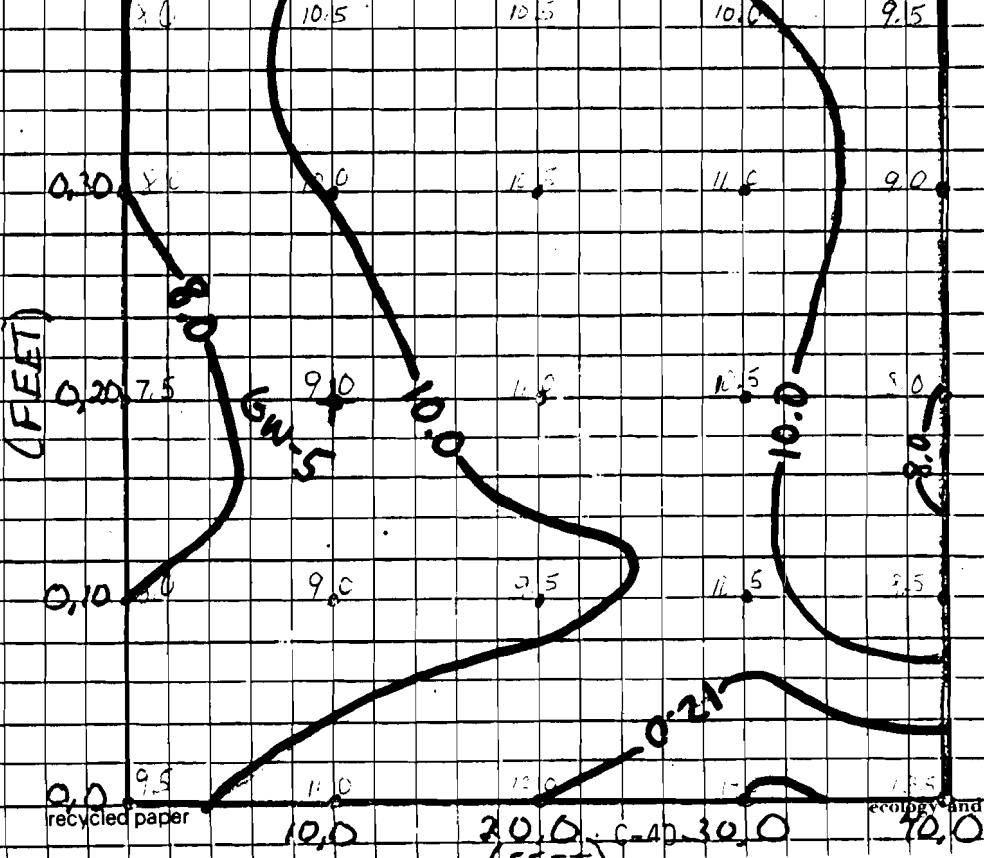
EM31 SURVEY GRID # 5

VERTICAL DIPOLE (milliHos/METER)



C.I. = 2 milliHos/ft  
 † = PROPOSED WELL LOCAT

HORIZONTAL DIPOLE (milliHos/METER)



C.I. = 2 milliHos/ft  
 † = PROPOSED WELL LOCAT

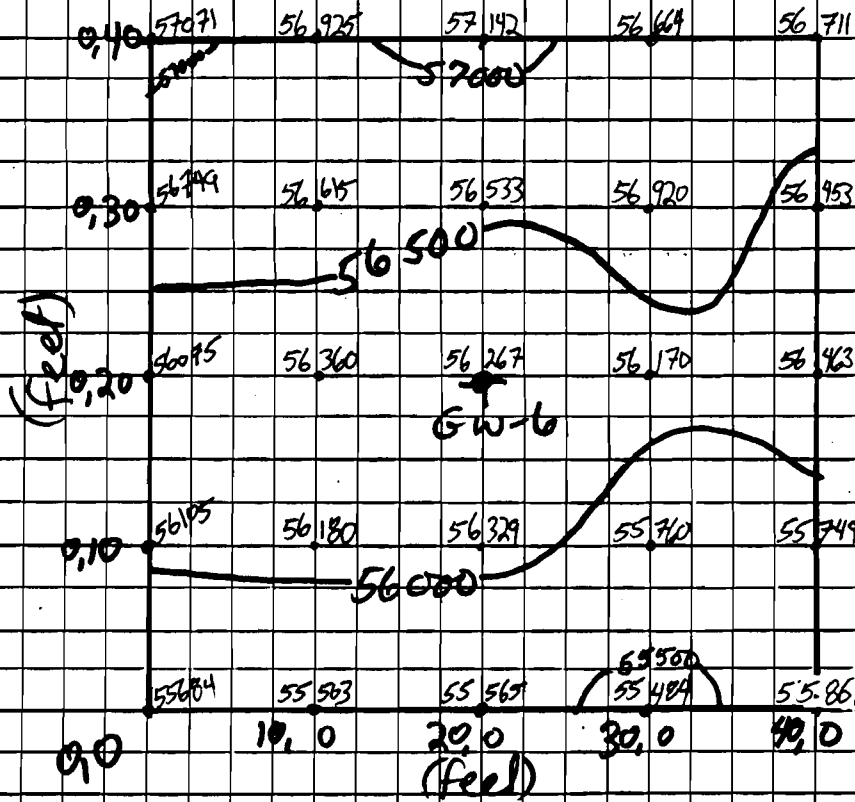
# GOLDEN ROAD SITE

Site Number 828021

## MAGNETOMETER SURVEY

GRID # 6  
(gammars)

N10W



C.I = 500 gammars  
 • = Proposed well location

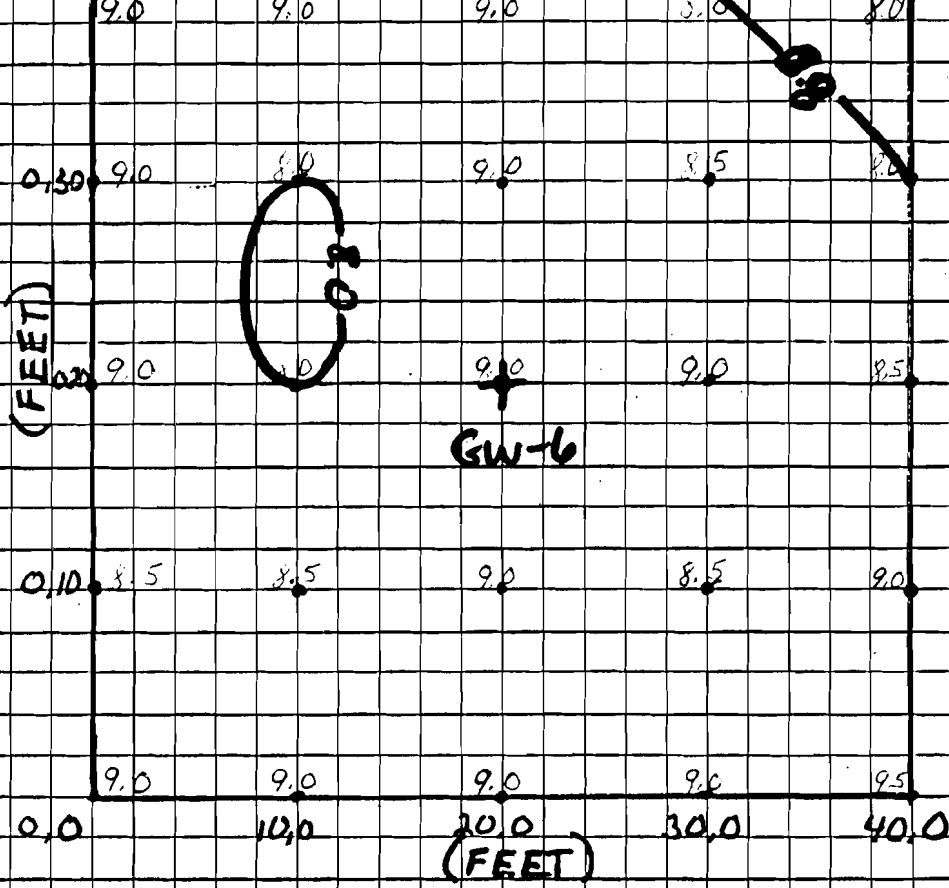


# GOLDEN ROAD SITE

(SITE # 828021)

## EM31 SURVEY GRID #6

### VERTICAL DIPOLE (milliMhos/METER)



N10W

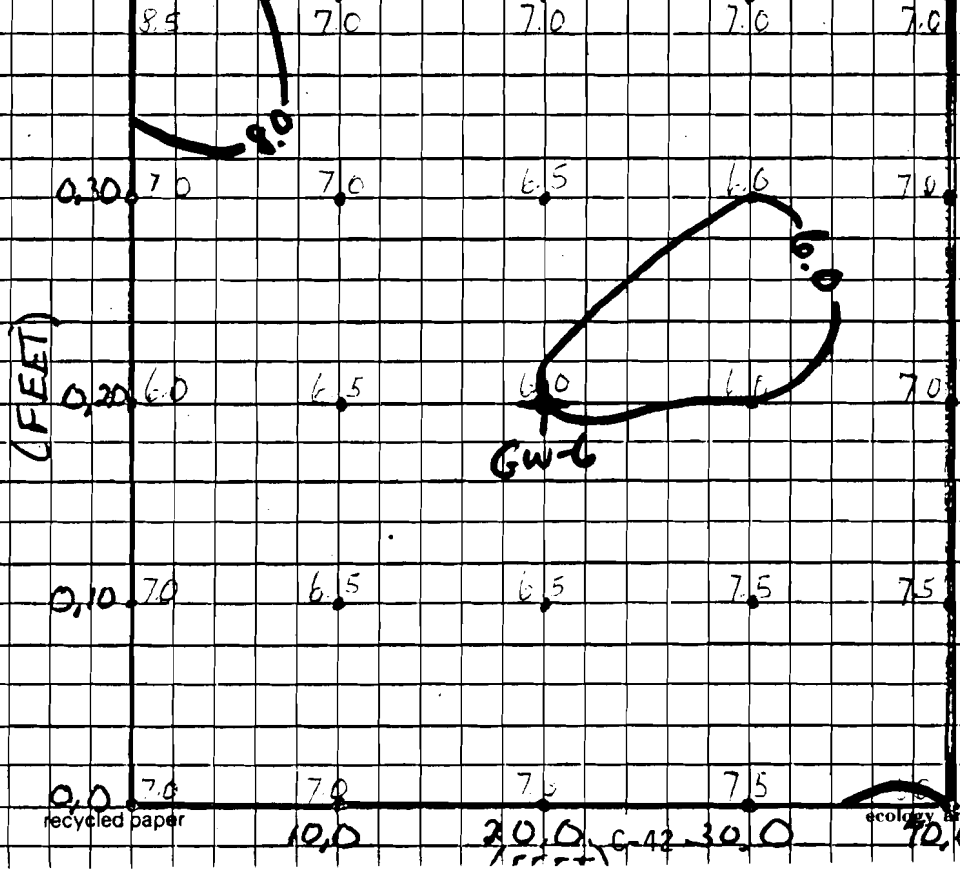


GW-6

C.I. = 2 milliMhos/

+ = PROPOSED WELL LOCATION

### HORIZONTAL DIPOLE (milliMhos/METER)



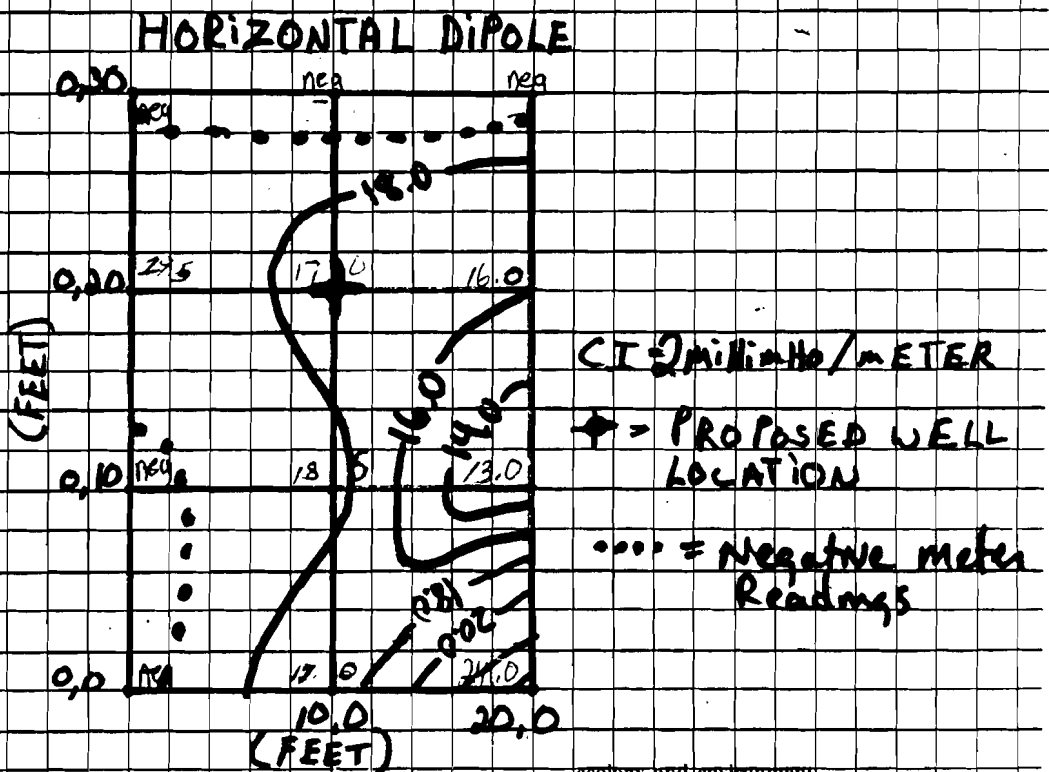
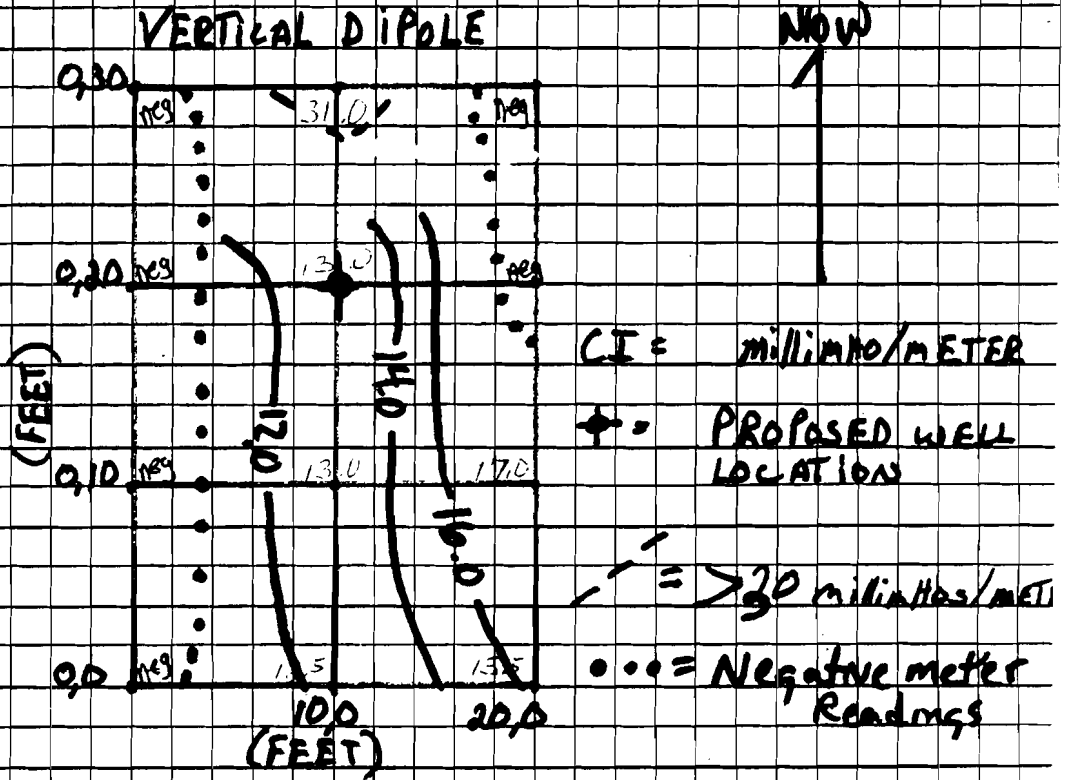
C.I. = 2 milliMhos

+ = PROPOSED WELL LOCATION



# GOLDEN ROAD SITE (SITE # 828021)

## EM-31 SURVEY GRID # 7





| DATE    | TIME | DRILLED FROM | DRILLED TO | WEATHER       | TEMP |
|---------|------|--------------|------------|---------------|------|
| 8/24/89 | 1550 | 0.0'         | 11.2'      | Partly cloudy | 75°  |
|         |      |              |            |               |      |
|         |      |              |            |               |      |



HOLE NO. GW-2  
GRD. ELEV. \_\_\_\_\_

**FIELD LOG**

PROJECT 828021 Golden Road Disposal Site  
LOCATION Chili, New York

Logged By: Jeff Danzinger  
Sheet 1 of 1

| DEPTH OF SAMPLE | SAMPLE NO | BLOWS ON SAMPLER |    |     |    |    | BLOWS ON CASING C | MOISTURE | COLOR | SAMPLE RECOVERY   | CLASSIFICATION OF MATERIALS DRILLED | OTHER HNU DATA readings (PPM) Time. |      | WELL DETAILS |
|-----------------|-----------|------------------|----|-----|----|----|-------------------|----------|-------|---|-------------------------------------|-------------------------------------|------|--------------|
|                 |           | 0                | 6  | 12  | 18 | 24 |                   |          |       |   |                                     | PPM                                 | Time |              |
| 1-3             |           | 2                | 4  | 9   | 15 |    | M                 |          | 12"   | Top 11" - dark brown silt.<br>Bottom 11" - red brown silty clay.  | 0.0                                 | 1550                                |      |              |
| 5-7             |           | 12               | 12 | 9   | 9  |    | M                 |          | 9"    | red brown sandy gravelly silt.  | 0.0                                 | 1600                                |      |              |
| 10-12           |           | 3                | 9  | 100 | 3" |    | S                 |          | 8"    | gray black gravel and weathered rock fragments.   | 0.0                                 | 1615                                |      |              |
|                 |           |                  |    |     |    |    |                   |          |       | 8/25/89<br>standing water at 3.0' below ground surface.<br>bedrock at 11.2'<br>depth of well at 11.0'<br>screen length - 5.0' |                                     | 6.0'                                |      |              |

NOTATION: SIZE AUGERS/CASING 4 1/2" I.D. SIZE SPOON 2" x 24" Sample  
SIZE THIN-WALLED TUBE \_\_\_\_\_ SIZE CORE \_\_\_\_\_

N : NO. OF BLOWS TO DRIVE 2 "SPOON 24" WITH 140 LB. WEIGHT FALLING 3' PER BLOW  
C : NO. OF BLOWS TO DRIVE "CASING" WITH \_\_\_\_\_ LB. WEIGHT FALLING \_\_\_\_\_ PER BLOW

**FILL OUT BACK OF LOG AND SIGN YOUR NAME**

Moisture U - dry  
recycled paper M - moist  
S - saturated

Drillers: Bob Jensen  
Ron Brown  
ecology and environment

| DATE    | TIME | DRILLED FROM | DRILLED TO | WEATHER | TEMP |
|---------|------|--------------|------------|---------|------|
| 11/9/97 | 9:27 |              |            |         | 35°  |
|         |      |              |            |         |      |
|         |      |              |            |         |      |



HOLE NO. Gw3  
GRD. ELEV. \_\_\_\_\_

**FIELD LOG**

PROJECT Golden Road Disposal Site  
LOCATION Chili, NY

Sheet 1 of 2

| DEPTH OF SAMPLE | SAMPLE NO | BLOWS ON SAMPLER |    |    |    |   | BLOWS ON CASING C | MOISTURE | COLOR | SAMPLE RECOVERY  | CLASSIFICATION OF MATERIALS DRILLED | OTHER DATA<br>H <sub>2</sub> O Readings<br>pH | WELL DETAILS      |
|-----------------|-----------|------------------|----|----|----|---|-------------------|----------|-------|--|-------------------------------------|---|-------------------|
|                 |           | 0                | 6  | 12 | 18 | N |                   |          |       |  |                                     |   |                   |
| 1-3             | 1         | 1                | 2  | 2  | 4  |   | M                 |          | 19    | perched water present around 3", Black silty sand w/organics | 0.0 os                              | grout   |                   |
| 3-5             | 2         | 4                | 3  | 3  | 4  |   | M                 |          | 16    | Reddish brown silty clay                                     | 0.0 os                              |   | Bentonite Pellets |
| 5-7             | 3         | 5                | 8  | 6  | 9  |   | M                 |          | 18    | Reddish brown sandy silt<br>water table at 7'                | 0.0 os<br>0.0 pH                    | sand →  |                   |
| 7-9             | 4         | 9                | 10 | 13 | 14 |   | S                 |          | 18    | Reddish brown sandy silt - trace clay                        | 0.0                                 |   | screen            |
| 9-11            | 5         | 4                | 4  | 4  | 5  |   | S                 |          | 3     | Reddish gray/brown silt - trace clay                         | 0.0 os<br>0.0 pH                    | screen  |                   |
| 11-13           | 6         | 3                | 3  | 3  | 3  |   | S                 |          | 20    | Reddish gray/brown silt trace clay                           | 0.0 os                              |   | screen            |
| 13-15           | 7         | W                | 2  | 2  | 2  |   | S                 |          | 15    | Reddish gray/brown silty clay                                | 0.0 os                              | screen  |                   |
| 15-17           | 8         | 1                | 3  | 3  | 6  |   | S                 |          | 0     | No Recovery  | 0.0 os                              |   | bedrock           |

TOR 8.5

NOTATION: SIZE AUGERS/CASING 4 1/2 ID SIZE SPOON 2" x 24"  
SIZE THIN-WALLED TUBE \_\_\_\_\_ SIZE CORE \_\_\_\_\_

N = NO. OF BLOWS TO DRIVE "SPOON" WITH LB. WEIGHT FALLING PER BLOW  
C = NO. OF BLOWS TO DRIVE "CASING" WITH LB. WEIGHT FALLING PER BLOW

FILL OUT BACK OF LOG AND SIGN YOUR NAME



| DATE    | TIME | DRILLED FROM | DRILLED TO | WEATHER | TEMP |
|---------|------|--------------|------------|---------|------|
| 11/9/91 | 2:35 |              |            |         | 35   |
|         |      |              |            |         |      |
|         |      |              |            |         |      |



HOLE NO. GW4  
GRD. ELEV. \_\_\_\_\_

**FIELD LOG**

PROJECT Golden Road Disposal Site  
LOCATION Chili NY Sheet 1 of 2

| DEPTH OF SAMPLE | SAMPLE NO | BLOWS ON SAMPLER |    |     |    |   | BLOWS ON CASING C | MOISTURE | COLOR | SAMPLE RECOVERY  | CLASSIFICATION OF MATERIALS DRILLED | OTHER DATA<br>H <sub>2</sub> O READINGS (ppm) | WELL DETAILS |
|-----------------|-----------|------------------|----|-----|----|---|-------------------|----------|-------|--|-------------------------------------|---|--------------|
|                 |           | 0                | 6  | 12  | 18 | N |                   |          |       |  |                                     |   |              |
| 1-3             | 1         | 1                | 2  | 2   | 2  |   | M                 | 3"       |       | Black organic material, light brown sandy silt   | 0.0 os                              | ↑<br>grout<br>↓                               |              |
| 5-7             | 2         | 5                | 9  | 10  | 10 |   | M                 | 15'      |       | Reddish Brown sandy silt   | 0.0 os<br>DH 0.0                    |   |              |
| 10-12           | 3         | 1                | 2  | 2   | 3  |   | S                 | 15'      |       | water noted exiting the borehole at approx. 8'<br>reddish brown silt<br>trace sand water at 8' | 0.0 os                              | Bentone<br>Pellets                            |              |
| 12-14           | 4         | 3                | 3  | 4   | 4  |   | S                 | 22'      |       | Reddish gray silt<br>trace clay  | 0.0 os                              | ↑<br>sand<br>↓<br>Screen                      |              |
| 14-16           | 5         | W                | 2  | 2   | 2  |   | S                 | 15'      |       | Grayish fine silt<br>trace gravel  | 0.0 os                              |   |              |
| 16-18           | 6         |                  |    |     |    |   | S                 | 8"       |       | Grayish Fine silt<br>trace gravel  | 0.0 os                              | ↑<br>Bedrock<br>↓                             |              |
| 18-20           | 7         |                  |    |     |    |   | S                 | 15'      |       | Reddish gray fine silt<br>trace sand & gravel  | 0.0 os                              |   |              |
| 20-22           | 8         | 11               | 16 | 100 | -  |   | S                 | 3"       |       | Fine gray silt / Trace sand - Fractured Rock bottom 1"<br>Top of Rock 21.1 Well Depth 21.1     | 0.0 os<br>0.0 DH                    |   |              |

NOTATION: SIZE AUGERS / CASING \_\_\_\_\_ SIZE SPOON \_\_\_\_\_  
SIZE THIN-WALLED TUBE \_\_\_\_\_ SIZE CORE \_\_\_\_\_

N = NO. OF BLOWS TO DRIVE "SPOON" "WITH" 10 LB. WEIGHT FALLING PER BLOW  
C = NO. OF BLOWS TO DRIVE "CASING" "WITH" 10 LB. WEIGHT FALLING PER BLOW

FILL OUT BACK OF LOG AND SIGN YOUR NAME

W = weight of recycled padlock hammer  
M = moist recycled paper  
S = Saturated

ppm = parts per million  
DH = Down Hole  
os = On Sample

Prepared by Joe Jansen  
Checked by DAVE Broach  
ecology and environment



|                  |      |              |            |         |      |   |                      |
|------------------|------|--------------|------------|---------|------|---|----------------------|
| DATE             | TIME | DRILLED FROM | DRILLED TO | WEATHER | TEMP | <b>EMPIRE</b><br>SOILS INVESTIGATIONS INC | HOLE NO. <u>GW-5</u> |
| 8/24/89          | 0930 | 00'          | 25.4'      | cloudy  | 70's |   | GRD. ELEV. _____     |
| <b>FIELD LOG</b> |      |              |            |         |      |   |                      |

PROJECT 828021 Golden Road Disposal Site Logged By: Jeff Danziger  
 LOCATION Chili, New York Sheet 1 of 2


| DEPTH OF SAMPLE | SAMPLE NO | BLOWS ON SAMPLER |      |       |       | BLOWS ON CASING C | MOISTURE | COLOR | SAMPLE RECOVERY   | CLASSIFICATION OF MATERIALS DRILLED | OTHER HNU DATA readings (ppm) |   | WELL DETAILS |
|-----------------|-----------|------------------|------|-------|-------|-------------------|----------|-------|---|-------------------------------------|-------------------------------|---|--------------|
|                 |           | 0/6              | 6/12 | 12/18 | 18/24 |                   |          |       |   |                                     | Time.                         |   |              |
| 1'-3'           |           | 4                | 0    | 11    | 13    |                   | D        | 17"   | Black Fill (Foundry sand).  | 0.0                                 | 0931                          | ↑<br>Portland and Bentonite Cement<br>↓ |              |
| 3'-5'           |           | 4                | 4    | 7     | 8     |                   | D        | 8"    | Black Fill (Foundry Sand).  | 0.0                                 | 0938                          |   |              |
| 5'-7'           |           |                  |      |       |       |                   |          |       | Hit water ~ 10.0'   |                                     |                               |   |              |
| 7'-10'          |           | 26/10"           | 1A1  | 21    | 20    |                   | S        | 0"    | no recovery.  | 0.0                                 | 0950                          | ↑<br>Bentonite Pellets<br>↓             |              |
| 10'-12'         |           |                  |      |       |       |                   |          |       |   |                                     |                               |   |              |
| 12'-14'         |           | 10               | 13   | 10    | 6     |                   | S        | 1"    | black sandy wood Fill.  | 0.0                                 | 0955                          | ↑<br>Sand<br>Screen<br>↓                |              |
| 14'-16'         |           | 6                | 3    | 2     | 2     |                   | S        | 0"    | no recovery.<br>black wood Fill. (Float).   | 0.0                                 | 1010                          |   |              |
| 16'-18'         |           | 2                | 3    | 3     | 3     |                   | S        | 0"    | no recovery.<br>brown wood Fill (Float).<br>Outside of spoon covered with red brown clay. | 0.0                                 | 1015 <sup>25</sup>            | ↑<br>Bedrock<br>↓                       |              |
| 18'-20'         |           | 3                | 3    | 4     | 5     |                   | S        | 0"    | no recovery.<br>Outside of spoon covered with red brown clay.                             | 0.0                                 | 1022                          |   |              |
| 20'-22'         |           | 2                | 2    | 3     | 3     |                   | S        | 24"   | Top 10"- red brown clay.<br>Bottom 14"- gray silty clay.<br>- trace sand and gravel.      | 0.0                                 | 1029                          |   |              |

NOTATION: SIZE AUGERS/CASING 4 1/2" I.D. SIZE SPOON 2"x24" Sample  
 SIZE THIN-WALLED TUBE \_\_\_\_\_ SIZE CORE \_\_\_\_\_

N = NO. OF BLOWS TO DRIVE 2 "SPOON 24" WITH 140 LB. WEIGHT FALLING 3' PER BLOW  
 C = NO. OF BLOWS TO DRIVE "CASING" WITH 140 LB. WEIGHT FALLING \_\_\_\_\_ PER BLOW

FILL OUT BACK OF LOG AND SIGN YOUR NAME

Moisture D = dry  
 recycled paper M = moist  
S = saturated

| DATE    | TIME | DRILLED FROM | DRILLED TO | WEATHER | TEMP |  | HOLE NO. <u>GW-5</u> |
|---------|------|--------------|------------|---------|------|---|----------------------|
| 8/24/89 |      |              |            |         |      |   | GRD. ELEV. _____     |
|         |      |              |            |         |      |   |                      |
|         |      |              |            |         |      |   |                      |

**FIELD LOG**

PROJECT 828021 Golden Road Disposal Site. Logged By: Jeff Tazinger  
 LOCATION Chili, New York. Sheet 2 of 2

| DEPTH OF SAMPLE | SAMPLE NO | BLOWS ON SAMPLER |      |       |       |      | BLOWS ON CASING C | MOISTURE | COLOR | SAMPLE RECOVERY  | CLASSIFICATION OF MATERIALS DRILLED | OTHER HNU DATA readings (ppm) |                      | WELL DETAILS |
|-----------------|-----------|------------------|------|-------|-------|------|-------------------|----------|-------|--|-------------------------------------|-------------------------------|----------------------|--------------|
|                 |           | 0/6              | 6/12 | 12/18 | 18/24 | N/24 |                   |          |       |  |                                     | Time.                         |                      |              |
| 22'-24'         | 1A1       | 11               | 13   | 65    |       |      | S                 |          | 20"   | light grayish brown silty clay.<br>- trace sand and gravel.<br>Bottom 2" - weathered rock fragments. | 0.0                                 | 1035                          | 1A1 - wt. of hammer. |              |
| 24'-26'         |           | 25               | 65   | 100/- |       |      | S                 |          | 12"   | weathered rock and silt.<br><br>bedrock at 25.4'<br>depth of well at 24.5'<br>screen length - 10.0'  | 0.0                                 | 1114                          |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |
|                 |           |                  |      |       |       |      |                   |          |       |  |                                     |                               |                      |              |

NOTATION: SIZE AUGERS / CASING 4 1/2" I.D. SIZE SPOON 2" x 24" sample  
 SIZE THIN-WALLED TUBE \_\_\_\_\_ SIZE CORE \_\_\_\_\_

N = NO. OF BLOWS TO DRIVE 2 "SPOON" WITH NO LB. WEIGHT FALLING 3' PER BLOW  
 C = NO. OF BLOWS TO DRIVE "CASING" WITH    LB. WEIGHT FALLING    PER BLOW

**FILL OUT BACK OF LOG AND SIGN YOUR NAME**

| DATE             | TIME | DRILLED FROM | DRILLED TO | WEATHER       | TEMP | <b>EMPIRE</b><br><b>SOILS INVESTIGATIONS INC</b> | HOLE NO. <u>GW-6</u> |
|------------------|------|--------------|------------|---------------|------|--|----------------------|
| 8/22/89          | 1425 | 0.0'         | 16.6'      | Partly Cloudy | 80°  |  | GRD. ELEV. _____     |
| <b>FIELD LOG</b> |      |              |            |               |      |  |                      |

PROJECT 828021 Golden Road Disposal Site Logged By: Jeff Danziger  
LOCATION Chili, New York Sheet 1 of 1

| DEPTH OF SAMPLE | SAMPLE NO | BLOWS ON SAMPLER |   |    |    |    | BLOWS ON CASING C | MOISTURE | COLOR  | SAMPLE RECOVERY      | CLASSIFICATION OF MATERIALS DRILLED | OTHER HNU DATA readings (ppm) Time. |  | WELL DETAILS |
|-----------------|-----------|------------------|---|----|----|----|-------------------|----------|--|----------------------|-------------------------------------|-------------------------------------|--|--------------|
|                 |           | 0                | 6 | 12 | 18 | 24 |                   |          |  |                      |                                     |                                     |  |              |
| 1'-3'           |           |                  |   |    |    |    |                   | D        | 16"  | Copper colored sand. | 0.0                                 | 1425                                |  |              |
| 5'-7'           |           |                  |   |    |    |    | M                 | 17"      | Top 7" - copper brown colored silty sand.<br>Bottom 10" - red brown clay.  | 0.0                  | 1430                                |                                     |  |              |
| 10'-12'         |           |                  |   |    |    |    | M                 | 20"      | red brown clay.<br>- trace pebble.<br><br>Hit water ~ 14.5'  | 0.0                  | 1440                                |                                     |  |              |
| 15'-17'         |           |                  |   |    |    |    | S                 | 8"       | Top 3" - red brown silty clay.<br>Middle 2" - tan sandy silt.<br>Bottom 3" - gray weathered bedrock.<br><br>Bedrock at 16.6'<br>Depth of well at 16.6'<br>Screen length - 7.0' | 0.0                  | 1445                                |                                     |  |              |

NOTATION: SIZE AUGERS / CASING 4 1/2" I.D. SIZE SPOON 2" x 24" Sample  
SIZE THIN-WALLED TUBE \_\_\_\_\_ SIZE CORE \_\_\_\_\_


N = NO. OF BLOWS TO DRIVE 2 "SPOON 24" WITH NO LB. WEIGHT FALLING 3' PER BLOW  
C = NO. OF BLOWS TO DRIVE "CASING" WITH \_\_\_\_\_ LB. WEIGHT FALLING \_\_\_\_\_ PER BLOW

**FILL OUT BACK OF LOG AND SIGN YOUR NAME**

Moisture dry  
M - moist  
S - saturated  
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D-9

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Ron Brown

| DATE    | TIME | DRILLED FROM | DRILLED TO | WEATHER | TEMP |  | HOLE NO. <u>GW-7</u> |
|---------|------|--------------|------------|---------|------|---|----------------------|
| 8/23/89 | 0930 | 0.0'         | 17.4'      | cloudy  | 75°  |   | GRD. ELEV. _____     |

**FIELD LOG**

PROJECT B2B021 Golden Road Disposal Site Logged By: Jeff Zaninger  
 LOCATION Chili, New York Sheet 1 of 1

| DEPTH OF SAMPLE | SAMPLE NO | BLOWS ON SAMPLER |      |       |       |       | BLOWS ON CASING C | MOISTURE | COLOR | SAMPLE RECOVERY  | CLASSIFICATION OF MATERIALS DRILLED | OTHER HNU DATA readings (ppm) Time |  | WELL DETAILS |
|-----------------|-----------|------------------|------|-------|-------|-------|-------------------|----------|-------|--|-------------------------------------|------------------------------------|--|--------------|
|                 |           | 0-6              | 6-12 | 12-18 | 18-24 | 24-30 |                   |          |       |  |                                     |                                    |  |              |
| 1'-3'           |           | 5                | 7    | 8     | 9     |       | M                 |          | 18"   | brown and black fill.<br>- Foundry sand.   | 0.0                                 | 0930                               | ↑<br>Portland and Bentonite Cement<br>↓  |              |
|                 |           |                  |      |       |       |       |                   |          |       |  | Down Hole 5' - 0.0                  |                                    |  |              |
| 5'-7'           |           | 5                | 8    | 9     | 8     |       | M                 |          | 14"   | light reddish yellow brown silty sand.<br>Bottom 1' - red brown sandy silt - trace clay.   | 0.0                                 | 0935                               | ↓<br>Bentonite Pellets<br>↑<br>Screen<br>↓<br>Sand<br>↑<br>Screen<br>↓<br>Sand |              |
|                 |           |                  |      |       |       |       |                   |          |       |  | Down Hole 10' - 0.0                 |                                    |  |              |
| 10'-12'         |           | 5                | 5    | 5     | 6     |       | M                 |          | 23"   | red brown clay with gray streaks. - trace pebble.<br>- occasional thin sandy silt layer.   | 0.0                                 | 0945                               |  |              |
| 12'-14'         |           | 100%<br>/.1"     |      |       |       |       | M                 |          | 0"    | no recovery.<br><br>Hit water ~ 15.0'  | 0.0                                 | 0950                               |  |              |
| 15'-17'         |           | 9                | 10   | 10    | 15    |       | S                 |          | 19"   | light brown silty gravelly sand. - some rock fragments   | 0.0                                 | 0957                               |  |              |
| 17'-19'         |           | 100%<br>/.4"     |      | -     | -     |       | S                 |          | 5"    | black and brown sandy gravel and rock fragments.<br>Full TCL taken<br>- 2 40ml. (VOA)<br>- 1 8oz. (TCL)<br>- called GW7-17-19'<br><br>Bedrock at 17.4'<br>Depth of well at 17.2'<br>Screen length - 7.0' | 0.0                                 | 1005                               | ↑<br>Bedrock<br>↓  |              |

NOTATION: SIZE AUGERS / CASING 4 1/2" I.D. SIZE SPOON 2" x 24" Sample  
 SIZE THIN-WALLED TUBE \_\_\_\_\_ SIZE CORE \_\_\_\_\_

N = NO. OF BLOWS TO DRIVE 2 "SPOON 24" WITH NO LB. WEIGHT FALLING 3' PER BLOW  
 C = NO. OF BLOWS TO DRIVE "CASING" WITH 10 LB. WEIGHT FALLING PER BLOW

**FILL OUT BACK OF LOG AND SIGN YOUR NAME**

Moisture: D - dry  
M - moist  
S - saturated  
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D-10

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**APPENDIX D**

**DRILLING LOGS FOR GROUNDWATER MONITORING WELLS**

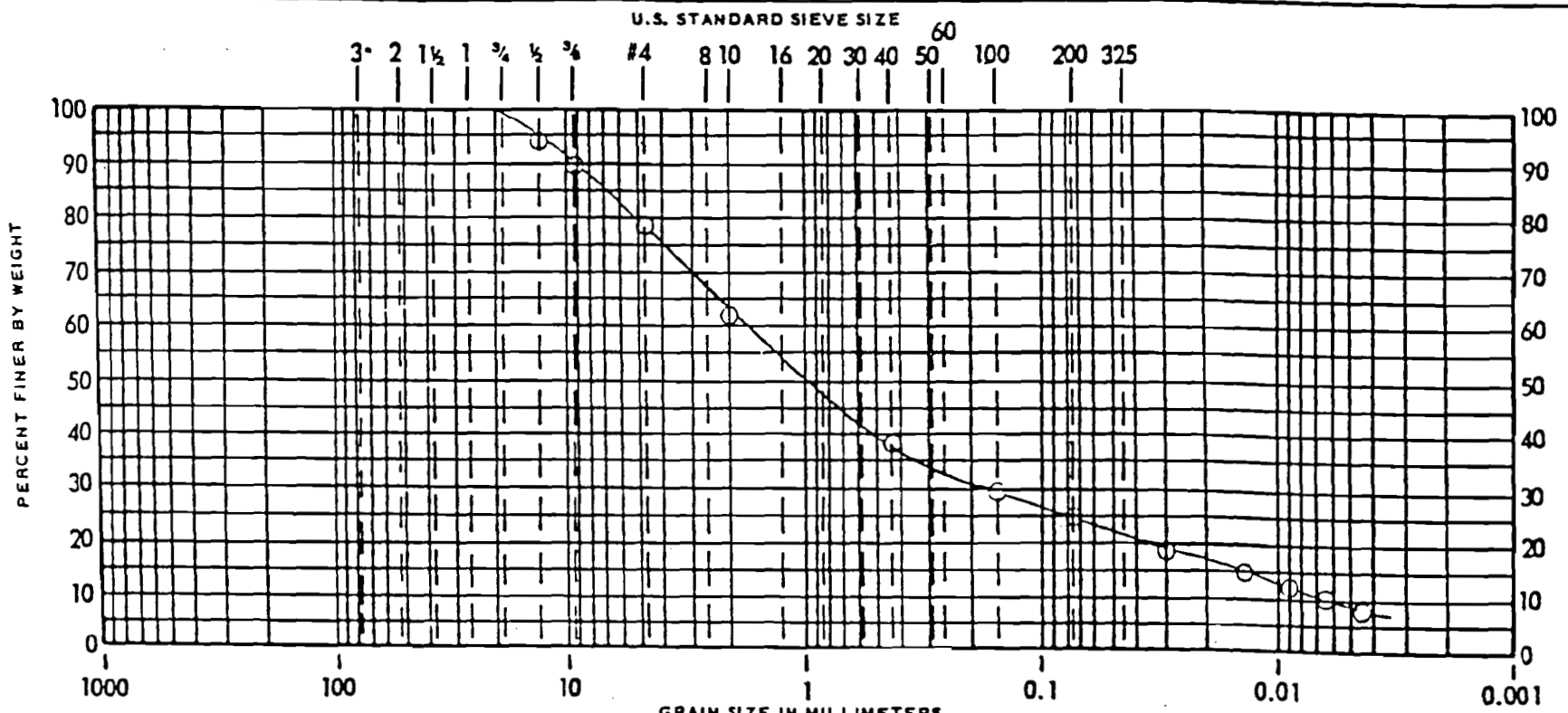
**APPENDIX E**  
**GEOTECHNICAL ANALYSES**



# SOIL CLASSIFICATION SHEET

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E-3



|         |        |      |        |        |      |      |
|---------|--------|------|--------|--------|------|------|
| COBBLES | GRAVEL | SAND |        |        | SILT | CLAY |
|         | COARSE | FINE | COARSE | MEDIUM | FINE |      |

**PROJECT** GOLDEN ROAD  
**YOUR PROJECT NO.:** YN-4060  
**BORING NO.**  
**SAMPLE NO.** GW-1  
**DEPTH** 1' - 3'  
**CLASSIFICATION**

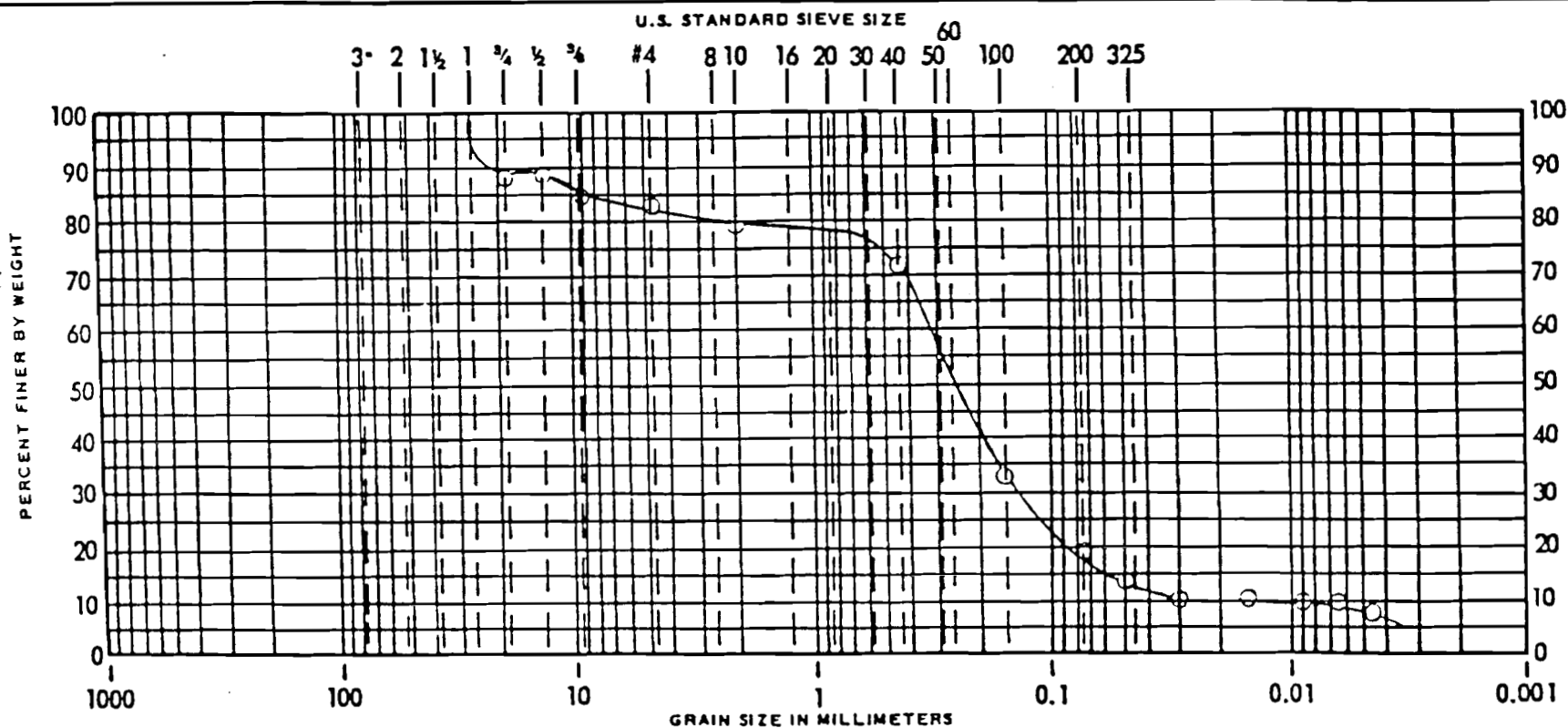
**NATURAL & MOISTURE**  
**LIQUID LIMIT**  
**PLASTIC LIMIT**  
**PLASTICITY INDEX**  
**COLOR**  
**REMARKS** 2 of 4

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# SOIL CLASSIFICATION SHEET



|         |        |      |        |        |      |      |      |
|---------|--------|------|--------|--------|------|------|------|
| COBBLES | GRAVEL |      | SAND   |        |      | SILT | CLAY |
|         | COARSE | FINE | COARSE | MEDIUM | FINE |      |      |

PROJECT **GOLDEN ROAD**  
 YOUR PROJECT NO.: **YN-4060**  
 BORING NO.  
 SAMPLE NO. **GW-5**  
 DEPTH **5' - 7'**  
 CLASSIFICATION

NATURAL % MOISTURE  
 LIQUID LIMIT  
 PLASTIC LIMIT  
 PLASTICITY INDEX  
 COLOR **Grey-black**  
 REMARKS **3 of 4**

Toledo Testing Laboratory, Inc.

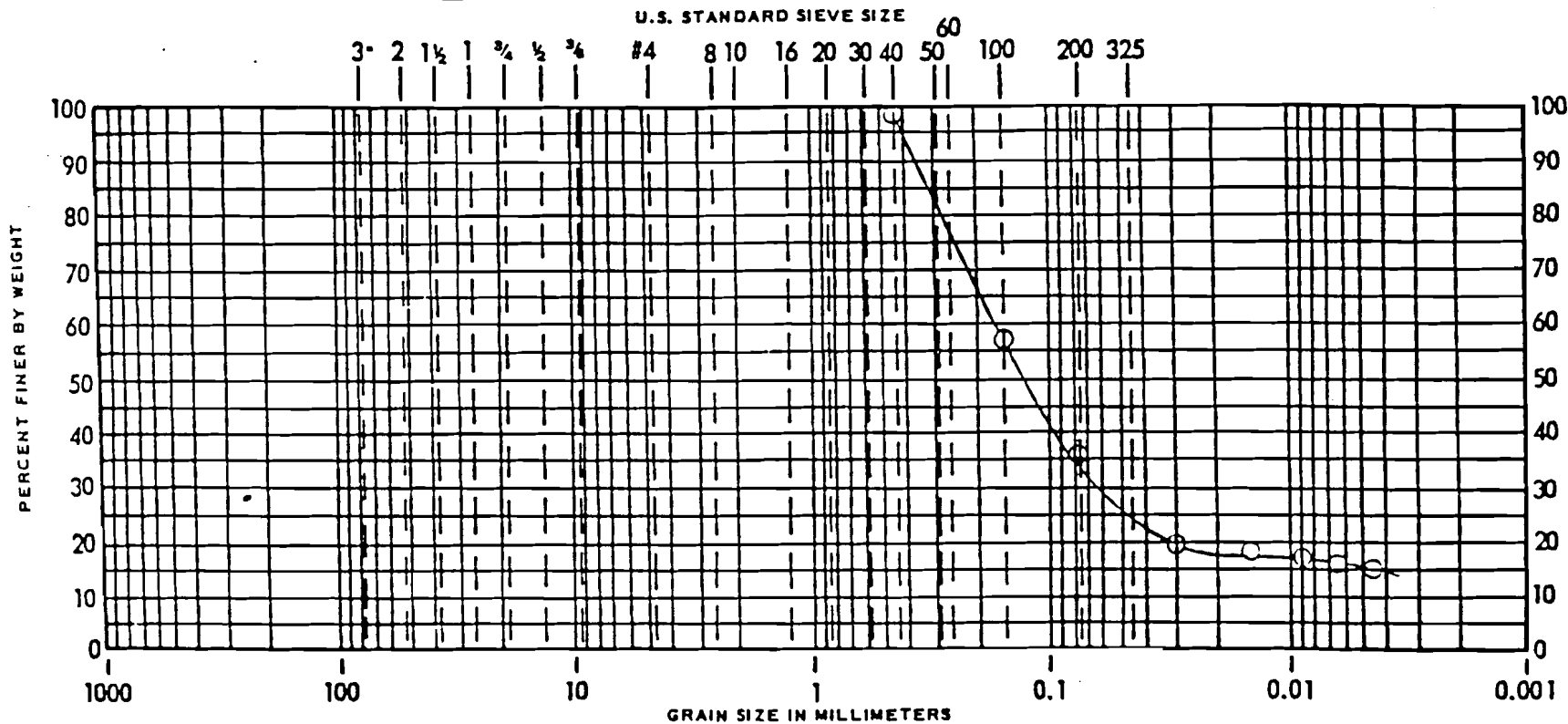
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E-4

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Figure 18

# SOIL CLASSIFICATION SHEET



|         |        |      |        |        |      |      |      |
|---------|--------|------|--------|--------|------|------|------|
| COBBLES | GRAVEL |      | SAND   |        |      | SILT | CLAY |
|         | COARSE | FINE | COARSE | MEDIUM | FINE |      |      |

**PROJECT** GOLDEN ROAD  
**YOUR PROJECT NO.:** YN-4060  
**BORING NO.**  
**SAMPLE NO.** GW-6  
**DEPTH** 1' - 3'  
**CLASSIFICATION**

**NATURAL % MOISTURE**  
**LIQUID LIMIT**  
**PLASTIC LIMIT**  
**PLASTICITY INDEX**  
**COLOR**  
**REMARKS** 4 of 4

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E-5

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Figure 19

**APPENDIX F**

**RAW ANALYTICAL DATA SUMMARIES**

## QUALIFIER CODE LEGEND

### ORGANIC ANALYSES

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(330 \text{ U})}{D} \times \text{df} \quad \text{where } D = \frac{100 - \% \text{ moisture}}{100}$$

and df = dilution factor

$$\text{at } 24\% \text{ moisture, } D = \frac{100 - 24}{100} = 0.76$$

$$\frac{(330 \text{ U})}{.76} \times 10 = 4,300 \text{ U rounded to the appropriate number of significant figures}$$

For soil samples subjected to GPC cleanup procedures, the CRQL is also multiplied by 2 to account for the fact that only half of the extract is recovered.

- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data TIC indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 µg/L, but a concentration of 3 µg/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for both dilution and percent moisture as discussed for the U flag, so that if a sample with 24% moisture and a 1 to 10 dilution factor has a calculated concentration of 300 µg/L and a sample quantitation limit of 430 µg/kg, report the concentration as 300J on Form I.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides  $\geq 10$  ng/µl in the final extract shall be confirmed by GC/MS.

- B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Form I's. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted samples, and all concentration values reported on that Form I are flagged with the "D" flag.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the Case Narrative. If more than one is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags as needed. For instance, the "X" flag might combine the "A," "B," and "D" flags for some sample.

#### INORGANIC ANALYSES

- C - Concentration qualifier: Enter "B" if the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" must be entered.
- Q - Q qualifier: Specified entries and their meanings are as follows:
  - E - The reported value is estimated because of the presence of interference. An explanatory note must be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).

- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance (see Exhibit E).
- \* - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

Entering "S," "W," or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

M - Method qualifier: Enter:

- P - for ICP;
- A - for Flame AA;
- F - for Furnace AA;
- CV - for Manual Cold Vapor AA;
- AV - for Automated Cold Vapor AA;
- AS - for Semi-Automated Spectrophotometric;
- C - for Manual Spectrophotometric;
- T - for Titrimetric; and
- NR - if the analyte is not required to be analyzed.

# SURFACE SOIL

## DATA SUMMARY FORM: VOLATILES 1

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 872-001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No. | Dilution Factor          | % Moisture | Location | S1   | S2   | S3   | S4   | S5  | S6  | S7   | S8  | S9  |
|------------|--------------------------|------------|----------|------|------|------|------|-----|-----|------|-----|-----|
|            |                          |            |          | 1.0  | 1.0  | 1.0  | 1.0  | 1.0 | 1.0 | 1.0  | 1.0 | 1.0 |
|            |                          |            |          | 11   | 17   | 11   | 21   | 24  | 8   | 16   | 11  | 17  |
| CRQL       | COMPOUND                 |            |          |      |      |      |      |     |     |      |     |     |
| 10         | Chloromethane            |            |          |      |      |      |      |     |     |      |     |     |
| 10         | Bromomethane             |            |          |      |      |      |      |     |     |      |     |     |
| 10         | Vinyl Chloride           |            |          |      |      |      |      |     |     |      |     |     |
| 10         | Chloroethane             |            |          |      |      |      |      |     |     |      |     |     |
| 5          | Methylene Chloride       | 9 B        | 6 BJ     | 5 BJ | 5 BJ | 4 BJ | 10 B | 9 B | 7 B | 8    |     |     |
| 10         | Acetone                  | 15         | 20       | 11 J | 17   | 14   | 15   | 12  | 28  | 13 B |     |     |
| 5          | Carbon Disulfide         |            |          |      |      |      |      |     |     |      |     |     |
| 5          | 1,1-Dichloroethene       |            |          |      |      |      |      |     |     |      |     |     |
| 5          | 1,1-Dichloroethane       | 4          |          | 5 J  |      |      |      |     |     |      |     |     |
| 5          | Total-1,2-Dichloroethene | 2 J        |          |      |      |      |      | 2 J |     |      | 2 J |     |
| 5          | Chloroform               |            |          | 2 J  |      |      |      |     |     |      |     |     |
| 5          | 1,2-Dichloroethane       |            |          |      |      |      |      |     |     |      |     |     |
| 10         | 2-Butanone               |            |          |      |      |      |      |     |     |      |     |     |
| 5          | 1,1,1-Trichloroethane    | 19         |          | 20   |      |      |      |     |     |      |     |     |
| 5          | Carbon Tetrachloride     |            |          |      |      |      |      |     |     |      |     |     |
| 10         | Vinyl Acetate            |            |          |      |      |      |      |     |     |      |     |     |
| 5          | Bromodichloromethane     |            |          |      |      |      |      |     |     |      |     |     |

CRDL = Contract Required Detection Limit

SEE NARRATIVE FOR CODE DEFINITIONS

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Division of Environmental

DATA SUMMARY FORM: VOLATILES 1

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| Sample No.      | S9MS                  | S9MSD | S9MSDRE | S10  | S11  | S11RE |  |  |  |
|-----------------|-----------------------|-------|---------|------|------|-------|--|--|--|
| Dilution Factor | 1.0                   | 1.0   | 1.0     | 1.0  | 1.0  | 1.0   |  |  |  |
| % Moisture      | 17                    | 17    | 17      | 14   | 25   | 25    |  |  |  |
| Location        |                       |       |         |      |      |       |  |  |  |
| CRQL            | COMPOUND              |       |         |      |      |       |  |  |  |
| 10              | Chloromethane         |       |         |      |      |       |  |  |  |
| 10              | Bromomethane          |       |         |      |      |       |  |  |  |
| 10              | Vinyl Chloride        |       |         |      |      |       |  |  |  |
| 10              | Chloroethane          |       |         |      |      |       |  |  |  |
| 5               | 7                     | 10    | 7       | 5 J  | 18   | 33    |  |  |  |
| 10              | 17 B                  | 19 B  | 21 B    | 16 B | 28 B | 26 B  |  |  |  |
| 5               | Carbon Disulfide      |       |         |      |      |       |  |  |  |
| 5               | 1,1-Dichloroethene    |       |         |      |      |       |  |  |  |
| 5               | 1,1-Dichloroethane    |       |         |      |      |       |  |  |  |
| 5               | 3 J                   | 2 J   |         |      | 9    | 6 J   |  |  |  |
| 5               | Chloroform            |       |         |      |      |       |  |  |  |
| 5               | 1,2-Dichloroethane    |       |         |      |      |       |  |  |  |
| 10              | 2-Butanone            |       |         |      |      |       |  |  |  |
| 5               | 1,1,1-Trichloroethane |       |         |      |      |       |  |  |  |
| 5               | Carbon Tetrachloride  |       |         |      |      |       |  |  |  |
| 10              | Vinyl Acetate         |       |         |      |      |       |  |  |  |
| 5               | Bromodichloromethane  |       |         |      |      |       |  |  |  |

CRDL = Contract Required Detection Limit

SEE NARRATIVE FOR CODE DEFINITIONS

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# Subsurface Soil

## DATA SUMMARY FORM: VOLATILES 1

Site Name: Golden Road Dr. # 9 1988

SOIL SAMPLES  
(ug/Kg)

Case #: 872.002 Sampling Date(s): Aug 23, 1989

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No. | Dilution Factor          | % Moisture | Location | GW7     | GW7ms   | GW7ms   | GW7ms   | GW7ms   | GW7ms   | GW7ms   | GW7ms   | GW7ms   | GW7ms   | GW7ms   | GW7ms   |         |
|------------|--------------------------|------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|            |                          |            |          | 17-19ft | 17-19ft | 17-19ft | 17-19ft | 17-19ft | 17-19ft | 17-19ft | 17-19ft | 17-19ft | 17-19ft | 17-19ft | 17-19ft | 17-19ft |
| CRQL       | COMPOUND                 |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 10         | Chloromethane            |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 10         | Bromomethane             |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 10         | Vinyl Chloride           |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 10         | Chloroethane             |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5          | Methylene Chloride       |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 10         | Acetone                  |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5          | Carbon Disulfide         |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5          | 1,1-Dichloroethene       |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5          | 1,1-Dichloroethane       |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5          | Total-1,2-Dichloroethene |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5          | Chloroform               |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5          | 1,2-Dichloroethane       |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 10         | 2-Butanone               |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5          | 1,1,1-Trichloroethane    |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5          | Carbon Tetrachloride     |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 10         | Vinyl Acetate            |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5          | Bromodichloromethane     |            |          |         |         |         |         |         |         |         |         |         |         |         |         |         |

CRDL = Contract Required Detection Limit

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DATA SUMMARY FORM: VOLATILES 1

Site Name: GOLDEN ROAD DISPOSAL SITE

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8-2/9/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| Sample No. | Dilution Factor          | % Moisture | Location | SED-1 | SED-2 | SED-3 | SED-4 | SED-5 | SED-6 | SED-7 | SED-7RE | SED-8 |  |
|------------|--------------------------|------------|----------|-------|-------|-------|-------|-------|-------|-------|---------|-------|--|
|            |                          |            |          | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0     | 1.0   |  |
|            |                          |            |          | 46    | 56    | 50    | 44    | 50    | 53    | 33    | 33      | 26    |  |
| CRQL       | COMPOUND                 |            |          |       |       |       |       |       |       |       |         |       |  |
| 10         | Chloromethane            |            |          |       |       |       |       |       |       |       |         |       |  |
| 10         | Bromomethane             |            |          |       |       |       |       |       |       |       |         |       |  |
| 10         | Vinyl Chloride           |            |          |       |       |       |       |       |       |       |         |       |  |
| 10         | Chloroethane             |            |          |       |       |       |       |       |       |       |         |       |  |
| 5          | Methylene Chloride       |            |          | 16 B  | 29 B  | 26 B  | 19 B  | 24 B  | 26 B  | 19 B  | 34      | 22 B  |  |
| 10         | Acetone                  |            |          | 51 B  | 92 B  | 89 B  | 120 B | 110 B | 93 B  | 150 B | 130     | 100 B |  |
| 5          | Carbon Disulfide         |            |          |       |       |       |       |       |       |       |         |       |  |
| 5          | 1,1-Dichloroethene       |            |          |       |       |       |       |       |       |       |         |       |  |
| 5          | 1,1-Dichloroethane       |            |          |       |       |       |       |       |       |       |         |       |  |
| 5          | Total-1,2-Dichloroethene |            |          |       |       |       |       |       |       |       |         |       |  |
| 5          | Chloroform               |            |          |       |       |       |       |       |       |       |         |       |  |
| 5          | 1,2-Dichloroethane       |            |          |       |       |       |       |       |       |       |         |       |  |
| 10         | 2-Butanone               |            |          |       |       |       |       |       |       |       |         |       |  |
| 5          | 1,1,1-Trichloroethane    |            |          |       |       |       |       |       |       |       |         |       |  |
| 5          | Carbon Tetrachloride     |            |          |       |       |       |       |       |       |       |         |       |  |
| 10         | Vinyl Acetate            |            |          |       |       |       |       |       |       |       |         |       |  |
| 5          | Bromodichloromethane     |            |          |       |       |       |       |       |       |       |         |       |  |

CRDL = Contract Required Detection Limit

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DATA SUMMARY FORM: VOLATILES 1

Site Name: GOLDEN ROAD

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8-2/9/90  
— .426 2/12/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| Sample No.      | SED-8MS                  | SED-8MSD | SED-9 | SED-9RE | SED-10 | SED-10RE | SED-10MS | SED-10MSD | SED-11 |   |     |   |     |   |     |   |     |    |
|-----------------|--------------------------|----------|-------|---------|--------|----------|----------|-----------|--------|---|-----|---|-----|---|-----|---|-----|----|
| Dilution Factor | 1.0                      | 1.0      | 1.0   | 1.0     | 1.0    | 1.0      | 1.0      | 1.0       | 1.0    |   |     |   |     |   |     |   |     |    |
| % Moisture      | 26                       | 26       | 62    | 62      | 40     | 40       | 40       | 40        | 8      |   |     |   |     |   |     |   |     |    |
| Location        |                          |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| CRQL            | COMPOUND                 |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 10              | Chloromethane            |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 10              | Bromomethane             |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 10              | Vinyl Chloride           |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 10              | Chloroethane             |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 5               | 23                       | B        | 32    | B       | 42     | B        | 62       | B         | 24     | B | 31  | B | 30  | B | 28  | B | 3   | BJ |
| 10              | 67                       | B        | 72    | B       | 306    | B        | 260      | B         | 67     | B | 120 | B | 140 | B | 110 | B | 170 | B  |
| 5               | Carbon Disulfide         |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 5               | 1,1-Dichloroethene       |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 5               | 1,1-Dichloroethane       |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 5               | Total-1,2-Dichloroethene |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 5               | Chloroform               |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 5               | 1,2-Dichloroethane       |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 10              | 2-Butanone               |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 5               | 1,1,1-Trichloroethane    |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 5               | Carbon Tetrachloride     |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 10              | Vinyl Acetate            |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |
| 5               | Bromodichloromethane     |          |       |         |        |          |          |           |        |   |     |   |     |   |     |   |     |    |

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CRDL = Contract Required Detection Limit

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DATA SUMMARY FORM: VOLATILES 1

Site Name: GOLDEN ROAD

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.380 Sampling Date(s): 2/6/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| CRQL | COMPOUND                 | Sample No.      | SED-12      | SED-13 | SED-14 | SED-14MS | SED-14MSD | SED-15 | SED-15MS | SED-15MSD |
|------|--------------------------|-----------------|-------------|--------|--------|----------|-----------|--------|----------|-----------|
|      |                          | Dilution Factor | 1.0         | -      | 1.0    | 1.0      | 1.0       | 1.0    | 1.0      | 1.0       |
|      | % Moisture               | 52              | -           | 65     | 65     | 65       | 64        | 54     | 54       | 54        |
|      | Location                 |                 |             |        |        |          |           |        |          |           |
|      |                          |                 | NOT SAMPLED |        |        |          |           |        |          |           |
| 10   | Chloromethane            |                 |             |        | 4      | J        |           |        |          |           |
| 10   | Bromomethane             |                 |             |        |        |          |           |        |          |           |
| 10   | Vinyl Chloride           |                 |             |        |        |          |           |        |          |           |
| 10   | Chloroethane             |                 |             |        |        |          |           |        |          |           |
| 5    | Methylene Chloride       | 22              | A           |        | 24     | A        | 7         | B      | 8        | B         |
| 10   | Acetone                  | 75              | B           |        | 170    | A        | 4         | J      | 5        | J         |
| 5    | Carbon Disulfide         |                 |             |        | 4      | J        |           |        |          |           |
| 5    | 1,1-Dichloroethene       |                 |             |        |        |          |           |        |          |           |
| 5    | 1,1-Dichloroethane       |                 |             |        |        |          |           |        |          |           |
| 5    | Total-1,2-Dichloroethene |                 |             |        |        |          |           |        |          |           |
| 5    | Chloroform               |                 |             |        |        |          |           |        |          |           |
| 5    | 1,2-Dichloroethane       |                 |             |        |        |          |           |        |          |           |
| 10   | 2-Butanone               |                 |             |        |        |          |           |        |          |           |
| 5    | 1,1,1-Trichloroethane    |                 |             |        |        |          |           |        |          |           |
| 5    | Carbon Tetrachloride     |                 |             |        |        |          |           |        |          |           |
| 10   | Vinyl Acetate            |                 |             |        |        |          |           |        |          |           |
| 5    | Bromodichloromethane     |                 |             |        |        |          |           |        |          |           |

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DATA SUMMARY FORM: VOLATILES 1

Site Name: GOLDEN ROAD DISPOSAL SITE

SOIL SAMPLES  
(ug/Kg)

Case #: 877.001 Sampling Date(s): 6/15/89  
877.002 8/24/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No. | W-1                      |            | W-2 |    | W-2RE |    | W-3 |    | W-3MS |    | W-3MSD |    |
|------------|--------------------------|------------|-----|----|-------|----|-----|----|-------|----|--------|----|
|            | Dilution Factor          | % Moisture |     |    |       |    |     |    |       |    |        |    |
|            | 1.0                      | 17         | 1.0 | 16 | 1.0   | 16 | 2.0 | ND | 2.0   | ND | 2.0    | ND |
|            | Location                 |            |     |    |       |    |     |    |       |    |        |    |
| CRQL       | COMPOUND                 |            |     |    |       |    |     |    |       |    |        |    |
| 10         | Chloromethane            |            |     |    |       |    |     |    |       |    |        |    |
| 10         | Bromomethane             |            |     |    |       |    |     |    |       |    |        |    |
| 10         | Vinyl Chloride           |            |     |    |       |    |     |    |       |    |        |    |
| 10         | Chloroethane             |            |     |    |       |    |     |    |       |    |        |    |
| 5          | Methylene Chloride       |            |     |    |       |    |     |    |       |    |        |    |
| 10         | Acetone                  |            |     |    |       |    |     |    |       |    |        |    |
| 5          | Carbon Disulfide         |            |     |    |       |    |     |    |       |    |        |    |
| 5          | 1,1-Dichloroethene       |            |     |    |       |    |     |    |       |    |        |    |
| 5          | 1,1-Dichloroethane       |            |     |    |       |    |     |    |       |    |        |    |
| 5          | Total-1,2-Dichloroethene |            |     |    |       |    |     |    |       |    |        |    |
| 5          | Chloroform               |            |     |    |       |    |     |    |       |    |        |    |
| 5          | 1,2-Dichloroethane       |            |     |    |       |    |     |    |       |    |        |    |
| 10         | 2-Butanone               |            |     |    |       |    |     |    |       |    |        |    |
| 5          | 1,1,1-Trichloroethane    |            |     |    |       |    |     |    |       |    |        |    |
| 5          | Carbon Tetrachloride     |            |     |    |       |    |     |    |       |    |        |    |
| 10         | Vinyl Acetate            |            |     |    |       |    |     |    |       |    |        |    |
| 5          | Bromodichloromethane     |            |     |    |       |    |     |    |       |    |        |    |

CRDL = Contract Required Detection Limit

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DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: GOLDEN ROAD DISPOSAL SITE

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| CRQL | COMPOUND                 | Sample No.      |     |        |    |  |  |  |  |  |  |  |  |  |
|------|--------------------------|-----------------|-----|--------|----|--|--|--|--|--|--|--|--|--|
|      |                          | Dilution Factor | L-1 | L-2 RE |    |  |  |  |  |  |  |  |  |  |
|      | % Moisture               | 42              | 42  |        |    |  |  |  |  |  |  |  |  |  |
|      | Location                 |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 10   | Chloromethane            |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 10   | Bromomethane             |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 10   | Vinyl Chloride           |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 10   | Chloroethane             |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 5    | Methylene Chloride       | 16              | B   | 7      | AJ |  |  |  |  |  |  |  |  |  |
| 10   | Acetone                  | 83              | B   | 210    | B  |  |  |  |  |  |  |  |  |  |
| 5    | Carbon Disulfide         |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 5    | 1,1-Dichloroethene       |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 5    | 1,1-Dichloroethane       |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 5    | Total-1,2-Dichloroethene |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 5    | Chloroform               | 7               | J   |        |    |  |  |  |  |  |  |  |  |  |
| 5    | 1,2-Dichloroethane       |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 10   | 2-Butanone               |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 5    | 1,1,1-Trichloroethane    |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 5    | Carbon Tetrachloride     |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 10   | Vinyl Acetate            |                 |     |        |    |  |  |  |  |  |  |  |  |  |
| 5    | Bromodichloromethane     |                 |     |        |    |  |  |  |  |  |  |  |  |  |

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CRDL = Contract Required Detection Limit

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DATA SUMMARY FORM: VOLATILES 2

Site Name: Golden Pond

SOIL SAMPLES  
(ug/Kg)

Case #: 872.002 Sampling Date(s): Aug 23, 1989

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| CRQL | COMPOUND                  | Sample No. | Dilution Factor | % Moisture | Location |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|---------------------------|------------|-----------------|------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                           | GW7        | GW7MS           | GW7MSD     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |                           | 17-19 ft   | 17-19 ft        | 17-19 ft   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | 1,2-Dichloropropane       |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Cis-1,3-Dichloropropene   |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Trichloroethene           |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Dibromochloromethane      |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | 1,1,2-Trichloroethane     |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Benzene                   |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Trans-1,3-Dichloropropene |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Bromoform                 |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 4-Methyl-2-pentanone      |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 2-Hexanone                |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Tetrachloroethene         |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | 1,1,2,2-Tetrachloroethane |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Toluene                   |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Chlorobenzene             |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Ethylbenzene              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Styrene                   |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Total Xylenes             |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: VOLATILES 2

Site Name: Golden Road

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| RQL | COMPOUND                  | Sample No.      | L-2 | L-2 RE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|---------------------------|-----------------|-----|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|     |                           | Dilution Factor | 1.0 | 1.0    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | % Moisture      | 42  | 42     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | Location        |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | 1,2 Dichloropropane       |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Cis-1,3 Dichloropropene   |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Trichloroethene           |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Dibromochloromethane      |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | 1,1,2 Trichloroethane     |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Benzene                   |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Trans-1,3-Dichloropropene |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Bromoform                 |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | 4 Methyl-2-pentanone      |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | 2 Hexanone                |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Tetrachloroethene         |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | 1,1,2,2-Tetrachloroethane |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Toluene                   |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Chlorobenzene             |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Ethylbenzene              |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Styrene                   |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5   | Total Xylenes             |                 |     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: VOLATILES 2

Site Name: Golden Road

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8-2/9/90

To calculate sample quantitation limit:  
(CROL \* Dilution Factor) / ((100 - % moisture)/100)

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| Sample No. | Dilution Factor | % Moisture | Location | sed  | sed  | sed  | sed  | sed  | sed  | sed  | sed    |      |
|------------|-----------------|------------|----------|------|------|------|------|------|------|------|--------|------|
|            |                 |            |          | SW-1 | SW-2 | SW-3 | SW-4 | SW-5 | SW-6 | SW-7 | SW-7RE | SW-8 |
|            | 1.0             |            |          | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0    | 1.0  |
|            | 46              |            |          | 56   | 50   | 44   | 50   | 53   | 33   | 33   |        | 26   |

| QOL | COMPOUND                  | SW-1 | SW-2 | SW-3 | SW-4 | SW-5 | SW-6 | SW-7 | SW-7RE | SW-8 |
|-----|---------------------------|------|------|------|------|------|------|------|--------|------|
| 5   | 1,2-Dichloropropane       |      |      |      |      |      |      |      |        |      |
| 5   | Cis-1,3-Dichloropropene   |      |      |      |      |      |      |      |        |      |
| 5   | Trichloroethene           |      |      |      |      |      |      |      |        |      |
| 5   | Dibromochloromethane      |      |      |      |      |      |      |      |        |      |
| 5   | 1,1,2-Trichloroethane     |      |      |      |      |      |      |      |        |      |
| 5   | Benzene                   |      |      |      |      |      |      |      |        |      |
| 5   | Trans-1,3-Dichloropropene |      |      |      |      |      |      |      |        |      |
| 5   | Bromoform                 |      |      |      |      |      |      |      |        |      |
| 10  | 4-Methyl-2-pentanone      |      |      |      |      |      |      |      |        |      |
| 10  | 2-Hexanone                |      |      |      |      |      |      |      |        |      |
| 5   | Tetrachloroethene         |      |      |      |      |      |      |      |        |      |
| 5   | 1,1,2,2-Tetrachloroethane |      |      |      |      |      |      |      |        |      |
| 5   | Toluene                   | 3 J  |      | 6 J  | 6 J  | 5 J  | 2 J  | 13   |        |      |
| 5   | Chlorobenzene             |      |      |      |      |      |      |      |        |      |
| 5   | Ethylbenzene              |      |      |      |      |      |      |      |        |      |
| 5   | Styrene                   |      |      |      |      |      |      |      |        |      |
| 5   | Total Xylenes             |      |      |      |      |      |      |      |        |      |

CROL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: VOLATILES 2

Site Name: GOLDEN ROAD

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8-2/9/90  
9000.426 2/12/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| CRQL | COMPOUND                  | SED-8MS         | SED-8MSD | SED-9 | SED-9RE | SED-10 | SED-10RE | SED-10MS | SED-10MSD | SED-11 |     |
|------|---------------------------|-----------------|----------|-------|---------|--------|----------|----------|-----------|--------|-----|
|      |                           | Dilution Factor | 1.0      | 1.0   | 1.0     | 1.0    | 1.0      | 1.0      | 1.0       | 1.0    | 1.0 |
|      |                           | % Moisture      | 26       | 26    | 62      | 62     | 40       | 40       | 40        | 40     | 8   |
|      |                           | Location        |          |       |         |        |          |          |           |        |     |
| 5    | 1,2-Dichloropropane       |                 |          |       |         |        |          |          |           |        |     |
| 5    | Cis-1,3-Dichloropropene   |                 |          |       |         |        |          |          |           |        |     |
| 5    | Trichloroethene           |                 |          |       |         |        |          |          |           |        |     |
| 5    | Dibromochloromethane      |                 |          |       |         |        |          |          |           |        |     |
| 5    | 1,1,2-Trichloroethane     |                 |          |       |         |        |          |          |           |        |     |
| 5    | Benzene                   |                 |          |       |         |        |          |          |           |        |     |
| 5    | Trans-1,3-Dichloropropene |                 |          |       |         |        |          |          |           |        |     |
| 5    | Bromoform                 |                 |          |       |         |        |          |          |           |        |     |
| 10   | 4-Methyl-2-pentanone      |                 |          |       |         |        |          |          |           |        |     |
| 10   | 2-Hexanone                |                 |          |       |         |        |          |          |           |        |     |
| 5    | Tetrachloroethene         |                 |          |       |         |        |          |          |           |        |     |
| 5    | 1,1,2,2-Tetrachloroethane |                 |          |       |         |        |          |          |           |        |     |
| 5    | Toluene                   |                 |          | 9     | J       | 4      | J        | 5        | J         |        |     |
| 5    | Chlorobenzene             |                 |          |       |         |        |          |          |           |        |     |
| 5    | Ethylbenzene              |                 |          |       |         |        |          |          |           |        |     |
| 5    | Styrene                   |                 |          |       |         |        |          |          |           |        |     |
| 5    | Total Xylenes             |                 |          |       |         |        |          |          |           |        |     |

and environment

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: VOLATILES 2

Site Name: GOLDEN ROAD  
 Case #: 9000.380 Sampling Date(s): 2/6/90

SOIL SAMPLES  
 (ug/Kg)

To calculate sample quantitation limit:  
 (CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| Sample No. | SED-12                    | SED-13      | SED-14 | SED-14MS | SED-14MSD | SED-15 | SED-15MS | SED-15MSD |  |
|------------|---------------------------|-------------|--------|----------|-----------|--------|----------|-----------|--|
|            | Dilution Factor           | -           | 1.0    | 1.0      | 1.0       | 1.0    | 1.0      | 1.0       |  |
| % Moisture | 52                        | -           | 65     | 65       | 65        | 54     | 54       | 54        |  |
| Location   |                           | NOT SAMPLED |        |          |           |        |          |           |  |
| CRQL       | COMPOUND                  |             |        |          |           |        |          |           |  |
| 5          | 1,2-Dichloropropane       |             |        |          |           |        |          |           |  |
| 5          | Cis-1,3-Dichloropropene   |             |        |          |           |        |          |           |  |
| 5          | Trichloroethene           |             |        |          |           |        |          |           |  |
| 5          | Dibromochloromethane      |             |        |          |           |        |          |           |  |
| 5          | 1,1,2-Trichloroethane     |             |        |          |           |        |          |           |  |
| 5          | Benzene                   |             |        |          |           |        |          |           |  |
| 5          | Trans-1,3-Dichloropropene |             |        |          |           |        |          |           |  |
| 5          | Bromoform                 |             |        |          |           |        |          |           |  |
| 10         | 4-Methyl 2-pentanone      |             |        |          |           |        |          |           |  |
| 10         | 2-Hexanone                |             |        |          |           |        |          |           |  |
| 5          | Tetrachloroethene         |             |        |          |           |        |          |           |  |
| 5          | 1,1,2,2-Tetrachloroethane |             |        |          |           |        |          |           |  |
| 5          | Toluene                   |             |        |          |           |        |          |           |  |
| 5          | Chlorobenzene             |             |        |          |           |        |          |           |  |
| 5          | Ethylbenzene              |             |        |          |           |        |          |           |  |
| 5          | Styrene                   |             |        |          |           |        |          |           |  |
|            | Total Xylenes             |             |        |          |           |        |          |           |  |

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CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: VOLATILES 2

Site Name: GOLDEN ROAD

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| Sample No. | Dilution Factor           | % Moisture | Location | W-1 | W-2 | W-2 RE | W-3 | W-3MS | W-3MSD |   |      |  |  |
|------------|---------------------------|------------|----------|-----|-----|--------|-----|-------|--------|---|------|--|--|
|            |                           |            |          | 1.0 | 1.0 | 1.0    | 2.0 | 2.0   | 2.0    |   |      |  |  |
|            |                           |            |          | 17  | 16  | 16     | ND  | ND    | ND     |   |      |  |  |
| CRQL       | COMPOUND                  |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | 1,2-Dichloropropane       |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | Cis-1,3-Dichloropropene   |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | Trichloroethene           |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | Dibromochloromethane      |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | 1,1,2-Trichloroethane     |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | Benzene                   |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | Trans-1,3-Dichloropropene |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | Bromoform                 |            |          |     |     |        |     |       |        |   |      |  |  |
| 10         | 4-Methyl-2-pentanone      |            |          |     |     |        |     |       |        |   |      |  |  |
| 10         | 2-Hexanone                |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | Tetrachloroethene         |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | 1,1,2,2-Tetrachloroethane |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | Toluene                   |            |          | 3   | J   |        |     |       |        |   |      |  |  |
| 5          | Chlorobenzene             |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | Ethylbenzene              |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | Styrene                   |            |          |     |     |        |     |       |        |   |      |  |  |
| 5          | Total Xylenes             |            |          |     |     |        | 820 | J     | 1100   | J | 1300 |  |  |

CRQL = Contract Required Quantitation Limit

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soil and environment

DATA SUMMARY FORM: VOLATILES 2

Site Name: Coken Road Driveway Site

SOIL SAMPLES  
(ug/Kg)

Case #: 872-001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No. | Dilution Factor           | % Moisture | Location | S1  | S2  | S3  | S4  | S5  | S6  | S7  | S8  | S9  |
|------------|---------------------------|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                           |            |          | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|            |                           |            |          | 11  | 17  | 11  | 21  | 24  | 8   | 16  | 11  | 17  |
| CRQL       | COMPOUND                  |            |          |     |     |     |     |     |     |     |     |     |
| 5          | 1,2-Dichloropropane       |            |          |     |     |     |     |     |     |     |     |     |
| 5          | Cis-1,3-Dichloropropene   |            |          |     |     |     |     |     |     |     |     |     |
| 5          | Trichloroethene           |            |          |     |     |     |     |     |     |     |     |     |
| 5          | Dibromochloromethane      |            |          |     |     |     |     |     |     |     |     |     |
| 5          | 1,1,2-Trichloroethane     |            |          |     |     |     |     |     |     |     |     |     |
| 5          | Benzene                   |            |          |     |     |     |     |     |     |     |     |     |
| 5          | Trans-1,3-Dichloropropene |            |          |     |     |     |     |     |     |     |     |     |
| 5          | Bromoforn                 |            |          |     |     |     |     |     |     |     |     |     |
| 10         | 4-Methyl-2-pentanone      |            |          |     |     |     |     |     |     |     |     |     |
| 10         | 2-Hexanone                |            |          |     |     |     |     |     |     |     |     |     |
| 5          | Tetrachloroethene         |            |          | 12  |     |     |     |     |     |     |     |     |
| 5          | 1,1,2,2-Tetrachloroethane |            |          |     |     |     |     |     |     |     |     |     |
| 5          | Toluene                   |            |          | 25  |     |     |     |     |     |     |     | 25  |
| 5          | Chlorobenzene             |            |          |     |     |     |     |     |     |     |     |     |
| 5          | Ethylbenzene              |            |          |     |     |     |     |     |     |     |     |     |
| 5          | Styrene                   |            |          |     |     |     |     |     |     |     |     |     |
| 5          | Total Xylenes             |            |          |     |     |     |     |     |     |     |     |     |

CRQL = Contract Required Quantitation Limit

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EPA REGION 3 AND ENVIRONMENT

DATA SUMMARY FORM: VOLATILES 2

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| Sample No.      | 59MS                      | 59MSD | 59MSDRE | S10 | S11 | S11RE |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|---------------------------|-------|---------|-----|-----|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| Dilution Factor | 1.0                       | 1.0   | 1.0     | 1.0 | 1.0 | 1.0   |  |  |  |  |  |  |  |  |  |  |  |  |
| % Moisture      | 17                        | 17    | 17      | 14  | 25  | 25    |  |  |  |  |  |  |  |  |  |  |  |  |
| Location        |                           |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| CRQL            | COMPOUND                  |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | 1,2-Dichloropropane       |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Cis-1,3-Dichloropropene   |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Trichloroethene           |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Dibromochloromethane      |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | 1,1,2-Trichloroethane     |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Benzene                   |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Trans-1,3-Dichloropropene |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Bromofom                  |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | 4-Methyl-2-pentanone      |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | 2-Hexanone                |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Tetrachloroethene         |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | 1,1,2,2-Tetrachloroethane |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Toluene                   |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Chlorobenzene             |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Ethylbenzene              |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Styrene                   |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |
| 5               | Total Xylenes             |       |         |     |     |       |  |  |  |  |  |  |  |  |  |  |  |  |

ecology and environment

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Road Disposal Site

SOIL SAMPLES (ug/Kg)

Case #: 872.001 Sampling Date: 6/15/90

To calculate sample quantitation limit: (CRQL \* Dilution Factor) / ((1 - % moisture/100)

Table with columns for Sample No., Dilution Factor, % Moisture, Location, and sample numbers S1-S9.

CRQL

COMPOUND

Hexane Cas No. 110543

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: T E N T A T I V E L Y I N D E N T I F I E D C O M P O U N D S

Site Name: Golden Road Disposal site

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date: 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((1 - % moisture/100))

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| CRQL | COMPOUND           | Sample No.      | S9MS | S9MSD | S9MSDRE | S10   | S11  | S11RE |  |  |  |  |  |  |
|------|--------------------|-----------------|------|-------|---------|-------|------|-------|--|--|--|--|--|--|
|      |                    | Dilution Factor | 1.0  | 1.0   | 1.0     | 1.0   | 1.0  | 1.0   |  |  |  |  |  |  |
|      |                    | % Moisture      | 17   | 17    | 17      | 14    | 25   | 25    |  |  |  |  |  |  |
|      |                    | Location        |      |       |         |       |      |       |  |  |  |  |  |  |
|      | Hexane CAS# 110543 |                 |      |       |         | 5.5 J | 11 J | 9 J   |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |
|      |                    |                 |      |       |         |       |      |       |  |  |  |  |  |  |

ecology and environment

CRQL = Contract Required Quantitation Limit



DATA SUMMARY FORM: T E N T A T I V E L Y I N D E N T I F I E D C O M P O U N D S

Site Name: Golden Road Deposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 872-001 Sampling Date: 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((1 - % moisture/100))

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| Sample No. | Dilution Factor                          | % Moisture | Location | S1   | S2   | S3  | S4  | S5  | S6  | S7   | S8  | S9  |
|------------|--|------------|----------|------|------|-----|-----|-----|-----|------|-----|-----|
|            |  |            |          | 10.0 | 2.0  | 2.0 | 2.0 | 2.0 | 2.0 | 2.0  | 2.0 | 2.0 |
|            |  |            |          | 11   | 17   | 11  | 21  | 24  | 8   | 16   | 11  | 17  |
| CRQL       | COMPOUND                                 |            |          |      |      |     |     |     |     |      |     |     |
|            | CAS # 127639 Benzene, 1,1'-sulfonylbis   |            |          |      |      |     |     |     |     |      |     |     |
|            | 1600                                     | J          |          |      |      |     |     |     |     |      |     |     |
|            | CAS # 791286 Phosphoric oxide, triphenyl |            |          |      |      |     |     |     |     |      |     |     |
|            |  |            |          |      |      |     |     |     |     | 2800 | J   |     |
|            | bis dimethylethyl Phend                  |            |          |      |      |     |     |     |     |      |     |     |
|            | 1900                                     | J          |          |      |      |     |     |     |     |      |     |     |
|            | Tri cresyl phosphate isomers             |            |          |      |      |     |     |     |     |      |     |     |
|            | 10,000                                   | J          |          |      | 5200 | J   |     |     |     |      |     |     |
|            | 12,000                                   | J          |          |      |      |     |     |     |     |      |     |     |
|            | 9,000                                    | J          |          |      |      |     |     |     |     |      |     |     |

ecology and environment

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Road Diesel Site

SOIL SAMPLES  
(ug/Kg)

Case #: 872-001 Sampling Date: 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((1 - % moisture/100)

recycled paper

| CRQL | COMPOUND                                      | Sample No.      | S10 | S11   | S11RE |  |  |  |  |  |  |  |  |  |
|------|---|-----------------|-----|-------|-------|--|--|--|--|--|--|--|--|--|
|      |   | Dilution Factor |     |       |       |  |  |  |  |  |  |  |  |  |
|      | % Moisture                                    |                 | 14  | 25    | 25    |  |  |  |  |  |  |  |  |  |
|      | Location                                      |                 |     |       |       |  |  |  |  |  |  |  |  |  |
|      |   |                 |     |       |       |  |  |  |  |  |  |  |  |  |
|      | CAS# 127639<br>Benzene, 1,1'-<br>sulfonylbis  |                 |     |       |       |  |  |  |  |  |  |  |  |  |
|      | CAS # 791286<br>phosphono oxide,<br>triphenyl |                 |     | 540 J |       |  |  |  |  |  |  |  |  |  |
|      | bisdimethylethyl Phenol                       |                 |     |       |       |  |  |  |  |  |  |  |  |  |
|      | Tricresyl phosphate isomer                    |                 |     |       |       |  |  |  |  |  |  |  |  |  |
|      |   |                 |     |       |       |  |  |  |  |  |  |  |  |  |
|      |   |                 |     |       |       |  |  |  |  |  |  |  |  |  |
|      |   |                 |     |       |       |  |  |  |  |  |  |  |  |  |
|      |   |                 |     |       |       |  |  |  |  |  |  |  |  |  |
|      |   |                 |     |       |       |  |  |  |  |  |  |  |  |  |
|      |   |                 |     |       |       |  |  |  |  |  |  |  |  |  |
|      |   |                 |     |       |       |  |  |  |  |  |  |  |  |  |

ecology and environment

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date: 2/8-2/19/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((1 + % moisture/100))

recycled paper

| CRQL | COMPOUND  | FF   |        | Sed  |       | Sed    |       | Sed  |      | Sed  |                 | Sed        |          | Sed |  |
|------|---|------|--------|------|-------|--------|-------|------|------|------|-----------------|------------|----------|-----|--|
|      |   | SW-1 | SW-2   | SW-3 | SW-4  | SW-5   | SW-6  | SW-7 | SW-8 | SW-9 | Dilution Factor | % Moisture | Location |     |  |
|      | bis(dimethyl)phenol   |      | 380 BT |      | 300 J | 400 BT | 350 J |      |      |      |                 |            |          |     |  |
|      | 1,1,2,2-tetrachloroethane<br>Cas No. 79345                  |      |        |      | 420 J | 400 J  | 500 J |      |      |      |                 |            |          |     |  |
|      | 2-propanol, 1,3-dichloro- <i>propyl</i><br>Cas No. 13674878 |      |        |      |       | 930 J  |       |      |      |      |                 |            |          |     |  |

ecology and environment

CRQL = Contract Required Quantitation Limit

\* This compound is believed to be an artifact of the extraction procedure. FF present on the sample. It would have been observed in the volatile analysis.

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Rd.

SOIL SAMPLES  
(ug/Kg)

Case #: 9000380 Sampling Date: 2/6/90  
9000406 2/8-2/9/90  
9000426 2/12/90

To calculate sample quantitation limit:  
 (CRQL \* Dilution Factor) / ((1 - % moisture/100))

recycled paper

ecology and environment

| Sample No.      | SW-10 | SW-11 | SW-11MS | SW-11MSD | SW-12 | SW-13       | SW-14 | SW-15 |
|-----------------|-------|-------|---------|----------|-------|-------------|-------|-------|
| Dilution Factor | 2.0   | 1.0   | 1.0     | 1.0      | 1.0   | -           | 1.0   | 1.0   |
| % Moisture      | 40    | 8     | 8       | 8        | 52    | -           | 65    | 54    |
| Location        |       |       |         |          |       | NOT Sampled |       |       |

CRQL COMPOUND

bis(dimethylethyl) phenol

1,1,2,2-tetrachloro ethane  
 CAS No. 79345

2-propanol, 1,3-dichloro-, phosph  
 CAS No. 13674878

480 J

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date: 2/8-2/9/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((1 - % moisture/100))

recycled paper

CRQL

ecology and environment

| COMPOUND                 | GT sed |       | sed   |       | Sed   |       | sed   |        | Sed   |  | Sed |  | Sed |  |
|--------------------------|--------|-------|-------|-------|-------|-------|-------|--------|-------|--|-----|--|-----|--|
|                          | SW-1   | SW-2  | SW-3  | SW-4  | SW-5  | SW-6  | SW-7  | SW-7RE | SW-8  |  |     |  |     |  |
| Sample No.               | SW-1   | SW-2  | SW-3  | SW-4  | SW-5  | SW-6  | SW-7  | SW-7RE | SW-8  |  |     |  |     |  |
| Dilution Factor          | 1.0    | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 1.0   |  |     |  |     |  |
| % Moisture               | 46     | 56    | 50    | 44    | 50    | 53    | 33    | 33     | 26    |  |     |  |     |  |
| Location                 |        |       |       |       |       |       |       |        |       |  |     |  |     |  |
| Hexane<br>CAS No. 110543 | 18 BT  | 17 BT | 53 BT | 28 BT | 35 BT | 17 BT | 31 BT | 28 BT  | 13 BT |  |     |  |     |  |

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Rd

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date: 2/8-2/9/90  
9000.426 GF sed sed 2/12/90 sed sed Sed Sed

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((1 - % moisture/100))

recycled paper

| Sample No.      | SW-8MS | SW-8MSD | SW-9 | SW-9RE | SW-10 | SW-10RE | SW-10MS | SW-10MSD | SW-11 |    |
|-----------------|--------|---------|------|--------|-------|---------|---------|----------|-------|----|
| Dilution Factor | 1.0    | 1.0     | 1.0  | 1.0    | 1.0   | 1.0     | 1.0     | 1.0      | 1.0   |    |
| % Moisture      | 26     | 26      | 62   | 62     | 40    | 40      | 40      | 40       | 8     |    |
| Location        |        |         |      |        |       |         |         |          |       |    |
| CRQL            |        |         |      |        |       |         |         |          |       |    |
| COMPOUND        |        |         |      |        |       |         |         |          |       |    |
| Hexane          |        |         | 75   | 35     | 40    | 35      | 47      | 35       | 27    | 35 |
| Cas No. 110543  |        |         |      |        |       |         |         |          |       |    |

ecology and environment

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Rd

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.038 Sampling Date: 2/6/90  
9000.406  
9000.426 sed sed sed sed sed sed sed sed

To calculate sample quantitation limit:  
 (CRQL \* Dilution Factor) / ((1 - % moisture)/100)

recycled paper

CRQL

ecology and environment

| Sample No.      | SW-12 | SW-13       | SW-14 | SW-14MS | SW-14MSD | SW-15 | SW-15MS | SW-15MSD |
|-----------------|-------|-------------|-------|---------|----------|-------|---------|----------|
| Dilution Factor | 1.0   | -           | 1.0   | 1.0     | 1.0      | 1.0   | 1.0     | 1.0      |
| % Moisture      | 52    | -           | 65    | 65      | 65       | 54    | 54      | 54       |
| Location        |       | NOT SAMPLED |       |         |          |       |         |          |

COMPOUND

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date: 2/8/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((1 - % moisture/100))

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Sample No.  
Dilution Factor  
% Moisture  
Location

|     |        |
|-----|--------|
| L-2 | L-2 RE |
| 1.0 | 1.0    |
| 42  | 42     |

CRQL

COMPOUND

Hexane  
Cas No. 110543

|    |    |    |    |
|----|----|----|----|
| 12 | BJ | 16 | BJ |
|----|----|----|----|

ecology and environment

CRQL = Contract Required Quantitation Limit



DATA SUMMARY FORM: T E N T A T I V E L Y I N D E N T I F I E D C O M P O U N D S

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 072.001 Sampling Date: 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((1 - % moisture/100))

recycled paper

CRQL

ecology and environment

|                 |     |     |      |      |  |  |  |  |  |  |  |
|-----------------|-----|-----|------|------|--|--|--|--|--|--|--|
| Sample No.      | W1  | W2  | W2RE | W-3  |  |  |  |  |  |  |  |
| Dilution Factor | 2.0 | 2.0 | 2.0  | 50.0 |  |  |  |  |  |  |  |
| % Moisture      | 17  | 16  | 16   | ND   |  |  |  |  |  |  |  |
| Location        |     |     |      |      |  |  |  |  |  |  |  |

COMPOUND

Phosphine oxide,  
triphenyl  
Cas. No. 791286

1100 J 1000 J

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Rd

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date: 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((1 - % moisture/100))

| COMPOUND                     | Sample No.      | W1  | W2  | W2 RE | W-3    | W-3 MS        | W-3 MSD       |  |  |  |  |  |  |
|------------------------------|-----------------|-----|-----|-------|--------|---------------|---------------|--|--|--|--|--|--|
|                              | Dilution Factor | 1.0 | 1.0 | 1.0   | 2.0    | 2.0           | 2.0           |  |  |  |  |  |  |
|                              | % Moisture      | 17  | 16  | 16    | ND     | ND            | ND            |  |  |  |  |  |  |
|                              | Location        |     |     |       |        |               |               |  |  |  |  |  |  |
| Hexane<br>Cas No. 110543     |                 |     |     | 8.8 J |        |               |               |  |  |  |  |  |  |
| trimethyl benzene<br>isomers |                 |     |     |       | 4300 J | <del>NA</del> | <del>NA</del> |  |  |  |  |  |  |
| 21.90 RT                     |                 |     |     |       | 6200 J |               |               |  |  |  |  |  |  |
| 27.84 RT                     |                 |     |     |       | 2900 J |               |               |  |  |  |  |  |  |
| 23.84 RT                     |                 |     |     |       |        |               |               |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: T E N T A T I V E L Y I N D E N T I F I E D C O M P O U N D S

Site Name: Golden Road Disposal Site  
 Case #: 872.002 Sampling Date: Aug 23, 1989

SOIL SAMPLES  
(ug/Kg)

To calculate sample quantitation limit:  
 (CRQL \* Dilution Factor) / ((1 - % moisture/100))

recycled paper

| CRQL | COMPOUND  | Sample No. | Dilution Factor | % Moisture | Location |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|---|------------|-----------------|------------|----------|-------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   | <u>GW7</u> | <u>2.0</u>      | <u>11</u>  |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | <u>CAS # 21964498</u><br><u>1,13-tetradecadiene</u> |            |                 |            |          | <u>1900</u> | <u>BJ</u> |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |   |            |                 |            |          |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

ecology and environment

DATA SUMMARY FORM: B N A S 1

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

recycled paper

| Sample No.      | S1                          | S2  | S3   | S4   | S5  | S6   | S7   | S8    | S9   |
|-----------------|-----------------------------|-----|------|------|-----|------|------|-------|------|
| Dilution Factor | 10.0                        | 2.0 | 2.0  | 2.0  | 2.0 | 2.0  | 2.0  | 2.0   | 2.0  |
| % Moisture      | 11                          | 17  | 11   | 21   | 24  | 8    | 16   | 11    | 17   |
| Location        |                             |     |      |      |     |      |      |       |      |
| CRQL            | COMPOUND                    |     |      |      |     |      |      |       |      |
| 330             | Phenol                      |     |      | 70 J |     | 84 J |      |       | 58 J |
| 330             | bis(2-Chloroethyl)ether     |     |      |      |     |      |      |       |      |
| 330             | 2-Chlorophenol              |     |      |      |     |      |      |       |      |
| 330             | 1,3-Dichlorobenzene         |     |      |      |     |      |      |       |      |
| 330             | 1,4-Dichlorobenzene         |     |      |      |     |      |      |       |      |
| 330             | Benzyl Alcohol              |     |      |      |     |      |      |       |      |
| 330             | 1,2-Dichlorobenzene         |     |      |      |     |      |      |       |      |
| 330             | 2-Methylphenol              |     |      |      |     |      |      |       |      |
| 330             | bis(2-Chloroisopropyl)ether |     |      |      |     |      |      |       |      |
| 330             | 4-Methylphenol              |     |      |      |     |      |      |       |      |
| 330             | N-Nitroso-di-n-propylamine  |     |      |      |     |      |      |       |      |
| 330             | Hexachloroethane            |     |      |      |     |      |      |       |      |
| 330             | Nitrobenzene                |     |      |      |     |      |      |       |      |
| 330             | Isophorone                  |     |      |      |     |      |      |       |      |
| 330             | 2-Nitrophenol               |     |      |      |     |      |      |       |      |
| 330             | 2,4-Dimethylphenol          |     |      |      |     |      |      |       |      |
| 1600            | Benzoic Acid                |     |      |      |     |      |      |       |      |
| 330             | bis(2-Chloroethoxy)methane  |     |      |      |     |      |      |       |      |
| 330             | 2,4-Dichlorophenol          |     |      |      |     |      |      |       |      |
| 330             | 1,2,4-Trichlorobenzene      |     |      |      |     |      |      |       |      |
| 330             | Naphthalene                 |     | 46 J | 79 J |     | 71 J | 46 J | 110 J | 43 J |
| 330             | 4-Chloroaniline             |     |      |      |     |      |      |       |      |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S 1

Site Name: Golden Road Airport SID

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| CRQL | COMPOUND                    | Sample No. | Dilution Factor | % Moisture | Location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|-----------------------------|------------|-----------------|------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                             | S10        | S11             |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |                             | S10        | 2.0             | 14         |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |                             | S11        | 2.0             | 25         |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Phenol                      | 46         | J               | 65         | J        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | bis(2-Chloroethyl)ether     |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Chlorophenol              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,3-Dichlorobenzene         |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,4-Dichlorobenzene         |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Benzyl Alcohol              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,2-Dichlorobenzene         |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Methylphenol              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | bis(2-Chloroisopropyl)ether |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Methylphenol              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | N-Nitroso-di-n-propylamine  |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Hexachloroethane            |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Nitrobenzene                |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Isophorone                  |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Nitrophenol               |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4-Dimethylphenol          |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | Benzoic Acid                |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | bis(2-Chloroethoxy)methane  |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4-Dichlorophenol          |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,2,4-Trichlorobenzene      |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Naphthalene                 |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Chloroaniline             |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S

Site Name: Golden Pond

SOIL SAMPLES  
(ug/Kg)

Case #: 872-002 Sampling Date(s): Aug 63 1905

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| CRQL | COMPOUND                    | Sample No. | Dilution Factor | % Moisture | Location |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|-----------------------------|------------|-----------------|------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                             |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |                             | GW7        | 2.0             | 11         | 17-19 ft |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Phenol                      |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | bis(2-Chloroethyl)ether     |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Chlorophenol              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,3-Dichlorobenzene         |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,4-Dichlorobenzene         |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Benzyl Alcohol              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,2-Dichlorobenzene         |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Methylphenol              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | bis(2-Chloroisopropyl)ether |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Methylphenol              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | N-Nitroso-di-n-propylamine  |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Hexachloroethane            |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Nitrobenzene                |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Isophorone                  |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Nitrophenol               |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4-Dimethylphenol          |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | Benzoic Acid                |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | bis(2-Chloroethoxy)methane  |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4-Dichlorophenol          |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,2,4-Trichlorobenzene      |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Naphthalene                 |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Chloroaniline             |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S 1

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8/90

To calculate sample quantitation limit:  
(CROL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No.                      | Dilution Factor | % Moisture | Location |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|-----------------|------------|----------|--|--|--|--|--|--|--|--|--|--|--|
| L-2                             | 2.0             | 42         |          |  |  |  |  |  |  |  |  |  |  |  |
| COMPOUND                        |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 Phenol                      |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 bis(2-Chloroethyl)ether     |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 2-Chlorophenol              |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 1,3 Dichlorobenzene         |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 1,4 Dichlorobenzene         |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 Benzyl Alcohol              |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 1,2 Dichlorobenzene         |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 2 Methylphenol              |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 bis(2-Chloroisopropyl)ether |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 4 Methylphenol              |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 N-Nitroso-di-n-propylamine  |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 Hexachloroethane            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 Nitrobenzene                |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 Isophorone                  |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 2-Nitrophenol               |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 2,4-Dimethylphenol          |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 1600 Benzoic Acid               |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 bis(2-Chloroethoxy)methane  |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 2,4 Dichlorophenol          |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 1,2,4-Trichlorobenzene      |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 Naphthalene                 |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |
| 330 4-Chloroaniline             |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |

120 J

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S 1

Site Name: GOLDEN ROAD DISPOSAL SITE

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/89  
872.002 8/24/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| CRQL | COMPOUND                    | Sample No.      | W-1 | W-2 | W-3  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|-----------------------------|-----------------|-----|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                             | Dilution Factor | 2.0 | 2.0 | 50.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |                             | % Moisture      | 17  | 16  | ND   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |                             | Location        |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Phenol                      |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | bis(2-Chloroethyl)ether     |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Chlorophenol              |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,3-Dichlorobenzene         |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,4-Dichlorobenzene         |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Benzyl Alcohol              |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,2-Dichlorobenzene         |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Methylphenol              |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | bis(2-Chloroisopropyl)ether |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Methylphenol              |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | N-Nitroso-di-n-propylamine  |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Hexachloroethane            |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Nitrobenzene                |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Isophorone                  |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Nitrophenol               |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4-Dimethylphenol          |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | Benzoic Acid                |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | bis(2-Chloroethoxy)methane  |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4-Dichlorophenol          |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 1,2,4-Trichlorobenzene      |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Naphthalene                 |                 |     | 55  | J    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Chloroaniline             |                 |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

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DATA SUMMARY FORM: B N A S 1

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8-2/9/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No. | CF              | sed. | sed | sed | sed | sed | sed. | sed | sed | sed |
|------------|-----------------|------|-----|-----|-----|-----|------|-----|-----|-----|
|            | Dilution Factor | 1.0  | 2.0 | 2.0 | 1.0 | 1.0 | 1.0  | 4.0 | 2.0 | 2.0 |
| % Moisture |                 | 46   | 56  | 50  | 44  | 50  | 53   | 33  | 26  | 62  |
| Location   |                 |      |     |     |     |     |      |     |     |     |
| COMPOUND   |                 |      |     |     |     |     |      |     |     |     |

| CRQL | COMPOUND                    | SW-1 | SW-2 | SW-3 | SW-4 | SW-5 | SW-6  | SW-7  | SW-8  | SW-9  |
|------|-----------------------------|------|------|------|------|------|-------|-------|-------|-------|
| 330  | Phenol                      |      |      |      |      |      |       |       |       |       |
| 330  | bis(2-Chloroethyl)ether     |      |      |      |      |      |       |       |       |       |
| 330  | 2-Chlorophenol              |      |      |      |      |      |       |       |       |       |
| 330  | 1,3-Dichlorobenzene         |      |      |      |      |      |       |       |       |       |
| 330  | 1,4-Dichlorobenzene         |      |      |      |      |      |       |       |       |       |
| 330  | Benzyl Alcohol              |      |      |      |      |      |       |       |       |       |
| 330  | 1,2-Dichlorobenzene         |      |      |      |      |      |       |       |       |       |
| 330  | 2-Methylphenol              |      |      |      |      |      |       |       |       |       |
| 330  | bis(2-Chloroisopropyl)ether |      |      |      |      |      |       |       |       |       |
| 330  | 4-Methylphenol              |      |      |      |      |      |       |       |       |       |
| 330  | N-Nitroso-di-n-propylamine  |      |      |      |      |      |       |       |       |       |
| 330  | Hexachloroethane            |      |      |      |      |      |       |       |       |       |
| 330  | Nitrobenzene                |      |      |      |      |      |       |       |       |       |
| 330  | Isophorone                  |      |      |      |      |      |       |       |       |       |
| 330  | 2-Nitrophenol               |      |      |      |      |      |       |       |       |       |
| 330  | 2,4-Dimethylphenol          |      |      |      |      |      |       |       |       |       |
| 1600 | Benzoic Acid                |      |      |      |      |      |       |       |       |       |
| 330  | bis(2-Chloroethoxy)methane  |      |      |      |      |      |       |       |       |       |
| 330  | 2,4-Dichlorophenol          |      |      |      |      |      |       |       |       |       |
| 330  | 1,2,4-Trichlorobenzene      |      |      |      |      |      |       |       |       |       |
| 330  | Naphthalene                 |      |      |      |      |      | 100 J | 160 J | 140 J | 160 J |
| 330  | 4-Chloroaniline             |      |      |      |      |      |       |       |       |       |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S 1

Site Name: GOLDEN ROAD

SOIL SAMPLES  
(ug/Kg)

Case #: <sup>9000.406</sup>9000.426 Sampling Date(s): 2/6-2/8-2/9/90  
<sup>9000.390</sup>2/12/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| Sample No.      | SED-10 | SED-11 | SED-11MS | SED-11MSO | SED-12 | SED-13         | SED-14 | SED-15 |
|-----------------|--------|--------|----------|-----------|--------|----------------|--------|--------|
| Dilution Factor | 2.0    | 1.0    | 1.0      | 1.0       | 1.0    | -              | 1.0    | 1.0    |
| % Moisture      | 40     | 8      | 8        | 8         | 52     | -              | 65     | 54     |
| Location        |        |        |          |           |        | NOT<br>SAMPLED |        |        |

| CRQL | COMPOUND                    | SED-10 | SED-11 | SED-11MS | SED-11MSO | SED-12 | SED-13 | SED-14 | SED-15 |
|------|-----------------------------|--------|--------|----------|-----------|--------|--------|--------|--------|
| 330  | Phenol                      |        |        |          |           |        |        |        |        |
| 330  | bis(2-Chloroethyl)ether     |        |        |          |           |        |        |        |        |
| 330  | 2-Chlorophenol              |        |        |          |           |        |        |        |        |
| 330  | 1,3-Dichlorobenzene         |        |        |          |           |        |        |        |        |
| 330  | 1,4-Dichlorobenzene         |        |        |          |           |        |        |        |        |
| 330  | Benzyl Alcohol              |        |        |          |           |        |        |        |        |
| 330  | 1,2-Dichlorobenzene         |        |        |          |           |        |        |        |        |
| 330  | 2-Methylphenol              |        |        |          |           |        |        |        |        |
| 330  | bis(2-Chloroisopropyl)ether |        |        |          |           |        |        |        |        |
| 330  | 4-Methylphenol              |        |        |          |           |        |        |        |        |
| 330  | N-Nitroso-di-n-propylamine  |        |        |          |           |        |        |        |        |
| 330  | Hexachloroethane            |        |        |          |           |        |        |        |        |
| 330  | Nitrobenzene                |        |        |          |           |        |        |        |        |
| 330  | Isophorone                  |        |        |          |           |        |        |        |        |
| 330  | 2-Nitrophenol               |        |        |          |           |        |        |        |        |
| 330  | 2,4-Dimethylphenol          |        |        |          |           |        |        |        |        |
| 1500 | Benzoic Acid                |        |        |          |           |        |        |        |        |
| 330  | bis(2-Chloroethoxy)methane  |        |        |          |           |        |        |        |        |
| 330  | 2,4-Dichlorophenol          |        |        |          |           |        |        |        |        |
| 330  | 1,2,4-Trichlorobenzene      |        |        |          |           |        |        |        |        |
| 330  | Naphthalene                 | 210 J  |        |          |           |        |        |        |        |
| 330  | 4-Chloroaniline             |        |        |          |           |        |        |        |        |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S 2

Site Name: Golden Road

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| CRQL | COMPOUND | Sample No.                 | 51   | 52   | 53   | 54  | 55   | 56   | 57    | 58  | 59   |     |
|------|----------|----------------------------|------|------|------|-----|------|------|-------|-----|------|-----|
|      |          | Dilution Factor            | 10.0 | 2.0  | 2.0  | 2.0 | 2.0  | 2.0  | 2.0   | 2.0 | 2.0  | 2.0 |
|      |          | % Moisture                 | 11   | 17   | 11   | 21  | 24   | 8    | 16    | 11  | 17   |     |
|      |          | Location                   |      |      |      |     |      |      |       |     |      |     |
|      | 330      | Hexachlorobutadiene        |      |      |      |     |      |      |       |     |      |     |
|      | 330      | 4-Chloro-3-methylphenol    |      |      |      |     |      |      |       |     |      |     |
|      | 330      | 2-Methylnaphthalene        |      | 79 J | 62 J |     | 67 J | 50 J | 170 J |     | 43 J |     |
|      | 330      | Hexachlorocyclopentadiene  |      |      |      |     |      |      |       |     |      |     |
|      | 330      | 2,4,6-Trichlorophenol      |      |      |      |     |      |      |       |     |      |     |
|      | 1600     | 2,4,5-Trichlorophenol      |      |      |      |     |      |      |       |     |      |     |
|      | 330      | 2-Chloronaphthalene        |      |      |      |     |      |      |       |     |      |     |
|      | 1600     | 2-Nitroaniline             |      |      |      |     |      |      |       |     |      |     |
|      | 330      | Dimethylphthalate          |      |      |      |     |      |      |       |     |      |     |
|      | 330      | Acenaphthylene             |      |      |      |     |      |      |       |     |      |     |
|      | 330      | 2,6-Dinitrotoluene         |      |      |      |     |      |      |       |     |      |     |
|      | 1600     | 3-Nitroaniline             |      |      |      |     |      |      |       |     |      |     |
|      | 330      | Acenaphthene               |      |      |      |     |      |      |       |     |      |     |
|      | 1600     | 2,4-Dinitrophenol          |      |      |      |     |      |      |       |     |      |     |
|      | 1600     | 4-Nitrophenol              |      |      |      |     |      |      |       |     |      |     |
|      | 330      | Dibenzofuran               |      |      |      |     |      |      |       |     |      |     |
|      | 330      | 2,4-Dinitrotoluene         |      |      |      |     |      |      |       |     |      |     |
|      | 330      | Diethylphthalate           |      | 1700 |      |     |      |      |       |     |      |     |
|      | 330      | 4-Chlorophenyl-phenylether |      |      |      |     |      |      |       |     |      |     |
|      | 330      | Fluorene                   |      |      |      |     |      |      |       |     |      |     |
|      | 1600     | 4-Nitroaniline             |      |      |      |     |      |      |       |     |      |     |
|      | 1600     | 4,6-Dinitro-2-methylphenol |      |      |      |     |      |      |       |     |      |     |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S 2

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| Sample No. | Dilution Factor            | % Moisture | Location |    |   |    |   |  |  |  |  |  |  |  |  |  |
|------------|----------------------------|------------|----------|----|---|----|---|--|--|--|--|--|--|--|--|--|
| S10        | 2.0                        | 14         |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| S11        | 2.0                        | 25         |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| CRQL       | COMPOUND                   |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | Hexachlorobutadiene        |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | 4-Chloro-3-methylphenol    |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | 2-Methylnaphthalene        |            |          | 46 | J | 71 | J |  |  |  |  |  |  |  |  |  |
| 330        | Hexachlorocyclopentadiene  |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | 2,4,6-Trichlorophenol      |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 1600       | 2,4,5-Trichlorophenol      |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | 2-Chloronaphthalene        |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 1600       | 2-Nitroaniline             |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | Dimethylphthalate          |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | Acenaphthylene             |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | 2,6-Dinitrotoluene         |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 1600       | 3-Nitroaniline             |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | Acenaphthene               |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 1600       | 2,4-Dinitrophenol          |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 1600       | 4-Nitrophenol              |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | Dibenzofuran               |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | 2,4-Dinitrotoluene         |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | Diethylphthalate           |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | 4-Chlorophenyl-phenylether |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 330        | Fluorene                   |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 1600       | 4-Nitroaniline             |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |
| 1600       | 4,6-Dinitro-2-methylphenol |            |          |    |   |    |   |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S

Site Name: Golden Road Debris Site SOIL SAMPLES (ug/Kg)

Case #: 872.002 Sampling Date(s): July 23, 1989

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| CRQL | COMPOUND                   | Sample No. | Dilution Factor | % Moisture | Location |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|----------------------------|------------|-----------------|------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                            | GW 7       | 2.0             | 11         | 17-19 ft |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Hexachlorobutadiene        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Chloro-3-methylphenol    |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Methylnaphthalene        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Hexachlorocyclopentadiene  |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4,6-Trichlorophenol      |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 2,4,5-Trichlorophenol      |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Chloronaphthalene        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 2-Nitroaniline             |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Dimethylphthalate          |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Acenaphthylene             |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,6-Dinitrotoluene         |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 3-Nitroaniline             |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Acenaphthene               |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 2,4-Dinitrophenol          |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 4-Nitrophenol              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Dibenzofuran               |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4-Dinitrotoluene         |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Diethylphthalate           |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Chlorophenyl-phenylether |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Fluorene                   |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 4-Nitroaniline             |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 4,6-Dinitro-2-methylphenol |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

Site Name: GOLDEN ROAD

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| CRQL | COMPOUND                   | Sample No.      | W-1  | W-2  | W-3  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|----------------------------|-----------------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                            | Dilution Factor | 2.0  | 2.0  | 50.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | % Moisture                 | 17              | 16   | N D  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Location                   |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Hexachlorobutadiene        |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Chloro-3-methylphenol    |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Methylnaphthalene        |                 | 53 J | 81 J |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Hexachlorocyclopentadiene  |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4,6-Trichlorophenol      |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 2,4,5-Trichlorophenol      |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Chloronaphthalene        |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 2-Nitroaniline             |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Dimethylphthalate          |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Acenaphthylene             |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,6-Dinitrotoluene         |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 3-Nitroaniline             |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Acenaphthene               |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 2,4-Dinitrophenol          |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 4-Nitrophenol              |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Dibenzofuran               |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4-Dinitrotoluene         |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Diethylphthalate           |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Chlorophenyl-phenylether |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Fluorene                   |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 4-Nitroaniline             |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 4,6-Dinitro-2-methylphenol |                 |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

Site Name: Golden Road

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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|                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Sample No.      | <u>L-2</u> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dilution Factor | <u>2.0</u> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| % Moisture      | <u>42</u>  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location        |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CRQL            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| CRQL | COMPOUND                   |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|----------------------------|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 330  | Hexachlorobutadiene        |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Chloro-3-methylphenol    |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Methylnaphthalene        | <u>160 J</u> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Hexachlorocyclopentadiene  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4,6-Trichlorophenol      |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 2,4,5-Trichlorophenol      |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2-Chloronaphthalene        |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 2-Nitroaniline             |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Dimethylphthalate          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Acenaphthylene             |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,6-Dinitrotoluene         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 3-Nitroaniline             |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Acenaphthene               |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 2,4-Dinitrophenol          |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 4-Nitrophenol              |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Dibenzofuran               | <u>59 J</u>  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 2,4-Dinitrotoluene         |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Diethylphthalate           |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Chlorophenyl-phenylether |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Fluorene                   |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 4-Nitroaniline             |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 4,6-Dinitro-2-methylphenol |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S 2

Site Name: Golden Rd

SOIL SAMPLES  
(ug/Kg)

Case #: 9000-406 Sampling Date(s): 2/8-2/9/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture) / 100)

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|                 | GF   | sed  | sed  | sed  | Sed  | sed  | sed  | sed  | sed  | sed |
|-----------------|------|------|------|------|------|------|------|------|------|-----|
| Sample No.      | SW-1 | SW-2 | SW-3 | SW-4 | SW-5 | SW-6 | SW-7 | SW-8 | SW-9 |     |
| Dilution Factor | 1.0  | 2.0  | 2.0  | 1.0  | 1.0  | 1.0  | 4.0  | 2.0  |      |     |
| % Moisture      | 46   | 56   | 50   | 44   | 50   | 53   | 33   | 26   |      |     |
| Location        |      |      |      |      |      |      |      |      |      |     |
| COMPOUND        |      |      |      |      |      |      |      |      |      |     |

| CRQL | COMPOUND                   | SW-1 | SW-2 | SW-3 | SW-4 | SW-5 | SW-6  | SW-7 | SW-8  | SW-9  |
|------|----------------------------|------|------|------|------|------|-------|------|-------|-------|
| 330  | Hexachlorobutadiene        |      |      |      |      |      |       |      |       |       |
| 330  | 4-Chloro-3-methylphenol    |      |      |      |      |      |       |      |       |       |
| 330  | 2-Methylnaphthalene        |      |      |      |      |      | 120 J | 94 J | 160 J | 210 J |
| 330  | Hexachlorocyclopentadiene  |      |      |      |      |      |       |      |       |       |
| 330  | 2,4,6-Trichlorophenol      |      |      |      |      |      |       |      |       |       |
| 1600 | 2,4,5-Trichlorophenol      |      |      |      |      |      |       |      |       |       |
| 330  | 2-Chloronaphthalene        |      |      |      |      |      |       |      |       |       |
| 1600 | 2-Nitroaniline             |      |      |      |      |      |       |      |       |       |
| 330  | Dimethylphthalate          |      |      |      |      |      |       |      |       |       |
| 330  | Acenaphthylene             |      |      |      |      |      |       |      |       |       |
| 330  | 2,6-Dinitrotoluene         |      |      |      |      |      |       |      |       |       |
| 1600 | 3-Nitroaniline             |      |      |      |      |      |       |      |       |       |
| 330  | Acenaphthene               |      |      |      |      |      |       | 51 J | 100 J | 120 J |
| 1600 | 2,4-Dinitrophenol          |      |      |      |      |      |       |      |       |       |
| 1600 | 4-Nitrophenol              |      |      |      |      |      |       |      |       |       |
| 330  | Dibenzofuran               |      |      |      |      |      |       |      | 74 J  | 110 J |
| 330  | 2,4-Dinitrotoluene         |      |      |      |      |      |       |      |       |       |
| 330  | Diethylphthalate           |      |      |      |      |      |       |      |       |       |
| 330  | 4-Chlorophenyl phenylether |      |      |      |      |      |       |      |       |       |
| 330  | Fluorene                   |      |      |      |      |      |       |      | 200 J |       |
| 1600 | 4-Nitroaniline             |      |      |      |      |      |       |      |       |       |
| 1600 | 4,6-Dinitro-2-methylphenol |      |      |      |      |      |       |      |       |       |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS



DATA SUMMARY FORM: B N A S 2

Site Name: GOLDEN ROAD

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.320 Sampling Date(s): 2/6-2/8-2/9-  
2/21/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No.      | SED-10                     | SED-11 | SED-11MS | SED-11MSD | SED-12 | SED-13      | SED-14 | SED-15 |  |
|-----------------|----------------------------|--------|----------|-----------|--------|-------------|--------|--------|--|
| Dilution Factor | 2.0                        | 1.0    | 1.0      | 1.0       | 1.0    | =           | 1.0    | 1.0    |  |
| % Moisture      | 40                         | 8      | 8        | 8         | 52     | =           | 65     | 54     |  |
| Location        |                            |        |          |           |        | NOT SAMPLED |        |        |  |
| CRQL            | COMPOUND                   |        |          |           |        |             |        |        |  |
| 330             | Hexachlorobutadiene        |        |          |           |        |             |        |        |  |
| 330             | 4-Chloro-3-methylphenol    |        |          |           |        |             |        |        |  |
| 330             | 2-Methylnaphthalene        | 290 J  |          |           |        |             |        |        |  |
| 330             | Hexachlorocyclopentadiene  |        |          |           |        |             |        |        |  |
| 330             | 2,4,6-Trichlorophenol      |        |          |           |        |             |        |        |  |
| 1600            | 2,4,5-Trichlorophenol      |        |          |           |        |             |        |        |  |
| 330             | 2-Chloronaphthalene        |        |          |           |        |             |        |        |  |
| 1600            | 2-Nitroaniline             |        |          |           |        |             |        |        |  |
| 330             | Dimethylphthalate          |        |          |           |        |             |        |        |  |
| 330             | Acenaphthylene             | 130 J  |          |           |        |             |        |        |  |
| 330             | 2,6-Dinitrotoluene         |        |          |           |        |             |        |        |  |
| 1600            | 3-Nitroaniline             |        |          |           |        |             |        |        |  |
| 330             | Acenaphthene               |        |          |           |        |             |        |        |  |
| 1600            | 2,4-Dinitrophenol          |        |          |           |        |             |        |        |  |
| 1600            | 4-Nitrophenol              |        |          |           |        |             |        |        |  |
| 330             | Dibenzofuran               | 110 J  |          |           |        |             |        |        |  |
| 330             | 2,4-Dinitrotoluene         |        |          |           |        |             |        |        |  |
| 330             | Diethylphthalate           |        |          |           |        |             |        |        |  |
| 330             | 4-Chlorophenyl-phenylether |        |          |           |        |             |        |        |  |
| 330             | Fluorene                   | 83 J   |          |           |        |             |        |        |  |
| 1600            | 4-Nitroaniline             |        |          |           |        |             |        |        |  |
| 1600            | 4,6-Dinitro-2-methylphenol |        |          |           |        |             |        |        |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S

3

Site Name: Gold Leaf Road

Case #: 9200-406 Sampling Date(s): 8/8/90

To calculate sample quantitation limit:

(CRQL \* Dilution Factor) / ((100 - % moisture)/10)

| CRQL | COMPOUND                   | Sample No. | Dilution Factor | % Moisture | Location |
|------|----------------------------|------------|-----------------|------------|----------|
| 330  | N Nitrosodiphenylamine     | 1-2        | 2.0             | 42         |          |
| 330  | 4-Bromophenyl phenylether  |            |                 |            |          |
| 330  | Hexachlorobenzene          |            |                 |            |          |
| 1600 | Pentachlorophenol          | 490 I      |                 |            |          |
| 330  | Phenanthrene               | 98 I       |                 |            |          |
| 330  | Anthracene                 | 97 I       |                 |            |          |
| 330  | Di n butylphthalate        | 600 I      |                 |            |          |
| 330  | Fluoranthene               | 550 I      |                 |            |          |
| 330  | Pyrene                     |            |                 |            |          |
| 330  | Butylbenzylphthalate       |            |                 |            |          |
| 1600 | 3,3 Dichlorobenzidine      |            |                 |            |          |
| 330  | Benzo(a)anthracene         | 400 I      |                 |            |          |
| 330  | Chrysene                   | 500 I      |                 |            |          |
| 330  | bis(2-Ethylhexyl)phthalate | 1100 I     |                 |            |          |
| 330  | Di-n-octylphthalate        | 740 I      |                 |            |          |
| 330  | Benzo(b)fluoranthene       |            |                 |            |          |
| 330  | Benzo(k)fluoranthene       | 450 I      |                 |            |          |
| 330  | Benzo(a)pyrene             | 330 I      |                 |            |          |
| 330  | Indeno(1,2,3-cd)pyrene     | 88 I       |                 |            |          |
| 330  | Dibenz(a,h)anthracene      | 330 I      |                 |            |          |
| 330  | Benzo(a,h)perylene         |            |                 |            |          |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITION

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Site Name: Golden Road

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| Sample No.      | W1                         | W2  | W-3  |     |    |  |  |  |  |  |  |  |  |  |  |
|-----------------|----------------------------|-----|------|-----|----|--|--|--|--|--|--|--|--|--|--|
| Dilution Factor | 2.0                        | 2.0 | 50.0 |     |    |  |  |  |  |  |  |  |  |  |  |
| % Moisture      | 17                         | 16  | ND   |     |    |  |  |  |  |  |  |  |  |  |  |
| Location        |                            |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| CRQL            | COMPOUND                   |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | N Nitrosodiphenylamine     |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | 4-Bromophenyl phenylether  |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Hexachlorobenzene          |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 1600            | Pentachlorophenol          |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Phenanthrene               |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Anthracene                 |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Di-n-butylphthalate        |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Fluoranthene               |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Pyrene                     |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Butylbenzylphthalate       |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 1600            | 3,3 Dichlorobenzidine      |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Benzo(a)anthracene         |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Chrysene                   |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | bis(2-Ethylhexyl)phthalate | 240 | BJ   | 260 | BJ |  |  |  |  |  |  |  |  |  |  |
| 330             | Di-n-octylphthalate        |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Benzo(b)fluoranthene       |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Benzo(k)fluoranthene       |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Benzo(a)pyrene             |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Indeno(1,2,3-cd)pyrene     |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Dibenz(a,h)anthracene      |     |      |     |    |  |  |  |  |  |  |  |  |  |  |
| 330             | Benzo(g,h,i)perylene       |     |      |     |    |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITION:

DATA SUMMARY FORM: B N A S

3

Page \_\_\_\_ of \_\_\_\_

Site Name: Golden Road Disposal SOIL SAMPLES  
(ug/Kg)

Case #: 872.002 Sampling Date(s): Aug 23, 1989

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| CRQL | COMPOUND                   | Sample No. | Dilution Factor | % Moisture | Location |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|----------------------------|------------|-----------------|------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                            | GW-7       | 2.0             | 11         | 17-19ft  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | N-Nitrosodiphenylamine     |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | 4-Bromophenyl-phenylether  |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Hexachlorobenzene          |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | Pentachlorophenol          |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Phenanthrene               |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Anthracene                 |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Di-n-butylphthalate        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Fluoranthene               |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Pyrene                     |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Butylbenzylphthalate       |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600 | 3,3-Dichlorobenzidine      |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Benzo(a)anthracene         |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Chrysene                   |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | bis(2-Ethylhexyl)phthalate |            |                 |            | 140 BT   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Di-n-octylphthalate        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Benzo(b)fluoranthene       |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Benzo(k)fluoranthene       |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Benzo(a)pyrene             |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Indeno(1,2,3-cd)pyrene     |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Dibenz(a,h)anthracene      |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330  | Benzo(a,h)perylene         |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

F-50

DATA SUMMARY FORM: B N A S 3

Site Name: Golden Road Airport Site

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No. | Dilution Factor            | % Moisture | Location | S1   | S2  | S3  | S4  | S5  | S6  | S7  | S8  | S9  |
|------------|----------------------------|------------|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                            |            |          | 10.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
|            |                            |            |          | 11   | 17  | 11  | 21  | 24  | 8   | 16  | 11  | 17  |
| CRQL       | COMPOUND                   |            |          |      |     |     |     |     |     |     |     |     |
| 330        | N-Nitrosodiphenylamine     |            |          |      |     |     |     |     |     |     |     |     |
| 330        | 4-Bromophenyl-phenylether  |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Hexachlorobenzene          |            |          |      |     |     |     |     |     |     |     |     |
| 1600       | Pentachlorophenol          |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Phenanthrene               |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Anthracene                 |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Di-n-butylphthalate        |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Fluoranthene               |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Pyrene                     |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Butylbenzylphthalate       |            |          |      |     |     |     |     |     |     |     |     |
| 1600       | 3,3-Dichlorobenzidine      |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Benzo(a)anthracene         |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Chrysene                   |            |          |      |     |     |     |     |     |     |     |     |
| 330        | bis(2-Ethylhexyl)phthalate |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Di-n-octylphthalate        |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Benzo(b)fluoranthene       |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Benzo(k)fluoranthene       |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Benzo(a)pyrene             |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Indeno(1,2,3-cd)pyrene     |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Dibenz(a,h)anthracene      |            |          |      |     |     |     |     |     |     |     |     |
| 330        | Benzo(g,h,i)perylene       |            |          |      |     |     |     |     |     |     |     |     |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: B N A S

3

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No. | Dilution Factor | % Moisture | Location | CRQL   | COMPOUND                   |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|-----------------|------------|----------|--------|----------------------------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| S10        | 2.0             | 14         |          |        |                            |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| S11        | 2.0             | 25         |          |        |                            |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | N-Nitrosodiphenylamine     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | 4-Bromophenyl-phenylether  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Hexachlorobenzene          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600       |                 |            |          |        | Pentachlorophenol          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          | 97 J   | Phenanthrene               | 52 J   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Anthracene                 |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          | 150 J  | Di-n-butylphthalate        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          | 59 J   | Fluoranthene               |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          | 84 J   | Pyrene                     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Butylbenzylphthalate       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1600       |                 |            |          |        | 3,3-Dichlorobenzidine      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Benzo(a)anthracene         |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Chrysene                   |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          | 240 BT | bis(2-Ethylhexyl)phthalate | 290 BT |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Di-n-octylphthalate        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Benzo(b)fluoranthene       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Benzo(k)fluoranthene       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Benzo(a)pyrene             |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Indeno(1,2,3-cd)pyrene     |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Dibenz(a,h)anthracene      |        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 330        |                 |            |          |        | Benzo(g,h,i)perylene       |        |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

Site Name: Golden Rd.

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8 - 2/9/90

To calculate sample quantitation limit:  
(CRQL Dilution Factor) / ((100 - % moisture)/10)

| CRQL | COMPOUND                   | Sample No. |        |        |        |        |        |         |        |         |  |
|------|----------------------------|------------|--------|--------|--------|--------|--------|---------|--------|---------|--|
|      |                            | SW-1       | SW-2   | SW-3   | SW-4   | SW-5   | SW-6   | SW-7    | SW-8   | SW-9    |  |
|      | Dilution Factor            | 1.0        | 2.0    | 2.0    | 1.0    | 1.0    | 1.0    | 4.0     | 2.0    | 2.0     |  |
|      | % Moisture                 | 46         | 56     | 50     | 44     | 50     | 53     | 23      | 26     | 62      |  |
|      | Location                   |            |        |        |        |        |        |         |        |         |  |
|      |                            |            |        |        |        |        |        |         |        |         |  |
| 330  | N Nitrosodiphenylamine     |            |        |        |        |        |        |         |        |         |  |
| 330  | 4-Bromophenyl phenylether  |            |        |        |        |        |        |         |        |         |  |
| 330  | Hexachlorobenzene          |            |        |        |        |        |        |         |        |         |  |
| 1600 | Pentachlorophenol          |            |        |        |        |        |        |         |        |         |  |
| 330  | Phenanthrene               |            |        |        |        |        | 570 J  | 1200 J  | 1500   | 1300 J  |  |
| 330  | Anthracene                 |            |        |        |        |        | 120 J  | 140 J   | 250 J  | 250 J   |  |
| 330  | Di-n-butylphthalate        |            |        |        |        |        |        | 99 BJ   | 180 BJ |         |  |
| 330  | Fluoranthene               | 82 J       | 100 J  |        |        |        | 1500   | 4800    | 2100   | 2900    |  |
| 330  | Pyrene                     | 85 J       | 83 J   |        |        |        | 1300   | 5100    | 2500   | 2500    |  |
| 330  | Butylbenzylphthalate       |            |        |        |        |        |        |         |        |         |  |
| 1600 | 3,3 Dichlorobenzidine      |            |        |        |        |        |        |         |        |         |  |
| 330  | Benzo(a)anthracene         |            |        |        |        |        | 630 J  | 4600    | 1900   | 1600 J  |  |
| 330  | Chrysene                   | 78 J       |        | 78 J   |        |        | 810    | 7400    | 3200   | 2800    |  |
| 330  | bis(2-Ethylhexyl)phthalate | 1100 B     | 1600 B | 1700 B | 1500 B | 1800 B | 1800 B | 1400 BJ | 2000 B | 2400 B  |  |
| 330  | Di-n-octylphthalate        |            |        |        |        |        |        |         |        |         |  |
| 330  | Benzo(b)fluoranthene       | 130 J      | 92 J   | 160 J  |        |        | 1200   | 15,000  | 5800   | 3100    |  |
| 330  | Benzo(k)fluoranthene       |            |        |        |        |        |        |         |        |         |  |
| 330  | Benzo(a)pyrene             | 68 J       |        | 71 J   |        |        | 570 J  | 6900    | 3000   | 11600 J |  |
| 330  | Indeno(1,2,3-cd)pyrene     |            |        | 77 J   |        |        | 360 J  | 8100    | 2900   | 1000 J  |  |
| 330  | Dibenz(a,h)anthracene      |            |        |        |        |        | 100 J  | 2500    | 970    | 350 J   |  |
| 330  | Benzo(a,h)perylene         |            |        | 77 J   |        |        | 300 J  | 8300    | 3100   | 1000 J  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITION

Site Name: Golden Road

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.380 Sampling Date(s): 2/6/90

To calculate sample quantitation limit:  
(CROL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No.                 | Dilution Factor | % Moisture | Location | Sed   |       | Sed     |          | Sed   |             | Sed   |       | Sed    |  |
|----------------------------|-----------------|------------|----------|-------|-------|---------|----------|-------|-------------|-------|-------|--------|--|
|                            |                 |            |          | SW-10 | SW-11 | SW-11MS | SW-11MSD | SW-12 | SW-13       | SW-14 | SW-15 |        |  |
|                            | 2.0             | 40         |          |       | 1.0   | 1.0     | 1.0      | 1.0   |             |       | 1.2   | 1.2    |  |
|                            |                 |            |          |       | 8     | 8       | 8        | 52    |             |       | 5     | 5      |  |
|                            |                 |            |          |       |       |         |          |       | NOT Sampled |       |       |        |  |
| COMPOUND                   |                 |            |          |       |       |         |          |       |             |       |       |        |  |
| N-Nitrosodiphenylamine     |                 |            |          |       |       |         |          |       |             |       |       |        |  |
| 4-Bromophenyl phenylether  |                 |            |          |       |       |         |          |       |             |       |       |        |  |
| Hexachlorobenzene          |                 |            |          |       |       |         |          |       |             |       |       |        |  |
| Pentachlorophenol          |                 |            |          |       |       |         |          |       |             |       |       |        |  |
| Phenanthrene               | 1200            |            |          | 330 J | 290 J | 200 J   |          |       |             |       |       |        |  |
| Anthracene                 | 210 J           |            |          | 220 J | 65 J  | 69 J    |          |       |             |       |       |        |  |
| Di n butylphthalate        |                 |            |          |       |       |         |          |       |             |       |       |        |  |
| Fluoranthene               | 2500            |            |          | 2600  | 710   | 420     |          |       |             |       |       |        |  |
| Pyrene                     | 2500            |            |          | 3300  |       |         |          |       |             |       |       |        |  |
| Butylbenzylphthalate       |                 |            |          |       |       |         |          |       |             |       |       |        |  |
| 3,3 Dichlorobenzidine      |                 |            |          |       |       |         |          |       |             |       |       |        |  |
| Benzo(a)anthracene         | 1400            |            |          | 1200  | 570   | 440     |          |       |             |       |       |        |  |
| Chrysene                   | 2000            |            |          | 1500  | 840   | 660     |          |       |             |       |       |        |  |
| bis(2-Ethylhexyl)phthalate | 1600 B          |            |          | 850 B | 830 B | 860 B   | 1500 B   |       |             |       | 700 B | 1100 B |  |
| Di n-octylphthalate        |                 |            |          |       |       |         |          |       |             |       |       |        |  |
| Benzo(b)fluoranthene       | 2500            |            |          | 2300  | 1000  | 1000    |          |       |             |       |       |        |  |
| Benzo(k)fluoranthene       |                 |            |          |       |       |         |          |       |             |       |       |        |  |
| Benzo(a)pyrene             | 1400            |            |          | 760   | 530   | 650     |          |       |             |       |       |        |  |
| Indeno(1,2,3-cd)pyrene     | 910 J           |            |          | 540   | 390 J | 390     |          |       |             |       |       |        |  |
| Dibenz(a,h)anthracene      | 280 J           |            |          | 140 J | 100 J | 150 J   |          |       |             |       |       |        |  |
| Benzo(a,h)perylene         | 790 J           |            |          | 470   | 300 J | 310 J   |          |       |             |       |       |        |  |

CROL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS



DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Golden Road Disposal site

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8-2/9/90

To calculate sample quantitation limit:  
(CROL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No. | Dilution Factor     | % Moisture | Location | Soil Samples |      |      |      |      |      |      |      |      |     |     |
|------------|---------------------|------------|----------|--------------|------|------|------|------|------|------|------|------|-----|-----|
|            |                     |            |          | SW-1         | SW-2 | SW-3 | SW-4 | SW-5 | SW-6 | SW-7 | SW-8 | SW-9 |     |     |
|            | 1.0                 | 46         |          | sed          | sed  | sed  | sed  | sed  | sed  | sed  | sed  | sed  | sed | sed |
|            |                     |            |          |              |      |      |      |      |      |      |      |      |     |     |
| CRQL       | COMPOUND            |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | alpha BHC           |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | beta-BHC            |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | delta BHC           |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Gamma BHC (Lindane) |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Heptachlor          |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Aldrin              |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Heptachlor Epoxide  |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Endosulfan I        |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 16         | Dieldrin            |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 16         | 4,4'-DDE            |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 16         | Endrin              |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 16         | Endosulfan II       |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 16         | 4,4'-DDD            |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 16         | Endosulfan Sulfate  |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 16         | 4,4'-DDT            |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Methoxychlor        |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Endrin ketone       |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Alpha-Chlordane     |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Gamma-Chlordane     |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 60         | Toxaphene           |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Aroclor-1016        |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Aroclor-1221        |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Aroclor-1232        |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Aroclor-1242        |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 0          | Aroclor-1248        |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 160        | Aroclor-1254        |            |          |              |      |      |      |      |      |      |      |      |     |     |
| 160        | Aroclor-1260        |            |          |              |      |      |      |      |      |      |      |      |     |     |

610 J

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Golden Rd

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.426 9000.406 9000.380 Sampling Date(s): 2/6/90 2/8-2/9/90 2/8/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

recycled paper

| Sample No. | Dilution Factor     | % Moisture | Location | SW-10 | SW-11 | SW-12 | SW-13       | SW-14 | SW-15 | SW-16 | SW-16MS | SW-16MSD |
|------------|---------------------|------------|----------|-------|-------|-------|-------------|-------|-------|-------|---------|----------|
|            |                     |            |          | sed   | sed   | sed   | sed         | sed   | sed   | sed   | sed     | sed      |
|            |                     |            |          | 2.0   | 5.0   | 1.0   | —           | 1.0   | 1.0   | 4.0   | 4       | 4.0      |
|            |                     |            |          | 40    | 8     | 52    | —           | 65    | 54    | 36    | 36      | 36       |
|            |                     |            |          |       |       |       | NOT SAMPLED |       |       |       |         |          |
| CRQL       | COMPOUND            |            |          |       |       |       |             |       |       |       |         |          |
| 0          | alpha-BHC           |            |          |       |       |       |             |       |       |       |         |          |
| 0          | beta-BHC            |            |          |       |       |       |             |       |       |       |         |          |
| 0          | delta-BHC           |            |          |       |       |       |             |       |       |       |         |          |
| 0          | Gamma BHC (Lindane) |            |          |       |       |       |             |       |       |       |         |          |
| 0          | Heptachlor          |            |          |       |       |       |             |       |       |       |         |          |
| 0          | Aldrin              |            |          |       |       |       |             |       |       |       |         |          |
| 0          | Heptachlor Epoxide  |            |          |       |       |       |             |       |       |       |         |          |
| 0          | Endosulfan I        |            |          |       |       |       |             |       |       |       |         |          |
| 16         | Dieldrin            |            |          |       |       |       |             |       |       |       |         |          |
| 16         | 4,4'-DDE            |            |          |       |       |       |             |       |       |       |         |          |
| 16         | Endrin              |            |          |       |       |       |             |       |       |       |         |          |
| 16         | Endosulfan II       |            |          |       |       |       |             |       |       |       |         |          |
| 16         | 4,4'-DDD            |            |          |       |       |       |             |       |       |       |         |          |
| 16         | Endosulfan Sulfate  |            |          |       |       |       |             |       |       |       |         |          |
| 16         | 4,4'-DDT            |            |          |       |       |       |             |       |       |       |         |          |
| 00         | Methoxychlor        |            |          |       |       |       |             |       |       |       |         |          |
| 16         | Endrin ketone       |            |          |       |       |       |             |       |       |       |         |          |
| 00         | Alpha-Chlordane     |            |          |       |       |       |             |       |       |       |         |          |
| 50         | Gamma-Chlordane     |            |          |       |       |       |             |       |       |       |         |          |
| 100        | Toxaphene           |            |          |       |       |       |             |       |       |       |         |          |
| 00         | Aroclor-1016        |            |          |       |       |       |             |       |       |       |         |          |
| 00         | Aroclor-1221        |            |          |       |       |       |             |       |       |       |         |          |
| 00         | Aroclor-1232        |            |          |       |       |       |             |       |       |       |         |          |
| 00         | Aroclor-1242        |            |          |       |       |       |             |       |       |       |         |          |
| 00         | Aroclor-1248        |            |          |       |       |       |             |       |       |       |         |          |
| 100        | Aroclor-1254        |            |          |       |       |       |             |       |       |       |         |          |
| 100        | Aroclor-1260        |            |          |       |       |       |             |       |       |       |         |          |

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: P E S T I C I D E S A N D P C B S

Site Name: Golden Rd

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8-2/9/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| Sample No. | Dilution Factor     | % Moisture | Location | sed   |       |       |       |       |       |       |
|------------|---------------------|------------|----------|-------|-------|-------|-------|-------|-------|-------|
|            |                     |            |          | SW-17 | SW-18 | SW-19 | SW-20 | SW-21 | SW-22 | SW-23 |
|            | 2.0                 | 4.0        |          | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |       |
|            | 21                  | 34         |          | 20    | 44    | 28    | 52    | 49    |       |       |
| CRQL       | COMPOUND            |            |          |       |       |       |       |       |       |       |
| 8          | alpha-BHC           |            |          |       |       |       |       |       |       |       |
| 8          | beta-BHC            |            |          |       |       |       |       |       |       |       |
| 8          | delta-BHC           |            |          |       |       |       |       |       |       |       |
| 8          | Gamma-BHC (Lindane) |            |          |       |       |       |       |       |       |       |
| 8          | Heptachlor          |            |          |       |       |       |       |       |       |       |
| 8          | Aldrin              |            |          |       |       |       |       |       |       |       |
| 8          | Heptachlor Epoxide  |            |          |       |       |       |       |       |       |       |
| 8          | Endosulfan I        |            |          |       |       |       |       |       |       |       |
| 16         | Dieldrin            |            |          |       |       |       |       |       |       |       |
| 16         | 4,4'-DDE            |            |          |       |       |       |       |       |       |       |
| 16         | Endrin              |            |          |       |       |       |       |       |       |       |
| 16         | Endosulfan II       |            |          |       |       |       |       |       |       |       |
| 16         | 4,4'-DDD            |            |          |       |       |       |       |       |       |       |
| 16         | Endosulfan Sulfate  |            |          |       |       |       |       |       |       |       |
| 16         | 4,4'-DDT            |            |          |       |       |       |       |       |       |       |
| 80         | Methoxychlor        |            |          |       |       |       |       |       |       |       |
| 16         | Endrin ketone       |            |          |       |       |       |       |       |       |       |
| 80         | Alpha-Chlordane     |            |          |       |       |       |       |       |       |       |
| 80         | Gamma-Chlordane     |            |          |       |       |       |       |       |       |       |
| 160        | Toxaphene           |            |          |       |       |       |       |       |       |       |
| 80         | Aroclor-1016        |            |          |       |       |       |       |       |       |       |
| 80         | Aroclor-1221        |            |          |       |       |       |       |       |       |       |
| 80         | Aroclor-1232        |            |          |       |       |       |       |       |       |       |
| 80         | Aroclor-1242        |            |          |       |       |       |       |       |       |       |
| 80         | Aroclor-1248        |            |          |       |       |       |       |       |       |       |
| 100        | Aroclor-1254        |            |          |       |       |       |       |       |       |       |
| 150        | Aroclor-1260        |            |          |       |       |       |       |       |       |       |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS  
revised 12/88

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Golden Road Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: 9000.406 Sampling Date(s): 2/8/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| CRQL | COMPOUND            | Sample No. | Dilution Factor | % Moisture | Location | ecology and environment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|---------------------|------------|-----------------|------------|----------|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                     | L-2        | 1.0             | 42         |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0    | alpha BHC           |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0    | beta-BHC            |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0    | delta BHC           |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0    | Gamma-BHC (Lindane) |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0    | Heptachlor          |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0    | Aldrin              |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0    | Heptachlor Epoxide  |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0    | Endosulfan I        |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16   | Dieldrin            |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16   | 4,4'-DDE            |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16   | Endrin              |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16   | Endosulfan II       |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16   | 4,4'-DDD            |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16   | Endosulfan Sulfate  |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16   | 4,4'-DDT            |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80   | Methoxychlor        |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16   | Endrin ketone       |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80   | Alpha-Chlordane     |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80   | Gamma-Chlordane     |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160  | Toxaphene           |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80   | Aroclor-1016        |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80   | Aroclor-1221        |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80   | Aroclor-1232        |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80   | Aroclor-1242        |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80   | Aroclor-1248        |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160  | Aroclor-1254        |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160  | Aroclor-1260        |            |                 |            |          |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Golden Road Disposal site

SOIL SAMPLES  
(ug/Kg)

Case #: 872-001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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ecology and environment

| Sample No. | Dilution Factor     | % Moisture | Location | W1  | W2  | W-3 |  |  |  |  |  |  |  |
|------------|---------------------|------------|----------|-----|-----|-----|--|--|--|--|--|--|--|
|            |                     |            |          | 1.0 | 1.0 | 1.0 |  |  |  |  |  |  |  |
|            |                     | 17         |          | 16  | ND  |     |  |  |  |  |  |  |  |
| CRQL       | COMPOUND            |            |          |     |     |     |  |  |  |  |  |  |  |
| 8          | alpha BHC           |            |          |     |     |     |  |  |  |  |  |  |  |
| 8          | beta-BHC            |            |          |     |     |     |  |  |  |  |  |  |  |
| 8          | delta BHC           |            |          |     |     |     |  |  |  |  |  |  |  |
| 8          | Gamma BHC (Lindane) |            |          |     |     |     |  |  |  |  |  |  |  |
| 8          | Heptachlor          |            |          |     |     |     |  |  |  |  |  |  |  |
| 8          | Aldrin              |            |          |     |     |     |  |  |  |  |  |  |  |
| 8          | Heptachlor Epoxide  |            |          |     |     |     |  |  |  |  |  |  |  |
| 8          | Endosulfan I        |            |          |     |     |     |  |  |  |  |  |  |  |
| 16         | Dieldrin            |            |          |     |     |     |  |  |  |  |  |  |  |
| 16         | 4,4'-DDE            |            |          |     |     |     |  |  |  |  |  |  |  |
| 16         | Endrin              |            |          |     |     |     |  |  |  |  |  |  |  |
| 16         | Endosulfan II       |            |          |     |     |     |  |  |  |  |  |  |  |
| 16         | 4,4'-DDD            |            |          |     |     |     |  |  |  |  |  |  |  |
| 16         | Endosulfan Sulfate  |            |          |     |     |     |  |  |  |  |  |  |  |
| 16         | 4,4'-DDT            |            |          |     |     |     |  |  |  |  |  |  |  |
| 80         | Methoxychlor        |            |          |     |     |     |  |  |  |  |  |  |  |
| 16         | Endrin ketone       |            |          |     |     |     |  |  |  |  |  |  |  |
| 80         | Alpha-Chlordane     |            |          |     |     |     |  |  |  |  |  |  |  |
| 80         | Gamma-Chlordane     |            |          |     |     |     |  |  |  |  |  |  |  |
| 160        | Toxaphene           |            |          |     |     |     |  |  |  |  |  |  |  |
| 80         | Aroclor-1016        |            |          |     |     |     |  |  |  |  |  |  |  |
| 80         | Aroclor-1221        |            |          |     |     |     |  |  |  |  |  |  |  |
| 80         | Aroclor-1232        |            |          |     |     |     |  |  |  |  |  |  |  |
| 80         | Aroclor-1242        |            |          |     |     |     |  |  |  |  |  |  |  |
| 80         | Aroclor-1248        |            |          |     |     |     |  |  |  |  |  |  |  |
| 100        | Aroclor-1254        |            |          |     |     |     |  |  |  |  |  |  |  |
| 100        | Aroclor-1260        |            |          |     |     |     |  |  |  |  |  |  |  |

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CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: PESTICIDES AND PCBs

Site Name: Golden Road Deposit Site

SOIL SAMPLES  
(ug/Kg)

Case #: 872.001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| CRQL | COMPOUND            | Sample No. | Dilution Factor | % Moisture | Location | 51  | 52 | 53  | 54 | 55 | 56 | 57 | 58 | 59 |
|------|---------------------|------------|-----------------|------------|----------|-----|----|-----|----|----|----|----|----|----|
|      |                     |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 8    | alpha-BHC           |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 8    | beta-BHC            |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 8    | delta-BHC           |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 8    | Gamma-BHC (Lindane) |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 8    | Heptachlor          |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 8    | Aldrin              |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 8    | Heptachlor Epoxide  |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 8    | Endosulfan I        |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 16   | Dieldrin            |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 16   | 4,4'-DDE            |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 16   | Endrin              |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 16   | Endosulfan II       |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 16   | 4,4'-DDD            |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 36   | Endosulfan Sulfate  |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 36   | 4,4'-DDT            |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 80   | Methoxychlor        |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 36   | Endrin ketone       |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 80   | Alpha-Chlordane     |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 80   | Gamma-Chlordane     |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 360  | Toxaphene           |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 80   | Aroclor-1016        |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 80   | Aroclor-1221        |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 80   | Aroclor-1232        |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 80   | Aroclor-1242        |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 80   | Aroclor-1248        |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 160  | Aroclor-1254        |            |                 |            |          |     |    |     |    |    |    |    |    |    |
| 160  | Aroclor-1260        |            |                 |            |          | 810 | J  | 770 | J  |    |    |    | 45 | J  |

DATA SUMMARY FORM: PESTICIDES AND PCBs

Site Name: Golden Pond Disposal Site

SOIL SAMPLES  
(ug/Kg)

Case #: YN1000 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

| Sample No. | Dilution Factor     | % Moisture | Location | 59MS | 59MSD | S10 | S11 |  |  |  |  |  |  |  |  |  |  |  |
|------------|---------------------|------------|----------|------|-------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|
|            | 6.0                 | 18         |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
|            |                     |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| CRQL       | COMPOUND            |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 8          | alpha-BHC           |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 8          | beta-BHC            |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 8          | delta-BHC           |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 8          | Gamma-BHC (Lindane) |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 8          | Heptachlor          |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 8          | Aldrin              |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 8          | Heptachlor Epoxide  |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 8          | Endosulfan I        |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 16         | Dieldrin            |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 16         | 4,4'-DDE            |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 16         | Endrin              |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 16         | Endosulfan II       |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 16         | 4,4'-DDD            |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 16         | Endosulfan Sulfate  |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 16         | 4,4'-DDT            |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 30         | Methoxychlor        |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 16         | Endrin ketone       |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 30         | Alpha-Chlordane     |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 30         | Gamma-Chlordane     |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 160        | Toxaphene           |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 80         | Aroclor-1016        |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 80         | Aroclor-1221        |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 80         | Aroclor-1232        |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 80         | Aroclor-1242        |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 80         | Aroclor-1248        |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 160        | Aroclor-1254        |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |
| 160        | Aroclor-1260        |            |          |      |       |     |     |  |  |  |  |  |  |  |  |  |  |  |

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Golden Road Deposition Site SOIL SAMPLES (ug/Kg)

Case #: 872-002 Sampling Date(s): Aug 23, 1989

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| CRQL | COMPOUND            | Sample No. | Dilution Factor | % Moisture | Location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|---------------------|------------|-----------------|------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                     |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | alpha-BHC           | (GLW) 7    | 17-19 ft        | 11         |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | beta-BHC            |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | delta-BHC           |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Gamma-BHC (Lindane) |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Heptachlor          |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Aldrin              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Heptachlor Epoxide  |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Endosulfan I        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Dieldrin            |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | 4,4'-DDE            |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Endrin              |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Endosulfan II       |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | 4,4'-DDD            |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Endosulfan Sulfate  |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | 4,4'-DDT            |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Methoxychlor        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Endrin ketone       |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Alpha-Chlordane     |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Gamma-Chlordane     |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Toxaphene           |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Aroclor-1018        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Aroclor-1221        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Aroclor-1232        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Aroclor-1242        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Aroclor-1248        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Aroclor-1254        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      | Aroclor-1260        |            |                 |            |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE N

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DO01549

SI

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41569

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 88.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 1060          | - | *  | P  |
| 7440-36-0 | Antimony  | 13.5          | U | N  | P  |
| 7440-38-2 | Arsenic   | 2.0           | - | *  | F  |
| 7440-39-3 | Barium    | 109           | - |    | P  |
| 7440-41-7 | Beryllium | 0.45          | U |    | P  |
| 7440-43-9 | Cadmium   | 1.1           | U |    | P  |
| 7440-70-2 | Calcium   | 578           | B |    | P  |
| 7440-47-3 | Chromium  | 85.8          | - | *  | P  |
| 7440-48-4 | Cobalt    | 2.3           | U |    | P  |
| 7440-50-8 | Copper    | 40.8          | - | *N | P  |
| 7439-89-6 | Iron      | 9500          | - | *  | P  |
| 7439-92-1 | Lead      | 13.4          | - | N* | F  |
| 7439-95-4 | Magnesium | 295           | B |    | P  |
| 7439-96-5 | Manganese | 45.8          | - | N  | P  |
| 7439-97-6 | Mercury   | 0.11          | U |    | CV |
| 7440-02-0 | Nickel    | 123           | - | *  | P  |
| 7440-09-7 | Potassium | 74.8          | B |    | P  |
| 7782-49-2 | Selenium  | 1.1           | U | WN | F  |
| 7440-22-4 | Silver    | 2.3           | U |    | P  |
| 7440-23-5 | Sodium    | 36.8          | B |    | P  |
| 7440-28-0 | Thallium  | 1.1           | U |    | F  |
| 7440-62-2 | Vanadium  | 4.3           | B |    | P  |
| 7440-66-6 | Zinc      | 36.4          | - |    | P  |
|           | Cyanide   | 1.1           | U |    | C  |

4/19/25/89

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: Homogeneous

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD01549

S2

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41570

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 83.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 918           | - | *  | P  |
| 7440-36-0 | Antimony  | 14.4          | U | N  | P  |
| 7440-38-2 | Arsenic   | 1.3           | - | *  | F  |
| 7440-39-3 | Barium    | 64.3          | - | -  | P  |
| 7440-41-7 | Beryllium | 0.48          | U | -  | P  |
| 7440-43-9 | Cadmium   | 1.2           | U | -  | P  |
| 7440-70-2 | Calcium   | 1280          | - | -  | P  |
| 7440-47-3 | Chromium  | 360           | - | *  | P  |
| 7440-48-4 | Cobalt    | 2.7           | B | -  | P  |
| 7440-50-8 | Copper    | 45.0          | - | *N | P  |
| 7439-89-6 | Iron      | 10900         | - | *  | P  |
| 7439-92-1 | Lead      | 121           | - | N* | -  |
| 7439-95-4 | Magnesium | 252           | B | -  | P  |
| 7439-96-5 | Manganese | 77.4          | - | N  | P  |
| 7439-97-6 | Mercury   | 0.12          | U | -  | CV |
| 7440-02-0 | Nickel    | 261           | - | *  | P  |
| 7440-09-7 | Potassium | 73.9          | B | -  | P  |
| 7782-49-2 | Selenium  | 1.2           | U | WN | F  |
| 7440-22-4 | Silver    | 2.4           | U | -  | P  |
| 7440-23-5 | Sodium    | 77.7          | B | -  | P  |
| 7440-28-0 | Thallium  | 1.2           | U | -  | F  |
| 7440-62-2 | Vanadium  | 2.8           | B | -  | P  |
| 7440-66-6 | Zinc      | 73.1          | - | -  | P  |
|           | Cyanide   | 5.3           | - | -  | C  |

6/19/25/89

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: Amoeba

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSIS DATA SHEET

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD001549

S3

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41571

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 89.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 1700          | - | *  | P  |
| 7440-36-0 | Antimony  | 13.4          | U | N  | P  |
| 7440-38-2 | Arsenic   | 1.2           | - | *  | F  |
| 7440-39-3 | Barium    | 89.7          | - | -  | P  |
| 7440-41-7 | Beryllium | 0.45          | U | -  | P  |
| 7440-43-9 | Cadmium   | 1.1           | U | -  | P  |
| 7440-70-2 | Calcium   | 2420          | - | -  | P  |
| 7440-47-3 | Chromium  | 104           | - | *  | P  |
| 7440-48-4 | Cobalt    | 2.4           | B | -  | P  |
| 7440-50-8 | Copper    | 31.6          | - | *N | P  |
| 7439-89-6 | Iron      | 11500         | - | *  | P  |
| 7439-92-1 | Lead      | 17.9          | - | N* | F  |
| 7439-95-4 | Magnesium | 1150          | - | -  | P  |
| 7439-96-5 | Manganese | 120           | - | N  | P  |
| 7439-97-6 | Mercury   | 0.11          | U | -  | CV |
| 7440-02-0 | Nickel    | 309           | - | *  | P  |
| 7440-09-7 | Potassium | 166           | B | -  | P  |
| 7782-49-2 | Selenium  | 1.1           | U | WN | F  |
| 7440-22-4 | Silver    | 2.2           | U | -  | P  |
| 7440-23-5 | Sodium    | 68.0          | B | -  | P  |
| 7440-28-0 | Thallium  | 1.1           | U | W  | F  |
| 7440-62-2 | Vanadium  | 5.0           | B | -  | P  |
| 7440-66-6 | Zinc      | 33.9          | - | -  | P  |
|           | Cyanide   | 1.1           | U | -  | C  |

4/19/25/89

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: Homogen

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE N

54

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD01549

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41572

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 78.7

Concentration Units (ug/L or ng/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q<br>X | M<br>P |
|-----------|-----------|---------------|---|--------|--------|
| 7429-90-5 | Aluminum  | 3220          | - | *      | P      |
| 7440-36-0 | Antimony  | 15.2          | U | N      | P      |
| 7440-38-2 | Arsenic   | 2.7           | - | *      | F      |
| 7440-39-3 | Barium    | 59.7          | - |        | P      |
| 7440-41-7 | Beryllium | 0.51          | U |        | P      |
| 7440-43-9 | Cadmium   | 1.3           | U |        | P      |
| 7440-70-2 | Calcium   | 22700         | - |        | P      |
| 7440-47-3 | Chromium  | 69.6          | - | *      | P      |
| 7440-48-4 | Cobalt    | 5.1           | B |        | P      |
| 7440-50-8 | Copper    | 37.6          | - | *N     | P      |
| 7439-89-6 | Iron      | 20100         | - | *      | P      |
| 7439-92-1 | Lead      | 91.5          | - | N*     |        |
| 7439-95-4 | Magnesium | 8430          | - |        | P      |
| 7439-96-5 | Manganese | 357           | - | N      | P      |
| 7439-97-6 | Mercury   | 0.13          | U |        | CV     |
| 7440-02-0 | Nickel    | 92.2          | - | *      | P      |
| 7440-09-7 | Potassium | 479           | B |        | P      |
| 7782-49-2 | Selenium  | 1.3           | U | WN     | F      |
| 7440-22-4 | Silver    | 2.5           | U |        | P      |
| 7440-23-5 | Sodium    | 84.3          | B |        | P      |
| 7440-28-0 | Thallium  | 1.3           | U |        | F      |
| 7440-62-2 | Vanadium  | 9.2           | B |        | P      |
| 7440-66-6 | Zinc      | 68.8          | - |        | P      |
|           | Cyanide   | 1.3           | U |        | C      |

4/9/25/89

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: Homogen

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD01549

55

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41573

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 75.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q<br>X | M<br>P |
|-----------|-----------|---------------|---|--------|--------|
| 7429-90-5 | Aluminum  | 3290          |   | *      | P      |
| 7440-36-0 | Antimony  | 15.8          | U | N      | P      |
| 7440-38-2 | Arsenic   | 2.8           |   | *      | F      |
| 7440-39-3 | Barium    | 86.8          |   |        | P      |
| 7440-41-7 | Beryllium | 0.53          |   |        | P      |
| 7440-43-9 | Cadmium   | 1.3           | U |        | P      |
| 7440-70-2 | Calcium   | 19700         |   |        | P      |
| 7440-47-3 | Chromium  | 83.3          |   | *      | P      |
| 7440-48-4 | Cobalt    | 4.9           | B |        | P      |
| 7440-50-8 | Copper    | 42.0          |   | *N     | P      |
| 7439-89-6 | Iron      | 21400         |   | *      | P      |
| 7439-92-1 | Lead      | 64.7          |   | N*     | F      |
| 7439-95-4 | Magnesium | 8230          |   |        | P      |
| 7439-96-5 | Manganese | 323           |   | N      | P      |
| 7439-97-6 | Mercury   | 0.13          | U |        | CV     |
| 7440-02-0 | Nickel    | 158           |   | *      | P      |
| 7440-09-7 | Potassium | 489           | B |        | P      |
| 7782-49-2 | Selenium  | 1.3           | U | WN     | F      |
| 7440-22-4 | Silver    | 2.6           | U |        | P      |
| 7440-23-5 | Sodium    | 76.2          | B |        | P      |
| 7440-28-0 | Thallium  | 1.3           | U | W      | F      |
| 7440-62-2 | Vanadium  | 10.0          | B |        | P      |
| 7440-66-6 | Zinc      | 87.9          |   |        | P      |
|           | Cyanide   | 1.3           | U |        | C      |

4/19/25/89

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: Homogeneous

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: D001549

56

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41574

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 92.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 575           |   | *  | P  |
| 7440-36-0 | Antimony  | 13.0          | U | N  | P  |
| 7440-38-2 | Arsenic   | 1.7           |   | *  | F  |
| 7440-39-3 | Barium    | 32.3          | B |    | P  |
| 7440-41-7 | Beryllium | 0.43          | U |    | P  |
| 7440-43-9 | Cadmium   | 1.1           | U |    | P  |
| 7440-70-2 | Calcium   | 374           | B |    | P  |
| 7440-47-3 | Chromium  | 236           |   | *  | P  |
| 7440-48-4 | Cobalt    | 2.9           | B |    | P  |
| 7440-50-8 | Copper    | 33.8          |   | *N | P  |
| 7439-89-6 | Iron      | 12400         |   | *  | P  |
| 7439-92-1 | Lead      | 6.7           |   | N* | F  |
| 7439-95-4 | Magnesium | 243           | B |    | P  |
| 7439-96-5 | Manganese | 90.6          |   | N  | P  |
| 7439-97-6 | Mercury   | 0.11          | U |    | CV |
| 7440-02-0 | Nickel    | 312           |   | *  | P  |
| 7440-09-7 | Potassium | 86.5          | U |    | P  |
| 7782-49-2 | Selenium  | 1.1           | U | WN | F  |
| 7440-22-4 | Silver    | 2.2           | U |    | P  |
| 7440-23-5 | Sodium    | 43.2          | U |    | P  |
| 7440-28-0 | Thallium  | 1.1           | U |    | F  |
| 7440-62-2 | Vanadium  | 5.1           | B |    | P  |
| 7440-66-6 | Zinc      | 14.3          |   |    | P  |
|           | Cyanide   | 1.1           | U |    | C  |

6/19/25/89

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: Homogeneous

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE N

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD01549

S7

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41575

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 83.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 2300          | - | *  | P  |
| 7440-36-0 | Antimony  | 14.3          | U | N  | P  |
| 7440-38-2 | Arsenic   | 18.7          | - | *  | F  |
| 7440-39-3 | Barium    | 102           | - | -  | P  |
| 7440-41-7 | Beryllium | 0.48          | U | -  | P  |
| 7440-43-9 | Cadmium   | 1.2           | U | -  | P  |
| 7440-70-2 | Calcium   | 2850          | - | -  | P  |
| 7440-47-3 | Chromium  | 83.4          | - | *  | P  |
| 7440-48-4 | Cobalt    | 3.3           | B | -  | P  |
| 7440-50-8 | Copper    | 41.4          | - | *N | P  |
| 7439-89-6 | Iron      | 10100         | - | *  | P  |
| 7439-92-1 | Lead      | 17.1          | - | N* | F  |
| 7439-95-4 | Magnesium | 737           | B | -  | P  |
| 7439-96-5 | Manganese | 85.0          | - | N  | P  |
| 7439-97-6 | Mercury   | 0.12          | U | -  | CV |
| 7440-02-0 | Nickel    | 96.0          | - | *  | P  |
| 7440-09-7 | Potassium | 198           | B | -  | P  |
| 7782-49-2 | Selenium  | 1.2           | U | WN | F  |
| 7440-22-4 | Silver    | 2.4           | U | -  | P  |
| 7440-23-5 | Sodium    | 83.2          | B | -  | P  |
| 7440-28-0 | Thallium  | 1.2           | U | W  | F  |
| 7440-62-2 | Vanadium  | 41.9          | - | -  | P  |
| 7440-66-6 | Zinc      | 34.5          | - | -  | P  |
|           | Cyanide   | 1.2           | U | -  | C  |

6/19/25/89

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: Homog

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE N

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD01549

58

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41576

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 89.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q<br>M | M<br>P |
|-----------|-----------|---------------|---|--------|--------|
| 7429-90-5 | Aluminum  | 1150          | - | *      | P      |
| 7440-36-0 | Antimony  | 13.4          | U | N      | P      |
| 7440-38-2 | Arsenic   | 3.9           | - | *      | F      |
| 7440-39-3 | Barium    | 83.4          | - | -      | P      |
| 7440-41-7 | Beryllium | 0.45          | U | -      | P      |
| 7440-43-9 | Cadmium   | 1.1           | U | -      | P      |
| 7440-70-2 | Calcium   | 756           | B | -      | P      |
| 7440-47-3 | Chromium  | 27.9          | - | *      | P      |
| 7440-48-4 | Cobalt    | 2.2           | U | -      | P      |
| 7440-50-8 | Copper    | 19.7          | - | *N     | P      |
| 7439-89-6 | Iron      | 4970          | - | *      | P      |
| 7439-92-1 | Lead      | 10.1          | - | N*     | F      |
| 7439-95-4 | Magnesium | 694           | B | -      | P      |
| 7439-96-5 | Manganese | 44.8          | - | N      | P      |
| 7439-97-6 | Mercury   | 0.11          | U | -      | CV     |
| 7440-02-0 | Nickel    | 43.8          | - | *      | P      |
| 7440-09-7 | Potassium | 89.6          | U | -      | P      |
| 7782-49-2 | Selenium  | 1.1           | U | N      | F      |
| 7440-22-4 | Silver    | 2.2           | U | -      | P      |
| 7440-23-5 | Sodium    | 64.3          | B | -      | P      |
| 7440-28-0 | Thallium  | 1.1           | U | -      | F      |
| 7440-62-2 | Vanadium  | 4.3           | B | -      | P      |
| 7440-66-6 | Zinc      | 25.3          | - | -      | P      |
|           | Cyanide   | 1.1           | U | -      | C      |

4/19/25/89

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: Homogeneous

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO

S9

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD001549

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41577

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 82.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | $\frac{Q}{X}$ | M  |
|-----------|-----------|---------------|---|---------------|----|
| 7429-90-5 | Aluminum  | 1060          | - | *             | P  |
| 7440-36-0 | Antimony  | 14.5          | U | N             | P  |
| 7440-38-2 | Arsenic   | 8.2           | - | *             | F  |
| 7440-39-3 | Barium    | 63.1          | - | -             | P  |
| 7440-41-7 | Beryllium | 0.48          | U | -             | P  |
| 7440-43-9 | Cadmium   | 1.2           | U | -             | P  |
| 7440-70-2 | Calcium   | 912           | B | -             | P  |
| 7440-47-3 | Chromium  | 124           | - | *             | P  |
| 7440-48-4 | Cobalt    | 3.5           | B | -             | P  |
| 7440-50-8 | Copper    | 21.2          | - | *N            | P  |
| 7439-89-6 | Iron      | 7480          | - | *             | P  |
| 7439-92-1 | Lead      | 9.6           | - | N*            | F  |
| 7439-95-4 | Magnesium | 300           | B | -             | P  |
| 7439-96-5 | Manganese | 80.7          | - | N             | P  |
| 7439-97-6 | Mercury   | 0.12          | U | -             | CV |
| 7440-02-0 | Nickel    | 101           | - | *             | P  |
| 7440-09-7 | Potassium | 96.6          | U | -             | P  |
| 7782-49-2 | Selenium  | 1.2           | U | WN            | F  |
| 7440-22-4 | Silver    | 2.4           | U | -             | P  |
| 7440-23-5 | Sodium    | 48.3          | U | -             | P  |
| 7440-28-0 | Thallium  | 1.2           | U | -             | F  |
| 7440-62-2 | Vanadium  | 13.4          | - | -             | P  |
| 7440-66-6 | Zinc      | 17.8          | - | -             | P  |
|           | Cyanide   | 1.2           | U | -             | C  |

4/19/25/89

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: Homogeneous

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE N

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD01549

S 10

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41578

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 85.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 1280          |   | *  | P  |
| 7440-36-0 | Antimony  | 14.0          | U | N  | P  |
| 7440-38-2 | Arsenic   | 4.3           |   | *  | F  |
| 7440-39-3 | Barium    | 70.0          |   |    | P  |
| 7440-41-7 | Beryllium | 0.47          | U |    | P  |
| 7440-43-9 | Cadmium   | 1.2           | U |    | P  |
| 7440-70-2 | Calcium   | 7950          |   |    | P  |
| 7440-47-3 | Chromium  | 139           |   | *  | P  |
| 7440-48-4 | Cobalt    | 3.2           |   |    | P  |
| 7440-50-8 | Copper    | 18.4          |   | *N | P  |
| 7439-89-6 | Iron      | 7940          |   | *  | P  |
| 7439-92-1 | Lead      | 7.7           |   | N* | F  |
| 7439-95-4 | Magnesium | 3980          |   |    | P  |
| 7439-96-5 | Manganese | 76.7          |   | N  | P  |
| 7439-97-6 | Mercury   | 0.12          | U |    | CV |
| 7440-02-0 | Nickel    | 130           |   | *  | P  |
| 7440-09-7 | Potassium | 117           | B |    | P  |
| 7782-49-2 | Selenium  | 1.2           | U | N  | F  |
| 7440-22-4 | Silver    | 2.4           | U |    | P  |
| 7440-23-5 | Sodium    | 52.7          | B |    | P  |
| 7440-28-0 | Thallium  | 1.2           | U | W  | F  |
| 7440-62-2 | Vanadium  | 7.4           | B |    | P  |
| 7440-66-6 | Zinc      | 19.7          |   |    | P  |
|           | Cyanide   | 1.2           | U |    | C  |

4/9/25/89

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: HOMOGE

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DO01549

S11

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41579

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 75.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 2720          |   | *  | P  |
| 7440-36-0 | Antimony  | 16.0          | U | N  | P  |
| 7440-38-2 | Arsenic   | 12.2          |   | *  | F  |
| 7440-39-3 | Barium    | 78.5          |   |    | P  |
| 7440-41-7 | Beryllium | 0.53          | U |    | P  |
| 7440-43-9 | Cadmium   | 1.3           | U |    | P  |
| 7440-70-2 | Calcium   | 3030          |   |    | P  |
| 7440-47-3 | Chromium  | 46.6          |   | *  | P  |
| 7440-48-4 | Cobalt    | 4.4           | B |    | P  |
| 7440-50-8 | Copper    | 13.7          |   | *N | P  |
| 7439-89-6 | Iron      | 10300         |   | *  | P  |
| 7439-92-1 | Lead      | 9.3           |   | N* | F  |
| 7439-95-4 | Magnesium | 237           | B |    | P  |
| 7439-96-5 | Manganese | 42.6          |   | N  | P  |
| 7439-97-6 | Mercury   | 0.13          | U |    | CV |
| 7440-02-0 | Nickel    | 52.4          |   | *  | P  |
| 7440-09-7 | Potassium | 212           | B |    | P  |
| 7782-49-2 | Selenium  | 1.3           | U | N  | F  |
| 7440-22-4 | Silver    | 2.6           | U |    | P  |
| 7440-23-5 | Sodium    | 101           | B |    | P  |
| 7440-28-0 | Thallium  | 1.3           | U | W  | F  |
| 7440-62-2 | Vanadium  | 13.4          |   |    | P  |
| 7440-66-6 | Zinc      | 17.9          |   |    | P  |
|           | Cyanide   | 1.3           | U |    | C  |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: Homogenous

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: 681 Soil  
SW-1

Lab Code: EANDLE Case No.: 9000.406 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL Lab Sample ID: 65785

Level (low/med): LOW Date Received: 02/10/90

Solids: 53.8

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|---|
| 7429-90-5 | Aluminum  | 5370          |   |   | P |
| 7440-36-0 | Antimony  | 22.3          | U |   | P |
| 7440-38-2 | Arsenic   | 5.3           | B |   | P |
| 7440-39-3 | Barium    | 80.2          |   |   | P |
| 7440-41-7 | Beryllium | 0.74          | U |   | P |
| 7440-43-9 | Cadmium   | 1.8           | U |   | P |
| 7440-70-2 | Calcium   | 17400         |   |   | P |
| 7440-47-3 | Chromium  | 7.6           |   |   | P |
| 7440-48-4 | Cobalt    | 3.7           | U |   | P |
| 7440-50-8 | Copper    | 20.1          |   |   | P |
| 7439-89-6 | Iron      | 9150          |   |   | P |
| 7439-92-1 | Lead      | 26.4          |   |   | P |
| 7439-95-4 | Magnesium | 2820          |   |   | P |
| 7439-96-5 | Manganese | 154           |   |   | P |
| 7439-97-6 | Mercury   | 0.18          | U |   | P |
| 7440-02-0 | Nickel    | 24.3          |   |   | P |
| 7440-09-7 | Potassium | 266           | B |   | P |
| 7782-49-2 | Selenium  | 1.2           | B | W | F |
| 7440-22-4 | Silver    | 3.7           | U |   | P |
| 7440-23-5 | Sodium    | 333           | B |   | P |
| 7440-28-0 | Thallium  | 1.1           | U | W | F |
| 7440-62-2 | Vanadium  | 11.7          | B |   | P |
| 7440-66-6 | Zinc      | 147           |   |   | P |
|           | Cyanide   | 1.8           | U |   | C |

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: HOMOGENEOUS

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: YES

Comments: ROOTS

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1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY AND ENVIRONMENT, INC. Contract: sed SW-2

Lab Code: EANDIE Case No.: 9000.406 SAS No.: YN-4020 SDG No.:

Matrix (soil/water): SOIL Lab Sample ID: 65786

Level (low/med): LOW Date Received: 02/10/90

Solids: 44.1

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 4830          |   |   | P  |
| 7440-36-0 | Antimony  | 27.2          | U |   | P  |
| 7440-38-2 | Arsenic   | 2.4           | B |   | F  |
| 7440-39-3 | Barium    | 77.2          | B |   | P  |
| 7440-41-7 | Beryllium | 0.91          | U |   | P  |
| 7440-43-9 | Cadmium   | 2.3           | U |   | P  |
| 7440-70-2 | Calcium   | 20400         |   |   | P  |
| 7440-47-3 | Chromium  | 5.9           |   |   | P  |
| 7440-48-4 | Cobalt    | 4.5           | U |   | P  |
| 7440-50-8 | Copper    | 23.8          |   |   | P  |
| 7439-89-6 | Iron      | 7460          |   |   | P  |
| 7439-92-1 | Lead      | 56.2          |   |   | F  |
| 7439-95-4 | Magnesium | 2170          | B |   | P  |
| 7439-96-5 | Manganese | 111           |   |   | P  |
| 7439-97-6 | Mercury   | 0.23          | U |   | CV |
| 7440-02-0 | Nickel    | 16.0          | B |   | P  |
| 7440-09-7 | Potassium | 237           | B |   | P  |
| 7782-49-2 | Selenium  | 1.2           | B | W | F  |
| 7440-22-4 | Silver    | 4.5           | U |   | P  |
| 7440-23-5 | Sodium    | 1300          | B |   | P  |
| 7440-28-0 | Thallium  | 0.91          | U | W | F  |
| 7440-62-2 | Vanadium  | 16.1          | B |   | P  |
| 7440-66-6 | Zinc      | 170           |   |   | P  |
|           | Cyanide   | 2.9           |   |   | C  |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: HOMOGENEOUS

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: YES

Comments:

Roots

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

sed  
SW-3

Lab Name: ECOLOGY AND ENVIRONMENT, INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000.406 SAS No.: YM-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL Lab Sample ID: 65707

Level (low/med): LOW Date Received: 02/10/90

Solids: 49.5

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 4490          |   |   | P  |
| 7440-36-0 | Antimony  | 24.2          | U |   | P  |
| 7440-38-2 | Arsenic   | 3.0           | B |   | F  |
| 7440-39-3 | Barium    | 80.1          | B |   | P  |
| 7440-41-7 | Beryllium | 0.81          | U |   | P  |
| 7440-43-9 | Cadmium   | 2.0           | U |   | P  |
| 7440-70-2 | Calcium   | 15600         |   |   | P  |
| 7440-47-3 | Chromium  | 14.7          |   |   | P  |
| 7440-48-4 | Cobalt    | 4.0           | U |   | P  |
| 7440-50-8 | Copper    | 28.4          |   |   | P  |
| 7439-89-6 | Iron      | 9640          |   |   | P  |
| 7439-92-1 | Lead      | 25.5          |   |   | F  |
| 7439-95-4 | Magnesium | 2130          |   |   | P  |
| 7439-96-5 | Manganese | 221           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 28.8          |   |   | P  |
| 7440-09-7 | Potassium | 330           | B |   | P  |
| 7782-49-2 | Selenium  | 1.2           | B | W | F  |
| 7440-22-4 | Silver    | 4.0           | U |   | P  |
| 7440-23-5 | Sodium    | 540           | B |   | P  |
| 7440-28-0 | Thallium  | 0.81          | U | W | F  |
| 7440-62-2 | Vanadium  | 18.2          | B |   | P  |
| 7440-66-6 | Zinc      | 168           |   |   | P  |
|           | Cyanide   | 2.0           | U |   | C  |

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: HOMOGENEOUS

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: YES

Comments: Roots

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Sed  
W-4

ab Name: ECOLOGY AND ENVIROMENT, INC Contract: \_\_\_\_\_

ab Code: EANDE Case No.: 9000.406 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

atrix (soil/water): SOIL Lab Sample ID: 65788

evel (low/med): LOW Date Received: 02/10/90

Solids: 56.4

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 3430          |   |   | P  |
| 7440-36-0 | Antimony  | 21.3          | U |   | P  |
| 7440-38-2 | Arsenic   | 1.8           | U |   | F  |
| 7440-39-3 | Barium    | 46.6          | B |   | P  |
| 7440-41-7 | Beryllium | 0.71          | U |   | P  |
| 7440-43-9 | Cadmium   | 1.8           | U |   | P  |
| 7440-70-2 | Calcium   | 16100         |   |   | P  |
| 7440-47-3 | Chromium  | 5.0           |   |   | P  |
| 7440-48-4 | Cobalt    | 3.5           | U |   | P  |
| 7440-50-8 | Copper    | 20.3          |   |   | P  |
| 7439-89-6 | Iron      | 6760          |   |   | P  |
| 7439-92-1 | Lead      | 42.6          |   |   | F  |
| 7439-95-4 | Magnesium | 2660          |   |   | P  |
| 7439-96-5 | Manganese | 116           |   |   | P  |
| 7439-97-6 | Mercury   | 0.18          | U |   | CV |
| 7440-02-0 | Nickel    | 14.0          | B |   | P  |
| 7440-09-7 | Potassium | 264           | B |   | P  |
| 7782-49-2 | Selenium  | 0.67          | B | W | F  |
| 7440-22-4 | Silver    | 2.5           | U |   | P  |
| 7440-23-5 | Sodium    | 1160          | B |   | P  |
| 7440-28-0 | Thallium  | 1.4           | U |   | F  |
| 7440-62-2 | Vanadium  | 9.9           | B |   | P  |
| 7440-66-6 | Zinc      | 163           |   |   | P  |
|           | Cyanide   | 1.8           | U |   | C  |

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: HOMOGENEOUS

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: YES

Comments: Roots

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1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

sed  
SW-5

Client Name: ECOLOGY AND ENVIRONMENT, INC. Contract: \_\_\_\_\_

Client Code: EANDIE Case No.: 9000.406 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL Lab Sample ID: 65789

Level (low/med): LOW Date Received: 02/10/90

Solids: 50.2

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | $\frac{Q}{X}$ | $\frac{M}{Q}$ |
|-----------|-----------|---------------|---|---------------|---------------|
| 7429-90-5 | Aluminum  | 2000          |   |               | P             |
| 7440-36-0 | Antimony  | 23.9          | U |               | P             |
| 7440-38-2 | Arsenic   | 2.9           | B |               | F             |
| 7440-39-3 | Barium    | 48.4          | B |               | P             |
| 7440-41-7 | Beryllium | 0.80          | U |               | P             |
| 7440-43-9 | Cadmium   | 2.0           | U |               | P             |
| 7440-70-2 | Calcium   | 15100         |   |               | P             |
| 7440-47-3 | Chromium  | 4.0           | U |               | P             |
| 7440-48-4 | Cobalt    | 4.0           | U |               | P             |
| 7440-50-8 | Copper    | 14.9          |   |               | P             |
| 7439-89-6 | Iron      | 6140          |   |               | P             |
| 7439-92-1 | Lead      | 35.8          |   |               | F             |
| 7439-95-4 | Magnesium | 1520          | @ |               | P             |
| 7439-96-5 | Manganese | 103           |   |               | P             |
| 7439-97-6 | Mercury   | 0.20          | U |               | CV            |
| 7440-02-0 | Nickel    | 8.6           | B |               | P             |
| 7440-09-7 | Potassium | 250           | B |               | P             |
| 7782-49-2 | Selenium  | 0.80          | B | W             | F             |
| 7440-22-4 | Silver    | 4.0           | U |               | P             |
| 7440-23-5 | Sodium    | 504           | B |               | P             |
| 7440-28-0 | Thallium  | 0.80          | U |               | F             |
| 7440-62-2 | Vanadium  | 5.8           | B |               | P             |
| 7440-66-6 | Zinc      | 82.3          |   |               | P             |
|           | Cyanide   | 2.0           | U |               | S             |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: HOMOGENEOUS

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: YES

Comments:

ROOTS



1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Sed SW-6

Lab Name: ECOLOGY AND ENVIRONMENT, INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000.406 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL Lab Sample ID: 65790

Level (low/med): LOW Date Received: 02/10/90

Solids: 47.4

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | R | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 2000          |   |   | P  |
| 7440-36-0 | Antimony  | 25.3          | U |   | P  |
| 7440-38-2 | Arsenic   | 9.4           |   |   | F  |
| 7440-39-3 | Barium    | 46.2          | B |   | P  |
| 7440-41-7 | Beryllium | 0.84          | U |   | P  |
| 7440-43-9 | Cadmium   | 2.1           | U |   | P  |
| 7440-70-2 | Calcium   | 6140          |   |   | P  |
| 7440-47-3 | Chromium  | 4.2           | U |   | P  |
| 7440-48-4 | Cobalt    | 4.2           | U |   | P  |
| 7440-50-8 | Copper    | 58.2          |   |   | P  |
| 7439-89-6 | Iron      | 13700         |   |   | P  |
| 7439-92-1 | Lead      | 27.2          |   |   | P  |
| 7439-95-4 | Magnesium | 916           | B |   | P  |
| 7439-96-5 | Manganese | 99.2          |   |   | P  |
| 7439-97-6 | Mercury   | 0.21          | U |   | CV |
| 7440-02-0 | Nickel    | 12.0          | B |   | P  |
| 7440-09-7 | Potassium | 258           | B |   | P  |
| 7782-49-2 | Selenium  | 0.42          | U | W | F  |
| 7440-22-4 | Silver    | 4.2           | U |   | P  |
| 7440-23-5 | Sodium    | 329           | B |   | P  |
| 7440-28-0 | Thallium  | 0.84          | U |   | F  |
| 7440-62-2 | Vanadium  | 4.2           | U |   | P  |
| 7440-66-6 | Zinc      | 93.4          |   |   | P  |
|           | Cyanide   | 2.1           | U |   | C  |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: HOMOGENEOUS

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: YES

Comments:

ROOTS

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY AND ENVIRONMENT, INC. Contract: \_\_\_\_\_

sed  
SW-7

Lab Code: EANDE Case No.: 9000.406 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL Lab Sample ID: 65791

Level (low/med): LOW Date Received: 02/10/90

Solids: 67.0

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | R | M |
|-----------|-----------|---------------|---|---|---|
| 7429-90-5 | Aluminum  | 2660          |   |   | P |
| 7440-36-0 | Antimony  | 17.9          | U |   | P |
| 7440-38-2 | Arsenic   | 2.8           | B |   | P |
| 7440-39-3 | Barium    | 91.0          |   |   | P |
| 7440-41-7 | Beryllium | 0.60          | U |   | P |
| 7440-43-9 | Cadmium   | 1.5           | U |   | P |
| 7440-70-2 | Calcium   | 1460          | B |   | P |
| 7440-47-3 | Chromium  | 417           |   |   | P |
| 7440-48-4 | Cobalt    | 4.8           | B |   | P |
| 7440-50-8 | Copper    | 106.2         |   |   | P |
| 7439-89-6 | Iron      | 16200         |   |   | P |
| 7439-92-1 | Lead      | 10.7          |   |   | P |
| 7439-95-4 | Magnesium | 664           | B |   | P |
| 7439-96-5 | Manganese | 103           |   |   | P |
| 7439-97-6 | Mercury   | 0.15          | U |   | P |
| 7440-02-0 | Nickel    | 425           |   |   | P |
| 7440-09-7 | Potassium | 119           | U |   | P |
| 7782-49-2 | Selenium  | 2.5           | B | S | P |
| 7440-22-4 | Silver    | 3.0           | U |   | P |
| 7440-23-5 | Sodium    | 205           | B |   | P |
| 7440-28-0 | Thallium  | 0.60          | U |   | P |
| 7440-62-2 | Vanadium  | 7.6           | B |   | P |
| 7440-66-6 | Zinc      | 39.8          |   |   | P |
|           | Cyanide   | 65            | U |   | C |

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: HOMOGENEOUS

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: YES

Comments: ROOTS

NYSDEC

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

sed  
SW-8

Lab Name: ECOLOGY AND ENVIRONMENT, INC. Contract: \_\_\_\_\_

Lab Code: EANDLE Case No.: 9000.406 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL Lab Sample ID: 65792

Level (low/med): LOW Date Received: 02/10/90

Solids: 74.2

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 6630          |   |   | P  |
| 7440-36-0 | Antimony  | 16.2          | U |   | P  |
| 7440-38-2 | Arsenic   | 2.4           | B |   | P  |
| 7440-39-3 | Barium    | 120           |   |   | P  |
| 7440-41-7 | Beryllium | 0.54          | U |   | P  |
| 7440-43-9 | Cadmium   | 1.8           |   |   | P  |
| 7440-70-2 | Calcium   | 4450          |   |   | P  |
| 7440-47-3 | Chromium  | 1640          |   |   | P  |
| 7440-48-4 | Cobalt    | 5.4           | B |   | P  |
| 7440-50-8 | Copper    | 37.4          |   |   | P  |
| 7439-89-6 | Iron      | 20200         |   |   | P  |
| 7439-92-1 | Lead      | 16.4          |   |   | P  |
| 7439-95-4 | Magnesium | 2380          |   |   | P  |
| 7439-96-5 | Manganese | 569           |   |   | P  |
| 7439-97-6 | Mercury   | 0.23          |   |   | CV |
| 7440-02-0 | Nickel    | 1170          |   |   | P  |
| 7440-09-7 | Potassium | 358           | B |   | P  |
| 7782-49-2 | Selenium  | 0.35          | B | W | F  |
| 7440-22-4 | Silver    | 2.7           | U |   | P  |
| 7440-23-5 | Sodium    | 266           | B |   | P  |
| 7440-28-0 | Thallium  | 0.54          | U |   | F  |
| 7440-62-2 | Vanadium  | 10.5          | B |   | P  |
| 7440-66-6 | Zinc      | 58.1          |   |   | P  |
|           | Cyanide   | 1.3           | U |   | C  |

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: HOMOGENEOUS

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: YES

Comments: ROOTS

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SW-9

Lab Name: ECOLOGY AND ENVIRONMENT, INC. Contract: \_\_\_\_\_

Lab Code: EAND E Case No.: 9000.406 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL Lab Sample ID: 65793

Level (low/med): LOW Date Received: 02/10/90

Solids: 38.0

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|---|
| 7429-90-5 | Aluminum  | 3590          |   |   | P |
| 7440-36-0 | Antimony  | 31.6          | U |   | P |
| 7440-38-2 | Arsenic   | 11.7          |   |   | P |
| 7440-39-3 | Barium    | 69.6          | B |   | P |
| 7440-41-7 | Beryllium | 1.0           | U |   | P |
| 7440-43-9 | Cadmium   | 2.6           | U |   | P |
| 7440-70-2 | Calcium   | 6090          |   |   | P |
| 7440-47-3 | Chromium  | 34.6          |   |   | P |
| 7440-48-4 | Cobalt    | 5.3           | U |   | P |
| 7440-50-8 | Copper    | 85.1          |   |   | P |
| 7439-89-6 | Iron      | 20000         |   |   | P |
| 7439-92-1 | Lead      | 135           |   |   | P |
| 7439-95-4 | Magnesium | 1140          | B |   | P |
| 7439-96-5 | Manganese | 115           |   |   | P |
| 7439-97-6 | Mercury   | 0.26          | U |   | P |
| 7440-02-0 | Nickel    | 83.4          |   |   | P |
| 7440-09-7 | Potassium | 287           | B |   | P |
| 7782-49-2 | Selenium  | 1.0           | B | W | P |
| 7440-22-4 | Silver    | 5.3           | U |   | P |
| 7440-23-5 | Sodium    | 338           | B |   | P |
| 7440-28-0 | Thallium  | 1.1           | U |   | P |
| 7440-62-2 | Vanadium  | 11.3          | B |   | P |
| 7440-66-6 | Zinc      | 235           |   |   | P |
|           | Cyanide   | 2.6           | U |   | P |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: HOMOGENEOUS

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: Yes

Comments:

Roots

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

red  
SW-10

Lab Name: ECOLOGY AND ENVIRONMENT, INC. Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000.406 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL Lab Sample ID: 65794

Level (low/med): LOW Date Received: 02/10/90

Solids: 60.5

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|---|
| 7429-90-5 | Aluminum  | 4420          | - |   | P |
| 7440-36-0 | Antimony  | 19.8          | U |   | P |
| 7440-38-2 | Arsenic   | 6.6           |   |   | F |
| 7440-39-3 | Barium    | 60.8          | B |   | P |
| 7440-41-7 | Beryllium | 0.66          | U |   | P |
| 7440-43-9 | Cadmium   | 2.3           |   |   | P |
| 7440-70-2 | Calcium   | 10400         |   |   | P |
| 7440-47-3 | Chromium  | 10.1          |   |   | P |
| 7440-48-4 | Cobalt    | 3.3           | U |   | P |
| 7440-50-8 | Copper    | 63.2          |   |   | P |
| 7439-89-6 | Iron      | 16400         |   |   | P |
| 7439-92-1 | Lead      | 49.6          |   |   | P |
| 7439-95-4 | Magnesium | 2200          |   |   | P |
| 7439-96-5 | Manganese | 142           |   |   | P |
| 7439-97-6 | Mercury   | 0.16          | U |   | P |
| 7440-02-0 | Nickel    | 20.5          |   |   | P |
| 7440-09-7 | Potassium | 419           | B |   | P |
| 7782-49-2 | Selenium  | 0.60          | B | W | F |
| 7440-22-4 | Silver    | 3.3           | U |   | P |
| 7440-23-5 | Sodium    | 244           | B |   | P |
| 7440-28-0 | Thallium  | 0.66          | U |   | F |
| 7440-62-2 | Vanadium  | 9.5           | B |   | P |
| 7440-66-6 | Zinc      | 110           |   |   | P |
|           | Cyanide   | 1.6           | U |   | C |

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: HOMOGENEOUS

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: YES

Comments: Roots

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

sed  
SW-11

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000-426 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL Lab Sample ID: 66071

Level (low/med): LOW Date Received: 02/13/90

% Solids: 92.5

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | P | M |
|-----------|-----------|---------------|---|---|---|
| 7429-90-5 | Aluminum  | 2900          |   |   | P |
| 7440-36-0 | Antimony  | 13.0          | U |   | P |
| 7440-38-2 | Arsenic   | 2.1           | B |   | F |
| 7440-39-3 | Barium    | 22.8          | B |   | P |
| 7440-41-7 | Beryllium | 0.43          | U |   | P |
| 7440-43-9 | Cadmium   | 1.1           | U |   | P |
| 7440-70-2 | Calcium   | 87900         |   |   | P |
| 7440-47-3 | Chromium  | 3.4           |   |   | P |
| 7440-48-4 | Cobalt    | 2.2           | U |   | P |
| 7440-50-8 | Copper    | 13.6          |   |   | P |
| 7439-89-6 | Iron      | 12300         |   |   | P |
| 7439-92-1 | Lead      | 16.9          |   |   | F |
| 7439-95-4 | Magnesium | 33800         |   |   | P |
| 7439-96-5 | Manganese | 236           |   |   | P |
| 7439-97-6 | Mercury   | 0.11          | U |   | U |
| 7440-02-0 | Nickel    | 8.2           | B |   | P |
| 7440-09-7 | Potassium | 432           | B |   | P |
| 7782-49-2 | Selenium  | 0.22          | U | W | F |
| 7440-22-4 | Silver    | 2.2           | U |   | P |
| 7440-23-5 | Sodium    | 234           | B |   | P |
| 7440-28-0 | Thallium  | 0.43          | U |   | F |
| 7440-62-2 | Vanadium  | 8.2           | B |   | P |
| 7440-66-6 | Zinc      | 338           |   |   | P |
|           | Cyanide   | 1.1           | U |   | C |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: HOMOGENEOUS

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: YES

Comments: ROOTS

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INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC. Contract: DO01549 500  
SW-12  
 Lab Code: \_\_\_\_\_ Case No.: 9000.380 SAS No.: YN-4020 SDG No.: \_\_\_\_\_  
 Matrix (soil/water): SOIL Lab Sample ID: 65327  
 Level (low/med): LOW Date Received: 2/8/90  
 % Solids: 48.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 10100         |   |   | P  |
| 7440-36-0 | Antimony  | 22.8          | U |   | P  |
| 7440-38-2 | Arsenic   | 2.1           |   |   | F  |
| 7440-39-3 | Barium    | 108           |   |   | P  |
| 7440-41-7 | Beryllium | 0.83          | U |   | P  |
| 7440-43-9 | Cadmium   | 2.1           | U |   | P  |
| 7440-70-2 | Calcium   | 6830          |   |   | P  |
| 7440-47-3 | Chromium  | 12.1          |   |   | P  |
| 7440-48-4 | Cobalt    | 4.1           | U |   | P  |
| 7440-50-8 | Copper    | 17.6          |   |   | P  |
| 7439-89-6 | Iron      | 10600         |   | * | P  |
| 7439-92-1 | Lead      | 27.8          |   |   | F  |
| 7439-95-4 | Magnesium | 3130          |   |   | P  |
| 7439-96-5 | Manganese | 10.3          |   |   | P  |
| 7439-97-6 | Mercury   | 0.21          | U |   | CV |
| 7440-02-0 | Nickel    | 12.2          | B |   | P  |
| 7440-09-7 | Potassium | 1010          | B |   | P  |
| 7782-49-2 | Selenium  | 0.41          | U | W | F  |
| 7440-22-4 | Silver    | 4.1           | U |   | P  |
| 7440-23-5 | Sodium    | 153           | B |   | P  |
| 7440-28-0 | Thallium  | 0.83          | U |   | F  |
| 7440-62-2 | Vanadium  | 17.8          | B |   | P  |
| 7440-66-6 | Zinc      | 102           |   | * | P  |
|           | Cyanide   | 2.1           | U |   | C  |

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: HOMOGENEOUS  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: D001549

500  
SU-14  
GP

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL

Lab Sample ID: 65328

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 34.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 1650          |   |   | P  |
| 7440-36-0 | Antimony  | 31.9          | U |   | P  |
| 7440-38-2 | Arsenic   | 4.2           |   |   | F  |
| 7440-39-3 | Barium    | 29.6          | B |   | P  |
| 7440-41-7 | Beryllium | 1.2           | U |   | P  |
| 7440-43-9 | Cadmium   | 2.9           | U |   | P  |
| 7440-70-2 | Calcium   | 12100         |   |   | P  |
| 7440-47-3 | Chromium  | 5.8           | U |   | P  |
| 7440-48-4 | Cobalt    | 5.8           | U |   | P  |
| 7440-50-8 | Copper    | 17.7          |   |   | P  |
| 7439-89-6 | Iron      | 7760          |   | * | P  |
| 7439-92-1 | Lead      | 48.1          |   |   | F  |
| 7439-95-4 | Magnesium | 1690          |   |   | P  |
| 7439-96-5 | Manganese | 41.0          |   |   | P  |
| 7439-97-6 | Mercury   | 0.29          | U |   | CV |
| 7440-02-0 | Nickel    | 8.7           | U |   | P  |
| 7440-09-7 | Potassium | 485           |   |   | P  |
| 7782-49-2 | Selenium  | 0.58          | U | W | F  |
| 7440-22-4 | Silver    | 5.8           | U |   | P  |
| 7440-23-5 | Sodium    | 638           | B |   | P  |
| 7440-28-0 | Thallium  | 1.2           | U |   | F  |
| 7440-62-2 | Vanadium  | 5.8           | U |   | P  |
| 7440-66-6 | Zinc      | 173           |   | * | P  |
|           | Cyanide   | 2.9           | U |   | C  |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: HOMOGENEOUS

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: YES

Comments:

ROOTS



1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

sed  
SU-15  
GT

Lab Name: ECOLOGY & ENVIRONMENT INC. Contract: D001549

Lab Code: \_\_\_\_\_ Case No.: 7000.380 SAS No.: 1A-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL Lab Sample ID: 65329

Level (low/med): LOW Date Received: 2/8/90

% Solids: 45.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 7570          | - |   | P  |
| 7440-36-0 | Antimony  | 24.1          | U |   | P  |
| 7440-38-2 | Arsenic   | 2.8           |   |   | P  |
| 7440-39-3 | Barium    | 75.2          | B |   | P  |
| 7440-41-7 | Beryllium | 0.88          | U |   | P  |
| 7440-43-9 | Cadmium   | 2.2           | U |   | P  |
| 7440-70-2 | Calcium   | 13400         |   |   | P  |
| 7440-47-3 | Chromium  | 9.6           |   |   | P  |
| 7440-48-4 | Cobalt    | 4.4           | U |   | P  |
| 7440-50-8 | Copper    | 26.1          |   |   | P  |
| 7439-89-6 | Iron      | 10900         |   | * | P  |
| 7439-92-1 | Lead      | 52.6          |   |   | F  |
| 7439-95-4 | Magnesium | 2610          |   |   | P  |
| 7439-96-5 | Manganese | 283           |   |   | P  |
| 7439-97-6 | Mercury   | 0.22          | U |   | CV |
| 7440-02-0 | Nickel    | 10.5          | B |   | P  |
| 7440-09-7 | Potassium | 455           | B |   | P  |
| 7782-49-2 | Selenium  | 2.6           |   | S | F  |
| 7440-22-4 | Silver    | 4.4           | U |   | P  |
| 7440-23-5 | Sodium    | 346           | B |   | P  |
| 7440-28-0 | Thallium  | 0.88          | U |   | F  |
| 7440-62-2 | Vanadium  | 16.0          | B |   | P  |
| 7440-66-6 | Zinc      | 357           |   | * | P  |
|           | Cyanide   | 2.2           | U |   | C  |

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: HOMOGENEOUS  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: YES

Comments: ROOTS  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD01549

W1

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41580

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 83.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q   | M  |             |
|-----------|-----------|---------------|---|-----|----|-------------|
| 7429-90-5 | Aluminum  | 3200          |   | *   | P  | SP          |
| 7440-36-0 | Antimony  | 14.4          | U | N   | P  | SB          |
| 7440-38-2 | Arsenic   | 24.8          |   | *   | F  | ← 7.5 or 24 |
| 7440-39-3 | Barium    | 145           |   |     | P  | 30          |
| 7440-41-7 | Beryllium | 0.48          | U |     | P  | 1600        |
| 7440-43-9 | Cadmium   | 1.2           | U |     | P  | 10          |
| 7440-70-2 | Calcium   | 2760          |   |     | P  | 1000        |
| 7440-47-3 | Chromium  | 5.3           |   | *   | P  | 1000        |
| 7440-48-4 | Cobalt    | 3.6           | B |     | P  | 30          |
| 7440-50-8 | Copper    | 12.2          |   | *N  | P  | 25          |
| 7439-89-6 | Iron      | 18000         |   | *   | P  | ← 2000      |
| 7439-92-1 | Lead      | 14.3          |   | +N* | F  |             |
| 7439-95-4 | Magnesium | 250           | B |     | P  |             |
| 7439-96-5 | Manganese | 23.0          |   | N   | P  | SB          |
| 7439-97-6 | Mercury   | 0.12          | U |     | CV | 1           |
| 7440-02-0 | Nickel    | 11.0          |   | *   | P  | B           |
| 7440-09-7 | Potassium | 270           | B |     | P  | ← 2000      |
| 7782-49-2 | Selenium  | 1.2           | U | WN  | F  |             |
| 7440-22-4 | Silver    | 2.4           | U |     | P  | C           |
| 7440-23-5 | Sodium    | 110           | B |     | P  | ← 2000      |
| 7440-28-0 | Thallium  | 1.2           | U | W   | F  |             |
| 7440-62-2 | Vanadium  | 21.1          |   |     | P  |             |
| 7440-66-6 | Zinc      | 14.6          |   |     | P  |             |
|           | Cyanide   | 1.2           | U |     | C  |             |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: Homogeneous

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: D001549

W 2

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): SOIL

Lab Sample ID: 41581

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 83.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | $\frac{Q}{X}$ | M  | $\frac{M}{X}$ |
|-----------|-----------|---------------|---|---------------|----|---------------|
| 7429-90-5 | Aluminum  | 3340          |   | *             | P  | SB            |
| 7440-36-0 | Antimony  | 14.3          | U | N             | P  | SB            |
| 7440-38-2 | Arsenic   | 32.1          |   | *             | F  | ← 15          |
| 7440-39-3 | Barium    | 118           |   |               | P  | 300           |
| 7440-41-7 | Beryllium | 0.48          | U |               | P  | ← 16          |
| 7440-43-9 | Cadmium   | 1.2           | U |               | P  | SB            |
| 7440-70-2 | Calcium   | 1510          |   |               | P  | SB            |
| 7440-47-3 | Chromium  | 8.4           |   | *             | P  | 10            |
| 7440-48-4 | Cobalt    | 4.9           | B |               | P  | 30            |
| 7440-50-8 | Copper    | 15.8          |   | *N            | P  | 25            |
| 7439-89-6 | Iron      | 18900         |   | *             | P  | ← 2000        |
| 7439-92-1 | Lead      | 9.9           |   | N*            | F  | SB            |
| 7439-95-4 | Magnesium | 197           | B |               | P  | SB            |
| 7439-96-5 | Manganese | 28.6          |   | N             | P  | SB            |
| 7439-97-6 | Mercury   | 0.12          | U |               | CV | ← 1           |
| 7440-02-0 | Nickel    | 13.2          |   | *             | P  | 13            |
| 7440-09-7 | Potassium | 210           | B |               | P  | SB            |
| 7782-49-2 | Selenium  | 1.2           | U | WN            | F  | 2             |
| 7440-22-4 | Silver    | 2.4           | U |               | P  | SB            |
| 7440-23-5 | Sodium    | 102           | B |               | P  | SB            |
| 7440-28-0 | Thallium  | 1.2           | U | W             | F  | SB            |
| 7440-62-2 | Vanadium  | 40.1          |   |               | P  | SB            |
| 7440-66-6 | Zinc      | 16.8          |   |               | P  | 20            |
|           | Cyanide   | 1.2           | U |               | C  | -             |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: HOMOGENEOUS

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

W-3

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD01549

Lab Code: \_\_\_\_\_

Case No.: 872.003

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): ORGANIC LIQUID

Lab Sample ID: 47597

Level (low/med): LOW

Date Received: 8/25/89

% Solids: -

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q | M   |
|-----------|-----------|---------------|---|---|-----|
| 7429-90-5 | Aluminum  | 25.7          | B |   | P   |
| 7440-36-0 | Antimony  | 12.0          | U |   | P   |
| 7440-38-2 | Arsenic   | 1.0           | U | W | F   |
| 7440-39-3 | Barium    | 7.5           | B |   | P   |
| 7440-41-7 | Beryllium | 0.4           | U |   | P   |
| 7440-43-9 | Cadmium   | 1.0           | U |   | P   |
| 7440-70-2 | Calcium   | 3710          |   |   | P   |
| 7440-47-3 | Chromium  | 3.0           |   |   | P   |
| 7440-48-4 | Cobalt    | 162           |   |   | P   |
| 7440-50-8 | Copper    | 2.4           | B |   | P   |
| 7439-89-6 | Iron      | 778           |   |   | P   |
| 7439-92-1 | Lead      | 3430          |   |   | P ← |
| 7439-95-4 | Magnesium | 1670          |   |   | P   |
| 7439-96-5 | Manganese | 9090          |   |   | P ← |
| 7439-97-6 | Mercury   | 0.10          | U |   | CV  |
| 7440-02-0 | Nickel    | 3.0           | U |   | P   |
| 7440-09-7 | Potassium | 336           | B |   | P   |
| 7782-49-2 | Selenium  | 10.0          | U |   | F   |
| 7440-22-4 | Silver    | 2.0           | U |   | P   |
| 7440-23-5 | Sodium    | 1240          |   |   | P   |
| 7440-28-0 | Thallium  | 1.0           | B |   | F   |
| 7440-62-2 | Vanadium  | 2.0           | U |   | P   |
| 7440-66-6 | Zinc      | 231           |   |   | P   |
|           | Cyanide   | 1.0           | U |   | C   |

B/M 3/16/90

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments: RESULTS ARE REPORTED ON A "AS RECEIVED" BASIS.

NYSDEC

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

L-2

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000.406 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL Lab Sample ID: 65803

Level (low/med): LOW Date Received: 02/10/90

Solids: 58.4

Concentration Units (ug/L or mg/kg dry weight): mg/kg

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 2950          |   |   | P  |
| 7440-36-0 | Antimony  | 295           | U |   | P  |
| 7440-38-2 | Arsenic   | 6.7           |   |   | F  |
| 7440-39-3 | Barium    | 75.6          |   |   | P  |
| 7440-41-7 | Beryllium | 0.68          | U |   | P  |
| 7440-43-9 | Cadmium   | 1.7           | U |   | P  |
| 7440-70-2 | Calcium   | 18300         |   |   | P  |
| 7440-47-3 | Chromium  | 60.3          |   |   | P  |
| 7440-48-4 | Cobalt    | 3.4           | U |   | P  |
| 7440-50-8 | Copper    | 45.4          |   |   | P  |
| 7439-89-6 | Iron      | 16400         |   |   | P  |
| 7439-92-1 | Lead      | 33.7          |   |   | F  |
| 7439-95-4 | Magnesium | 6810          |   |   | P  |
| 7439-96-5 | Manganese | 449           |   |   | P  |
| 7439-97-6 | Mercury   | 0.17          | U |   | CY |
| 7440-02-0 | Nickel    | 118           |   |   | P  |
| 7440-09-7 | Potassium | 364           | B |   | P  |
| 7782-49-2 | Selenium  | 0.51          | B |   | F  |
| 7440-22-4 | Silver    | 3.4           | U |   | P  |
| 7440-23-5 | Sodium    | 226           | B |   | P  |
| 7440-28-0 | Thallium  | 0.68          | U |   | F  |
| 7440-62-2 | Vanadium  | 7.7           | B |   | P  |
| 7440-66-6 | Zinc      | 69.6          |   |   | P  |
|           | Cyanide   | 1.7           | U |   | C  |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: HOMOGENEOUS

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: ROOTS

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

GW7

Lab Name: ECOLOGY & ENVIRONMENT Inc.

Contract: DO01549

Lab Code: \_\_\_\_\_

Case No.: 872.002

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): SOIL

Lab Sample ID: 47477

Level (low/med): LOW

Date Received: 8/24/89

% Solids: 89.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 2610          |   |   | P  |
| 7440-36-0 | Antimony  | 13.5          | U |   | P  |
| 7440-38-2 | Arsenic   | 2.6           |   |   | F  |
| 7440-39-3 | Barium    | 28.3          | B |   | P  |
| 7440-41-7 | Beryllium | 0.45          | U |   | P  |
| 7440-43-9 | Cadmium   | 1.1           | U |   | P  |
| 7440-70-2 | Calcium   | 118000        |   |   | P  |
| 7440-47-3 | Chromium  | 4.9           |   |   | P  |
| 7440-48-4 | Cobalt    | 2.4           | B |   | P  |
| 7440-50-8 | Copper    | 6.5           |   |   | P  |
| 7439-89-6 | Iron      | 7400          |   |   | P  |
| 7439-92-1 | Lead      | 8.8           |   |   | F  |
| 7439-95-4 | Magnesium | 54500         |   |   | P  |
| 7439-96-5 | Manganese | 321           |   |   | P  |
| 7439-97-6 | Mercury   | 0.11          | U |   | CV |
| 7440-02-0 | Nickel    | 3.4           | B |   | P  |
| 7440-09-7 | Potassium | 725           | B |   | P  |
| 7782-49-2 | Selenium  | 1.1           | U | W | F  |
| 7440-22-4 | Silver    | 2.2           | U |   | P  |
| 7440-23-5 | Sodium    | 1110          |   |   | P  |
| 7440-28-0 | Thallium  | 1.1           | U |   | F  |
| 7440-62-2 | Vanadium  | 8.3           | B |   | P  |
| 7440-66-6 | Zinc      | 28.7          |   |   | P  |
|           | Cyanide   | 1.1           | U |   | C  |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: HOMOGENEOUS

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Surf - water (SW-16 → 23)  
PCB'S only

DATA SUMMARY FORM: VOLATILES 1

Site Name: Golden Road Disposal site

WATER SAMPLES  
(ug/L)

Case #: 9000:405 Sampling Date(s): 2/8-2/9/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No.<br>Dilution Factor<br>Location | SW-1                      | SW-2 | SW-3 | SW-4 | SW-5 | SW-6 | SW-7 | SW-8 | SW-9 |
|---|---------------------------|------|------|------|------|------|------|------|------|
|   | 1.0                       | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| CRQL                                      | COMPOUND                  |      |      |      |      |      |      |      |      |
| 10  | Chloromethane             |      |      |      |      |      |      |      |      |
| 10  | Bromomethane              |      |      |      |      |      |      |      |      |
| 10  | *Vinyl Chloride           |      |      |      |      |      |      |      |      |
| 10  | Chloroethane              |      |      |      |      |      |      |      |      |
| 5   | 6 B                       | 6 B  | 6 B  | 6 B  | 6 B  | 6 B  | 7 B  | 31 B | 8 B  |
| 10  | Acetone                   |      |      |      |      |      |      |      |      |
| 5   | Carbon Disulfide          |      |      |      |      |      |      |      |      |
| 5   | *1,1-Dichloroethene       |      |      |      |      |      |      |      |      |
| 5   | 1,1-Dichloroethane        |      |      |      |      |      |      |      |      |
| 5   | *Total-1,2-Dichloroethene |      |      |      |      |      |      |      |      |
| 5   | Chloroform                |      |      |      |      |      |      |      |      |
| 5   | *1,2-Dichloroethane       |      |      |      |      |      |      |      |      |
| 10  | *2-Butanone               |      |      |      |      |      |      |      |      |
| 5   | *1,1,1-Trichloroethane    |      |      |      |      |      |      |      |      |
| 5   | *Carbon Tetrachloride     |      |      |      |      |      |      |      |      |
| 10  | Vinyl Acetate             |      |      |      |      |      |      |      |      |
| 5   | Bromodichloromethane      |      |      |      |      |      |      |      |      |

CRDL = Contract Required Detection Limit

\*Action Level Exists

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recycled paper  
F-93  
solid and environment

DATA SUMMARY FORM: VOLATILES

Site Name: Golden Road

WATER SAMPLES  
(ug/L)

Case #: 9000.405 Sampling Date(s): 2/8-2/9/90  
9000.426 2/12/90  
9000.380 2/16/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRQL | COMPOUND                  | Sample No.      | SW-10 | SW-11 | SW-12 | SW-13          | SW-14 | SW-14MS | SW-14MSD | SW-15 |
|------|---------------------------|-----------------|-------|-------|-------|----------------|-------|---------|----------|-------|
|      |                           | Dilution Factor | 1.0   | 1.0   | 1.0   |                | 1.0   | 1.0     | 1.0      | 1.0   |
|      |                           | Location        |       |       |       | NOT<br>sampled |       |         |          |       |
| 10   | Chloromethane             |                 |       |       |       |                |       |         |          |       |
| 10   | Bromomethane              |                 |       |       |       |                |       |         |          |       |
| 10   | *Vinyl Chloride           |                 |       |       |       |                |       |         |          |       |
| 10   | Chloroethane              |                 |       |       |       |                |       |         |          |       |
| 5    | *Methylene Chloride       |                 | 8 B   | 5 B   | 6 B   |                | 5 B   | 7 B     | 8 B      | 6 B   |
| 10   | Acetone                   |                 | 50 B  | 15 B  | 8 J   |                | 4 J   | 4 J     | 5 J      |       |
| 5    | Carbon Disulfide          |                 |       |       | 1 J   |                |       |         |          |       |
| 5    | *1,1-Dichloroethene       |                 |       |       |       |                |       |         |          |       |
| 5    | 1,1-Dichloroethane        |                 |       |       |       |                |       |         |          |       |
| 5    | *Total-1,2-Dichloroethene |                 |       |       |       |                |       |         |          |       |
| 5    | Chloroform                |                 |       |       |       |                |       |         |          |       |
| 5    | *1,2-Dichloroethane       |                 |       |       |       |                |       |         |          |       |
| 10   | *2-Butanone               |                 |       |       |       |                |       |         |          |       |
| 5    | *1,1,1-Trichloroethane    |                 |       |       |       |                |       |         |          |       |
| 5    | *Carbon Tetrachloride     |                 |       |       |       |                |       |         |          |       |
| 10   | Vinyl Acetate             |                 |       |       |       |                |       |         |          |       |
| 5    | Bromodichloromethane      |                 |       |       |       |                |       |         |          |       |

CRQL = Contract Required Detection Limit

\*Action Level Exists

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F-94  
environmental



# GROUNDWATER / DRILL WATER

## DATA SUMMARY FORM: VOLATILES

Site Name: Golden Road Disposal Site

WATER SAMPLES  
(ug/L)

Case #: 9000-380 Sampling Date(s): 2/6/90-2/7/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No.<br>Dilution Factor<br>Location | GW-1                      | GW-2 | GW-3 | GW-4 | GW-5 | GW-6 | GW-6ms | GW-6msD | GW-7 |
|---|---------------------------|------|------|------|------|------|--------|---------|------|
|   | 1.0                       | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0    | 1.0     | 1.0  |
| CRQL   COMPOUND                           |                           |      |      |      |      |      |        |         |      |
| 10  | Chloromethane             |      |      |      |      |      |        |         |      |
| 10  | Bromomethane              |      |      |      |      |      |        |         |      |
| 10  | *Vinyl Chloride           |      |      |      |      |      |        |         | 9 J  |
| 10  | Chloroethane              |      |      |      |      |      |        |         | 17   |
| 5   | *Methylene Chloride       | 7 B  | 6 B  | 6 B  | 7 B  | 6 B  | 7 B    | 8 B     | 5 B  |
| 10  | Acetone                   |      |      |      | 6 BJ | 11 B | 11 B   | 5 BJ    | 6 B  |
| 5   | Carbon Disulfide          |      |      |      |      |      | 2 J    |         |      |
| 5   | *1,1-Dichloroethene       |      |      |      |      |      |        |         |      |
| 5   | 1,1-Dichloroethane        |      |      |      |      |      |        |         | 36   |
| 5   | *Total-1,2-Dichloroethene |      |      |      |      |      | 1 J    |         | 8    |
| 5   | Chloroform                |      |      |      |      |      |        |         |      |
| 5   | *1,2-Dichloroethane       |      |      |      |      |      |        |         |      |
| 10  | *2-Butanone               |      |      |      |      |      |        |         |      |
| 5   | *1,1,1-Trichloroethane    |      |      |      |      |      |        |         |      |
| 5   | *Carbon Tetrachloride     |      |      |      |      |      |        |         |      |
| 10  | Vinyl Acetate             |      |      |      |      |      |        |         |      |
| 5   | Bromodichloromethane      |      |      |      |      |      |        |         |      |

CRQL = Contract Required Detection Limit

\*Action Level Exists

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F-95  
ind environment

DATA SUMMARY FORM: VOLATILES

1

Site Name: Golden Road Disposal Site

Case #: 872.002 Sampling Date(s): Aug 24, 1989

WATER SAMPLES  
(ug/L)

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No. | Dilution Factor           | Location |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|---------------------------|----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|            |                           |          | Drill-Rig |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|            |                           |          | 1.0       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CRQL       | COMPOUND                  |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Chloromethane             |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Bromomethane              |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | *Vinyl Chloride           |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Chloroethane              |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5          | *Methylene Chloride       |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Acetone                   |          | 9 J       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5          | Carbon Disulfide          |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5          | *1,1-Dichloroethene       |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5          | 1,1-Dichloroethane        |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5          | *Total-1,2-Dichloroethene |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5          | Chloroform                |          | 24        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5          | *1,2-Dichloroethane       |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | *2-Butanone               |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5          | *1,1,1-Trichloroethane    |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5          | *Carbon Tetrachloride     |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Vinyl Acetate             |          |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5          | Bromodichloromethane      |          | 11        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Detection Limit

\*Action Level Exists

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F-96  
 Agency independent  
 for use in the  
 field environment

# LEACHATE

## DATA SUMMARY FORM: VOLATILES

1

Site Name: Golden Road Disposal Site

WATER SAMPLES  
(ug/L)

Case #: 872-001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRQL | COMPOUND                  | Sample No. | Dilution Factor | Location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|---------------------------|------------|-----------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                           | L1         |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |                           | 1.0        |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |                           |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Chloromethane             |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Bromomethane              |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | *Vinyl Chloride           |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Chloroethane              | 23         |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Methylene Chloride       | 2          | JB              |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Acetone                   | 24         | B               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Carbon Disulfide          |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *1,1-Dichloroethene       |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | 1,1-Dichloroethane        | 7          |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Total-1,2-Dichloroethene |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Chloroform                |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *1,2-Dichloroethane       |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | *2-Butanone               |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *1,1,1-Trichloroethane    |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Carbon Tetrachloride     |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Vinyl Acetate             |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Bromodichloromethane      |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Detection Limit

\*Action Level Exists

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F-97

DATA SUMMARY FORM: VOLATILES

Site Name: Golden Road

WATER SAMPLES  
(ug/L)

Case #: 9000.405 Sampling Date(s): 2/8-2/9/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No.<br>Dilution Factor<br>Location | SW-1 | SW-2 | SW-3 | SW-4 | SW-5 | SW-6 | SW-7 | SW-8 | SW-9 |
|---|------|------|------|------|------|------|------|------|------|
|   | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |      |      |
| COMPOUND                                  |      |      |      |      |      |      |      |      |      |
| *1,2-Dichloropropane                      |      |      |      |      |      |      |      |      |      |
| Cis-1,3-Dichloropropene                   |      |      |      |      |      |      |      |      |      |
| Trichloroethene                           |      |      |      |      |      |      |      |      |      |
| Dibromochloromethane                      |      |      |      |      |      |      |      |      |      |
| 1,1,2-Trichloroethane                     |      |      |      |      |      |      |      |      |      |
| *Benzene                                  |      |      |      |      |      |      | 1 J  |      |      |
| Trans-1,3-Dichloropropene                 |      |      |      |      |      |      |      |      |      |
| Bromoform                                 |      |      |      |      |      |      |      |      |      |
| 4-Methyl-2-pentanone                      |      |      |      |      |      |      |      |      |      |
| 2-Hexanone                                |      |      |      |      |      |      |      |      |      |
| *Tetrachloroethene                        |      |      |      |      |      |      |      |      |      |
| 1,1,2,2-Tetrachloroethane                 |      |      |      |      |      |      |      |      |      |
| *Toluene                                  |      |      |      |      |      |      | 1 J  |      |      |
| *Chlorobenzene                            |      |      |      |      |      |      | 1 J  |      |      |
| *Ethylbenzene                             |      |      |      |      |      |      |      |      |      |
| *Styrene                                  |      |      |      |      |      |      |      |      |      |
| Total Xylenes                             |      |      |      |      |      |      |      |      |      |

CRQL = Contract Required Detection Limit

\*Action Level Exists

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DATA SUMMARY FORM: VOLATILES

2

Site Name: Golden Road Disposal Site

WATER SAMPLES  
(ug/L)

Case #: 872.001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

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Sample No. L1  
Dilution Factor 1.0  
Location

| CRQL | COMPOUND                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 5    | *1,2-Dichloropropane      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Cis-1,3-Dichloropropene   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Trichloroethene           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Dibromochloromethane      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | 1,1,2-Trichloroethane     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Benzene                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Trans-1,3-Dichloropropene |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Bromofom                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 4-Methyl-2-pentanone      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 2-Hexanone                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Tetrachloroethene        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | 1,1,2,2-Tetrachloroethane |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Toluene                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Chlorobenzene            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Ethylbenzene             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Styrene                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Total Xylenes            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

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DATA SUMMARY FORM: VOLATILES 2

Site Name: **GOLDEN ROAD**

SOIL SAMPLES  
(ug/Kg)

Case #: **9000.405** Sampling Date(s): **2/8-2/14/90**  
**9000.426** **2/12/90**

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor) / ((100 - % moisture)/100)

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| CRQL | COMPOUND                  | Sample No.      | SW-10 | SW-11 | SW-12       | SW-13 | SW-14 | SW-14MS | SW-14SD | SW-15 |
|------|---------------------------|-----------------|-------|-------|-------------|-------|-------|---------|---------|-------|
|      |                           | Dilution Factor | 1.0   | 1.0   |             |       | 1.0   | 1.0     | 1.0     | 1.0   |
|      | % Moisture                |                 |       |       |             |       |       |         |         |       |
|      | Location                  |                 |       |       | NOT SAMPLED |       |       |         |         |       |
| 5    | 1,2-Dichloropropane       |                 |       |       |             |       |       |         |         |       |
| 5    | Cis-1,3-Dichloropropene   |                 |       |       |             |       |       |         |         |       |
| 5    | Trichloroethene           |                 |       |       |             |       |       |         |         |       |
| 5    | Dibromochloromethane      |                 |       |       |             |       |       |         |         |       |
| 5    | 1,1,2-Trichloroethane     |                 |       |       |             |       |       |         |         |       |
| 5    | Benzene                   |                 |       |       |             |       |       |         |         |       |
| 5    | Trans-1,3-Dichloropropene |                 |       |       |             |       |       |         |         |       |
| 5    | Bromoform                 |                 |       |       |             |       |       |         |         |       |
| 10   | 4-Methyl-2-pentanone      |                 |       |       |             |       |       |         |         |       |
| 10   | 2-Hexanone                |                 |       |       |             |       |       |         |         |       |
| 5    | Tetrachloroethene         |                 |       |       |             |       |       |         |         |       |
| 5    | 1,1,2,2-Tetrachloroethane |                 |       |       |             |       |       |         |         |       |
| 5    | Toluene                   |                 | 2     | J     |             |       |       |         |         |       |
| 5    | Chlorobenzene             |                 |       |       |             |       |       |         |         |       |
| 5    | Ethylbenzene              |                 |       |       |             |       |       |         |         |       |
| 5    | Styrene                   |                 |       |       |             |       |       |         |         |       |
| 5    | Total Xylenes             |                 |       |       |             |       |       |         |         |       |

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: VOLATILES

Site Name: GOLDEN ROAD  
 Case #: 1000.380 Sampling Date(s): 2/6/90 - 2/7/90

WATER SAMPLES  
(ug/L)

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No.<br>Dilution Factor<br>Location | GW-1 | GW-2 | GW-3 | GW-4 | GW-5 | GW-6 | GW-6MS | GW-6MSD | GW-7 |
|---|------|------|------|------|------|------|--------|---------|------|
|   | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0    | 1.0     | 1.0  |
| CRQL   COMPOUND                           |      |      |      |      |      |      |        |         |      |
| 5   *1,2-Dichloropropane                  |      |      |      |      |      |      |        |         |      |
| 5   Cis-1,3 Dichloropropene               |      |      |      |      |      |      |        |         |      |
| 5   Trichloroethene                       |      |      |      |      |      |      |        |         |      |
| 5   Dibromochloromethane                  |      |      |      |      |      | 2    | J      |         |      |
| 5   1,1,2-Trichloroethane                 |      |      |      |      |      |      |        |         |      |
| 5   *Benzene                              | 36   |      |      |      |      | 1    | J      |         |      |
| 5   Trans-1,3 Dichloropropene             |      |      |      |      |      |      |        |         |      |
| 5   Bromoform                             |      |      |      |      |      |      |        |         |      |
| 10   4-Methyl-2-pentanone                 | 3    | J    |      | 3    | J    | 4    | J      | 7       | J    |
| 10   2-Hexanone                           |      |      |      |      |      |      |        | 2       | J    |
| 5   *Tetrachloroethene                    |      |      |      |      |      | 2    | J      | 5       | J    |
| 5   1,1,2,2-Tetrachloroethane             |      |      |      |      |      | 2    | J      |         |      |
| 5   *Toluene                              |      |      |      |      |      | 2    | J      |         |      |
| 5   *Chlorobenzene                        |      |      |      |      |      | 1    | J      |         |      |
| 5   *Ethylbenzene                         | 6    |      |      |      |      | 1    | J      |         |      |
| 5   *Styrene                              |      |      |      |      |      |      |        |         |      |
| 5   *Total Xylenes                        | 4    | J    |      |      |      | 1    | J      |         |      |

CRQL = Contract Required Detection Limit

\*Action Level Exists

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DATA SUMMARY FORM: VOLATILES

2

Site Name: GOLDEN ROAD DISPOSAL SITE

WATER SAMPLES  
(ug/L)

Case #: 872.001 Sampling Date(s): 8/24/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRQL | COMPOUND                  | Sample No. | Dilution Factor | Location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|---------------------------|------------|-----------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                           | DRM-RIG    | 1.0             |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *1,2-Dichloropropane      |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Cis-1,3-Dichloropropene   |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Trichloroethene           |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Dibromochloromethane      | 4          | J               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | 1,1,2-Trichloroethane     |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Benzene                  |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Trans-1,3 Dichloropropene |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | Bromolom                  |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 4-Methyl-2-pentanone      |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 2 Hexanone                |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Tetrachloroethene        |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | 1,1,2,2-Tetrachloroethane |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Toluene                  |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Chlorobenzene            |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Ethylbenzene             |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Styrene                  |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5    | *Total Xylenes            |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

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DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9000-405 Sampling Date: 2/8-2/9/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No.              | SW-1            | SW-2            | SW-3            | SW-4            | SW-5            | SW-6            | SW-7            | SW-8            | SW-9            |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                         | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor |
| Location                |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| COMPOUND                | CRQL            |                 |                 |                 |                 |                 |                 |                 |                 |
| Hexane<br>Can No 110543 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|                         |                 |                 |                 |                 |                 |                 |                 |                 |                 |

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: T E N T A T I V E L Y I N D E N T I F I E D C O M P O U N D S

Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9077.405 Sampling Date: 2/8-2/9/90  
9077.426 2/12/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

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| Sample No.               | SW-10 | SW-11 | SW-12 | SW-13   | SW-14 | SW-14msd | SW-14msd | SW-15 |  |
|--------------------------|-------|-------|-------|---------|-------|----------|----------|-------|--|
| Dilution Factor          | 1.0   | 1.0   | 1.0   | NOT     | 1.0   | 1.0      | 1.0      | 1.0   |  |
| Location                 |       |       |       | SAMPLED |       |          |          |       |  |
| COMPOUND                 |       |       |       |         |       |          |          |       |  |
| Hexane<br>Can No. 110543 |       | 14 BT |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |
|                          |       |       |       |         |       |          |          |       |  |

CRQL = Contract Required Quantitation Limit

## DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden RoadWATER SAMPLES  
(ug/L)Case #: 9000.380 Sampling Date: 2/6-2/7/90To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No.                                     | GW-1            |  | GW-2 |      | GW-3 |  | GW-4 |  | GW-5 |  | GW-6 |  | GW-7 |  |
|--|-----------------|--|------|------|------|--|------|--|------|--|------|--|------|--|
|  | Dilution Factor |  |      |      |      |  |      |  |      |  |      |  |      |  |
| Location                                       |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
| COMPOUND                                       |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
| Cyclotrisiloxane, hexameth<br>Cas No. 541059   | 1.0             |  |      | 20 J |      |  |      |  |      |  |      |  |      |  |
| Cyclotetrasiloxane, octameth<br>Cas No. 556672 | 1.0             |  |      | 24 J |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |
|  |                 |  |      |      |      |  |      |  |      |  |      |  |      |  |

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Road

WATER SAMPLES  
(ug/L)

Case #: 9000.380 Sampling Date: 2/6-2/7/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

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| Sample No.<br>Dilution Factor<br>Location      | Drill-Rig | Drill-Rig MS | Drill-Rig MSD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|-----------|--------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  | 1.0       | 1.0          | 1.0           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| COMPOUND                                       |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cyclotrisiloxane, hexameth<br>CAS No. 541059   |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cyclotetrasiloxane, octameth<br>CAS No. 556672 |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |           |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Road Disposal Site

WATER SAMPLES  
(ug/L)

Case #: 9000.405 Sampling Date: 2/8-2/9/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

recycled paper  
liper

Sample No.  
Dilution Factor  
Location

| Sample No.      | SW-1 | SW-2 | SW-3 | SW-4 | SW-5 | SW-6 | SW-7 | SW-8 | SW-9 |
|-----------------|------|------|------|------|------|------|------|------|------|
| Dilution Factor | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| Location        |      |      |      |      |      |      |      |      |      |
| COMPOUND        |      |      |      |      |      |      |      |      |      |

5-methyl-2,4,6-tribromopyrimidin  
CAS No. 6418814

12 J

Ethane, 1,1,2,2-tetrachloro-  
CAS No. 78345

23 <sup>\*</sup> J

CRQL = Contract Required Quantitation Limit

\* This compound is believed to be an artifact from the extraction procedure. If this were real, it would

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9000-405 Sampling Date: 2/8-2/9/90  
9000-426 2/12/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No.<br>Dilution Factor<br>Location          | SW-10 | SW-11 | SW-11MS | SW-11MSD | SW-12 | SW-12MS | SW-12MSD | SW-13          | SW-14 |
|--|-------|-------|---------|----------|-------|---------|----------|----------------|-------|
|  | 1.0   | 1.0   | 1.0     | 1.0      | 1.0   | 1.0     | 1.0      | NOT<br>Sampled | 1.0   |
| COMPOUND   |       |       |         |          |       |         |          |                |       |
| 5-methyl-2,4,6-tribromopyrimin<br>CAS No. 64188814 | 8 J   |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |
|  |       |       |         |          |       |         |          |                |       |

CRQL = Contract Required Quantitation Limit



DATA SUMMARY FORM: T E N T A T I V E L Y I N D E N T I F I E D C O M P O U N D S

Site Name: Golden Road Disposal Site

WATER SAMPLES  
(ug/L)

Case #: 872.001 Sampling Date: 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No.<br>Dilution Factor<br>Location     | L1   |    | L1RE |    |   |  |  |  |  |  |  |  |
|---|------|----|------|----|---|--|--|--|--|--|--|--|
|   | 1.0  |    | 1.0  |    |   |  |  |  |  |  |  |  |
| COMPOUND                                      | CRQL |    |      |    |   |  |  |  |  |  |  |  |
| CAS 134623<br>Benzamide,<br>N,N-diethyl-3-met |      | 16 | J    | 14 | J |  |  |  |  |  |  |  |
| phenol, bis dimethylethyl                     |      | 18 | J    | 16 | J |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |
|   |      |    |      |    |   |  |  |  |  |  |  |  |

CRQL = Contract Required Quantitation Limit



Site Name: Golden Road Disposal Site

WATER SAMPLES  
(ug/L)

Case #: 872.001 Sampling Date(s): 6/15/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No. | Dilution Factor             | Location |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|-----------------------------|----------|------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|            | <u>1.0</u>                  |          | <u>L1</u>  | <u>L1RE</u> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|            | <u>1.0</u>                  |          | <u>1.0</u> |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CRQL       | COMPOUND                    |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Phenol                      |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | bis(2-Chloroethyl)ether     |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 2-Chlorophenol              |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | *1,3-Dichlorobenzene        |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | *1,4-Dichlorobenzene        |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Benzyl Alcohol              |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 1,2-Dichlorobenzene         |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 2-Methylphenol              |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | bis(2-Chloroisopropyl)ether |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 4-Methylphenol              |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | N-Nitroso-di-n-propylamine  |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Hexachloroethane            |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Nitrobenzene                |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Isophorone                  |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 2-Nitrophenol               |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 2,4-Dimethylphenol          |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50         | Benzoic Acid                |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | bis(2-Chloroethoxy)methane  |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 2,4-Dichlorophenol          |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 1,2,4-Trichlorobenzene      |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Naphthalene                 |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 4-Chloroaniline             |          |            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9000.380 Sampling Date(s): 2/6/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRQL | COMPOUND                    | Sample No. | Dilution Factor | Location |  |  |  |  |  |  |  |  |  |  |  |  |
|------|-----------------------------|------------|-----------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                             | SW-15      | 60              |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Phenol                      |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | bis(2-Chloroethyl)ether     |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 2-Chlorophenol              |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | *1,3-Dichlorobenzene        |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | *1,4-Dichlorobenzene        |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzyl Alcohol              |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 1,2-Dichlorobenzene         |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 2-Methylphenol              |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | bis(2-Chloroisopropyl)ether |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 4-Methylphenol              |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | N-Nitroso-di-n-propylamine  |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Hexachloroethane            |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Nitrobenzene                |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Isophorone                  |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 2-Nitrophenol               |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 2,4-Dimethylphenol          |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 50   | Benzoic Acid                |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | bis(2-Chloroethoxy)methane  |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 2,4-Dichlorophenol          |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 1,2,4-Trichlorobenzene      |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Naphthalene                 |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 4-Chloroaniline             |            |                 |          |  |  |  |  |  |  |  |  |  |  |  |  |

CRQL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

Site Name: Golden Road Disposal Site

WATER SAMPLES  
(ug/L)

Case #: 9000.405 Sampling Date(s): 2/8-2/9/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRQL | COMPOUND                    | SW-1            | SW-2            | SW-3            | SW-4            | SW-5            | SW-6            | SW-7            | SW-8            | SW-9            |
|------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|      |                             | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor | Dilution Factor |
|      | Location                    | 1.0             | 1.0             | 1.0             | 1.0             | 1.0             | 1.0             | 1.0             | 1.0             | 1.0             |
| 10   | Phenol                      |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | bis(2-Chloroethyl)ether     |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | 2-Chlorophenol              |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | *1,3-Dichlorobenzene        |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | *1,4-Dichlorobenzene        |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | Benzyl Alcohol              |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | 1,2 Dichlorobenzene         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | 2-Methylphenol              |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | bis(2-Chloroisopropyl)ether |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | 4-Methylphenol              |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | N-Nitroso-di-n-propylamine  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | Hexachloroethane            |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | Nitrobenzene                |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | Isophorone                  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | 2-Nitrophenol               |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | 2,4-Dimethylphenol          |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 50   | Benzoic Acid                |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | bis(2-Chloroethoxy)methane  |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | 2,4 Dichlorophenol          |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | 1,2,4-Trichlorobenzene      |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | Naphthalene                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 10   | 4-Chloroaniline             |                 |                 |                 |                 |                 |                 |                 |                 |                 |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Site Name: Golden Road Disposal site

WATER SAMPLES  
(ug/L)

Case #: 9000.405 Sampling Date(s): 2/6-2/9/90  
9000.426  
9000.380  
 2/12/90  
 2/6/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No. | Dilution Factor             | Location | SW-10 | SW-11 | SW-11MS | SW-11MSD | SW-12 | SW-12MS | SW-12MSD | SW-13 | SW-14       |     |
|------------|-----------------------------|----------|-------|-------|---------|----------|-------|---------|----------|-------|-------------|-----|
|            |                             |          | 1.0   | 1.0   | 1.0     | 1.0      | 1.0   | 1.0     | 1.0      | 1.0   | NOT Sampled | 1.0 |
| CRQL       | COMPOUND                    |          |       |       |         |          |       |         |          |       |             |     |
| 10         | Phenol                      |          |       |       |         |          |       |         |          |       |             |     |
| 10         | bis(2-Chloroethyl)ether     |          |       |       |         |          |       |         |          |       |             |     |
| 10         | 2-Chlorophenol              |          |       |       |         |          |       |         |          |       |             |     |
| 10         | *1,3-Dichlorobenzene        |          |       |       |         |          |       |         |          |       |             |     |
| 10         | *1,4-Dichlorobenzene        |          |       |       |         |          |       |         |          |       |             |     |
| 10         | Benzyl Alcohol              |          |       |       |         |          |       |         |          |       |             |     |
| 10         | 1,2-Dichlorobenzene         |          |       |       |         |          |       |         |          |       |             |     |
| 10         | 2-Methylphenol              |          |       |       |         |          |       |         |          |       |             |     |
| 10         | bis(2-Chloroisopropyl)ether |          |       |       |         |          |       |         |          |       |             |     |
| 10         | 4-Methylphenol              |          |       |       |         |          |       |         |          |       |             |     |
| 10         | N-Nitroso-di-n-propylamine  |          |       |       |         |          |       |         |          |       |             |     |
| 10         | Hexachloroethane            |          |       |       |         |          |       |         |          |       |             |     |
| 10         | Nitrobenzene                |          |       |       |         |          |       |         |          |       |             |     |
| 10         | Isophorone                  |          |       |       |         |          |       |         |          |       |             |     |
| 10         | 2-Nitrophenol               |          |       |       |         |          |       |         |          |       |             |     |
| 10         | 2,4-Dimethylphenol          |          |       |       |         |          |       |         |          |       |             |     |
| 50         | Benzoic Acid                |          |       |       |         |          |       |         |          |       |             |     |
| 10         | bis(2-Chloroethoxy)methane  |          |       |       |         |          |       |         |          |       |             |     |
| 10         | 2,4-Dichlorophenol          |          |       |       |         |          |       |         |          |       |             |     |
| 10         | 1,2,4-Trichlorobenzene      |          |       |       |         |          |       |         |          |       |             |     |
| 10         | Naphthalene                 |          |       |       |         |          |       |         |          |       |             |     |
| 10         | 4-Chloroaniline             |          |       |       |         |          |       |         |          |       |             |     |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

Site Name: Golden Road Disposal Site

WATER SAMPLES  
(ug/L)

Case #: 872-002 Sampling Date(s): Aug 24, 1990

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRQL | COMPOUND                    | Sample No.      | Drill-Rig | Drill-Rig NS | Drill-Rig MSD |  |  |  |  |  |  |  |  |  |  |
|------|-----------------------------|-----------------|-----------|--------------|---------------|--|--|--|--|--|--|--|--|--|--|
|      |                             | Dilution Factor | 1.0       | 1.0          | 1.0           |  |  |  |  |  |  |  |  |  |  |
|      | Location                    |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | Phenol                      |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | bis(2-Chloroethyl)ether     |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | 2-Chlorophenol              |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | *1,3-Dichlorobenzene        |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | *1,4-Dichlorobenzene        |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzyl Alcohol              |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | 1,2-Dichlorobenzene         |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | 2-Methylphenol              |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | bis(2-Chloroisopropyl)ether |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | 4-Methylphenol              |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | N-Nitroso-di-n-propylamine  |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | Hexachloroethane            |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | Nitrobenzene                |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | Isophorone                  |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | 2-Nitrophenol               |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | 2,4-Dimethylphenol          |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 50   | Benzoic Acid                |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | bis(2-Chloroethoxy)methane  |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | 2,4-Dichlorophenol          |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | 1,2,4-Trichlorobenzene      |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | Naphthalene                 |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |
| 10   | 4-Chloroaniline             |                 |           |              |               |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9000.380 Sampling Date(s): 2/6-2/7/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRQL | COMPOUND                    | GW-1 | GW-2 | GW-2RE | GW-3 | GW-4 | GW-5 | GW-6 | GW-7 |
|------|-----------------------------|------|------|--------|------|------|------|------|------|
|      |                             | 1.0  | 1.0  | 1.0    | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| 10   | Phenol                      |      |      |        |      |      |      |      |      |
| 10   | bis(2-Chloroethyl)ether     |      |      |        |      |      |      |      |      |
| 10   | 2-Chlorophenol              |      |      |        |      |      |      |      |      |
| 10   | *1,3-Dichlorobenzene        |      |      |        |      |      |      |      |      |
| 10   | *1,4-Dichlorobenzene        |      |      |        |      |      |      |      |      |
| 10   | Benzyl Alcohol              |      |      |        |      |      |      |      |      |
| 10   | 1,2-Dichlorobenzene         |      |      |        |      |      |      |      |      |
| 10   | 2-Methylphenol              |      |      |        |      |      |      |      |      |
| 10   | bis(2-Chloroisopropyl)ether |      |      |        |      |      |      |      |      |
| 10   | 4-Methylphenol              |      |      |        |      |      |      |      |      |
| 10   | N-Nitroso-di-n-propylamine  |      |      |        |      |      |      |      |      |
| 10   | Hexachloroethane            |      |      |        |      |      |      |      |      |
| 10   | Nitrobenzene                |      |      |        |      |      |      |      |      |
| 10   | Isophorone                  |      |      |        |      |      |      |      |      |
| 10   | 2-Nitrophenol               |      |      |        |      |      |      |      |      |
| 10   | 2,4-Dimethylphenol          |      |      |        |      |      |      |      |      |
| 50   | Benzoic Acid                |      |      |        |      |      |      |      |      |
| 10   | bis(2-Chloroethoxy)methane  |      |      |        |      |      |      |      |      |
| 10   | 2,4-Dichlorophenol          |      |      |        |      |      |      |      |      |
| 10   | 1,2,4-Trichlorobenzene      |      |      |        |      |      |      |      |      |
| 10   | Naphthalene                 |      |      |        |      |      |      |      |      |
| 10   | 4-Chloroaniline             |      |      |        |      |      |      |      |      |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

F-116

revised 12/88

DATA SUMMARY FORM: B N A S

Site Name: Golden Road Deposal Site  
 Case #: 872-001 Sampling Date(s): 6/15/90

WATER SAMPLES  
(ug/L)

To calculate sample quantitation limit:  
(CRDL \* Dilution Factor)

recycled paper  
recycled paper

Sample No.  
Dilution Factor  
Location

|            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <u>4</u>   | <u>4RF</u> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>1.0</u> | <u>1.0</u> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRDL | COMPOUND

|    |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 10 | Hexachlorobutadiene        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 4-Chloro-3-methylphenol    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 2-Methylnaphthalene        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Hexachlorocyclopentadiene  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 2,4,6-Trichlorophenol      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 2,4,5-Trichlorophenol      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 2-Chloronaphthalene        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 2-Nitroaniline             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Dimethylphthalate          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Acenaphthylene             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 2,6-Dinitrotoluene         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 3-Nitroaniline             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Acenaphthene               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 2,4-Dinitrophenol          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 4-Nitrophenol              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Dibenzofuran               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 2,4-Dinitrotoluene         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Diethylphthalate           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 4-Chlorophenyl-phenylether |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Fluorene                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 4-Nitroaniline             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 4,6-Dinitro-2-methylphenol |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9000-905 Sampling Date(s): 2/8-2/9/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No. | Dilution Factor            | Location | SW-1 | SW-2 | SW-3 | SW-4 | SW-5 | SW-6 | SW-7 | SW-8 | SW-9 |  |
|------------|----------------------------|----------|------|------|------|------|------|------|------|------|------|--|
|            |                            |          | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |  |
| CRQL       | COMPOUND                   |          |      |      |      |      |      |      |      |      |      |  |
| 10         | Hexachlorobutadiene        |          |      |      |      |      |      |      |      |      |      |  |
| 10         | 4-Chloro-3-methylphenol    |          |      |      |      |      |      |      |      |      |      |  |
| 10         | 2-Methylnaphthalene        |          |      |      |      |      |      |      |      |      |      |  |
| 10         | Hexachlorocyclopentadiene  |          |      |      |      |      |      |      |      |      |      |  |
| 10         | 2,4,6-Trichlorophenol      |          |      |      |      |      |      |      |      |      |      |  |
| 50         | 2,4,5-Trichlorophenol      |          |      |      |      |      |      |      |      |      |      |  |
| 10         | 2-Chloronaphthalene        |          |      |      |      |      |      |      |      |      |      |  |
| 50         | 2-Nitroaniline             |          |      |      |      |      |      |      |      |      |      |  |
| 10         | Dimethylphthalate          |          |      |      |      |      |      |      |      |      |      |  |
| 10         | Acenaphthylene             |          |      |      |      |      |      |      |      |      |      |  |
| 10         | 2,6-Dinitrotoluene         |          |      |      |      |      |      |      |      |      |      |  |
| 50         | 3-Nitroaniline             |          |      |      |      |      |      |      |      |      |      |  |
| 10         | Acenaphthene               |          |      |      |      |      |      |      |      |      |      |  |
| 50         | 2,4-Dinitrophenol          |          |      |      |      |      |      |      |      |      |      |  |
| 50         | 4-Nitrophenol              |          |      |      |      |      |      |      |      |      |      |  |
| 10         | Dibenzoluran               |          |      |      |      |      |      |      |      |      |      |  |
| 10         | 2,4-Dinitrotoluene         |          |      |      |      |      |      |      |      |      |      |  |
| 10         | Diethylphthalate           |          |      |      |      |      |      |      |      |      |      |  |
| 10         | 4-Chlorophenyl-phenylether |          |      |      |      |      |      |      |      |      |      |  |
| 10         | Fluorene                   |          |      |      |      |      |      |      |      |      |      |  |
| 50         | 4-Nitroaniline             |          |      |      |      |      |      |      |      |      |      |  |
| 50         | 4,6-Dinitro-2-methylphenol |          |      |      |      |      |      |      |      |      |      |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS



Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9000.405 Sampling Date(s): 2/8-2/9/90  
9000.426 2/12/90

To calculate sample quantitation limit:  
(CRQL • Dilution Factor)

| RQL | COMPOUND                   | Sample No.      | SW-10 | SW-11 | SW-11MS | SW-11MSD | SW-12 | SW-12MS | SW-12MSD | SW-13          | SW-14 |
|-----|----------------------------|-----------------|-------|-------|---------|----------|-------|---------|----------|----------------|-------|
|     |                            | Dilution Factor | 1.0   | 1.0   | 1.0     | 1.0      | 1.0   | 1.0     | 1.0      | 1.0            | 1.0   |
|     | Location                   |                 |       |       |         |          |       |         |          | NOT<br>sampled | 1.0   |
| 10  | Hexachlorobutadiene        |                 |       |       |         |          |       |         |          |                |       |
| 10  | 4-Chloro-3-methylphenol    |                 |       |       |         |          |       |         |          |                |       |
| 10  | 2-Methylnaphthalene        |                 |       |       |         |          |       |         |          |                |       |
| 10  | Hexachlorocyclopentadiene  |                 |       |       |         |          |       |         |          |                |       |
| 10  | 2,4,6-Trichlorophenol      |                 |       |       |         |          |       |         |          |                |       |
| 50  | 2,4,5-Trichlorophenol      |                 |       |       |         |          |       |         |          |                |       |
| 10  | 2-Chloronaphthalene        |                 |       |       |         |          |       |         |          |                |       |
| 50  | 2-Nitroaniline             |                 |       |       |         |          |       |         |          |                |       |
| 10  | Dimethylphthalate          |                 |       |       |         |          |       |         |          |                |       |
| 10  | Acenaphthylene             |                 |       |       |         |          |       |         |          |                |       |
| 10  | 2,6-Dinitrotoluene         |                 |       |       |         |          |       |         |          |                |       |
| 50  | 3-Nitroaniline             |                 |       |       |         |          |       |         |          |                |       |
| 10  | Acenaphthene               |                 |       |       |         |          |       |         |          |                |       |
| 50  | 2,4-Dinitrophenol          |                 |       |       |         |          |       |         |          |                |       |
| 50  | 4-Nitrophenol              |                 |       |       |         |          |       |         |          |                |       |
| 10  | Dibenzofuran               |                 |       |       |         |          |       |         |          |                |       |
| 10  | 2,4-Dinitrotoluene         |                 |       |       |         |          |       |         |          |                |       |
| 10  | Diethylphthalate           |                 |       |       |         |          |       |         |          |                |       |
| 10  | 4-Chlorophenyl phenylether |                 |       |       |         |          |       |         |          |                |       |
| 10  | Fluorene                   |                 |       |       |         |          |       |         |          |                |       |
| 50  | 4-Nitroaniline             |                 |       |       |         |          |       |         |          |                |       |
| 50  | 4,6-Dinitro-2-methylphenol |                 |       |       |         |          |       |         |          |                |       |

CRQL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9000-380 Sampling Date(s): 2/6/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

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ecology and environment

| Sample No. | Dilution Factor            | Location |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|----------------------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| SW-15      | 1.0                        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CRQL       | COMPOUND                   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Hexachlorobutadiene        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 4-Chloro-3-methylphenol    |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 2-Methylnaphthalene        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Hexachlorocyclopentadiene  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 2,4,6-Trichlorophenol      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50         | 2,4,5-Trichlorophenol      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 2-Chloronaphthalene        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50         | 2-Nitroaniline             |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Dimethylphthalate          |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Acenaphthylene             |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 2,6-Dinitrotoluene         |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50         | 3-Nitroaniline             |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Acenaphthene               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50         | 2,4-Dinitrophenol          |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50         | 4-Nitrophenol              |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Dibenzofuran               |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 2,4-Dinitrotoluene         |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Diethylphthalate           |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 4-Chlorophenyl-phenylether |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | Fluorene                   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50         | 4-Nitroaniline             |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50         | 4,6-Dinitro-2-methylphenol |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit      \*Action Level Exists      SEE NARRATIVE FOR CODE DEFINITIONS

Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9000.380 Sampling Date(s): 2/6-2/7/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

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Sample No.  
Dilution Factor  
Location

|      |      |         |      |      |      |      |      |
|------|------|---------|------|------|------|------|------|
| GW-1 | GW-2 | GW-2 RE | GW-3 | GW-4 | GW-5 | GW-6 | GW-7 |
| 1.0  | 1.0  | 1.0     | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |

CRQL COMPOUND

|    |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 10 | Hexachlorobutadiene        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 4-Chloro-3-methylphenol    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 2-Methylnaphthalene        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Hexachlorocyclopentadiene  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 2,4,6-Trichlorophenol      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 2,4,5-Trichlorophenol      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 2-Chloronaphthalene        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 2-Nitroaniline             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Dimethylphthalate          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Acenaphthylene             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 2,6-Dinitrotoluene         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 3-Nitroaniline             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Acenaphthene               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 2,4-Dinitrophenol          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 4-Nitrophenol              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | D.benzofuran               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 2,4-Dinitrotoluene         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Diethylphthalate           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 4-Chlorophenyl phenylether |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Fluorene                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 4-Nitroaniline             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 | 4,6-Dinitro-2-methylphenol |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

Site Name: GOLDEN ROAD DISPOSAL SITE

WATER SAMPLES  
(ug/L)

Case #: 872.002 Sampling Date(s): 8/24/89

To calculate sample quantitation limit:  
(CRDL \* Dilution Factor)

| RQL | COMPOUND                   | Sample No. | Dilution Factor | Location | DRILL RIG MS | DRILL RIG MSD |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|----------------------------|------------|-----------------|----------|--------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
|     |                            | DE10-016   | 1.0             |          | 1.0          | 1.0           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | Hexachlorobutadiene        |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | 4-Chloro-3-methylphenol    |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | 2-Methylnaphthalene        |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | Hexachlorocyclopentadiene  |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | 2,4,6-Trichlorophenol      |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50  | 2,4,5-Trichlorophenol      |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | 2-Chloronaphthalene        |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50  | 2-Nitroaniline             |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | Dimethylphthalate          |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | Acenaphthylene             |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | 2,6-Dinitrotoluene         |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50  | 3-Nitroaniline             |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | Acenaphthene               |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50  | 2,4-Dinitrophenol          |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50  | 4-Nitrophenol              |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | Dibenzofuran               |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | 2,4-Dinitrotoluene         |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | Diethylphthalate           |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | 4-Chlorophenyl-phenylether |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | Fluorene                   |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50  | 4-Nitroaniline             |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50  | 4,6-Dinitro-2-methylphenol |            |                 |          |              |               |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

DATA SUMMARY FORM: B N A S

3

Site Name: Golden Road Disposal Site  
 Case #: 872.001 Sampling Date(s): 6/15/90

WATER SAMPLES  
(ug/L)

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRDL | COMPOUND                   | Sample No. | Dilution Factor | Location |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
|------|----------------------------|------------|-----------------|----------|---|----|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                            | L1         | L1RE            |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | N-Nitrosodiphenylamine     |            | 1.0             |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 4-Bromophenyl-phenylether  |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | *Hexachlorobenzene         |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 50   | *Pentachlorophenol         |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Phenanthrene               |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Anthracene                 |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Di-n-butylphthalate        |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Fluoranthene               |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Pyrene                     |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Butylbenzylphthalate       |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 20   | 3,3-Dichlorobenzidine      |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(a)anthracene         |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Chrysene                   |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | bis(2-Ethylhexyl)phthalate |            | 5               | BT       | 4 | BT |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Di-n-octylphthalate        |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(b)fluoranthene       |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(k)fluoranthene       |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(a)pyrene             |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Indeno(1,2,3-cd)pyrene     |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Dibenz(a,h)anthracene      |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(g,h,i)perylene       |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88

Site Name: Golden Rd.

WATER SAMPLES  
(ug/L)

Case #: 9000.405 Sampling Date(s): 2/8-2/9/90

To calculate sample quantitation limits  
(CRQL \* Dilution Factor)

| Sample No. | Dilution Factor           | Location | SW-1 | SW-2 | SW-3 | SW-4 | SW-5 | SW-6 | SW-7 | SW-8 | SW-9 |   |    |   |    |   |    |   |
|------------|---------------------------|----------|------|------|------|------|------|------|------|------|------|---|----|---|----|---|----|---|
|            | 1.0                       |          | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |   |    |   |    |   |    |   |
| CRDL       | COMPOUND                  |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | N-Nitrosodiphenylamine    |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | 4-Bromophenyl-phenylether |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | *Hexachlorobenzene        |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 50         | *Pentachlorophenol        |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | Phenanthrene              |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | Anthracene                |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | 7                         | BJ       |      |      |      |      |      |      |      |      |      | 2 | J  |   |    |   |    |   |
| 10         | 2                         | J        |      |      |      |      |      |      |      |      |      | 5 | J  |   |    |   |    |   |
| 10         | 2                         | J        |      |      |      |      |      |      |      |      |      | 6 | J  |   |    |   |    |   |
| 10         | Butylbenzylphthalate      |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 20         | 3,3-Dichlorobenzidine     |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | 1                         | J        |      |      |      |      |      |      |      |      |      | 2 | J  |   |    |   |    |   |
| 10         | 2                         | J        |      |      |      |      |      |      |      |      |      | 4 | J  |   |    |   |    |   |
| 10         | 36                        | B        | 13   | B    | 11   | B    | 22   | B    | 11   | B    | 18   | B | 17 | B | 22 | B | 12 | B |
| 10         | Di-n-octylphthalate       |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | 3                         | J        |      |      |      |      |      |      |      |      |      | 5 | J  |   |    |   |    |   |
| 10         | Benzo(b)fluoranthene      |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | 2                         | J        |      |      |      |      |      |      |      |      |      | 2 | J  |   |    |   |    |   |
| 10         | Benzo(a)pyrene            |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | Indeno(1,2,3-cd)pyrene    |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | Dibenz(a,h)anthracene     |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |
| 10         | 2                         | J        |      |      |      |      |      |      |      |      |      | 1 | J  |   |    |   |    |   |
| 10         | Benzo(g,h,i)perylene      |          |      |      |      |      |      |      |      |      |      |   |    |   |    |   |    |   |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Site Name: Golden Rd.

WATER SAMPLES  
(ug/L)

Case #: 9000-405 Sampling Date(s): 2/8-2/19/90  
9000-426 2/12/90

To calculate sample quantitation limits  
(CRQL \* Dilution Factor)

| CRDL | COMPOUND                   | Sample No.      | SW-10 | SW-11 | SW-11 MS | SW-11MSD | SW-12 | SW-12MS | SW-12MSD | SW-13       | SW-14 |
|------|----------------------------|-----------------|-------|-------|----------|----------|-------|---------|----------|-------------|-------|
|      |                            | Dilution Factor | 1.0   | 1.0   | 1.0      | 1.0      | 1.0   | 1.0     | 1.0      | 1.0         | 1.0   |
|      |                            | Location        |       |       |          |          |       |         |          | NOT Sampled |       |
| 10   | N Nitrosodiphenylamine     |                 |       |       |          |          |       |         |          |             |       |
| 10   | 4-Bromophenyl phenylether  |                 |       |       |          |          |       |         |          |             |       |
| 10   | *Hexachlorobenzene         |                 |       |       |          |          |       |         |          |             |       |
| 50   | *Pentachlorophenol         |                 |       |       |          |          |       |         |          |             |       |
| 10   | Phenanthrene               |                 |       |       |          |          |       |         |          |             |       |
| 10   | Anthracene                 |                 |       |       |          |          |       |         |          |             |       |
| 10   | Di n butylphthalate        |                 |       |       |          |          | 3 BT  | 3 BT    | 10 BT    |             | 5 BT  |
| 10   | Fluoranthene               |                 |       |       |          |          |       |         |          |             |       |
| 10   | Pyrene                     |                 |       |       |          |          |       |         |          |             |       |
| 10   | Butylbenzylphthalate       |                 |       |       |          |          |       |         |          |             |       |
| 20   | 3,3-Dichlorobenzidine      |                 |       |       |          |          |       |         |          |             |       |
| 10   | Benzo(a)anthracene         |                 |       |       |          |          |       |         |          |             |       |
| 10   | Chrysene                   |                 |       |       |          |          |       |         |          |             |       |
| 10   | bis(2 Ethylhexyl)phthalate |                 | 13 B  | 17 B  | 15 BT    | 9 BT     | 46 B  | 42 B    | 24 B     |             | 12 B  |
| 10   | Di n-octylphthalate        |                 |       |       |          |          |       |         |          |             |       |
| 10   | Benzo(b)fluoranthene       |                 |       |       |          |          |       |         |          |             |       |
| 10   | Benzo(k)fluoranthene       |                 |       |       |          |          |       |         |          |             |       |
| 10   | Benzo(a)pyrene             |                 |       |       |          |          |       |         |          |             |       |
| 10   | Indeno(1,2,3-cd)pyrene     |                 |       |       |          |          |       |         |          |             |       |
| 10   | Dibenz(a,h)anthracene      |                 |       |       |          |          |       |         |          |             |       |
| 10   | Benzo(g,h)perylene         |                 |       |       |          |          |       |         |          |             |       |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

F-125

revised 12/88

Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9000.380 Sampling Date(s): 2/6/90

To calculate sample quantitation limits  
(CRQL \* Dilution Factor)

| CRDL | COMPOUND                   | Sample No. | Dilution Factor | Location |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
|------|----------------------------|------------|-----------------|----------|---|----|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                            | SW-15      | 1.0             |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | N-Nitrosodiphenylamine     |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | 4-Bromophenyl-phenylether  |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | *Hexachlorobenzene         |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 50   | *Pentachlorophenol         |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Phenanthrene               |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Anthracene                 |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Di-n-butylphthalate        |            |                 |          | 2 | BT |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Fluoranthene               |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Pyrene                     |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Butylbenzylphthalate       |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 20   | 3,3-Dichlorobenzidine      |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(a)anthracene         |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Chrysene                   |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | bis(2-Ethylhexyl)phthalate |            |                 |          | 8 | BT |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Di-n-octylphthalate        |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(b)fluoranthene       |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(k)fluoranthene       |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(a)pyrene             |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Indeno(1,2,3-cd)pyrene     |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Dibenz(a,h)anthracene      |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(g,h)perylene         |            |                 |          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 12/88



Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9000-380 Sampling Date(s): 2/6-2/7/90

To calculate sample quantitation limits  
(CRDL \* Dilution Factor)

| Sample No.      | GW-1     | GW-2 | GW-2 RE | GW-3 | GW-4  | GW-5 | GW-6 | GW-7 |  |
|-----------------|----------|------|---------|------|-------|------|------|------|--|
| Dilution Factor | 1.0      | 1.0  | 1.0     | 1.0  | 1.0   | 1.0  | 1.0  | 1.0  |  |
| Location        |          |      |         |      |       |      |      |      |  |
| CRDL            | COMPOUND |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 50              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              | 2 BJ     | 2 J  | 2 BJ    | 1 J  | 18 BJ | 9 BJ | 13 B | 2 BJ |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 20              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              | 11 B     | 11 B | 13 B    | 9 BJ | 29 B  | 48 B | 22 B | 45 B |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |
| 10              |          |      |         |      |       |      |      |      |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Site Name: Golden Pond Disposal Site

WATER SAMPLES  
(ug/L)

Case #: 872.002 Sampling Date(s): Aug 24, 1989

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRDL | COMPOUND                   | Sample No.      | Drill-Rig | Drill-Rig | Drill-Rig |  |  |  |  |  |  |  |  |  |
|------|----------------------------|-----------------|-----------|-----------|-----------|--|--|--|--|--|--|--|--|--|
|      |                            | Dilution Factor | MSD       | MSD       | MSD       |  |  |  |  |  |  |  |  |  |
|      | Location                   |                 |           |           |           |  |  |  |  |  |  |  |  |  |
|      |                            | 1.0             | 1.0       | 1.0       |           |  |  |  |  |  |  |  |  |  |
| 10   | N-Nitrosodiphenylamine     |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | 4-Bromophenyl-phenylether  |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | *Hexachlorobenzene         |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 50   | *Pentachlorophenol         |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Phenanthrene               |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Anthracene                 |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Di-n-butylphthalate        |                 | 23        | 38        | 35        |  |  |  |  |  |  |  |  |  |
| 10   | Fluoranthene               |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Pyrene                     |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Butylbenzylphthalate       |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 20   | 3,3-Dichlorobenzidine      |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(a)anthracene         |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Chrysene                   |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | bis(2-Ethylhexyl)phthalate |                 |           | 4 BJ      | 8 BJ      |  |  |  |  |  |  |  |  |  |
| 10   | Di-n-octylphthalate        |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(b)fluoranthene       |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(k)fluoranthene       |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(a)pyrene             |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Indeno(1,2,3-cd)pyrene     |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Dibenz(a,h)anthracene      |                 |           |           |           |  |  |  |  |  |  |  |  |  |
| 10   | Benzo(g,h,i)perylene       |                 |           |           |           |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Golden Road Disposal Site

WATER SAMPLES  
(ug/L)

Case #: 872-001 Sampling Date(s): 6/15/89

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRQL | COMPOUND             | Sample No. | Dilution Factor | Location |  |  |  |  |  |  |  |  |  |  |
|------|----------------------|------------|-----------------|----------|--|--|--|--|--|--|--|--|--|--|
|      |                      | 41         | 1.0             |          |  |  |  |  |  |  |  |  |  |  |
| 0.05 | alpha-BHC            |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.05 | beta-BHC             |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.05 | delta-BHC            |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.05 | *Gamma-BHC (Lindane) |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.05 | *Heptachlor          |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.05 | Alin                 |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.05 | Heptachlor Epoxide   |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.05 | Endosulfan I         |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.10 | Dieldrin             |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.10 | 4,4'-DDE             |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.10 | *Endrin              |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.10 | Endosulfan II        |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.10 | 4,4'-DDD             |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.10 | Endosulfan Sulfate   |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.10 | 4,4'-DDT             |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Methoxychlor        |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.10 | Endrin ketone        |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Alpha-Chlordane     |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Gamma-Chlordane     |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 1.0  | *Toxaphene           |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Aroclor-1016        |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Aroclor-1221        |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Aroclor-1232        |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Aroclor-1242        |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Aroclor-1248        |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 1.0  | *Aroclor-1254        |            |                 |          |  |  |  |  |  |  |  |  |  |  |
| 1.0  | *Aroclor-1260        |            |                 |          |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit      \*Action Level Exists      SEE NARRATIVE FOR CODE DEFINITIONS      revised 12/88

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Golden Road Disposal Site

WATER SAMPLES  
(ug/L)

Case #: 9000-405 Sampling Date(s): 2/8-2/9/90  
9000-426 5/12/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| Sample No.<br>Dilution Factor<br>Location | SW-1                 | SW-2 | SW-3 | SW-4 | SW-5 | SW-6 | SW-7 | SW-8 | SW-9 |
|---|----------------------|------|------|------|------|------|------|------|------|
|   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| CRQL                                      | COMPOUND             |      |      |      |      |      |      |      |      |
| 0.05                                      | alpha-BHC            |      |      |      |      |      |      |      |      |
| 0.05                                      | beta-BHC             |      |      |      |      |      |      |      |      |
| 0.05                                      | delta-BHC            |      |      |      |      |      |      |      |      |
| 0.05                                      | *Gamma-BHC (Lindane) |      |      |      |      |      |      |      |      |
| 0.05                                      | *Heptachlor          |      |      |      |      |      |      |      |      |
| 0.05                                      | Aldrin               |      |      |      |      |      |      |      |      |
| 0.05                                      | Heptachlor Epoxide   |      |      |      |      |      |      |      |      |
| 0.05                                      | Endosulfan I         |      |      |      |      |      |      |      |      |
| 0.10                                      | Dieldrin             |      |      |      |      |      |      |      |      |
| 0.10                                      | 4,4'-DDE             |      |      |      |      |      |      |      |      |
| 0.10                                      | *Endrin              |      |      |      |      |      |      |      |      |
| 0.10                                      | Endosulfan II        |      |      |      |      |      |      |      |      |
| 0.10                                      | 4,4'-DDD             |      |      |      |      |      |      |      |      |
| 0.10                                      | Endosulfan Sulfate   |      |      |      |      |      |      |      |      |
| 0.10                                      | 4,4'-DDT             |      |      |      |      |      |      |      |      |
| 0.5                                       | *Methoxychlor        |      |      |      |      |      |      |      |      |
| 0.10                                      | Endrin ketone        |      |      |      |      |      |      |      |      |
| 0.5                                       | *Alpha-Chlordane     |      |      |      |      |      |      |      |      |
| 0.5                                       | *Gamma-Chlordane     |      |      |      |      |      |      |      |      |
| 1.0                                       | *Toxaphene           |      |      |      |      |      |      |      |      |
| 0.5                                       | *Aroclor-1016        |      |      |      |      |      |      |      |      |
| 0.5                                       | *Aroclor-1221        |      |      |      |      |      |      |      |      |
| 0.5                                       | *Aroclor-1232        |      |      |      |      |      |      |      |      |
| 0.5                                       | *Aroclor-1242        |      |      |      |      |      |      |      |      |
| 0.5                                       | *Aroclor-1248        |      |      |      |      |      |      |      |      |
| 1.0                                       | *Aroclor-1254        |      |      |      |      |      |      |      |      |
| 1.0                                       | *Aroclor-1260        |      |      |      |      |      |      |      |      |

CRDL = Contract Required Detection Limit

\*Action Level Exists

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DATA SUMMARY FORM: P E S T I C I D E S . A N D P C B S

Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 7000-405 Sampling Date(s): 2/8-2/9/90  
7000-426  
7000-380  
2/12/90  
2/16/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRQL | COMPOUND             | Sample No. | Dilution Factor | Location | SW-10 | SW-11 | SW-12 | SW-13          | SW-14 | SW-15 | SW-16 | SW-17 | SW-18 |
|------|----------------------|------------|-----------------|----------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|
|      |                      |            |                 |          | 1.0   | 1.0   | 1.0   |                | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
|      |                      |            |                 |          |       |       |       | NOT<br>sampled |       |       |       |       |       |
| 0.05 | alpha-BHC            |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.05 | beta BHC             |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.05 | delta BHC            |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.05 | *Gamma-BHC (Lindane) |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.05 | *Heptachlor          |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.05 | Aldrin               |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.05 | Heptachlor Epoxide   |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.05 | Endosulfan I         |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.10 | Dieldrin             |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.10 | 4,4'-DDE             |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.10 | *Endrin              |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.10 | Endosulfan II        |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.10 | 4,4'-DDD             |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.10 | Endosulfan Sulfate   |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.10 | 4,4'-DDT             |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.5  | *Methoxychlor        |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.10 | Endrin ketone        |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.5  | *Alpha-Chlordane     |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.5  | *Gamma-Chlordane     |            |                 |          |       |       |       |                |       |       |       |       |       |
| 1.0  | *Toxaphene           |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.5  | *Aroclor-1016        |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.5  | *Aroclor-1221        |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.5  | *Aroclor-1232        |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.5  | *Aroclor-1242        |            |                 |          |       |       |       |                |       |       |       |       |       |
| 0.5  | *Aroclor-1248        |            |                 |          |       |       |       |                |       |       |       |       |       |
| 1.0  | *Aroclor-1254        |            |                 |          |       |       |       |                |       |       |       |       |       |
| 1.0  | *Aroclor-1260        |            |                 |          |       |       |       |                |       |       |       |       |       |

CRDL = Contract Required Detection Limit

\*Action Level Exists

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DATA SUMMARY FORM: PESTICIDES AND PCBs

Site Name: Golden Rd

WATER SAMPLES  
(ug/L)

Case #: 9000.380 Sampling Date(s): 2/6/90

To calculate sample quantitation limit:  
(CROL \* Dilution Factor)

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| CROL | COMPOUND             | Sample No.      | SW-19 | SW-20 | SW-21 | SW-22 | SW-23 | SW-19 MS | SW-19 MSD |  |  |
|------|----------------------|-----------------|-------|-------|-------|-------|-------|----------|-----------|--|--|
|      |                      | Dilution Factor | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0      | 1.0       |  |  |
|      |                      | Location        |       |       |       |       |       |          |           |  |  |
| 0.05 | alpha-BHC            |                 |       |       |       |       |       |          |           |  |  |
| 0.05 | beta-BHC             |                 |       |       |       |       |       |          |           |  |  |
| 0.05 | delta-BHC            |                 |       |       |       |       |       |          |           |  |  |
| 0.05 | *Gamma-BHC (Lindane) |                 |       |       |       |       |       |          |           |  |  |
| 0.05 | *Heptachlor          |                 |       |       |       |       |       |          |           |  |  |
| 0.05 | Aldrin               |                 |       |       |       |       |       |          |           |  |  |
| 0.05 | Heptachlor Epoxide   |                 |       |       |       |       |       |          |           |  |  |
| 0.05 | Endosulfan I         |                 |       |       |       |       |       |          |           |  |  |
| 0.10 | Dieldrin             |                 |       |       |       |       |       |          |           |  |  |
| 0.10 | 4,4'-DDE             |                 |       |       |       |       |       |          |           |  |  |
| 0.10 | *Endrin              |                 |       |       |       |       |       |          |           |  |  |
| 0.10 | Endosulfan II        |                 |       |       |       |       |       |          |           |  |  |
| 0.10 | 4,4'-DDD             |                 |       |       |       |       |       |          |           |  |  |
| 0.10 | Endosulfan Sulfate   |                 |       |       |       |       |       |          |           |  |  |
| 0.10 | 4,4'-DDT             |                 |       |       |       |       |       |          |           |  |  |
| 0.5  | *Methoxychlor        |                 |       |       |       |       |       |          |           |  |  |
| 0.10 | Endrin ketone        |                 |       |       |       |       |       |          |           |  |  |
| 0.5  | *Alpha-Chlordane     |                 |       |       |       |       |       |          |           |  |  |
| 0.5  | *Gamma-Chlordane     |                 |       |       |       |       |       |          |           |  |  |
| 1.0  | *Toxaphene           |                 |       |       |       |       |       |          |           |  |  |
| 0.5  | *Aroclor-1016        |                 |       |       |       |       |       |          |           |  |  |
| 0.5  | *Aroclor-1221        |                 |       |       |       |       |       |          |           |  |  |
| 0.5  | *Aroclor-1232        |                 |       |       |       |       |       |          |           |  |  |
| 0.5  | *Aroclor-1242        |                 |       |       |       |       |       |          |           |  |  |
| 0.5  | *Aroclor-1248        |                 |       |       |       |       |       |          |           |  |  |
| 1.0  | *Aroclor-1254        |                 |       |       |       |       |       |          |           |  |  |
| 1.0  | *Aroclor-1260        |                 |       |       |       |       |       |          |           |  |  |

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CROL = Contract Required Detection Limit

\*Action Level Exists

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DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: Golden Road

WATER SAMPLES  
(ug/L)

Case #: 9000.380 Sampling Date(s): 2/6-2/7/90

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

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| CRQL | COMPOUND             | Sample No.      | GW-1 | GW-2 | GW-3 | GW-4 | GW-4MS | GW-4MD | GW-5 | GW-6 | GW-7 |
|------|----------------------|-----------------|------|------|------|------|--------|--------|------|------|------|
|      |                      | Dilution Factor |      |      |      |      |        |        |      |      |      |
|      | Location             |                 |      |      |      |      |        |        |      |      |      |
| 0.05 | alpha-BHC            |                 |      |      |      |      |        |        |      |      |      |
| 0.05 | beta-BHC             |                 |      |      |      |      |        |        |      |      |      |
| 0.05 | delta BHC            |                 |      |      |      |      |        |        |      |      |      |
| 0.05 | *Gamma-BHC (Lindane) |                 |      |      |      |      |        |        |      |      |      |
| 0.05 | *Heptachlor          |                 |      |      |      |      |        |        |      |      |      |
| 0.05 | Aldrin               |                 |      |      |      |      |        |        |      |      |      |
| 0.05 | Heptachlor Epoxide   |                 |      |      |      |      |        |        |      |      |      |
| 0.05 | Endosulfan I         |                 |      |      |      |      |        |        |      |      |      |
| 0.10 | Dieldrin             |                 |      |      |      |      |        |        |      |      |      |
| 0.10 | 4,4' DDE             |                 |      |      |      |      |        |        |      |      |      |
| 0.10 | *Endrin              |                 |      |      |      |      |        |        |      |      |      |
| 0.10 | Endosulfan II        |                 |      |      |      |      |        |        |      |      |      |
| 0.10 | 4,4'-DDD             |                 |      |      |      |      |        |        |      |      |      |
| 0.10 | Endosulfan Sulfate   |                 |      |      |      |      |        |        |      |      |      |
| 0.10 | 4,4'-DDT             |                 |      |      |      |      |        |        |      |      |      |
| 0.5  | *Methoxychlor        |                 |      |      |      |      |        |        |      |      |      |
| 0.10 | Endrin ketone        |                 |      |      |      |      |        |        |      |      |      |
| 0.5  | *Alpha-Chlordane     |                 |      |      |      |      |        |        |      |      |      |
| 0.5  | *Gamma-Chlordane     |                 |      |      |      |      |        |        |      |      |      |
| 1.0  | *Toxaphene           |                 |      |      |      |      |        |        |      |      |      |
| 0.5  | *Aroclor-1016        |                 |      |      |      |      |        |        |      |      |      |
| 0.5  | *Aroclor-1221        |                 |      |      |      |      |        |        |      |      |      |
| 0.5  | *Aroclor-1232        |                 |      |      |      |      |        |        |      |      |      |
| 0.5  | *Aroclor-1242        |                 |      |      |      |      |        |        |      |      |      |
| 0.5  | *Aroclor-1248        |                 |      |      |      |      |        |        |      |      |      |
| 1.0  | *Aroclor-1254        |                 |      |      |      |      |        |        |      |      |      |
| 1.0  | *Aroclor-1260        |                 |      |      |      |      |        |        |      |      |      |

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CRDL = Contract Required Detection Limit

\*Action Level Exists

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DATA SUMMARY FORM: PESTICIDES AND PCBs

Site Name: Golden Road

WATER SAMPLES  
(ug/L)

Case #: 870-002 Sampling Date(s): Aug 24, 1989

To calculate sample quantitation limit:  
(CRQL \* Dilution Factor)

| CRQL | COMPOUND             | Sample No. | Dilution Factor | Location   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|----------------------|------------|-----------------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|      |                      | Drill-Rig  | Drill-Rigs      | Drill-Rigs |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|      |                      | 2.0        | 2.0             | 2.0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.05 | alpha-BHC            |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.05 | beta-BHC             |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.05 | delta-BHC            |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.05 | *Gamma-BHC (Lindane) |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.05 | *Heptachlor          |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.05 | Aldrin               |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.05 | Heptachlor Epoxide   |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.05 | Endosulfan I         |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.10 | Dieldrin             |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.10 | 4,4'-DDE             |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.10 | *Endrin              |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.10 | Endosulfan II        |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.10 | 4,4'-DDD             |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.10 | Endosulfan Sulfate   |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.10 | 4,4'-DDT             |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Methoxychlor        |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.10 | Endrin ketone        |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Alpha-Chlordane     |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Gamma-Chlordane     |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0  | *Toxaphene           |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Aroclor-1016        |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Aroclor-1221        |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Aroclor-1232        |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Aroclor-1242        |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.5  | *Aroclor-1248        |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0  | *Aroclor-1254        |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.0  | *Aroclor-1260        |            |                 |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CRDL = Contract Required Detection Limit

\*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS



1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: 10001549

GW-1

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: YU-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65317.06

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q<br>M | M<br>Q |
|-----------|-----------|---------------|---|--------|--------|
| 7429-90-5 | Aluminum  | 90500         |   |        | P      |
| 7440-36-0 | Antimony  | 55.0          | U |        | P      |
| 7440-38-2 | Arsenic   | 29.4          |   |        | F      |
| 7440-39-3 | Barium    | 761           |   |        | P      |
| 7440-41-7 | Beryllium | 2.0           | U |        | P      |
| 7440-43-9 | Cadmium   | 31.4          |   |        | P      |
| 7440-70-2 | Calcium   | 2,440,000     |   |        | P      |
| 7440-47-3 | Chromium  | 145           |   |        | P      |
| 7440-48-4 | Cobalt    | 61.7          |   |        | P      |
| 7440-50-8 | Copper    | 214           |   |        | P      |
| 7439-89-6 | Iron      | 243000        |   |        | P      |
| 7439-92-1 | Lead      | 364           |   |        | P      |
| 7439-95-4 | Magnesium | 840000        |   |        | P      |
| 7439-96-5 | Manganese | 8020          |   |        | P      |
| 7439-97-6 | Mercury   | 0.20          | U |        | CV     |
| 7440-02-0 | Nickel    | 158           |   |        | P      |
| 7440-09-7 | Potassium | 16700         |   |        | P      |
| 7782-49-2 | Selenium  | 5.0           | U | W      | F      |
| 7440-22-4 | Silver    | 10.0          | U |        | P      |
| 7440-23-5 | Sodium    | 61980         |   |        | P      |
| 7440-28-0 | Thallium  | 2.0           | U | W      | F      |
| 7440-62-2 | Vanadium  | 255           |   |        | P      |
| 7440-66-6 | Zinc      | 1320          |   |        | P      |
|           | Cyanide   | 10.0          | U |        | C      |

Color Before: BROWN

Clarity Before: CLOUDY

Texture: \_\_\_\_\_

Color After: YELLOW

Clarity After: CLOUDY

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DO01549

GW-1  
FILTERED

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: 1N-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 6537.07

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 100           | u |   | P  |
| 7440-36-0 | Antimony  | 55.0          | u |   | P  |
| 7440-38-2 | Arsenic   | 1.0           | w |   | F  |
| 7440-39-3 | Barium    | 68.3          | B |   | P  |
| 7440-41-7 | Beryllium | 3.0           | u |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | u |   | P  |
| 7440-70-2 | Calcium   | 15900         |   |   | P  |
| 7440-47-3 | Chromium  | 10.0          | u |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | u |   | P  |
| 7440-50-8 | Copper    | 10.0          | u |   | P  |
| 7439-89-6 | Iron      | 1140          |   |   | P  |
| 7439-92-1 | Lead      | 1.0           | u |   | F  |
| 7439-95-4 | Magnesium | 48500         |   |   | P  |
| 7439-96-5 | Manganese | 153           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | u |   | CV |
| 7440-02-0 | Nickel    | 15.0          | u |   | P  |
| 7440-09-7 | Potassium | 2240          | B |   | P  |
| 7782-49-2 | Selenium  | 1.0           | u | w | F  |
| 7440-22-4 | Silver    | 10.0          | u |   | P  |
| 7440-23-5 | Sodium    | 55500         |   |   | P  |
| 7440-28-0 | Thallium  | 2.0           | u |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | u |   | P  |
| 7440-66-6 | Zinc      | 33.6          |   |   | P  |
|           | Cyanide   |               |   |   | NR |

Color Before: CLEAR

Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: CLEAR

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: D001549

GW-2

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65318.06

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C   | Q | M  |
|-----------|-----------|---------------|-----|---|----|
| 7429-90-5 | Aluminum  | 128000        |     |   | P  |
| 7440-36-0 | Antimony  | 55.0          | U   |   | P  |
| 7440-38-2 | Arsenic   | 10.4          |     |   | F  |
| 7440-39-3 | Barium    | 1230          |     |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U   |   | P  |
| 7440-43-9 | Cadmium   | 38.0          |     |   | P  |
| 7440-70-2 | Calcium   | 2760000       |     |   | P  |
| 7440-47-3 | Chromium  | 217           |     |   | P  |
| 7440-48-4 | Cobalt    | 88.3          |     |   | P  |
| 7440-50-8 | Copper    | 260           |     |   | P  |
| 7439-89-6 | Iron      | 265000        |     |   | P  |
| 7439-92-1 | Lead      | 180           |     |   | F  |
| 7439-95-4 | Magnesium | 836000        |     |   | P  |
| 7439-96-5 | Manganese | 12100         |     |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U   |   | CV |
| 7440-02-0 | Nickel    | 205           |     |   | P  |
| 7440-09-7 | Potassium | 19700         |     |   | P  |
| 7782-49-2 | Selenium  | 5.0           | U W |   | F  |
| 7440-22-4 | Silver    | 10.0          | U   |   | P  |
| 7440-23-5 | Sodium    | 56500         |     |   | P  |
| 7440-28-0 | Thallium  | 2.0           | U W |   | F  |
| 7440-62-2 | Vanadium  | 427           |     |   | P  |
| 7440-66-6 | Zinc      | 1120          |     |   | P  |
|           | Cyanide   | 10.0          | U   |   | C  |

Color Before: BROWN

Clarity Before: CLOUDY

Texture: \_\_\_\_\_

Color After: YELLOW

Clarity After: CLOUDY

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: D001549

GW-2  
FILTERED

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65318.07

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q<br>M | M<br>Q |
|-----------|-----------|---------------|---|--------|--------|
| 7429-90-5 | Aluminum  | 100           | U |        | P      |
| 7440-36-0 | Antimony  | 55.0          | U |        | P      |
| 7440-38-2 | Arsenic   | 1.0           | U |        | F      |
| 7440-39-3 | Barium    | 68.7          | B |        | P      |
| 7440-41-7 | Beryllium | 2.0           | U |        | P      |
| 7440-43-9 | Cadmium   | 5.0           | U |        | P      |
| 7440-70-2 | Calcium   | 177000        |   |        | P      |
| 7440-47-3 | Chromium  | 10.0          | U |        | P      |
| 7440-48-4 | Cobalt    | 10.0          | U |        | P      |
| 7440-50-8 | Copper    | 10.0          | U |        | P      |
| 7439-89-6 | Iron      | 419           |   |        | P      |
| 7439-92-1 | Lead      | 1.0           | U |        | F      |
| 7439-95-4 | Magnesium | 49100         |   |        | P      |
| 7439-96-5 | Manganese | 61.6          |   |        | P      |
| 7439-97-6 | Mercury   | 0.20          | U |        | CV     |
| 7440-02-0 | Nickel    | 15.0          | U |        | P      |
| 7440-09-7 | Potassium | 2180          | B |        | P      |
| 7782-49-2 | Selenium  | 1.0           | U | W      | F      |
| 7440-22-4 | Silver    | 10.0          | U |        | P      |
| 7440-23-5 | Sodium    | 54700         |   |        | P      |
| 7440-28-0 | Thallium  | 2.0           | U |        | F      |
| 7440-62-2 | Vanadium  | 10.0          | U |        | P      |
| 7440-66-6 | Zinc      | 17.2          | B |        | P      |
|           | Cyanide   |               |   |        | NR     |

Color Before: CLEAR

Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: CLEAR

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: D001549

GW-3

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65319.06

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|---|
| 7429-90-5 | Aluminum  | 7400          |   |   | P |
| 7440-36-0 | Antimony  | 55.0          | U |   | P |
| 7440-38-2 | Arsenic   | 3.5           | B |   | F |
| 7440-39-3 | Barium    | 141           | B |   | P |
| 7440-41-7 | Beryllium | 2.0           | U |   | P |
| 7440-43-9 | Cadmium   | 10.0          | U |   | P |
| 7440-70-2 | Calcium   | 288000        |   |   | P |
| 7440-47-3 | Chromium  | 14.7          |   |   | P |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P |
| 7440-50-8 | Copper    | 21.0          | B |   | P |
| 7439-89-6 | Iron      | 17000         |   |   | P |
| 7439-92-1 | Lead      | 15.9          |   |   | F |
| 7439-95-4 | Magnesium | 78200         |   |   | P |
| 7439-96-5 | Manganese | 596           |   |   | P |
| 7439-97-6 | Mercury   | 0.28          |   |   | C |
| 7440-02-0 | Nickel    | 20.8          | B |   | P |
| 7440-09-7 | Potassium | 4550          | B |   | P |
| 7782-49-2 | Selenium  | 1.0           | U | W | F |
| 7440-22-4 | Silver    | 10.0          | U |   | P |
| 7440-23-5 | Sodium    | 69800         |   |   | P |
| 7440-28-0 | Thallium  | 2.0           | U |   | F |
| 7440-62-2 | Vanadium  | 21.3          | B |   | P |
| 7440-66-6 | Zinc      | 49.9          |   |   | P |
|           | Cyanide   | 10.0          | U |   | C |

Color Before: BROWN

Clarity Before: CLOUDY

Texture: \_\_\_\_\_

Color After: YELLOW

Clarity After: CLOUDY

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: D001549

GW-3  
FILTERED

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65319.07

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 180           | U |   | P  |
| 7440-36-0 | Antimony  | 55.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 1.0           | U |   | F  |
| 7440-39-3 | Barium    | 53.0          | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 152000        |   |   | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 10.0          | U |   | P  |
| 7439-89-6 | Iron      | 325           |   |   | P  |
| 7439-92-1 | Lead      | 1.0           | U |   | F  |
| 7439-95-4 | Magnesium | 42300         |   |   | P  |
| 7439-96-5 | Manganese | 37.7          |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 15.0          | U |   | P  |
| 7440-09-7 | Potassium | 2490          | B |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U | W | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 70700         |   |   | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P  |
| 7440-66-6 | Zinc      | 10.0          | U |   | P  |
|           | Cyanide   |               |   |   | NR |

Color Before: CLEAR

Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: CLEAR

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DO01549

GW-4

Lab Code: \_\_\_\_\_

Case No.: 9000-380

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65320.06

Level (low/med): LDW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 567           |   |   | P  |
| 7440-36-0 | Antimony  | 55.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 1.0           | U |   | F  |
| 7440-39-3 | Barium    | 80.1          | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 162000        |   |   | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 10.0          | U |   | P  |
| 7439-89-6 | Iron      | 1130          |   |   | P  |
| 7439-92-1 | Lead      | 1.0           | U | W | F  |
| 7439-95-4 | Magnesium | 45200         |   |   | P  |
| 7439-96-5 | Manganese | 64.9          |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 15.0          | U |   | P  |
| 7440-09-7 | Potassium | 1820          | B |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U | W | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 71600         |   |   | P  |
| 7440-28-0 | Thallium  | 2.0           | U | W | F  |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P  |
| 7440-66-6 | Zinc      | 10.0          | U |   | P  |
|           | Cyanide   | 10.0          | U |   | C  |

Color Before: CLEAR

Clarity Before: CLOUDY

Texture: \_\_\_\_\_

Color After: CLEAR

Clarity After: CLOUDY

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD01549

GW-4  
FILTERED

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65320.07

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 100           | U |   | P  |
| 7440-36-0 | Antimony  | 55.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 1.0           | U | W | F  |
| 7440-39-3 | Barium    | 73.0          | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 149000        |   |   | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 10.0          | U |   | P  |
| 7439-89-6 | Iron      | 111           |   |   | P  |
| 7439-92-1 | Lead      | 1.0           | U |   | F  |
| 7439-95-4 | Magnesium | 42600         |   |   | P  |
| 7439-96-5 | Manganese | 19.8          |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 15.0          | U |   | P  |
| 7440-09-7 | Potassium | 1280          | B |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U | W | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 69100         |   |   | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P  |
| 7440-66-6 | Zinc      | 10.0          | U |   | P  |
|           | Cyanide   |               |   |   | MR |

Color Before: CLEAR

Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: CLEAR

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: D001549

GW-5

Lab Code: \_\_\_\_\_

Case No.: 9100.380

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65321.06

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 58200         |   |   | P  |
| 7440-36-0 | Antimony  | 55.0          | u |   | P  |
| 7440-38-2 | Arsenic   | 23.0          |   |   | P  |
| 7440-39-3 | Barium    | 326           |   |   | P  |
| 7440-41-7 | Beryllium | 2.0           | u |   | P  |
| 7440-43-9 | Cadmium   | 16.5          |   |   | P  |
| 7440-70-2 | Calcium   | 672000        |   |   | P  |
| 7440-47-3 | Chromium  | 83.4          |   |   | P  |
| 7440-48-4 | Cobalt    | 50.9          |   |   | P  |
| 7440-50-8 | Copper    | 69.2          |   |   | P  |
| 7439-89-6 | Iron      | 127000        |   |   | P  |
| 7439-92-1 | Lead      | 39.0          |   |   | F  |
| 7439-95-4 | Magnesium | 197000        |   |   | P  |
| 7439-96-5 | Manganese | 5120          |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | u |   | CV |
| 7440-02-0 | Nickel    | 127           |   |   | P  |
| 7440-09-7 | Potassium | 9230          |   |   | P  |
| 7782-49-2 | Selenium  | 5.0           | u | W | F  |
| 7440-22-4 | Silver    | 10.0          | u |   | P  |
| 7440-23-5 | Sodium    | 23300         |   |   | P  |
| 7440-28-0 | Thallium  | 2.0           | u |   | F  |
| 7440-62-2 | Vanadium  | 138           |   |   | P  |
| 7440-66-6 | Zinc      | 326           |   |   | P  |
|           | Cyanide   | 10.0          | u |   | C  |

Color Before: Brown

Clarity Before: CLOUDY

Texture: \_\_\_\_\_

Color After: Yellow

Clarity After: CLOUDY

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DO01549

GW-5  
FILTERED

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65321.07

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 100           | U |   | P  |
| 7440-36-0 | Antimony  | 55.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 4.5           | B |   | F  |
| 7440-39-3 | Barium    | 16.8          | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 93300         |   |   | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 10.0          | U |   | P  |
| 7439-89-6 | Iron      | 159           |   |   | P  |
| 7439-92-1 | Lead      | 1.0           | U |   | F  |
| 7439-95-4 | Magnesium | 57300         |   |   | P  |
| 7439-96-5 | Manganese | 67.2          |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 15.0          | U |   | P  |
| 7440-09-7 | Potassium | 1600          | B |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U | W | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 22200         |   |   | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P  |
| 7440-66-6 | Zinc      | 10.0          | U |   | P  |
|           | Cyanide   |               |   |   | NR |

Color Before: CLEAR

Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: CLEAR

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC. Contract: D001549

GW-6

Lab Code: \_\_\_\_\_ Case No.: 9000.380 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65322.06

Level (low/med): LOW Date Received: 2/8/90

† Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q<br>N | M<br>S |
|-----------|-----------|---------------|---|--------|--------|
| 7429-90-5 | Aluminum  | 25000         |   |        | P      |
| 7440-36-0 | Antimony  | 55.0          | U |        | P      |
| 7440-38-2 | Arsenic   | 9.7           |   |        | F      |
| 7440-39-3 | Barium    | 372           |   |        | P      |
| 7440-41-7 | Beryllium | 2.0           | U |        | P      |
| 7440-43-9 | Cadmium   | 5.0           | U |        | P      |
| 7440-70-2 | Calcium   | 46000         |   |        | P      |
| 7440-47-3 | Chromium  | 43.8          |   |        | P      |
| 7440-48-4 | Cobalt    | 15.3          | B |        | P      |
| 7440-50-8 | Copper    | 47.7          |   |        | P      |
| 7439-89-6 | Iron      | 48400         |   |        | P      |
| 7439-92-1 | Lead      | 44.0          |   |        | F      |
| 7439-95-4 | Magnesium | 132000        |   |        | P      |
| 7439-96-5 | Manganese | 1600          |   |        | P      |
| 7439-97-6 | Mercury   | 0.20          | U |        | CV     |
| 7440-02-0 | Nickel    | 39.6          | B |        | P      |
| 7440-09-7 | Potassium | 9000          |   |        | P      |
| 7782-49-2 | Selenium  | 5.0           | U | W      | F      |
| 7440-22-4 | Silver    | 10.0          | U |        | P      |
| 7440-23-5 | Sodium    | 61100         |   |        | P      |
| 7440-28-0 | Thallium  | 2.0           | U |        | F      |
| 7440-62-2 | Vanadium  | 59.8          |   |        | P      |
| 7440-66-6 | Zinc      | 185           |   |        | P      |
|           | Cyanide   | 10.0          | U |        | C      |

Color Before: Brown Clarity Before: Cloudy Texture: \_\_\_\_\_

Color After: Yellow Clarity After: Cloudy Artifacts: \_\_\_\_\_

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: D001549

GW-6  
FILTERED

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65322.07

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 100           | u |   | P  |
| 7440-36-0 | Antimony  | 55.0          | u |   | P  |
| 7440-38-2 | Arsenic   | 1.0           | u |   | F  |
| 7440-39-3 | Barium    | 116           | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | u |   | P  |
| 7440-43-9 | Cadmium   | 9.2           |   |   | P  |
| 7440-70-2 | Calcium   | 118000        |   |   | P  |
| 7440-47-3 | Chromium  | 10.0          | u |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | u |   | P  |
| 7440-50-8 | Copper    | 19.8          | B |   | P  |
| 7439-89-6 | Iron      | 402           |   |   | P  |
| 7439-92-1 | Lead      | 1.0           | u |   | F  |
| 7439-95-4 | Magnesium | 35500         |   |   | P  |
| 7439-96-5 | Manganese | 36.7          |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | u |   | CV |
| 7440-02-0 | Nickel    | 15.0          | u |   | P  |
| 7440-09-7 | Potassium | 6670          |   |   | P  |
| 7782-49-2 | Selenium  | 1.0           | u |   | F  |
| 7440-22-4 | Silver    | 10.0          | u |   | P  |
| 7440-23-5 | Sodium    | 58200         |   |   | P  |
| 7440-28-0 | Thallium  | 2.0           | u |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | u |   | P  |
| 7440-66-6 | Zinc      | 15.4          | B |   | P  |
|           | Cyanide   |               |   |   | BR |

Color Before: CLEAR

Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: CLEAR

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC. Contract: D001549

GW-7

Lab Code: \_\_\_\_\_ Case No.: 9000.380 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65323.06

Level (low/med): LOW Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 2800          |   |   | P  |
| 7440-36-0 | Antimony  | 55.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 2.0           | B |   | F  |
| 7440-39-3 | Barium    | 164           | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 219000        |   |   | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 10.0          | U |   | P  |
| 7439-89-6 | Iron      | 5730          |   |   | P  |
| 7439-92-1 | Lead      | 9.3           |   |   | F  |
| 7439-95-4 | Magnesium | 74500         |   |   | P  |
| 7439-96-5 | Manganese | 686           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 15.0          | U |   | P  |
| 7440-09-7 | Potassium | 2390          | B |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U | W | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 66000         |   |   | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P  |
| 7440-66-6 | Zinc      | 36.6          |   |   | P  |
|           | Cyanide   | 10.0          | U |   | C  |

Color Before: Clear Clarity Before: Cloudy Texture: \_\_\_\_\_

Color After: Clear Clarity After: Cloudy Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INORGANIC ANALYSIS DATA SHEET

Lab Name: ECOLOGY & ENVIRONMENT INC. Contract: D001549

GW-7  
FILTERED

Lab Code: \_\_\_\_\_ Case No.: 9000.380 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65323.07

Level (low/med): LOW Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 100           | u |   | P  |
| 7440-36-0 | Antimony  | 55.0          | u |   | P  |
| 7440-38-2 | Arsenic   | 1.0           | u |   | F  |
| 7440-39-3 | Barium    | 139           | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | u |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | u |   | P  |
| 7440-70-2 | Calcium   | 169000        |   |   | P  |
| 7440-47-3 | Chromium  | 10.0          | u |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | u |   | P  |
| 7440-50-8 | Copper    | 10.0          | u |   | P  |
| 7439-89-6 | Iron      | 580           |   |   | P  |
| 7439-92-1 | Lead      | 1.0           | u |   | F  |
| 7439-95-4 | Magnesium | 61400         |   |   | P  |
| 7439-96-5 | Manganese | 393           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | u |   | CV |
| 7440-02-0 | Nickel    | 15.0          | u |   | P  |
| 7440-09-7 | Potassium | 1540          | B |   | P  |
| 7782-49-2 | Selenium  | 1.0           | u | W | F  |
| 7440-22-4 | Silver    | 10.0          | u |   | P  |
| 7440-23-5 | Sodium    | 63100         |   |   | P  |
| 7440-28-0 | Thallium  | 2.0           | u |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | u |   | P  |
| 7440-66-6 | Zinc      | 10.0          | u |   | P  |
|           | Cyanide   |               |   |   | AR |

Color Before: CLEAR

Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: CLEAR

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: D001549

DRILL RIG WATER

Lab Code: \_\_\_\_\_

Case No.: 872.002

SAS No.: YN-4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 47478

Level (low/med): LOW

Date Received: 8/24/89

\* Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | M | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 190           | B |   | P  |
| 7440-36-0 | Antimony  | 60.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 5.0           | U |   | F  |
| 7440-39-3 | Barium    | 23.8          | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 40300         |   |   | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 10.0          | U |   | P  |
| 7439-89-6 | Iron      | 359           |   |   | P  |
| 7439-92-1 | Lead      | 5.0           | U | W | F  |
| 7439-95-4 | Magnesium | 8220          |   |   | P  |
| 7439-96-5 | Manganese | 5.0           | U |   | P  |
| 7439-97-6 | Mercury   | 0.22          |   |   | CV |
| 7440-02-0 | Nickel    | 15.0          | U |   | P  |
| 7440-09-7 | Potassium | 1330          | B |   | P  |
| 7782-49-2 | Selenium  | 5.0           | U |   | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 11000         |   |   | P  |
| 7440-28-0 | Thallium  | 5.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P  |
| 7440-66-6 | Zinc      | 10.0          | U |   | P  |
|           | Cyanide   | 10.0          | U |   | C  |

Color Before: YELLOW

Clarity Before: CLOUDY

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

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NYSDEC

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SW-1

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000-405 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65767

Level (low/med): LOW Date Received: 02/10/90

† Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 10700         |   |   | P  |
| 7440-36-0 | Antimony  | 60.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 16.6          |   |   | F  |
| 7440-39-3 | Barium    | 304           |   |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 9.5           |   |   | P  |
| 7440-70-2 | Calcium   | 142000        |   | E | P  |
| 7440-47-3 | Chromium  | 43.0          |   |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 105           |   |   | P  |
| 7439-89-6 | Iron      | 20700         |   |   | P  |
| 7439-92-1 | Lead      | 193           |   |   | F  |
| 7439-95-4 | Magnesium | 38500         |   | E | P  |
| 7439-96-5 | Manganese | 862           |   |   | P  |
| 7439-97-6 | Mercury   | 0.37          |   |   | CV |
| 7440-02-0 | Nickel    | 87.6          |   |   | P  |
| 7440-09-7 | Potassium | 3450          | B |   | P  |
| 7782-49-2 | Selenium  | 3.7           | B | S | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 31100         |   | E | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 57.2          |   |   | P  |
| 7440-66-6 | Zinc      | 803           |   |   | P  |
|           | Cyanide   | 10.0          | U |   | C  |

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_

Color After: YELLOW Clarity After: CLOUDY Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SW-2

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000-405 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65768

Level (low/med): LOW Date Received: 02/10/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 2490          |   |   | P  |
| 7440-36-0 | Antimony  | 60.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 2.5           | B |   | F  |
| 7440-39-3 | Barium    | 97.0          | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 149000        |   | E | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 29.1          |   |   | P  |
| 7439-89-6 | Iron      | 4810          |   |   | P  |
| 7439-92-1 | Lead      | 56            |   |   | F  |
| 7439-95-4 | Magnesium | 29800         |   | E | P  |
| 7439-96-5 | Manganese | 249           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 15.0          | U |   | P  |
| 7440-09-7 | Potassium | 2560          | B |   | P  |
| 7782-49-2 | Selenium  | 1.4           | B |   | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 235000        |   | E | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P  |
| 7440-66-6 | Zinc      | 152           |   |   | P  |
|           | Cyanide   | 10.0          | U |   | P  |

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_

Color After: YELLOW Clarity After: CLOUDY Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NYSDEC

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SW-3

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000-405 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65769

Level (low/med): LOW Date Received: 02/10/90

\* Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 147           | B |   | P  |
| 7440-36-0 | Antimony  | 60.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 1.0           | U |   | F  |
| 7440-39-3 | Barium    | 32.1          | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 77500         |   | E | P  |
| 7440-47-3 | Chromium  | 10.0          |   |   | P  |
| 7440-48-4 | Cobalt    | 10.0          |   |   | P  |
| 7440-50-8 | Copper    | 10.0          |   |   | P  |
| 7439-89-6 | Iron      | 544           |   |   | P  |
| 7439-92-1 | Lead      | 1.0           | U | W | F  |
| 7439-95-4 | Magnesium | 20600         |   | E | P  |
| 7439-96-5 | Manganese | 176           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CY |
| 7440-02-0 | Nickel    | 15.0          | U |   | P  |
| 7440-09-7 | Potassium | 2110          | B |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U |   | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 92300         |   | E | P  |
| 7440-28-0 | Thallium  | 20            | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          |   |   | P  |
| 7440-66-6 | Zinc      | 16.9          | B |   | P  |
|           | Cyanide   | 10.0          | U |   | C  |

Color Before: CLEAR Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: CLEAR Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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567

NYSDEC

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SW-4

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000.405 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65770

Level (low/med): LOW Date Received: 02/10/90

† Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 2200          |   |   | P  |
| 7440-36-0 | Antimony  | 60.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 2.2           | B |   | F  |
| 7440-39-3 | Barium    | 84.8          | Q |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 114000        |   | E | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 25.4          |   |   | P  |
| 7439-89-6 | Iron      | 5000          |   |   | P  |
| 7439-92-1 | Lead      | 66            |   |   | F  |
| 7439-95-4 | Magnesium | 26100         |   | E | P  |
| 7439-96-5 | Manganese | 199           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 15.0          | U |   | P  |
| 7440-09-7 | Potassium | 3670          | Q |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U | W | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 272000        |   | E | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P  |
| 7440-66-6 | Zinc      | 211           |   |   | P  |
|           | Cyanide   | 10.0          | U |   | P  |

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_

Color After: YELLOW Clarity After: CLOUDY Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SW-5

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000-405 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65771

Level (low/med): LOW Date Received: 02/10/90

† Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 864           |   |   | P  |
| 7440-36-0 | Antimony  | 60.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 4.6           | B |   | F  |
| 7440-39-3 | Barium    | 49.3          | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 70980         |   | E | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 10.0          | U |   | P  |
| 7439-89-6 | Iron      | 6010          |   |   | P  |
| 7439-92-1 | Lead      | 19.6          |   |   | F  |
| 7439-95-4 | Magnesium | 18300         |   | E | P  |
| 7439-96-5 | Manganese | 255           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 15.0          | U |   | P  |
| 7440-09-7 | Potassium | 1540          | B |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U |   | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 78000         |   | E | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P  |
| 7440-66-6 | Zinc      | 64.9          |   |   | P  |
|           | Cyanide   | 10.0          | U |   | P  |

Color Before: BROWN Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: YELLOW Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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NYSDEC

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

5W-6

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000-405 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65772

Level (low/med): LOW Date Received: 02/10/90

‡ Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 463           |   |   | P  |
| 7440-36-0 | Antimony  | 60.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 8.8           | B |   | F  |
| 7440-39-3 | Barium    | 56.3          | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 70800         |   | E | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 23.8          | B |   | P  |
| 7439-89-6 | Iron      | 9830          |   |   | P  |
| 7439-92-1 | Lead      | 12.1          |   |   | F  |
| 7439-95-4 | Magnesium | 19800         |   | E | P  |
| 7439-96-5 | Manganese | 259           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 5.0           | U |   | P  |
| 7440-09-7 | Potassium | 3560          | B |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U |   | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 36500         |   | E | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          |   |   | P  |
| 7440-66-6 | Zinc      | 69.9          |   |   | P  |
|           | Cyanide   | 10.0          | U |   | P  |

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_

Color After: YELLOW Clarity After: CLOUDY Artifacts: \_\_\_\_\_

Comments:

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NYSDEC

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SW-7

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000.405 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65773

Level (low/med): LOW Date Received: 02/10/90

† Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 2120          |   |   | P  |
| 7440-36-0 | Antimony  | 60.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 22.7          |   |   | F  |
| 7440-39-3 | Barium    | 146           | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 9.7           |   |   | P  |
| 7440-70-2 | Calcium   | 99900         |   | E | P  |
| 7440-47-3 | Chromium  | 37.9          |   |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 138           |   |   | P  |
| 7439-89-6 | Iron      | 76300         |   |   | P  |
| 7439-92-1 | Lead      | 134           |   |   | F  |
| 7439-95-4 | Magnesium | 18600         |   | E | P  |
| 7439-96-5 | Manganese | 705           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CY |
| 7440-02-0 | Nickel    | 20            |   |   | P  |
| 7440-09-7 | Potassium | 3350          | B |   | P  |
| 7782-49-2 | Selenium  | 1.1           | B | W | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 19900         |   | E | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 24.7          | B |   | P  |
| 7440-66-6 | Zinc      | 302           |   |   | P  |
|           | Cyanide   | 10.0          | U |   | C  |

Color Before: BROWN Clarity Before: Cloudy Texture: \_\_\_\_\_

Color After: YELLOW Clarity After: Cloudy Artifacts: \_\_\_\_\_

Comments:

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NYSDEC

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SW-8

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000.405 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65774

Level (low/med): LOW Date Received: 02/10/90

\* Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 687           |   |   | P  |
| 7440-36-0 | Antimony  | 60.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 3.1           | B |   | F  |
| 7440-39-3 | Barium    | 164           | C |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 84800         |   | E | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 19.1          | B |   | P  |
| 7439-89-6 | Iron      | 24800         |   |   | P  |
| 7439-92-1 | Lead      | 14.7          |   |   | F  |
| 7439-95-4 | Magnesium | 34000         |   | E | P  |
| 7439-96-5 | Manganese | 1270          |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 252           |   |   | P  |
| 7440-09-7 | Potassium | 5420          |   |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U |   | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 68200         |   | E | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P  |
| 7440-66-6 | Zinc      | 151           |   |   | P  |
|           | Cyanide   | 10.0          | U |   | C  |

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_

Color After: YELLOW Clarity After: CLOUDY Artifacts: \_\_\_\_\_

Comments:

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NYSDEC

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SW-9

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000-405 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65775

Level (low/med): LOW Date Received: 02/10/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | P | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 3900          |   |   | P  |
| 7440-36-0 | Antimony  | 60.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 33.4          |   |   | F  |
| 7440-39-3 | Barium    | 175           | Q |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 14.5          |   |   | P  |
| 7440-70-2 | Calcium   | 100000        |   | E | P  |
| 7440-47-3 | Chromium  | 19.8          |   |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 182           |   |   | P  |
| 7439-89-6 | Iron      | 89800         |   |   | P  |
| 7439-92-1 | Lead      | 138           |   |   | F  |
| 7439-95-4 | Magnesium | 19300         |   | E | P  |
| 7439-96-5 | Manganese | 1660          |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 164           |   |   | P  |
| 7440-09-7 | Potassium | 2590          | Q |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U | W | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 13300         |   | E | P  |
| 7440-28-0 | Thallium  | 2.0           | U | W | F  |
| 7440-62-2 | Vanadium  | 30.8          | B |   | P  |
| 7440-66-6 | Zinc      | 587           |   |   | P  |
|           | Cyanide   | 10.0          | U |   | P  |

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_

Color After: YELLOW Clarity After: CLOUDY Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

SW-10

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000-405 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65776

Level (low/med): LOW Date Received: 02/10/90

† Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 7420          |   |   | P  |
| 7440-36-0 | Antimony  | 60.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 8.7           | Q |   | F  |
| 7440-39-3 | Barium    | 123           | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 97700         |   | E | P  |
| 7440-47-3 | Chromium  | 15.9          |   |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 151           |   |   | P  |
| 7439-89-6 | Iron      | 22600         |   |   | P  |
| 7439-92-1 | Lead      | 107           |   |   | F  |
| 7439-95-4 | Magnesium | 18100         |   | E | P  |
| 7439-96-5 | Manganese | 422           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CY |
| 7440-02-0 | Nickel    | 37.7          | Q |   | P  |
| 7440-09-7 | Potassium | 3580          | Q |   | P  |
| 7782-49-2 | Selenium  | 1.1           | B | W | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | P  |
| 7440-23-5 | Sodium    | 11600         |   | E | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 29.8          | B |   | P  |
| 7440-66-6 | Zinc      | 311           |   |   | P  |
|           | Cyanide   | 10.0          | U |   | P  |

Color Before: BROWN Clarity Before: CLOUDY Texture: \_\_\_\_\_

Color After: YELLOW Clarity After: CLOUDY Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

5W-11

Lab Name: ECOLOGY AND ENVIRONMENT, INC Contract: \_\_\_\_\_

Lab Code: EANDE Case No.: 9000.426 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 66070

Level (low/med): Low Date Received: 02/13/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|---|
| 7429-90-5 | Aluminum  | 113           | B |   | P |
| 7440-36-0 | Antimony  | 60.0          | U |   | P |
| 7440-38-2 | Arsenic   | 1.0           | U |   | P |
| 7440-39-3 | Barium    | 26.4          | B |   | P |
| 7440-41-7 | Beryllium | 2.0           | U |   | P |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P |
| 7440-70-2 | Calcium   | 57600         |   |   | P |
| 7440-47-3 | Chromium  | 10.0          | U |   | P |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P |
| 7440-50-8 | Copper    | 10.0          | U |   | P |
| 7439-89-6 | Iron      | 248           |   |   | P |
| 7439-92-1 | Lead      | 1.0           | U | W | P |
| 7439-95-4 | Magnesium | 19200         |   |   | P |
| 7439-96-5 | Manganese | 25.7          |   |   | P |
| 7439-97-6 | Mercury   | 0.20          | U |   | P |
| 7440-02-0 | Nickel    | 15.0          | U |   | P |
| 7440-09-7 | Potassium | 2530          | B |   | P |
| 7782-49-2 | Selenium  | 1.0           | U | W | P |
| 7440-22-4 | Silver    | 10.0          | U |   | P |
| 7440-23-5 | Sodium    | 29600         |   |   | P |
| 7440-28-0 | Thallium  | 2.0           | U |   | P |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P |
| 7440-66-6 | Zinc      | 11.9          | B |   | P |
|           | Cyanide   | 10.0          | U |   | C |

Color Before: CLEAR Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: CLEAR Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:  
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INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC. Contract: DO01549

SW-12

Lab Code: \_\_\_\_\_ Case No.: 9000.380 SAS No.: YN-4020 SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER Lab Sample ID: 65324.06

Level (low/med): LOW Date Received: 2/8/90

\* Solids: 0

Concentration Units (ug/L or mg/kg dry weight): ug/L

| CAS No.   | Analyte   | Concentration | C | Q<br>X | M<br>P |
|-----------|-----------|---------------|---|--------|--------|
| 7429-90-5 | Aluminum  | 449           |   |        | P      |
| 7440-36-0 | Antimony  | 55.0          | u |        | P      |
| 7440-38-2 | Arsenic   | 2.0           | B |        | F      |
| 7440-39-3 | Barium    | 34.2          | B |        | P      |
| 7440-41-7 | Beryllium | 2.0           | u |        | P      |
| 7440-43-9 | Cadmium   | 5.0           | u |        | P      |
| 7440-70-2 | Calcium   | 46900         |   |        | P      |
| 7440-47-3 | Chromium  | 10.0          | u |        | P      |
| 7440-48-4 | Cobalt    | 10.0          | u |        | P      |
| 7440-50-8 | Copper    | 10.0          | u |        | P      |
| 7439-89-6 | Iron      | 1530          |   |        | P      |
| 7439-92-1 | Lead      | 3.8           | B |        | F      |
| 7439-95-4 | Magnesium | 16900         |   |        | P      |
| 7439-96-5 | Manganese | 174           |   |        | P      |
| 7439-97-6 | Mercury   | 0.20          | u |        | CY     |
| 7440-02-0 | Nickel    | 15.0          | u |        | P      |
| 7440-09-7 | Potassium | 17900         |   |        | P      |
| 7782-49-2 | Selenium  | 7.0           | u | W      | F      |
| 7440-22-4 | Silver    | 10.0          | u |        | P      |
| 7440-23-5 | Sodium    | 9020          |   |        | P      |
| 7440-28-0 | Thallium  | 2.0           | u |        | F      |
| 7440-62-2 | Vanadium  | 10.0          | u |        | P      |
| 7440-66-6 | Zinc      | 26.2          |   |        | P      |
|           | Cyanide   | 10.0          | u |        | C      |

Color Before: Yellow

Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: Yellow

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DD01549

SW-14

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: YN-4010

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65325.06

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | M | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 139           | B |   | P  |
| 7440-36-0 | Antimony  | 55.0          | U |   | P  |
| 7440-38-2 | Arsenic   | 1.7           | B |   | F  |
| 7440-39-3 | Barium    | 33.9          | B |   | P  |
| 7440-41-7 | Beryllium | 2.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 5.0           | U |   | P  |
| 7440-70-2 | Calcium   | 90300         |   |   | P  |
| 7440-47-3 | Chromium  | 10.0          | U |   | P  |
| 7440-48-4 | Cobalt    | 10.0          | U |   | P  |
| 7440-50-8 | Copper    | 10.0          | U |   | P  |
| 7439-89-6 | Iron      | 1790          |   |   | P  |
| 7439-92-1 | Lead      | 2.9           | B |   | F  |
| 7439-95-4 | Magnesium | 31200         |   |   | P  |
| 7439-96-5 | Manganese | 93.9          |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 15.0          | U |   | P  |
| 7440-09-7 | Potassium | 1780          | B |   | P  |
| 7782-49-2 | Selenium  | 1.0           | U | W | F  |
| 7440-22-4 | Silver    | 10.0          | U |   | D  |
| 7440-23-5 | Sodium    | 34100         |   |   | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | F  |
| 7440-62-2 | Vanadium  | 10.0          | U |   | P  |
| 7440-66-6 | Zinc      | 49.8          |   |   | P  |
|           | Cyanide   | 10.0          | U |   | C  |

Color Before: YELLOW

Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: YELLOW

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

1  
INORGANIC ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: DO01549

SW-15

Lab Code: \_\_\_\_\_

Case No.: 9000.380

SAS No.: YN4020

SDG No.: \_\_\_\_\_

Matrix (soil/water): WATER

Lab Sample ID: 65326

Level (low/med): LOW

Date Received: 2/8/90

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | P | M |
|-----------|-----------|---------------|---|---|---|
| 7429-90-5 | Aluminum  | 10.50         | - | - | P |
| 7440-36-0 | Antimony  | 55.0          | u | - | P |
| 7440-38-2 | Arsenic   | 1.2           | B | - | F |
| 7440-39-3 | Barium    | 47.9          | B | - | P |
| 7440-41-7 | Beryllium | 2.0           | u | - | P |
| 7440-43-9 | Cadmium   | 5.0           | u | - | P |
| 7440-70-2 | Calcium   | 79100         | - | - | P |
| 7440-47-3 | Chromium  | 10.0          | u | - | P |
| 7440-48-4 | Cobalt    | 10.0          | u | - | P |
| 7440-50-8 | Copper    | 10.0          | u | - | P |
| 7439-89-6 | Iron      | 2710          | - | - | P |
| 7439-92-1 | Lead      | 11.6          | - | - | F |
| 7439-95-4 | Magnesium | 28600         | - | - | P |
| 7439-96-5 | Manganese | 235           | - | - | P |
| 7439-97-6 | Mercury   | 0.20          | u | - | C |
| 7440-02-0 | Nickel    | 15.0          | u | - | P |
| 7440-09-7 | Potassium | 1560          | B | - | P |
| 7782-49-2 | Selenium  | 1.0           | u | - | F |
| 7440-22-4 | Silver    | 10.0          | u | - | P |
| 7440-23-5 | Sodium    | 34800         | - | - | P |
| 7440-28-0 | Thallium  | 2.0           | u | - | F |
| 7440-62-2 | Vanadium  | 10.0          | u | - | P |
| 7440-66-6 | Zinc      | 90.0          | - | - | P |
|           | Cyanide   | 10.0          | u | - | C |

Color Before: YELLOW

Clarity Before: CLEAR

Texture: \_\_\_\_\_

Color After: YELLOW

Clarity After: CLEAR

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INORGANIC ANALYSIS DATA SHEET

Lab Name: ECOLOGY & ENVIRONMENT INC.

Contract: D001549

L1

Lab Code: \_\_\_\_\_

Case No.: 872.001

SAS No.: YN-4020

SDG No.: L-1

Matrix (soil/water): WATER

Lab Sample ID: 415B2

Level (low/med): LOW

Date Received: 6/16/89

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | M | Q  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 1360          |   |   | P  |
| 7440-36-0 | Antimony  | 60.0          | u |   | P  |
| 7440-38-2 | Arsenic   | 164           |   |   | F  |
| 7440-39-3 | Barium    | 1260          |   |   | P  |
| 7440-41-7 | Beryllium | 3.0           | B |   | P  |
| 7440-43-9 | Cadmium   | 38.4          |   |   | P  |
| 7440-70-2 | Calcium   | 312000        |   |   | P  |
| 7440-47-3 | Chromium  | 10.0          | u |   | P  |
| 7440-48-4 | Cobalt    | 13.1          | B |   | P  |
| 7440-50-8 | Copper    | 78.2          |   |   | P  |
| 7439-89-6 | Iron      | 326000        |   |   | P  |
| 7439-92-1 | Lead      | 61.9          |   |   | F  |
| 7439-95-4 | Magnesium | 53700         |   |   | P  |
| 7439-96-5 | Manganese | 4650          |   |   | P  |
| 7439-97-6 | Mercury   | 0.2           | u |   | CV |
| 7440-02-0 | Nickel    | 667           |   |   | P  |
| 7440-09-7 | Potassium | 11100         |   |   | P  |
| 7782-49-2 | Selenium  | 5.0           | u | W | F  |
| 7440-22-4 | Silver    | 10.0          | u |   | P  |
| 7440-23-5 | Sodium    | 62000         |   |   | P  |
| 7440-28-0 | Thallium  | 5.0           | u |   | F  |
| 7440-62-2 | Vanadium  | 107           |   |   | P  |
| 7440-66-6 | Zinc      | 312           |   |   | P  |
|           | Cyanide   | 10.0          | u |   | C  |

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**APPENDIX G**

**SUBSURFACE SOIL, GROUNDWATER, SURFACE SOIL,  
SURFACE WATER/SEDIMENT, AND LEACHATE SAMPLING PROCEDURES**

### **Subsurface Soil Sampling**

One subsurface soil sample was collected during drilling for chemical analysis and seven for geotechnical analysis. The sample for chemical analysis was collected from the soil horizon exhibiting discoloration and odor (17-19 feet) from GW-7 well bore. All of the samples were collected using a decontaminated split-spoon sampler driven by a 140-pound hammer on the drill rig. Blow counts and total recovery were recorded for each sample (see Appendix D). After retrieving the sample, it was screened with the HNu and a pre-cleaned stainless steel spoon was used to place the sample for chemical analysis in a pre-cleaned, acid-rinsed, 8-ounce jar equipped with a Teflon-lined lid. Samples for geotechnical analyses were placed in 16-ounce Mason jars.

### **Groundwater Sampling**

Seven groundwater samples were obtained from each of the seven wells on site and analyzed for TCL organics and inorganics. A dedicated, decontaminated PVC bailer was used with new, dedicated nylon rope at each well. Prior to sampling, a groundwater-level reading was obtained, along with a total depth-of-well reading. An amount equaling three standing water volumes was calculated and purged prior to sampling. The first bottles to be filled were those containing sample water for volatile organic compound analysis. This was to minimize the turbidation of the water so that the volatile content would remain intact. The second bottles to be filled were those for total metals and dissolved metals analysis. A reading of the turbidity was immediately taken using a portable nephelometer. If the reading was greater than 50 NTUs, the dissolved metals bottle was retained for filtration. If the turbidity was lower than 50 NTUs, only the total metals analysis was performed.

Additional field parameters measured included pH, temperature, and conductivity. Measurements of pH were taken in triplicate, while measurements of conductivity were taken in quadruplicate for accuracy purposes. Prior to filling, all sample bottles were labeled with water-proof ink and labels were covered with clear mylar tape. After all bottles were filled, the bailer was placed in the well and suspended above the water table, and the well casing lid was locked. The filled



bottles were packed into coolers containing vermiculite and ice, then transported at the end of the day back to E & E's ASC for analysis. All samples for metals, both total and dissolved, were preserved by adding concentrated nitric acid to the sample until the pH of the sample was lowered to less than 2.0. All samples for cyanide analysis were preserved by the addition of sodium hydroxide. Pellets of NaOH were added until the pH was raised to greater than 12.0.

#### **Surface Soil Sampling**

Eleven locations were selected for surface soil sampling. All samples were analyzed for TCL organic and inorganic compounds. The individual soil sample was obtained from the top 6 inches of topsoil by using a pre-cleaned stainless steel spoon to fill a pre-cleaned, acid-rinsed, 8-ounce clear glass soil jar equipped with a Teflon-lined lid. This volume served for total metals, base/neutral and acid extractables analysis and PCB/ pesticide and cyanide analysis. In addition to the 8-ounce jar, two 40-ml clear glass vials, each equipped with Teflon septum, were filled for volatile organic analysis.

#### **Surface Water/Sediment Sampling**

Fifteen points were delineated in the work plan as locations at which both a surface water and sediment (SW/SWS) sample would be obtained. The field locations were matched as closely as possible to the locations described in the work plan. These samples were analyzed for TCL organics and inorganics. Eight additional samples were collected, as directed by the NYSDEC on-site representative for the railroad drainage swale off site. These samples were analyzed for PCBs/pesticides only.

Sediment samples were obtained by using a pre-cleaned stainless steel spoon to fill an 8-ounce pre-cleaned, acid-rinsed jar equipped with a Teflon-lined lid. This volume served for total metals, base/ neutrals and acid extractables, PCB/pesticide, and cyanide analyses. In addition to the eight-ounce jar, two 40-ml glass vials, each equipped with a Teflon septum, were filled with sediment for volatile organics analysis.

### **Waste**

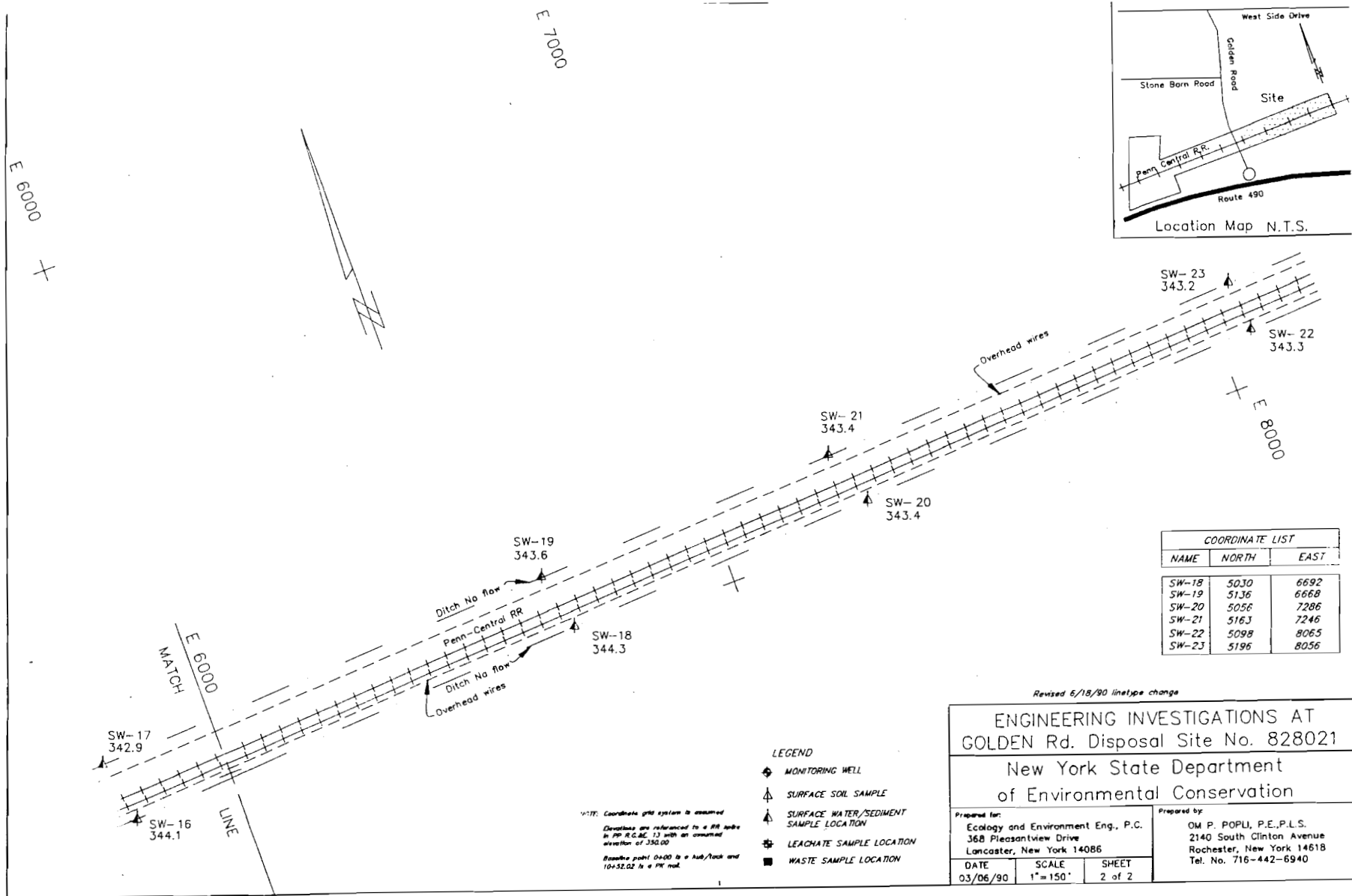
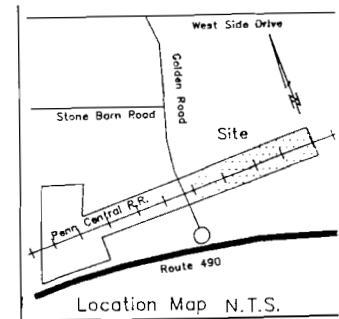
Three waste samples were collected at the Golden Road site. Two samples were foundry sand and one sample was a resin-like substance obtained from a partially buried drum. The samples were collected using the sample procedures outlined in the surface soil sampling section, and all of the samples were analyzed for TCL organics and inorganics.

### **Leachate**

Two leachate samples were collected at the Golden Road site. One was in liquid form and one consisted of leachate-stained sediment due to insufficient liquid content. The liquid sample was collected by direct immersion of the appropriate sample bottles (see Section 4.4.2). The soil sample was collected using the same procedures as the surface soil and sediment samples. Both of the samples were analyzed for TCL organics and inorganics.

APPENDIX H

SITE SURVEY MAP



| COORDINATE LIST |       |      |
|-----------------|-------|------|
| NAME            | NORTH | EAST |
| SW-18           | 5030  | 6692 |
| SW-19           | 5136  | 6668 |
| SW-20           | 5056  | 7286 |
| SW-21           | 5163  | 7246 |
| SW-22           | 5098  | 8065 |
| SW-23           | 5196  | 8056 |

- LEGEND**
- ◆ MONITORING WELL
  - ▲ SURFACE SOIL SAMPLE
  - ▲ SURFACE WATER/SEDIMENT SAMPLE LOCATION
  - ⊕ LEACHATE SAMPLE LOCATION
  - WASTE SAMPLE LOCATION

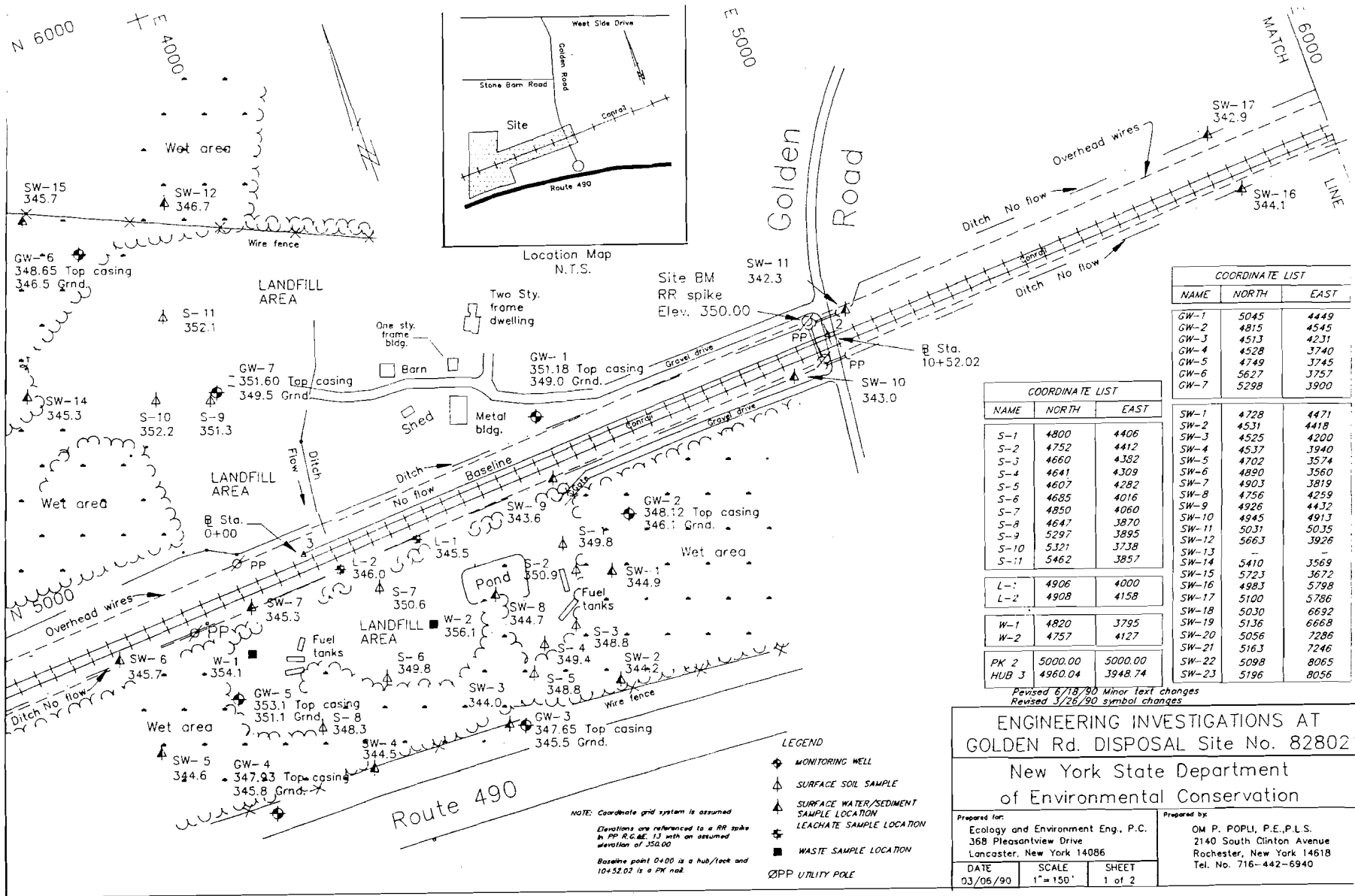
NOTE: Coordinate grid system is assumed  
 Elevations are referenced to a PR datum  
 in P.S. R.C. 13 with an assumed  
 elevation of 350.00  
 Benchmark point 04+00 is a hub/rock and  
 10+52.02 is a PR nail.

Revised 6/18/90 linetype change

**ENGINEERING INVESTIGATIONS AT  
 GOLDEN Rd. Disposal Site No. 828021**

New York State Department  
 of Environmental Conservation

|  |  |                 |
|--|--|-----------------|
| Prepared for:<br>Ecology and Environment Eng., P.C.<br>368 Pleasantview Drive<br>Lancaster, New York 14086 | Prepared by:<br>OM P. POPLI, P.E., P.L.S.<br>2140 South Clinton Avenue<br>Rochester, New York 14618<br>Tel. No. 716-442-6940 |                 |
| DATE<br>03/06/90   | SCALE<br>1"=150'   | SHEET<br>2 of 2 |



| COORDINATE LIST |       |      |
|-----------------|-------|------|
| NAME            | NORTH | EAST |
| GW-1            | 5045  | 4449 |
| GW-2            | 4815  | 4545 |
| GW-3            | 4513  | 4231 |
| GW-4            | 4528  | 3740 |
| GW-5            | 4749  | 3745 |
| GW-6            | 5627  | 3757 |
| GW-7            | 5298  | 3900 |

| COORDINATE LIST |       |      |
|-----------------|-------|------|
| NAME            | NORTH | EAST |
| S-1             | 4800  | 4406 |
| S-2             | 4752  | 4412 |
| S-3             | 4660  | 4382 |
| S-4             | 4641  | 4309 |
| S-5             | 4607  | 4282 |
| S-6             | 4685  | 4016 |
| S-7             | 4850  | 4060 |
| S-8             | 4647  | 3870 |
| S-9             | 5297  | 3895 |
| S-10            | 5321  | 3738 |
| S-11            | 5462  | 3857 |

|       |         |         |
|-------|---------|---------|
| L-1   | 4906    | 4000    |
| L-2   | 4908    | 4158    |
| W-1   | 4820    | 3795    |
| W-2   | 4757    | 4127    |
| PK 2  | 5000.00 | 5000.00 |
| HUB 3 | 4960.04 | 3948.74 |

|       |      |      |
|-------|------|------|
| SW-1  | 4728 | 4471 |
| SW-2  | 4531 | 4418 |
| SW-3  | 4525 | 4200 |
| SW-4  | 4537 | 3940 |
| SW-5  | 4702 | 3574 |
| SW-6  | 4890 | 3560 |
| SW-7  | 4903 | 3819 |
| SW-8  | 4756 | 4259 |
| SW-9  | 4926 | 4432 |
| SW-10 | 4945 | 4913 |
| SW-11 | 5031 | 5035 |
| SW-12 | 5663 | 3926 |
| SW-13 | -    | -    |
| SW-14 | 5410 | 3569 |
| SW-15 | 5723 | 3672 |
| SW-16 | 4983 | 5798 |
| SW-17 | 5100 | 5786 |
| SW-18 | 5030 | 6692 |
| SW-19 | 5136 | 6668 |
| SW-20 | 5056 | 7286 |
| SW-21 | 5163 | 7246 |
| SW-22 | 5098 | 8065 |
| SW-23 | 5196 | 8056 |

ENGINEERING INVESTIGATIONS AT  
GOLDEN Rd. DISPOSAL Site No. 82802

New York State Department  
of Environmental Conservation

Prepared for:  
Ecology and Environment Eng. P.C.  
368 Pleasantview Drive  
Lancaster, New York 14086

Prepared by:  
OM P. POPLI, P.E., P.L.S.  
2140 South Clinton Avenue  
Rochester, New York 14618  
Tel. No. 716-442-6940

DATE: 03/06/90    SCALE: 1"=150'    SHEET: 1 of 2

Revised 6/18/90 Minor text changes  
Revised 3/26/90 symbol changes

**APPENDIX I**

**SITE FIELD LOGBOOKS**



# ecology and environment, inc.

International Specialists in the Environment

Job Number

*YN - 4000*

*Golden Road Disposal Site  
Monroe County  
Chili, NY*

*Site Activity LOG*

**ecology and environment, inc.**

Recycled Paper/569058

E & E Job Number YN-4000

Telephone Code Number 716-684-8060

Site Name Golden Road Disposal Site

State/City Chili, NY

TDD \_\_\_\_\_

PAN \_\_\_\_\_

SSID \_\_\_\_\_

Start / Finish Date 4/26/89 / \_\_\_\_\_

Book 1 of \_\_\_\_\_



Wednesday 4/26/89

Weather: Sunny, warm 60°F, wind from north at 5 mph

1445 G. Fiorentino and T. Ferrara arrived at  
Howard Fitzsimmons Residence

Today's Objective: walk over site to determine  
access problems and to  
perform air monitoring with  
an HNu

Mr. Fitzsimmons brought ETE crew to the  
landfill area

HNu was calibrated at previous site (Brookport LF)  
ETE crew will also carry mini-rad and wearing  
TLD Badges. Mini Rad background readings are higher than previous site

Access Road is blocked off with a <sup>locked</sup> gate, however  
the site is not secure.

Access to mw-2 is limited by trees and  
change in topography

Frame 14 View to SW from access road of  
large tanks

1545 Frame 15 View to south of large tanks  
in SW section of site

1555 Frame 16 View to west of old Tanker  
truck

Gene Fiorentino 4/26/89

Wednesday 4/26/89

1600 Frame 17 View to south of large tank and  
of large metal debris

1604 Frame <sup>18</sup> ~~17~~ <sup>19</sup> View to south of large tank and  
of large metal debris  
1604 Frame <sup>19</sup> ~~18~~ <sup>19</sup> ponded water on west end of  
fill area. Water is a brownish-red color

Access to GW-5 is limited by ponded water  
and change in topography

1610 Frame <sup>20</sup> ~~19~~ <sup>20</sup> View to east from west end of site  
at metal debris

1615 Frame <sup>21</sup> ~~20~~ <sup>21</sup> View to east of large tanks with  
white insulating material, possibly  
asbestos

1620 Frame <sup>22</sup> ~~21~~ <sup>22</sup> View to north along fill edge/marsh of  
buried drums

Half-buried drums appear all along marsh

ETE Access to GW-6

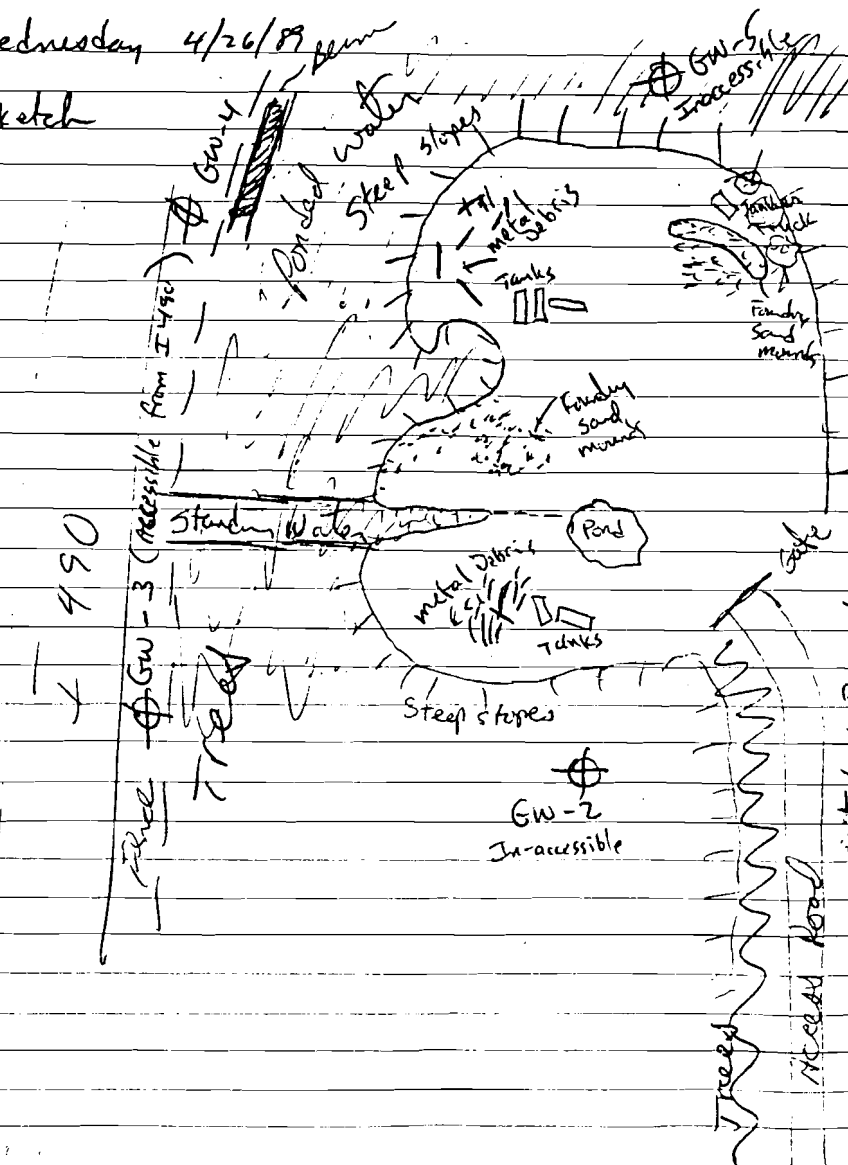
GW-1 inaccessible due to power lines.  
It can be moved west past child fuel tanks

1715 Departed Site

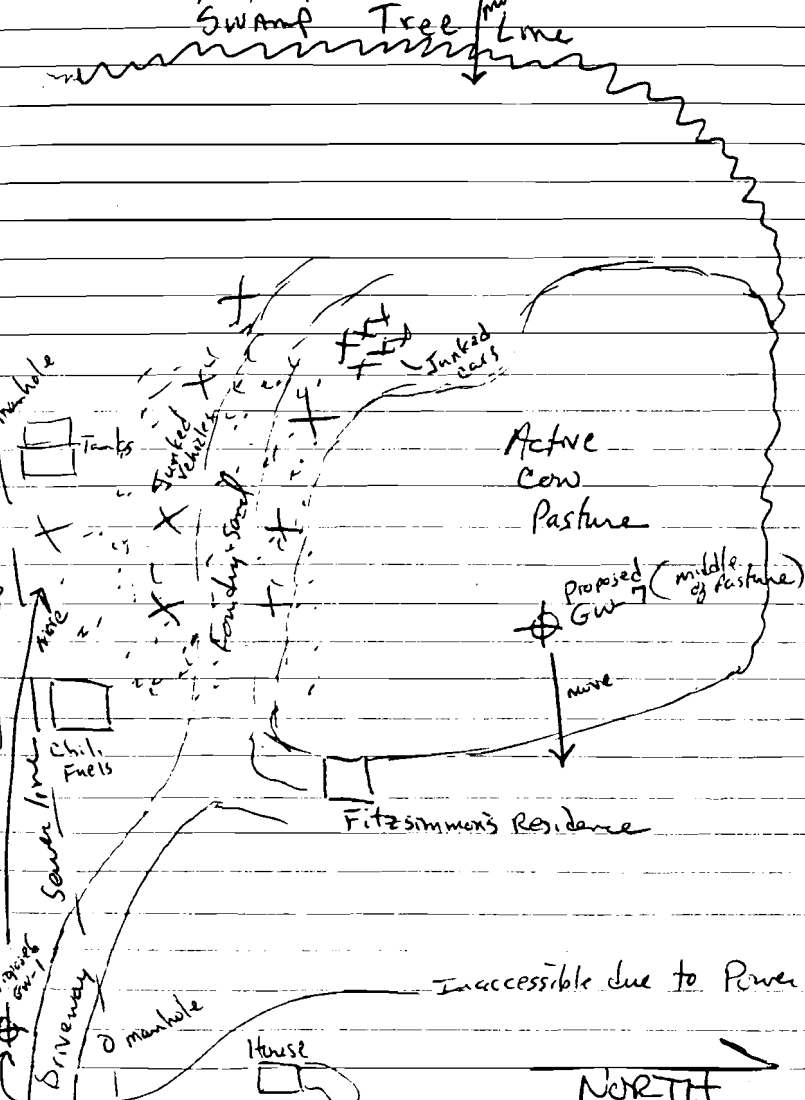
Gene Fiorentino 4/26/89

Wednesday 4/26/89

Site sketch



Wednesday 4/26/89



Geo Florent 4/26/89

Geo Florent 4/26/89

6  
Wednesday 5/17/89

Weather: Sunny, temp. expected to reach  
70°F

0730 Crew loading equipment  
G. Florentin  
J. Renee  
J. Richert

Today's objective: Perform Geophysical  
Survey

0800 Departed ETE headquarters

0900 Arrived onsite  
Departed site to drive hospital route

0914 Arrived at Hospital (6.9 miles from site)

Stopped at lumber store to pick up wood stakes

0940 Arrived back onsite

Setting up Grid 1 (south of driveway - btwn  
driveway and ditch)

Proposed well GW-1 is surrounded by  
metal debris and power lines on 3 sides  
which will cause interference in the geophysical  
survey.

The grid is small and narrow due to abandoned  
machinery on either side of the well location

Gene Florentin 5/17/89

7  
Wednesday 5/17/89

1055 Completed Grid 1

Setting up Grid 6

1120 Began surveying Grid 6

1145 Completed Grid 6

Setting up Grid 7

Junk cars and scrap throughout Grid.  
Geophysical readings will be high and  
untrue due to interference, however,  
NYSDEC requested survey anyway.

1220 Completed Grid 7

Frame 6 on Little League/Grozier/Pittsford/EVANS  
roll → view to North of GW-7 location

1145 Frame D on Marilla Roll → view to  
west of GW-6 location

1235 Crew breaks for lunch - departs site

Frame 5 view to South of GW-1 location

1335 Crew returned to site

Setting up Grid 2, will need Bulldozer for Reg

1345 Frame 4 view to North of GW-2 location

Gene Florentin 5/17/89

Wednesday 5/17/89

1430 Proposed location of GW-5 is inaccessible from any direction:

- north: AR tracks and very low power lines inhibiting entry

- south: very marshy and large trees all the way to Rt 490

- east: 6 ft drop from top of fill would need major bulldozing and alot of fill material

- west: Continued marsh

Will survey a Grid on edge of fill and check with NYSDEC for approval before cutting. Frame-3

1505 Finished Surveying Grid 5

Nick Harding Arrived onsite (Cabela Assoc.)  
Showed Nick all proposed well locations.  
Nick agreed that GW-5 is inaccessible and was concerned about GW-7, near the junked cars due to poor geophysical data.

Question of whether GW-3 and GW-4 can be put on right-of-way or if they have to be on the other side of the fence. Access is limited on the west side of the fence  
Went Home 5/17/89

Wednesday 5/17/89

1530 Setting up Grid 3 Nick Harding departed Site

1620 Finished Grid 3  
Setting up Grid 4

Frame ~~2~~<sup>GF</sup> View to west of GW-4

1700 Finish Grid  
Packing up equipment

1710 Frame ~~2~~<sup>GF</sup> View to west of GW-3

1715 Departed Site for Day

8-22-83 TUES.

TRIP TO GET DRILLING STARTED

0800 J RICHERT ARRIVES AT BUDGET

AUTO RENTAL

0845 J. RICHERT DEPARTS BUDGET w/ <sup>make</sup> compact car \$43.00 per day w/ unlimited miles

0910 J RICHERT ARRIVES ON SITE

DISTANCE DENVER WAS 55 MILES

TOOK RT 90 TO LEGY EXIT (120 TOLL)

EXIT 42. ONCE THE I490.

TOOK 490 TO EXIT 55 CHILLICOTTE

WATE LEFT AT 490 WENT 300 FT

MERE LEFT ON WEBSITE ROAD 300 FT

TO GOLDEN ROAD - TURN LEFT &amp; GO

TO TRUCKER.

WEATHER = SUNNY 75° CHILL.

EXPECT CLOUDS + SOME RAIN LATER.

0930 MIKE RYAN FROM THE DEC

ALBANY OFFICE ARRIVES

ON SITE - we might discuss

ACT + plan for day + tomorrow

ON PPLI.

0945 MIKE RYAN DEPARTS ACT &amp; GO

LET'S NICK HARDING OF OH PPLI!

TO SEE WHEN HE EXPECT TO

ARRIVE ON SITE.

Jim Richert

8-22-83 TUES

0940 J. RICHERT - arrival return of DEC

+ OR NICK HARDING AT END OF

FITZSIMMONS'S DELIVERY.

0950 - Mike Ryan returns on site

1000 Mike Ryan + Jim Richert meet with

HOWARD FITZSIMMONS - SITE OWNER.

WE DECIDED TO MOVE THE STEAK OF 6-7

FROM THE STEEL TANK AREA TO A CLEARING

IN 125' SW OF PRESENT LOCATION just NORTH

OF A POINT OF VIEW.

Jim Fitzsimmons requested 6-7-6 be added

to the MacCom. Changes in the fence

in the center - on Ryan said ok.

Also Jim Fitzsimmons brought to our

attention that 6-7-2 is not on his

property but on the HYDE PROPERTY.

1045 Mike Ryan + Jim Richert found a table

ON 6-7-2 that is 50' EAST of PROPERTY

LINE ON THE HYDE PROPERTY

1055 - Mike Ryan + J. Richert - visit at Hydrolog

Fitzsimmons to see permission needed.

NO ONE WAS HOME.

1150 Jeff = Steve of OH PPLI and

Jeff from Empire works - Richert's office

arrives on site.

Jim Richert

8-22-89 TUES

6u-3+4 could be moved north  
if lower area cut + the fact a new  
line to drive to the north + to give  
490 E-O-U. No final drawings made  
yet

1330 Empire north clean (atom clean)  
big, organ, PVC, TC15, ETC

Acti delay, meeting conducted by  
Aston Campbell - on 11/11

Joe Johnson → Empire soils  
Tom Brown

Jeff Sanger - O - PPL  
Jim Fisher - ETE

Mike Ryan - DEC

1345 Empire with drilling Joe Johnson

and the problem of the 490 E-O-U  
was put at the discretion of the 490-  
the development opportunity.

The dump was right under the 490.

1410 Steve Campbell of OR Dept concluded  
the site today meeting.

1430 We had thought got as chilling  
no about to start.

1600 Rickert arrives at budget can rental.  
changed 4588 for can 500 parking - \$600-645  
1. Rickert

8-22-89

1210 Ryan + Rickert show chiller  
1st location.  
1215 all dependent on a flow + flow  
1230 Rickert + Ryan arrive location  
site - Mike Harding + addison helps  
is a site  
water handling with hydroponic  
frames for hydroponic at the end of  
Sedon Reef - cost note  
OR paper out up the water with  
the density of water

1240 Suller in at hydroponic filling  
in water tank.

1255 Rickert + Ryan show Harding  
location of 6u-6+7

Harding says 6u6 looks OK  
but 6u-7 may require doing a  
geomorphological survey. Department  
wishes the hydroponic is a hole  
in rock. In <sup>hydroponic</sup> tubular  
and the fill is only ~ 1 foot deep  
at 6u-7 (new loc).

1300 Rickert + Harding investigate  
6u-3+4 to see if it would be  
possible to make three 2' holes  
The north off of the 490 RHTF  
ways, because permission from FED 515  
Jan Rickert

recycled paper

I-10

ecology and environment



# ecology and environment, inc.

International Specialists in the Environment

Job Number

YN - 4030

Golden Road Site  
N. Chili, NY  
of Site Log and  
Geophysical Survey  
DATA  
EM 31

ecology and environment, inc.

recycled Paper/569058

E & E Job Number YN-4030

Telephone Code Number 716-684-8060

Site Name Golden Road Site

State/City Chili, NY

TDD \_\_\_\_\_

PAN \_\_\_\_\_

SSID \_\_\_\_\_

Start / Finish Date 5/17/89 / \_\_\_\_\_

Book 2 of \_\_\_\_\_



Wednesday 5/17/89

20 zeroed EM31 at base station set up on west side of large pine tree on field between Golden Road and Fitzsimmons house.

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GRID 1 Orientation N-S/E-W (without declination correction)

| Elev | VERT |     | HORIZ |     | Comments                    |
|------|------|-----|-------|-----|-----------------------------|
|      | N-S  | E-W | N-S   | E-W |                             |
| 60   | 11   | 11  | 9     | 8   | No. side of driveway        |
| 60   | 10   | 12  | 10    | 8   | " " " "                     |
| 60   | 16   | 56* | 7     | 18* | * Adj. to Hay Wagon         |
| 50   | 7    | 15  | 8     | 15  | on drive way near           |
| 50   | 4    | 13  | 10    | 15  |                             |
| 50   | Neg  | 5   | 12    | 24  | center of driveway (sewer?) |
| 40   | 12   | 12  | 11    | 12  |                             |
| 40   | 9    | 11  | 10    | 12  | edge of driveway (south)    |
| 40   | 7    | 10  | 9     | 14  | " " "                       |
| 30   | 13   | 13  | 2     | 5   | 5' No. of machinery         |
| 30   | 6    | 10  | 10    | 7   |                             |
| 30   | 12   | 11  | 8     | 8   |                             |
| 20   | 10   | 11  | 7     | 9   | 10' from machinery          |
| 20   | 5    | 9   | 9     | 8   | GW-1 location               |
| 20   | 14   | 34  | Neg   | Neg | 3' east of machinery        |
| 10   | 13   | 60* | Neg   | Neg | * " " " Steel Box           |
| 10   | 9    | 9   | 7     | 8   |                             |
| 10   | 10   | 11  | 7     | 10  |                             |
| 10   | 10   | 10  | 8     | 10  | edge of ditch               |
| 10   | 8    | 8   | 7     | 7   | " " " "                     |
| 10   | 10   | 9   | 8     | 8   | " " " (sw corner of pond)   |

Cefe Florent 5/17/89

Wednesday 5/17/89

40'x40' GRID 0-0 is SW CORNER

GRID 6 orientation N-S/E-W (without declination correction)

11:05 Located in wooded area west of Cow Pasture

| Sta # | VERT |     | HORIZ |     | Comments  |
|-------|------|-----|-------|-----|---|
|       | N-S  | E-W | N-S   | E-W |   |
| 0-0   | 9    | 9   | 7     | 7   | all readings taken in wooded area with standing water |
| 10-0  | 9    | 9   | 7     | 7   |   |
| 20-0  | 9    | 9   | 7     | 7   |   |
| 30-0  | 9    | 9   | 7     | 8   |   |
| 40-0  | 10   | 9   | 8     | 8   | OLD BARBED WIRE FENCE RUNS N-S BETWEEN 0+10 line      |
| 40-10 | 9    | 9   | 7     | 7   |   |
| 30-10 | 9    | 8   | 7     | 7   |   |
| 20-10 | 9    | 9   | 6     | 7   |   |
| 10-10 | 8    | 8   | 7     | 6   |   |
| 0-10  | 8    | 9   | 7     | 7   |   |
| 0-20  | 9    | 9   | 6     | 6   |   |
| 10-20 | 8    | 8   | 7     | 6   |   |
| 20-20 | 9    | 9   | 6     | 6   | WELL LOCATION   |
| 30-20 | 9    | 9   | 6     | 6   |   |
| 40-20 | 8    | 9   | 7     | 7   |   |
| 40-30 | 8    | 8   | 7     | 7   |   |
| 30-30 | 8    | 9   | 6     | 6   |   |
| 20-30 | 9    | 9   | 6     | 7   |   |
| 10-30 | 8    | 8   | 7     | 7   |   |
| 0-30  | 9    | 9   | 7     | 7   |   |
| 0-40  | 9    | 9   | 8     | 7   |   |
| 10-40 | 9    | 9   | 7     | 7   |   |
| 20-40 | 9    | 9   | 7     | 7   |   |
| 30-40 | 8    | 8   | 7     | 7   |   |
| 40-40 | 8    | 8   | 7     | 7   |   |

1145 DONE WITH well # 6 GRID 1

Jim Richert

Wednesday 5/17/89

Wednesday 5/17/89

1205 GRID 7

Near Junked Cars  
GRID is completely littered with  
metal debris, EM31 readings  
will be erroneous.  
Orientation N-S/E-W (without declination correction)

1345 GRID 2

| Sta | VERT |     | HORIZ |     | Comments |
|-----|------|-----|-------|-----|----------|
|     | N-S  | E-W | N-S   | E-W |          |

| Sta   | VERT |               | HORIZ         |     | Comments                               |
|-------|------|---------------|---------------|-----|--|
|       | N-S  | E-W           | N-S           | E-W |  |
| 20,30 | -    | 38            | <del>30</del> | neg | metal debris, bus blocking N-S reading |
| 10,30 | 24   | <del>38</del> | neg           | neg | "                                      |
| 0,30  | -    |               |               |     | " (no reading - blocked)               |
| 0,20  | 33   | neg           | 30            | 9   | "                                      |
| 10,20 | 13   | 13            | 17            | 17  | " (well location)                      |
| 20,20 | neg  | 24            | 27            | 5   | "                                      |
| 20,10 | 18   | 24            | 12            | 14  | "                                      |
| 20,0  | 17   | 14            | 12            | 36  | "                                      |
| 10,0  | 20   | 5             | 19            | 15  | "                                      |
| 10,10 | 14   | 12            | 14            | 23  | "                                      |
| 0,10  | neg  | 30            | neg           | 25  | "                                      |
| 0,0   | neg  | neg           | 22            | neg | "                                      |

| Sta   | VERT |        | HORIZ |     | Comments          |
|-------|------|--------|-------|-----|-------------------|
|       | N-S  | E-W    | N-S   | E-W |                   |
| 40,40 | 10   | 10     | 10    | 9   |                   |
| 40,40 | 10   | 9      | 9     | 9   |                   |
| 30,40 | 9    | 9      | 8     | 8   |                   |
| 20,40 | 9    | 9      | 8     | 7   |                   |
| 10,40 | 9    | 9      | 8     | 7   |                   |
| 0,40  | 9    | 9      | 8     | 7   |                   |
| 0,30  | 9    | 9      | 7     | 8   |                   |
| 10,30 | 9    | 9      | 8     | 8   |                   |
| 20,30 | 9    | 9      | 9     | 9   |                   |
| 30,30 | 9    | 9      | 9     | 9   |                   |
| 40,30 | 10   | 10     | 10    | 10  |                   |
| 40,20 | 10   | 10     | 9     | 9   |                   |
| 30,20 | 10   | 10     | 9     | 8   |                   |
| 20,20 | 9    | 9      | 8     | 8   | GW-2 location     |
| 20,20 | 9    | 9      | 8     | 8   |                   |
| 0,20  | 9    | 9      | 8     | 8   |                   |
| 0,10  | 9    | GF 8/9 | 8     | 8   |                   |
| 10,10 | 9    | 9      | 8     | 8   |                   |
| 20,10 | 9    | GF 8/9 | 8     | 8   |                   |
| 30,10 | 9    | 9      | 9     | 8   |                   |
| 40,10 | 9    | 9      | 9     | 8   |                   |
| 40,0  | 10   | 10     | 9     | 9   |                   |
| 30,0  | 9    | 9      | 8     | 8   |                   |
| 20,0  | 9    | 9      | 8     | 8   |                   |
| 10,0  | 9    | 9      | 8     | 8   |                   |
| 0,0   | 9    | 9      | 8     | 8   | SW corner of Grid |

335  
setting up  
GRID  
Location south of RR, east of fill  
in wooded area  
Orientation N-S/E-W (without declination correction)

Gene Flourens 5/17/89

1405  
Gene Flourens 5/17/89

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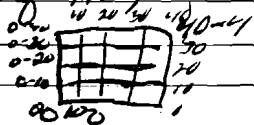
ecology and environment I-13

Wednesday 5/17/89

5/17/89 WED

GRID 5  
 Orientation N-S/E-W (without declination correction)  
 location = west edge of fill, south of RR

recycled paper



1505 finished GRID 5 survey

Grid 3 <sup>south of</sup>  
 10 ft east of fence along Right-of-way  
 along F 490

1570 Orientation N-S/E-W (without declination correction)

| STATION<br>N.O. | VERTICLE |     | HORIZONTAL |     | COMMENTS  | Sta    | VERT |     | HORIZ |     | Comments                                 |
|-----------------|----------|-----|------------|-----|---|--------|------|-----|-------|-----|--|
|                 | N-S      | E-W | N-S        | E-W |   |        | N-S  | E-W | N-S   | E-W |  |
| 0-0             | 4        | 6   | 10         | 9   | 00 = SW CORNER                                  |        |      |     |       |     |  |
| 0-0             | 7        | 5   | 9          | 13  | ALL READINGS                                    | 0, 30  | 48   | 35  | 28    | 17  | fence ten feet north<br>pole 3 feet west |
| 0-0             | 4        | 4   | 10         | 14  | ON FILL   | 0, 20  | 21   | 20  | 17    | 17  |  |
| 0-0             | 3        | 7   | 17         | 11  | * MATERIAL                                      | 0, 70  | 20   | 20  | 15    | 17  |  |
| 0-0             | 7        | 14  | 15         | 12  | STAKE DEBRIS<br>(Burred Drum<br>Date on ground) | 0, 70  | 26   | 25  | 14    | 13  | ten feet from R498                       |
| 0-10            | 10       | 5   | 8          | 9   |   | 10, 0  | 25   | 23  | 15    | 12  |  |
| 0-10            | 7        | 6   | 11         | 10  |   | 20, 10 | 21   | 20  | 15    | 16  |  |
| 0-10 I-14       | 10       | 10  | 10         | 9   |   | 20, 10 | 20   | 19  | 15    | 16  |  |
| 0-10            | 10       | 9   | 9          | 9   |   | 20, 0  | 24   | 22  | 15    | 14  | ten feet from R490                       |
| 0-10            | 5        | 8   | 9          | 7   |   | 30, 0  | 24   | 23  | 15    | 13  | " " " " "                                |
| 0-20            | 7        | 8   | 8          | 7   |   | 40, 0  | 24   | 23  | 15    | 15  | " " " " "                                |
| 0-20            | 7        | 9   | 10         | 8   | WELL STAKE                                      | 40, 10 | 21   | 22  | 17    | 18  |  |
| 0-20            | 7        | 8   | 11         | 11  |   | 30, 10 | 21   | 20  | 15    | 18  |  |
| 0-20            | 5        | 6   | 10         | 11  |   | 10, 20 | 21   | 21  | 15    | 17  | *  |
| 0-20            | 9        | 8   | 8          | 8   |   | 10, 30 | 48   | 30  | 29    | 19  | ten feet from fence                      |
| 0-30            | 6        | 7   | 9          | 9   |   | 20, 20 | 20   | 21  | 18    | 18  |  |
| 0-30            | 7        | 6   | 11         | 11  |   | 30, 20 | 20   | 21  | 17    | 18  |  |
| 0-30            | 6        | 6   | 11         | 10  |   | 40, 20 | 21   | 22  | 15    | 17  | ten feet from fence                      |
| 0-30            | 7        | 6   | 10         | 10  |   | 40, 30 | 42   | 37  | 19    | 18  | " " " " "                                |
| 0-30            | 7        | 6   | 8          | 8   |   | 30, 30 | 42   | 35  | 26    | 18  | ten feet from fence<br>west 1/2nd. 89    |
| 0-40            | 6        | 7   | 9          | 7   |   | 30, 30 | 44   | 36  | 22    | 19  |  |
| 0-40            | 7        | 7   | 11         | 10  |   |        |      |     |       |     |  |
| 0-40            | 9        | 8   | 10         | 10  |   |        |      |     |       |     |  |
| 0-40            | 8        | 9   | 10         | 10  |   |        |      |     |       |     |  |
| 0-40            | 11       | 11  | 10         | 9   |   |        |      |     |       |     |  |

Recycled

Gene Short 5/17/89



ycled paper

I-16

ecology and environment



# ecology and environment, inc.

International Specialists in the Environment

Job Number YN-4030

Golden Road Site

N. Chili, NY

GEOPHYSICAL SURVEY

MAGNETOMETER

SURVEY

DATA

ecology and environment, inc.

recycled Paper/569058

E & E Job Number YN-4030

Telephone Code Number 716-684-8060

Site Name Golden Road site

State/City N. Chili, NY

TDD \_\_\_\_\_

PAN \_\_\_\_\_

SSID \_\_\_\_\_

Start / Finish Date 5/17/89 1 \_\_\_\_\_

Book 3 of \_\_\_\_\_

5/17/89 Wednesday

20 Background station Adjacent to large  
Pine tree (west side) on field between  
Golden road and Fitzsimmons residence  
UNIMAG II EGT6 Protein Processor

| N-S   | E-W   | MAGNETOMETER |
|-------|-------|--------------|
| 53186 | 52481 |              |
| 52299 | 52493 |              |
| 52167 | 52094 |              |

30 GRID # 1

| Station | N-S   | E-W   | Comment                           |
|---------|-------|-------|-----------------------------------|
| 0       | 52131 | 52140 | SW corner of grid                 |
| 0       | 52139 | 52137 | top edge of bank                  |
| 0       | 52140 | 52137 | " " "                             |
| 10      | 52138 | 52130 | 4 feet<br>large metal box to west |
| 10      | 52141 | 52136 | corn harrow 6 feet to west        |
| 10      | 52140 | 52143 |                                   |
| 20      | 53343 | 52844 | large engine 2 feet to west       |
| 20      | 52134 | 52132 | GW-1 site - well                  |
| 20      | 52139 | 52137 | corn harrow 6 feet east           |
| 30      | 52144 | 52143 | adjacent pile of gravel dirt      |
| 30      | 52135 | 52132 | corn harrow 10 feet east          |
| 30      | 52141 | 52141 |                                   |
| 0       | 52140 | 52141 |                                   |
| 0       | 52141 | 52140 | in road way                       |
| 0       | 52140 | 52143 | " " "                             |
| 0       | 52143 | 52150 | " " "                             |
| 0       | 52151 | 52149 | " " "                             |
| 0       | 52147 | 52139 | " " "                             |
| 0       | 52137 | 52139 | " " "                             |
| 0       | 52144 | 52139 | " " "                             |
| 0       | 52147 | 52148 | hay trailer 1 foot to east        |

John Kimer

5/17/89 Wednesday

1052 finished surveying grid # 1

1055 Background Readings at station by pine tree

| N-S   | E-W   |
|-------|-------|
| 52148 | 52145 |
| 52542 | 52142 |
| 52545 | 52150 |

Grid 6

west of Cow Pasture in wooded area

1120 start

| Sta   | N-S          | E-W            | Comments        |
|-------|--------------|----------------|-----------------|
| 40,0  | 52599        |                |                 |
| 40,10 |              |                |                 |
| 40,20 |              |                |                 |
| 40,30 |              |                |                 |
| 40,40 | 799<br>56348 | 76984<br>57301 |                 |
| 30,40 | 57181        | 56540          |                 |
| 20,40 | 57406        | 57625          |                 |
| 10,40 | 57416        | 57089          |                 |
| 0,40  | 57073        | 57857          |                 |
| 0,30  | 57310        | 57107          |                 |
| 10,30 | 57151        | 57130          |                 |
| 20,30 | 57406        | 57055          |                 |
| 30,30 | 57492        | 57662          |                 |
| 40,30 | 57344        | 57608          |                 |
| 40,20 | 57263        | 57239          |                 |
| 30,40 | 57012        | 57036          |                 |
| 20,20 | 57191        | 57183          | well 6 location |
| 1135  | done         | at least       | 51718           |

5/17/89 Wednesday

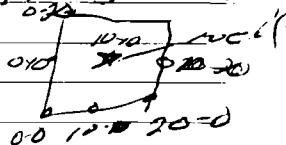
GRID 6 (Cont)

| Sta   | N-S        | E-W     | Comments            |
|-------|------------|---------|---------------------|
| 0,20  | 57567      | 57122   |                     |
| 2,20  | 57088      | 57164   |                     |
| 1,10  | 57424      | 57020   |                     |
| 1,10  | 57459      | 57269   |                     |
| 2010G | 57362      | 57791   |                     |
| 2010G | 57007      | 57229   |                     |
| 4010G | 57176      | 57154   |                     |
| 10    | 57255      | 57132   |                     |
| 10    | 57559      | 57185   |                     |
| 10    | 57066      | 57056   |                     |
| 10    | 57054      | 57359   |                     |
| 10    | 57247      | 57175   |                     |
| 10    | 57833      | 57084   |                     |
| 15    | END survey |         |                     |
| 52    | background | Reading | Comments            |
|       | N-S        | E-W     |                     |
|       | 56327      | 56740   | readings varied     |
|       | 57104      | 56420   | a bit while getting |
|       | 57100      | 56559   | background samples  |

5/17/89 WEDNESDAY

GRID #7 6W-7

WELL STAKE IN MIDDLE OF STEEL JUNK YARD  
 EXPECT MUCH INTERFERENCE. GRID IS NOT  
 COMPLETE DUE TO ACCESS (JUNK) PROBLEM.  
 S.W. CORNER OF GRID = 0-0



1210 BEGIN SURVEY

| STATION                           | N-S   | E-W   | COMMENTS                                |
|-----------------------------------|-------|-------|---|
| 00                                | 56561 | 54151 | 2' EAST of steel tank                   |
| 10-0                              | 52793 | 54993 | ADJACENT TO CAREN. NE                   |
| 20-0                              | 54508 | 54721 |   |
| <del>20-20</del> <sup>20,10</sup> | 52858 | 54000 | INCONSISTANT READINGS                   |
| <del>10-10</del> <sup>10,10</sup> | 53570 | 55319 |   |
| 10-0 <sup>0,10</sup>              | 53297 | 53939 | IN JUNK PILE                            |
| <del>20-0</del> <sup>0,20</sup>   | 53192 | 56183 | " " "                                   |
| 20-K <sup>10,20</sup>             | 55499 | 55287 | WELL STAKE                              |
| 20-20                             | 54340 | 52023 | 2' from truck frame                     |
| <del>30-20</del> <sup>20,20</sup> | 54090 | 54751 | 1' SOUTH OF A BUS                       |
| 20-30                             | 54013 | 54270 |   |
| <del>30-30</del>                  |       |       | <sup>0,30</sup><br>30-30 NOT ACCESSIBLE |

1225 done with Grid #7

Jim Richert



5/17/89 Wednesday

1232 background readings

|         |       |     |
|---------|-------|-----|
| Station | N-5   | E-W |
| 52785   | 54017 |     |
| 52247   | 52701 |     |
| 51973   | 53573 |     |

1337 background readings

|         |       |     |
|---------|-------|-----|
| Station | N-5   | E-W |
| 52800   | 53178 |     |
| 56444   | 52570 |     |
| 53600   | 53030 |     |

1376 Start Grid Number 2 in forested area

Comments

|         |       |     |
|---------|-------|-----|
| Station | N-5   | E-W |
| 57423   | 57142 |     |
| 57694   | 55614 |     |
| 57032   | 56919 |     |
| 56950   | 56476 |     |
| 57353   | 58841 |     |
| 56958   | 57230 |     |
| 56244   | 56212 |     |
| 55367   | 56410 |     |
| 55149   | 53943 |     |
| 56164   | 50522 |     |
| 55238   | 57032 |     |
| 56965   | 56827 |     |
| 5720    | 57071 |     |
| 57136   | 56766 |     |
| 57304   | 57132 |     |

to the corner

wall location

1435 GRID 5

background readings

1415

|         |       |     |
|---------|-------|-----|
| Station | N-5   | E-W |
| 54207   | 57162 |     |
| 57009   | 54711 |     |
| 56949   | 57319 |     |

1407 finished grid 2

|         |       |     |
|---------|-------|-----|
| Station | N-5   | E-W |
| 56753   | 57310 |     |
| 57503   | 57571 |     |
| 56843   | 57355 |     |
| 57726   | 57576 |     |
| 56978   | 57103 |     |
| 57189   | 56965 |     |
| 56887   | 57177 |     |
| 57094   | 57000 |     |
| 57420   | 57691 |     |
| 56781   | 57120 |     |

5/17/89 Wednesday

Comments

edge of fill

5/17/89

1440

|         |       |     |
|---------|-------|-----|
| Station | N-5   | E-W |
| 57133   | 57465 |     |
| 57195   | 57247 |     |
| 57648   | 57375 |     |
| 56567   | 58557 |     |
| 54101   | 53818 |     |
| 57898   | 55913 |     |
| 57870   | 57660 |     |
| 57114   | 57647 |     |

GRID 5 continued

5/17/89

MAGNETOMETER

| Sta   | N-S   | E-W   | Comments      |
|-------|-------|-------|---------------|
| 20,30 | 57400 | 57332 |               |
| 40,30 | 57573 | 57441 |               |
| 20,20 | 57039 | 57256 |               |
| 26,20 | 57435 | 57038 |               |
| 24,20 | 57564 | 57618 |               |
| 19,20 | 58208 | 57875 | GW-5 location |
| 2,20  | 57683 | 57428 | edge of fill  |
| 0,10  | 57094 | 58778 | " " "         |
| 10,10 | 57556 | 57763 |               |
| 20,10 | 57579 | 57480 |               |
| 30,10 | 57588 | 57513 |               |
| 40,10 | 57330 | 57491 |               |
| 40,0  | 57052 | 57257 |               |
| 40,0  | 57784 | 57553 |               |
| 40,0  | 57347 | 57099 |               |
| 40,0  | 57174 | 57831 |               |
| 10,0  | 57461 | 57836 |               |
| 1455  | END   |       |               |

in corner of grid  
edge of fill

1525 BACKGROUND

| NS    | EW    |
|-------|-------|
| 53446 | 56764 |
| 57172 | 56711 |
| 56627 | 57217 |

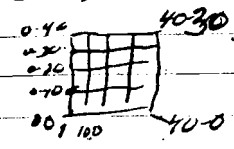
ecology and environment  
R 21

5/17/89 WED

GRID #3 ON RT 490 RIGHT OF WAY  
EAST OF GW#4

1600 BEGIN SURVEY AT (0-0) southwest point

GRID HAS 20 points or before 5' spacing



| STA              | N+S              | E+W              | COMMENTS                       |
|------------------|------------------|------------------|--------------------------------|
| <del>40,0</del>  | -                | -                | <del>SHOULDER of road SR</del> |
| <del>40,10</del> | -                | -                |                                |
| 40-0             | 53537            | 53247            |                                |
| 30-0             | 56379            | 53523            |                                |
| 20-0             | 57711            | 53464            |                                |
| 10-0             | 55001            | 53217            |                                |
| 0-0              | 56554            | 56912            |                                |
| 0-10             | 54785            | 52594            |                                |
| 10-10            | <del>57453</del> | <del>57967</del> |                                |
| 20-10            | 53043            | 53942            |                                |
| 30-10            | 56760            | 57638            |                                |
| 40-10            | 57303            | 57467            |                                |
| 0-20             | 54686            | 54579            |                                |
| 10-20            | 56328            | 54990            |                                |
| 20-20            | 57205            | 57259            |                                |
| 30-20            | 55424            | 56927            |                                |
| 40-20            | 56702            | 55680            |                                |
| 40-30            | 57130            | 56067            |                                |
| 30-30            | 57338            | 57039            |                                |
| 20-30            | 56490            | 57042            |                                |
| 10-30            | <del>57537</del> | <del>57072</del> |                                |
| 0-30             | <del>57209</del> | <del>57246</del> |                                |

|             |              |
|-------------|--------------|
| NS<br>57533 | E+W<br>57788 |
|-------------|--------------|

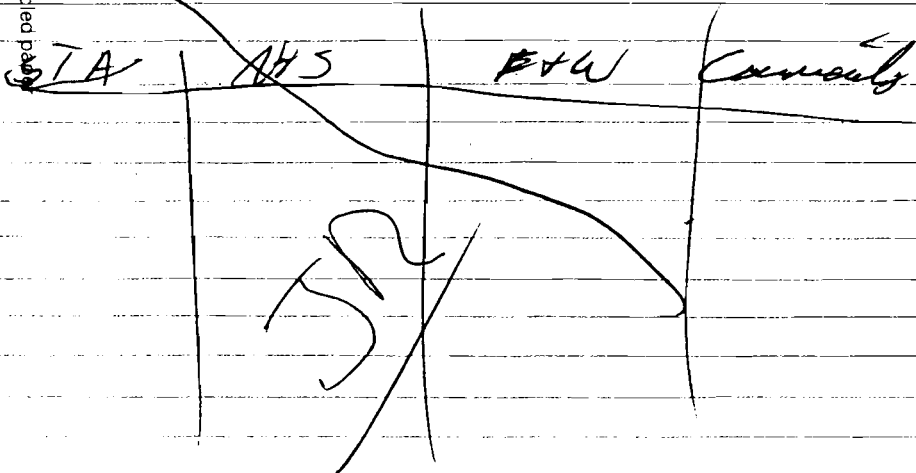
↑  
inadeq readings  
"  
"  
"

↑  
100K 7 TRYS FOR GOOD RES  
WELL STAKE  
NS 57537 | E+W 57072  
57209 | 57246 Jim Rickett

5/17/89 WE

GRID #3 CONT.

recycled paper



decided not to serve the 5 points  
located on the shoulder of STA 30.

1630 End grid #3

recycling and environment

1-22

Jim Risher

5/17/89 WED

HO starting grid #4

| station | NS    | E-W   | comments      |
|---------|-------|-------|---------------|
| 40, 0   | 55161 | 53212 |               |
| 30, 0   | 55911 | 56419 |               |
| 20, 0   | 57024 | 56833 |               |
| 10, 0   | 57243 | 57017 |               |
| 0, 0    | 57158 | 57536 |               |
| 0, 10   | 57243 | 56850 |               |
| 0, 10   | 57076 | 56424 |               |
| 10, 10  | 57079 | 57322 |               |
| 20, 10  | 57197 | 57727 |               |
| 10, 10  | 57066 | 56675 |               |
| 10, 20  | 57069 | 57244 |               |
| 30, 20  | 57048 | 56853 |               |
| 20, 20  | 57038 | 56672 |               |
| 10, 20  | 56925 | 57075 |               |
| 0, 20   | 57061 | 57280 |               |
| 0, 30   | 56223 | 56921 |               |
| 0, 30   | 56480 | 56800 |               |
| 20, 30  | 56726 | 56468 | wall location |
| 30, 30  | 56820 | 56808 |               |
| 40, 30  | 56886 | 56622 |               |

1655 finished grid #4

Background readings

| NS    | E-W   |
|-------|-------|
| 52935 | 53140 |
| 56998 | 56293 |
| 56975 | 57052 |

Little League/Granger and Golden rd. 8/22/89

1015 GW-8

Temperature: 59°F

conductivity: 1740  $\mu$ /cm.

pH: 7.92

1020 - development of GW-8 complete.

1040 - Leave site

1130 Arrive at Golden Rd site  
S. Campbell J. JENSEN  
J. DANZINGER (driller)

(NYSDEC)  
Already on site - M. Ryan and  
J. Rucker.  
(E+E)

1200 - Break for lunch + make phone  
calls - driller calls his office.

1230 Back to work.

- Ron Brown, driller arrives at  
Golden Rd site.

1235 - Nick Harding arrives at Golden Rd.

8/22/89

## Golden Road

- 1425 begin drilling GW-6  
HNU background - 0.6 ppm
- 1500 well installation at GW-6  
begins.  
PVC - 7.0 ft. screen  
PVC riser  
sand (100 lb/bag) - 2 bags.  
bentonite pellets - 1/2 5 gal bucket  
Portland cement (94 lb/bag) 2 bags  
bentonite cement - 2 lg. handfuls.  
1 4" O.D. protective  
casing with locking cap.
- 1635 GW-6 well installation complete
- 1700 we leave site

recycled paper

I-24

ecology and environment

## Golden Road

8/23/89

- 0800 S. Campbell + myself arrive at site  
Mike Ryan says that he and the  
drillers were here at 0730.
- 0800 - drillers decon. equipment and  
drill rig at GW-6 location
- 0845 - decon. complete  
- mobilize to GW-7  
span = 710 + background = 0.6.
- 0855 - Han and GAS tech  
calibrated by S. Campbell  
& J. Danzinger  
Monitox & Minirad  
checked by J. Danzinger
- 0900 Background reading Hnu  
taken by J. Danzinger  
.6 ppm
- 1005 Full TCL TAKEN 2 40 mL JAR  
- 1 8 oz JAR not Full  
Samples GW7-67-191  
Samples taken at NYSDEC  
Request After S. Campbell  
and J. Danzinger ~~observed~~ sc  
smelled an odor emitted when

8/23/89

it spoon was opened.

Golden Road

GW-7

PVC screen - 7.0'

PVC riser - 12.2'

sand (100lb/bag) - 2 bags

bentonite pellets (5 gallon bucket) - 1/2 bucket

portland cement (94 lb/bag) - 2 bags

bentonite cement - 2 handfuls

4" O.D. protective casing 49" long.

grout mixed in 5 gallon buckets.

2 Full buckets are used  
in the hole.

1135 installation of monitoring well  
at GW-7 is complete.

1135 drillers begin decon of rig and  
equipment.

1200 Break for lunch

1230 Back to work.

1300 decon started up again.

1330 decon complete  
- mobilize to GW-1 location.

Golden Road

8/23/89

1343

pictures of GW-7.  
3rd roll frames 1 + 2.

GW-6 pictures.

3rd roll, frames 3 + 4.

1345 begin drilling at GW-1.

1400 - NYSDEC, Bob Hall, arrives at  
site. He and Mike RYAN go to talk  
with owner, Mr. Fitzsimons.

GW-1 well specs.

PVC screen → 5.0'

PVC riser → 8.5'

sand → almost a whole bag (100lbs/bag)

bentonite pellets → (5 gallon bucket) 1/3 bucket.

portland cement → (94lb/bag) → 2 bags.

bentonite cement → 3 handfuls.

1 4" O.D. protective

slurry mixed in 5 gallon bucket  
3 buckets worth to fill hole.

8/23/89

Golden Road.

- 1525 well installation complete at GW-1 0800
- 1530 drillers begin decon of rig and equipment
- 1620 everyone leaves site.

Golden Road

8/24/89

- S. Campbell + myself arrive at site. NYSDEC, Mike RYAN, and drillers already here.  
- bulldozer is here. Joe Jensen driller will operate it.
- 0820 Drill crew steam clean Bulldozer at NYSDEC request
- 0850 Well Development begins at GW6 location
- |      |   |     |        |                   |
|------|---|-----|--------|-------------------|
| 1150 | - | PH  | Air    | Surge method used |
|      |   | 8.5 | 1380cm | 53F               |
| 1250 |   | PH  | 8.3    | 1470              |
|      |   |     |        | 56F               |
- 0850 Steam clean of bulldozer complete.
- 0845 - drill rig water samples taken  
VOA - 2 (40 ml)  
BNA - 1 (1/2 gallon amber)  
PEST/PCB - 1 (1/2 gallon amber)  
HSL Metals - 1 (liter plastic) HNO<sub>3</sub>  
Cyanide - 1 (liter plastic) NaOH

8/24/89

Golden Road

0930 start drilling at GW-5

0920 Calibration of PI 101  
 Gas tech monitor and  
 Minirad by S. Campbell  
 background reading upwind &  
 downwind at .6 ppm  
 span setting 7.25

● 1135 Full TCL of drum spill on ground <sup>surface</sup>  
 Sample name is W-3 { - yellow to orange resin like  
 substance  
 - located just south of GW-5  
 - received O.K. to take the  
 sample from NYSDEC, Mike Ryan  
 Health dept.

1200 Monroe County, Bob Albert + Todd  
 CaFoc, arrive at site and  
 talk with Mike RYAN

1230 Break for Lunch

1240 development of GW-6 complete

1300 development of GW-7 begins

1300 - back to work

1400 GW-7

Temperature: 61°F

Conductivity: 1170  $\mu$ /cm

pH: 8.5

Golden Road

8/24/89

1400 installation of GW-5 complete

1435 pictures of GW-5 and resin spill  
 roll #3 frames 5 + 6  
 ↑ ↑ ↑  
 core GW-5.

1435 decon of drill rig and equip begins

1500 Well GW7  
 pH 8.5  
 cond 1290  $\mu$ /cm  
 Temp 58°

1505 shut the compressor  
 down at GW7

1525 decon of rig + equipment complete

1550 drilling at GW-2 begins

1630 - drillers leave site

1635 - NYSDEC, Mike Ryan leaves site

1700 - S. Campbell + J. Danzinger leave site



8/25/89

0045  
0745

S. Campbell + J. Danziger arrive  
at site

- Mike RYAN, NYSDEC, and drillers  
already here.

0755  
0858

development of GW-1 begins.

0845

well installation at GW-2 begins

PVC screen - 5.0'

PVC riser - 8.0'

sand (100 lbs/bag) - 1 1/2

bentonite pellets (5 gal. bucket) - 1/2

portland cement (94 lb/bag) - 1 3/4

bentonite cement - 4 handfuls.

0900

GW1 Temp .62

conductivity 1280  $\mu$ /cm

ph 8.5

0945

installation of well at GW-2  
complete.

1000

Bob VanderHorst, Empire,  
visits site.

Golden Road.

8/25/89

1015 decon of rig + equipment begins

1020 Bob Long, NYSDEC, visits site

1030 development of GW-1 complete.

1045 decon complete

1150 - development of GW-5 begins.

1230 - break for lunch

1300 - back to work.

1740 GW-5

Temperature : 66°F

conductivity : 960  $\mu$ /cm

pH : 9.0

1350

Development at GW5 completed

1405

Leave the site

1520

Hand delivered W3 to E&E  
LAB and relinquished  
sample to Steve Taylor  
E+E

1630

- arrive at office.

8/28/89

Golden Road

1045

S. Campbell + J. Danzinger  
arrive at site.

John Cuero from empire  
soils is already there  
and is in the midst of  
developing GW-2 by  
air surge method.

- He started at  
1000 and will finish  
development of GW-2  
at 1200

12:04

On Road Back to site

13:20

On Fitzsimmons site

Began sampling

Sample # 9 #9MS MSD

" # 10

# 11

All taken w/ stainless steel spoons

Rusty soil discoloration at sample 10 location

No surface water present at this time

cattle

13:40

Finished samples 9, 10, 11

and left the area

14:15

Entered area across the tracks

From Mr Fitzsimmons

14:15

Samples W1 W2 S8 S7 N

and L1 taken

15:35

Soil discoloration noted at S8 location Rust-like color.

Petroleum sheen noted

while sampling L1

Representative sample at

L1 taken at areas

Diagramed



All soil samples and waste like samples taken a depth of 0-12 inches w a representative sample of that area. All sampling spoons covered w/Alum foil to prevent cross contamination

15:40

Left Sampling Area  
note: All sample locations marked by survey flags

15:40

16:00 hrs

Packed cooler for Fed ex shipment under COC procedure & deconed area.

16:25

Left Golden Rd site

6/15/89 06:50 AM arrive at Golden  
RD site in Chili

proceed to site Access road

Along Railroad tracks

Cloudy Slight rain 65° approx

I dressed then calibrated  
the HNU with 150 butylene

according to Standard  
operating procedure (S.O.P)

Nick made Sure Gas tank  
monitors were in order

by checking readings per  
site Recon. S.O.P

Reconed site by Railroad tracks  
for vegetation. Found active sheep  
Mr. F. Simpson stopped by  
to say Hello

Nick and I recalibrated  
HNU due to moisture

Began Sampling on S1  
No HNU readings no  
discoloration in soil  
~~odor~~ slight petro odor

Began S2 Soil Sample  
a blue chunky substance  
was encountered during

Sampling in the soil. No HNU  
readings

09:40  
N

Began Sampling S3  
no discoloration in soil  
no HNU readings no odor

09:55  
S

Began Sampling S4 no  
HNU readings no  
discoloration in soil  
no odor

10:10  
S

Began Sampling S5 no  
HNU readings no  
discoloration in soil  
no odor

10:20  
S

Sampled S6 discoloration  
in soil Defected Rust  
Color no odor

→ Analyzed All samples taken with SS 30 boxes  
from soil w/ red. Composites at 0-12 inches.  
Returned to Truck

10:30

with Samples S1-S6

11:00

Left site at 11:00  
had lunch Returned to  
shop for bottles

1/9/89 Golden Road Site

Personnel Empire Soils  
Dave Orange  
Joe Jensen

On Ppl's S. Campbell  
P. Vandrei

NYSDEC R. Long

Steam Cleaning of all equipment took place on 11/8/89  
at Empire HQ 3 1/2 hrs

Weather Overcast 35-40°

Objective Install two monitoring  
wells along I 490  
westbound adjacent  
to Golden Road disposal  
site.

0900 I arrive on site  
Empire crew already  
present at GW3  
locabin

I tell them they can  
cut a few trees to  
give the rig access  
off the roadway otherwise  
the rig will be partially  
in the road

0930 R. Long & Pam Vandrei  
arrive Decan area &  
set up and  
drillers get into  
truck.

1000 Site safety meeting held  
by S. Campbell

1000 P. Vandrei takes  
Van back

1005  
1115

Drilling at GW3 Begins  
Hit TOP OF BEDROCK - WELL 18.5'  
INSTALLATION BEGINS

1130

USED 1 BAG OF SAND AROUND SCREEN

1140

USED 1 BAG OF SAND AROUND SCREEN  
1/2 OF ANOTHER BAG SAND

1200

Bentonite seal placed from  
6.2 to 4' water in hole  
is readily flowing out  
at ground surface to NW  
sides of bentonite are  
added to try to stop  
this flow. R Long  
approves.

1235

Break for lunch

1:20

Return to work  
Drillers have already  
grouted the well in  
place

1:50

While waiting for the  
grout to dry the  
drillers cut up some  
of the trees that were  
removed from the GW3  
area

2:00

Materials that will be used again

50'

are decontaminated  
5 foot rods  
rod plug  
Tape measure  
Shovel

2:25

Decon complete at GW3

2:30

1 tree cut / trimmed

2:35

Drilling begins at GW4

3:45

HIT BEDROCK AT 21.1'  
WELL INSTALLATION BEGINS

3:55

1/2 BAG SAND USED AROUND SCREEN

4:05

1 BAG SAND USED

4:20

1 BAG SAND USED

recycled paper

I-33

PROGRESS AND GOVERNMENT

NYSDEC PHASE II INVESTIGATIONS

Equipment Use

DAILY SITE REPORT

Date 6/15/89-10/3/89 NYSDEC ID# 828021  
 Site Name GOLDEN ROAD DISPOSAL SITE Site No. YN4020(AE02)  
 Work Start \_\_\_\_\_ Lunch \_\_\_\_\_ Finish \_\_\_\_\_  
 Weather Conditions \_\_\_\_\_

Personnel On Site:

| <u>NYSDEC</u> | <u>Om P. Popli, P. E.</u> | <u>Driller</u> |
|---------------|---------------------------|----------------|
| _____         | _____                     | _____          |
| _____         | _____                     | _____          |
| _____         | _____                     | _____          |

Personnel Safety Equipment:

Om P. Popli, P. E.

Driller

|                        |       |       |
|------------------------|-------|-------|
| Level of Protection    | _____ | _____ |
| # of Tyveks            | _____ | _____ |
| # of Tyvek Booties     | _____ | _____ |
| # of Disposable Gloves | _____ | _____ |
| _____                  | _____ | _____ |
| _____                  | _____ | _____ |

Environmental Equipment On Site:

|                       | Meter #      | days Used <del>Days</del> | Calib. Date | By    | Readings Above Background* |
|-----------------------|--------------|---------------------------|-------------|-------|----------------------------|
| HNu Meter             | 901394       | 5                         | _____       | _____ | _____                      |
| Explosimeter          | C2537        | 4                         | _____       | _____ | _____                      |
| Monitox (HCN)         | 035863       | 4                         | _____       | _____ | _____                      |
| Mini-Rad              | 20655        | 4                         | _____       | _____ | _____                      |
| pH Meter              |              | 2                         | _____       | _____ | NA                         |
| Nephelometer          |              | 0                         | _____       | _____ | NA                         |
| Camera                | 30302174     | 2                         | NA          | NA    | NA                         |
| Water Level Indicator |              | 1                         | NA          | NA    | NA                         |
| TLD Badge             | SC-6954 0004 |                           | NA          | NA    | NA                         |
|                       | NH-6950 0003 |                           | NA          | NA    | NA                         |

\*If meter readings exceeded background, see reverse side for Comments.

OM P. POPLI, P. E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date 6/15/89 - THUR. NYSDEC ID# 828021  
 Site Name GOLDEN ROAD DISPOSAL SITE Site No. YN4020(AEC2)  
 Work Start 0650 hrs. - Lunch 1100 - 1130 hrs. Finish 1625 hrs.  
 Weather Conditions OVERCAST, SLIGHT BREEZE, LIGHT RAIN, 65°F ±

Personnel On Site:

|               |                           |                |
|---------------|---------------------------|----------------|
| <u>NYSDEC</u> | <u>Om P. Popli, P. E.</u> | <u>Driller</u> |
| _____         | <u>NICK HARDING</u>       | _____          |
| _____         | <u>STEVE CAMPBELL</u>     | _____          |
| _____         | _____                     | _____          |

Personnel Safety Equipment:

Om P. Popli, P. E.

Driller

Level of Protection

# of Tyveks

# of Tyvek Booties

# of Disposable Gloves

D

\_\_\_\_\_

4

\_\_\_\_\_

2 pr.

\_\_\_\_\_

6 pr.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Environmental Equipment On Site:

|                       | Meter #      | Used Today | Calib. Date | By        | Readings Above Background* |
|-----------------------|--------------|------------|-------------|-----------|----------------------------|
| HNu Meter             | 901394       | <u>Y</u>   | <u>6/15</u> | <u>SC</u> | <u>N</u>                   |
| Explosimeter          | C2537        | <u>Y</u>   | <u>6/15</u> | <u>NT</u> | <u>N</u>                   |
| Monitox (HCN)         | 035863       | <u>Y</u>   | <u>6/15</u> | <u>NT</u> | <u>N</u>                   |
| Mini-Rad              | 20655        | <u>Y</u>   | <u>6/15</u> | <u>NT</u> | <u>N</u>                   |
| pH Meter              |              | <u>N</u>   | <u>-</u>    | <u>-</u>  | <u>NA</u>                  |
| Nephelometer          |              | <u>N</u>   | <u>-</u>    | <u>-</u>  | <u>NA</u>                  |
| Camera                | 30302174     | <u>N</u>   | <u>NA</u>   | <u>NA</u> | <u>NA</u>                  |
| Water Level Indicator |              | <u>N</u>   | <u>NA</u>   | <u>NA</u> | <u>NA</u>                  |
| TLD Badge             | SC-6954 0004 | <u>Y</u>   | <u>NA</u>   | <u>NA</u> | <u>NA</u>                  |
|                       | NH-6950 0003 | <u>Y</u>   | <u>NA</u>   | <u>NA</u> | <u>NA</u>                  |

\*If meter readings exceeded background, see reverse side for Comments.



**Equipment On Site:**

Drill Rig Type \_\_\_\_\_  
 Water Tanker \_\_\_\_\_  
 Steam Jenny \_\_\_\_\_  
 Bulldozer \_\_\_\_\_  
 Air Compressor \_\_\_\_\_  
 Other \_\_\_\_\_

**Decontamination Zone:**

Detergent Wash \_\_\_\_\_ ✓  
 Potable H<sub>2</sub>O \_\_\_\_\_ ✓  
 Methanol \_\_\_\_\_ ✓  
 Distilled Water \_\_\_\_\_ ✓  
 Plastic Cover \_\_\_\_\_  
 Other \_\_\_\_\_

**DESCRIPTION OF WORK COMPLETED**

- SITE WALK THROUGH PERFORMED PRIOR TO SAMPLING
- ENVIRONMENTAL SAMPLING WAS COMPLETED ACCORDING TO SITE WORK PLAN:
  - SOIL SAMPLES - S1 - S11
  - WASTE PILES - W1 & W2
  - LEACHATE - L1

- FLAGS SECURED AT SOIL SAMPLING SITES, AS WELL AS WASTE PILES & LEACHATE.

- SAMPLES WERE PACKAGED AND SHIPPED VIA FEDEX UNDER CHAIN-OF-CUSTODY CONTROL.

- MR. FITESIMMONS VISITED CONSULTANT AT FRONT GATE TO SITE @ 0900 hrs.

**SPECIAL COMMENTS**

SEE ENVIR. FIELD SAMPLING FORM THIS DATE.

Approvals.

*Nicholas J. Gardin*  
 \_\_\_\_\_  
 Om P. Poph, P. E.

Driller

NYSDEC

6/15

OM P. POPLI, P. E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date Tuesday 8/22/89 NYSDEC ID# 828021  
Site Name Golden Road Disposal Site Site No. YN4020  
Work Start 1130 Lunch 1200-1230 Finish 1700  
Weather Conditions cloudy 80° - light drizzle end of day

Personnel On Site:

| <u>NYSDEC</u>    | <u>Om P. Popli, P. E.</u> | <u>Driller</u>    |
|------------------|---------------------------|-------------------|
| <u>Mike RYAN</u> | <u>J. Danzinger</u>       | <u>Ron Brown</u>  |
|                  | <u>S. Campbell</u>        | <u>Joe Jensen</u> |
|                  | <u>N. Harding</u>         |                   |

Personnel Safety Equipment:

|                        | <u>Om P. Popli, P. E.</u> | <u>Driller</u> |
|------------------------|---------------------------|----------------|
| Level of Protection    | <u>D</u>                  | <u>D</u>       |
| # of Tyveks            | <u>2</u>                  | <u>2</u>       |
| # of Tyvek Booties     | <u>-</u>                  | <u>-</u>       |
| # of Disposable Gloves | <u>7 pair</u>             | <u>-</u>       |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u>   | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-------------|-----------------------------------|
| HNu Meter             | <u>901394</u>       | <u>Y</u>          | <u>8/22/89</u>     | <u>S.C.</u> | <u>-</u>                          |
| Explosimeter          | <u>C2537</u>        | <u>Y</u>          | <u>8/22/89</u>     | <u>S.C.</u> | <u>-</u>                          |
| Monitox (HCN)         | <u>035863</u>       | <u>Y</u>          | <u>8/22/89</u>     | <u>S.C.</u> | <u>-</u>                          |
| Mini-Rad              | <u>20655</u>        | <u>Y</u>          | <u>8/22/89</u>     | <u>S.C.</u> | <u>-</u>                          |
| pH Meter              |                     | <u>N</u>          |                    |             | <u>NA</u>                         |
| Nephelometer          |                     | <u>N</u>          |                    |             | <u>NA</u>                         |
| Camera                | <u>30302174</u>     | <u>N</u>          | <u>NA</u>          | <u>NA</u>   | <u>NA</u>                         |
| Water Level Indicator |                     | <u>N</u>          | <u>NA</u>          | <u>NA</u>   | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954 0004</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u>   | <u>NA</u>                         |
|                       | <u>JD 6954 0002</u> | <u>Y</u>          |                    |             |                                   |
|                       | <u>NH-6950 0003</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u>   | <u>NA</u>                         |

\*If meter readings exceeded background, see reverse side for Comments.

Equipment On Site:

Drill Rig Type Y Acker  
 Water Tanker Y  
 Steam Jenny Y  
 Bulldozer N  
 Air Compressor Y  
 Other \_\_\_\_\_

Decontamination Zone:

Detergent Wash Y Alconax  
 Potable H<sub>2</sub>O Y  
 Methanol Y  
 Distilled Water Y  
 Plastic Cover Y  
 Other Steam clean

**DESCRIPTION OF WORK COMPLETED**

1425 - 1650 - drilling to 16.6' (bedrock) at GW-6.  
 - 4 split-spoons at 5' intervals.  
 - installation of monitoring well at GW-6.  
 - 7.0' screen approved by M. Ryan NYSDEC  
 - Water depth at 14.6' (best encountered) MR  
 1300 - 1400 → decontamination of drill-rig and equipment prior  
 to use on GW-6.

**SPECIAL COMMENTS**

Approvals

[Signature]  
 Om. P. Popli, P. E.

[Signature]  
 Driller

[Signature]  
 NYSDEC

8/22

OM P. POPLI, P. E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date Wednesday, 8/23/89 NYSDEC ID# 828021  
Site Name GOLDEN Road Site No. YNA020  
Work Start 0730 — Lunch 1200-1230 Finish 1630  
Weather Conditions cloudy, mid 70's, slight breeze

Personnel On Site:

| <u>NYSDEC</u>  | <u>Om P. Popli, P. E.</u> | <u>Driller</u>   |
|----------------|---------------------------|------------------|
| <u>M. RYAN</u> | <u>S. Campbell</u>        | <u>J. JENSEN</u> |
|                | <u>J. DANZINGER</u>       | <u>R. BROWN</u>  |

Personnel Safety Equipment:

Om P. Popli, P. E.

Driller

|                        |                |               |
|------------------------|----------------|---------------|
| Level of Protection    | <u>D</u>       | <u>D</u>      |
| # of Tyveks            | <u>4</u>       | <u>4</u>      |
| # of Tyvek Booties     | <u>-</u>       | <u>-</u>      |
| # of Disposable Gloves | <u>10 pair</u> | <u>1 pair</u> |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | <u>901394</u>       | <u>Y</u>          | <u>8/23/89</u>     | <u>JD</u> | <u>-</u>                          |
| Explosimeter          | <u>C2537</u>        | <u>Y</u>          | <u>8/23/89</u>     | <u>SC</u> | <u>-</u>                          |
| Monitox (HCN)         | <u>035863</u>       | <u>Y</u>          | <u>8/23/89</u>     | <u>JD</u> | <u>-</u>                          |
| Mini-Rad              | <u>20655</u>        | <u>Y</u>          | <u>8/23/89</u>     | <u>JD</u> | <u>-</u>                          |
| pH Meter              |                     | <u>N</u>          | <u>-</u>           | <u>-</u>  | <u>NA</u>                         |
| Nephelometer          |                     | <u>N</u>          | <u>-</u>           | <u>-</u>  | <u>NA</u>                         |
| Camera                | <u>30302174</u>     | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Level Indicator |                     | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954 0004</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>JD-6954 0002</u> | <u>Y</u>          |                    |           |                                   |
|                       | <u>NH-6950 0003</u> |                   | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\*If meter readings exceeded background, see reverse side for Comments.

Equipment On Site:

Drill Rig Type Acker  
 Water Tanker Y  
 Steam Jenny Y  
 Bulldozer N  
 Air Compressor Y  
 Other \_\_\_\_\_

Decontamination Zone:

Detergent Wash Y Alconox  
 Potable H<sub>2</sub>O Y  
 Methanol Y  
 Distilled Water Y  
 Plastic Cover Y  
 Other Steam  
clean

**DESCRIPTION OF WORK COMPLETED**

0800-0845 decontamination of drill-rig and equipment

0930-1135 drilling and well installation at GW-7  
 - 6 split spoons (3 continuous)  
 - drilled to 17.4'  
 - full TCL taken at GW7-17'-19'  
 - 2 40ml-VOA  
 - 1 Box -TCL  
 - 7.0' screen used  
 - depth of well 17.2'

1135-1200 + 1300-1330 decontamination of drill-rig and equipment.

1240-1345 - Pictures taken of: GW-7 3<sup>rd</sup> roll, Frames 1+2  
GW-6 3<sup>rd</sup> roll, Frames 3+4

1345-1525 drilling and well installation at GW-1  
 - 3 split-spoons  
 - drilled to 12.0'  
 - depth of well is 11.5' and screen length is 5.0'  
 - 1.0' of sand above screen and total 1.0'

1530-1620 decontamination of drill-rig and equipment

**SPECIAL COMMENTS**

Approvals

*P. Popli*  
 P. Popli, P.E.

*J. Jones* *M. Kelly*  
 Driller NYSDEC

OM P. POPLI, P. E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date Thursday 8/24/89 NYSDEC ID# 828021  
 Site Name Golden Road Disposal Site Site No. YN 4020  
 Work Start 0730 Lunch 1230-1300 Finish 1630  
 Weather Conditions partly cloudy 70's

Personnel On Site:

| <u>NYSDEC</u>  | <u>Om P. Popli, P. E.</u> | <u>Driller</u>   |
|----------------|---------------------------|------------------|
| <u>M. RYAN</u> | <u>J. DANZINGER</u>       | <u>J. JENSEN</u> |
|                | <u>S. CAMPBELL</u>        | <u>R. BROWN</u>  |

Personnel Safety Equipment:

Om P. Popli, P. E.

Driller

|                        |                |                     |
|------------------------|----------------|---------------------|
| Level of Protection    | <u>D</u>       | <u>D</u>            |
| # of Tyeks             | <u>4</u>       | <u>4</u>            |
| # of Tyvek Booties     | <u>-</u>       | <u>-</u>            |
| # of Disposable Gloves | <u>25 pair</u> | <u>-</u>            |
|                        |                | <u>rubber boots</u> |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u>    | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|--------------|-----------------------------------|
| HNu Meter             | <u>901394</u>       | <u>Y</u>          | <u>8/24/89</u>     | <u>S. C.</u> | <u>-</u>                          |
| Explosimeter          | <u>C2537</u>        | <u>Y</u>          | <u>8/24/89</u>     | <u>S. C.</u> | <u>-</u>                          |
| Monitox (HCN)         | <u>035863</u>       | <u>Y</u>          | <u>8/23/89</u>     | <u>S. C.</u> | <u>-</u>                          |
| Mini-Rad              | <u>20655</u>        | <u>Y</u>          | <u>8/24/89</u>     | <u>S. C.</u> | <u>-</u>                          |
| pH Meter              |                     | <u>Y</u>          |                    |              | <u>NA</u>                         |
| Nephelometer          |                     | <u>N</u>          |                    |              | <u>NA</u>                         |
| Camera                | <u>30302174</u>     | <u>Y</u>          | <u>NA</u>          | <u>NA</u>    | <u>NA</u>                         |
| Water Level Indicator |                     | <u>N</u>          | <u>NA</u>          | <u>NA</u>    | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954 0004</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u>    | <u>NA</u>                         |
|                       | <u>JD 6954 0002</u> | <u>Y</u>          |                    |              |                                   |
|                       | <u>NH-6950 0003</u> | <u>N</u>          | <u>NA</u>          | <u>NA</u>    | <u>NA</u>                         |

\*If meter readings exceeded background, see reverse side for Comments.

Equipment On Site:

Drill Rig Type Y Acker  
 Water Tanker Y  
 Steam Jenny Y  
 Bulldozer Y  
 Air Compressor Y  
 Other \_\_\_\_\_

Decontamination Zone:

Detergent Wash Y Alconox  
 Potable H<sub>2</sub>O Y  
 Methanol Y  
 Distilled Water Y  
 Plastic Cover Y  
 Other steam clean

**DESCRIPTION OF WORK COMPLETED**

0820 - 0850 → decontamination of bulldozer

0850 - 1240 → development of GW-6 monitoring well.  
 - pH, Temperature, and conductivity are checked and eventually water shows no further improvements in quality with time.  
 - air surge method.

0845 - 0850 → Full TCL water sample taken from drill-rig.  
 VOA - 2.40ml ; BNA - 1 amber ; PEST/PCB - 1 amber ; CN - NaOH plastic  
 HSL metals - HNO<sub>3</sub> plastic.

0930 - 1230 + 1300 - 1400 → drilling and installation of GW-5 monitoring well.  
 - 10 split spoons (8 of them are continuous)  
 - drilled to 25.4'  
 - depth of well - 24.5' with 10.0' screen.

1135 → Full TCL taken from waste spill on ground surface  
 - sample called: W-3.  
 - sample location 10' south of GW-5 spill GW-5

1435 → Pictures taken of GW-5 and waste spill 3rd roll Frames 5.+6.

1435 - 1525 → decontamination of drill rig and equipment

1300 - 1505 → development of GW-7, air surge method, monitored with conductivity/  
 pH and Temperature device

1550 - 1630 → drilling at GW-2 location.

**SPECIAL COMMENTS**

- 3 split spoons (none continuous)  
 - drilled to bedrock at 11.2'.

Approvals

[Signature]  
 Gen. P. Popli, P. E.

[Signature]  
 Driller  
[Signature]  
 NYSDEC

8/24

OM P. POPLI, P. E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date Friday 8/25/89 NYSDEC ID# 828021  
 Site Name Golden Road Disposal Site Site No. YN4020  
 Work Start 0730 — Lunch 1200-1230 Finish 1700  
 Weather Conditions sunny 75°

**Personnel On Site:**

|                      |                                  |                       |
|----------------------|----------------------------------|-----------------------|
| <b><u>NYSDEC</u></b> | <b><u>Om P. Popli, P. E.</u></b> | <b><u>Driller</u></b> |
| <u>Mike Ryan</u>     | <u>S. Campbell</u>               | <u>Joe Jensen</u>     |
|                      | <u>J. Danzinger</u>              | <u>Ron Brown</u>      |

**Personnel Safety Equipment:**

**Om P. Popli, P. E.**

**Driller**

|                        |          |          |
|------------------------|----------|----------|
| Level of Protection    | <u>D</u> | <u>D</u> |
| # of Tyveks            | <u>—</u> | <u>2</u> |
| # of Tyvek Booties     | <u>—</u> | <u>—</u> |
| # of Disposable Gloves | <u>—</u> | <u>—</u> |

**Environmental Equipment On Site:**

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u>   | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-------------|-----------------------------------|
| HNu Meter             | <u>901394</u>       | <u>N</u>          | <u>—</u>           | <u>—</u>    | <u>—</u>                          |
| Explosimeter          | <u>C2537</u>        | <u>N</u>          | <u>—</u>           | <u>—</u>    | <u>—</u>                          |
| Monitox (HCN)         | <u>035863</u>       | <u>N</u>          | <u>—</u>           | <u>—</u>    | <u>—</u>                          |
| Mini-Rad              | <u>20655</u>        | <u>N</u>          | <u>—</u>           | <u>—</u>    | <u>—</u>                          |
| pH Meter              |                     | <u>Y</u>          | <u>8/25/89</u>     | <u>S.L.</u> | <u>NA</u>                         |
| Nephelometer          |                     | <u>N</u>          |                    |             | <u>NA</u>                         |
| Camera                | <u>30302174</u>     | <u>N</u>          | <u>NA</u>          | <u>NA</u>   | <u>NA</u>                         |
| Water Level Indicator |                     | <u>N</u>          | <u>NA</u>          | <u>NA</u>   | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954 0004</u> |                   | <u>NA</u>          | <u>NA</u>   | <u>NA</u>                         |
|                       | <u>NH-6950 0003</u> |                   | <u>NA</u>          | <u>NA</u>   | <u>NA</u>                         |

\*If meter readings exceeded background, see reverse side for Comments.



Equipment On Site:

Drill Rig Type Y Acker  
 Water Tanker Y  
 Steam Jenny Y  
 Bulldozer N  
 Air Compressor Y  
 Other \_\_\_\_\_

Decontamination Zone:

Detergent Wash N  
 Potable H<sub>2</sub>O N  
 Methanol N  
 Distilled Water Y  
 Plastic Cover Y  
 Other Steam clean

**DESCRIPTION OF WORK COMPLETED**

0755-1030 → development of GW-1 monitoring well  
 - air surge method  
 - checked for water quality using conductivity, temperature, and pH meter.


0845-0945 → installation of monitoring well at GW-2  
 - 5.0' screen  
 - sand 1.0' above screen  
 - depth of well at 11.0'  
 - 1.0' of bentonite pellets above sand

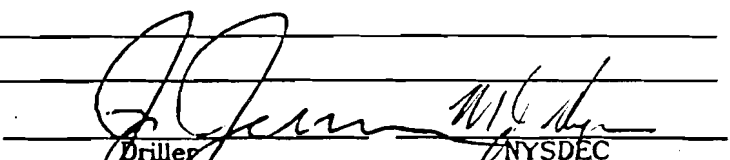
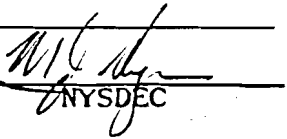
<sup>1045</sup> 1015 - decontamination of drill-rig and equipment.

1150-1350 → development of GW-5 monitoring well  
 - air surge method

**SPECIAL COMMENTS**

Approvals

  
 P. Popli, P.E.

  
 Driller   
 NYSDEC

I-44

8/25

OM P. POPLI, P. E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date 10/3/89 NYSDEC ID# 89034-05  
Site Name Golden Road Site No. YN4020-AEO2  
Work Start 0800 Lunch - Finish 1200  
Weather Conditions Cloudy, slight rain, breezy

Personnel On Site:

| <u>NYSDEC</u> | <u>Om P. Popli, P. E.</u> | <u>Driller</u> |
|---------------|---------------------------|----------------|
| <u>-</u>      | <u>J. Danziger</u>        | <u>-</u>       |
| <u>-</u>      | <u>S. Campbell</u>        | <u>-</u>       |
| <u>-</u>      | <u>-</u>                  | <u>-</u>       |

Personnel Safety Equipment:

Om P. Popli, P. E.

Driller

|                        | <u>Om P. Popli, P. E.</u> | <u>Driller</u> |
|------------------------|---------------------------|----------------|
| Level of Protection    | <u>D</u>                  | <u>-</u>       |
| # of Tyveks            | <u>-</u>                  | <u>-</u>       |
| # of Tyvek Booties     | <u>-</u>                  | <u>-</u>       |
| # of Disposable Gloves | <u>-</u>                  | <u>-</u>       |
|                        | <u>-</u>                  | <u>-</u>       |
|                        | <u>-</u>                  | <u>-</u>       |

Environmental Equipment On Site:

|                       | <u>Meter #</u> | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|----------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | 901394         | <u>Y</u>          | <u>10/3</u>        | <u>SC</u> | <u>-</u>                          |
| Explosimeter          | C2537          | <u>N</u>          | <u>-</u>           | <u>-</u>  | <u>-</u>                          |
| Monitox (HCN)         | 035863         | <u>N</u>          | <u>-</u>           | <u>-</u>  | <u>-</u>                          |
| Mini-Rad              | 20655          | <u>N</u>          | <u>-</u>           | <u>-</u>  | <u>-</u>                          |
| pH Meter              |                | <u>Y</u>          | <u>-</u>           | <u>-</u>  | <u>NA</u>                         |
| Nephelometer          |                | <u>Y</u>          | <u>-</u>           | <u>-</u>  | <u>NA</u>                         |
| Camera                | 30302174       | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Level Indicator |                | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge             | SC-6954 0004   | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | NH-6950 0003   | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\*If meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

Drill Rig Type \_\_\_\_\_ /  
 Water Tanker \_\_\_\_\_ /  
 Steam Jenny \_\_\_\_\_ /  
 Bulldozer \_\_\_\_\_ /  
 Air Compressor \_\_\_\_\_ /  
 Other \_\_\_\_\_

**Decontamination Zone:**

Detergent Wash \_\_\_\_\_ /  
 Potable H<sub>2</sub>O \_\_\_\_\_ /  
 Methanol \_\_\_\_\_ /  
 Distilled Water \_\_\_\_\_ /  
 Plastic Cover \_\_\_\_\_ /  
 Other \_\_\_\_\_ /  
 \_\_\_\_\_

**DESCRIPTION OF WORK COMPLETED**

- all wells were marked appropriately for identification
- Soil & waste pile sampling locations were also marked
- Leachate sampling location was marked
- Surface water sampling locations were located for future sampling visits.
- Well aprons were redone as appropriate where grout settling had occurred.

**SPECIAL COMMENTS**

Approvals

*J. Campbell*  
 Om P. Popli, P. E.

Driller

NYSDEC

10/3/89

Summary  
Equipment Use

OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date TUESDAY 11/9/90-11/10/90 NYSDEC ID# 828021

Site Name GOLDEN RD. DIESEL SITE Site No. 114050 (DEC)

Work Start \_\_\_\_\_ Lunch \_\_\_\_\_ Finish \_\_\_\_\_

Weather Conditions \_\_\_\_\_

Personnel On Site:

| <u>NYSDEC</u> | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|---------------|--------------------------|----------------|
| _____         | _____                    | _____          |
| _____         | _____                    | _____          |
| _____         | _____                    | _____          |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    | _____                    | _____          |
| # of Tyveks            | _____                    | _____          |
| # of Tyvek Booties     | _____                    | _____          |
| # of Disposable Gloves | _____                    | _____          |
|                        | _____                    | _____          |
|                        | _____                    | _____          |

Environmental Equipment On Site:

|                       | <u>Meter #</u> | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|----------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | 901394         |                   |                    |           |                                   |
| Explosimeter          | C2537          |                   |                    |           |                                   |
| Monitox (HCN)         | 035863         |                   |                    |           |                                   |
| Mini-Rad              | 20655          |                   |                    |           |                                   |
| pH Meter              |                |                   |                    |           | NA                                |
| Nephelometer          |                |                   |                    |           | NA                                |
| Camera                | 30302174       | 0                 | NA                 | NA        | NA                                |
| Water Level Indicator | 6154V0002      |                   | NA                 | NA        | NA                                |
| TLD Badge             | SC-6954-0004   | 2                 | NA                 | NA        | NA                                |
|                       | NH-6950 0003   | _____             | NA                 | NA        | NA                                |

\* If Meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

|                       |       |
|-----------------------|-------|
| <b>Drill Rig Type</b> | _____ |
| <b>Water Tanker</b>   | _____ |
| <b>Steam Jenny</b>    | _____ |
| <b>Bulldozer</b>      | _____ |
| <b>Air Compressor</b> | _____ |
| <b>Other</b>          | _____ |

**Decontamination Zone:**

|                        |       |
|------------------------|-------|
| <b>Detergent Wash</b>  | _____ |
| <b>Potable H2O</b>     | _____ |
| <b>Methanol</b>        | _____ |
| <b>Distilled Water</b> | _____ |
| <b>Plastic Cover</b>   | _____ |
| <b>Other</b>           | _____ |

**DESCRIPTION OF WORK COMPLETED**

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**SPECIAL COMMENTS**

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|                  |                          |                |               |
|------------------|--------------------------|----------------|---------------|
| <b>Approvals</b> | _____                    | _____          | _____         |
|                  | <b>Om P. Popll, P.E.</b> | <b>Driller</b> | <b>NYSDEC</b> |

OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date TUESDAY 11/9/90 NYSDEC ID# 93021  
 Site Name GOLDEN RD. DISPOSAL SITE Site No. YN4450 (AEOZ)  
 Work Start 9:30 AM Lunch 12:00-1:00 Finish 5:30 PM  
 Weather Conditions OVERCAST, 35°F

Personnel On Site:

| <u>NYSDEC</u>   | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u>      |
|-----------------|--------------------------|---------------------|
| <u>BOB LONG</u> | <u>S. CAMPBELL</u>       | <u>JOE JENSEN</u>   |
| _____           | <u>P. WILFEL</u>         | <u>DAVID EFAUCH</u> |
| _____           | _____                    | _____               |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    | <u>D</u>                 | <u>D</u>       |
| # of Tyveks            | <u>4</u>                 | <u>4</u>       |
| # of Tyvek Booties     | <u>—</u>                 | <u>—</u>       |
| # of Disposable Gloves | <u>5 Pairs</u>           | _____          |
| _____                  | _____                    | _____          |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | <u>901394</u>       | <u>Y</u>          | <u>11/9/90</u>     | <u>RV</u> | <u>NONE</u>                       |
| Explosimeter          | <u>C2537</u>        | <u>Y</u>          | <u>11/9/90</u>     | <u> </u>  | <u> </u>                          |
| Monitox (HCN)         | <u>035863</u>       | <u>Y</u>          | <u>11/9/90</u>     | <u> </u>  | <u> </u>                          |
| Mini-Rad              | <u>20655</u>        | <u>Y</u>          | <u>11/9/90</u>     | <u>RV</u> | <u>NONE</u>                       |
| pH Meter              |                     | <u>N</u>          | <u> </u>           | <u> </u>  | <u>NA</u>                         |
| Nephelometer          |                     | <u>N</u>          | <u> </u>           | <u> </u>  | <u>NA</u>                         |
| Camera                | <u>30302174</u>     | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Level Indicator | <u>6954V0002</u>    | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954-0004</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>NH-6950 0003</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\* If Meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

Drill Rig Type \_\_\_\_\_  
 Water Tanker Y  
 Steam Jenny N  
 Bulldozer N  
 Air Compressor N  
 Other \_\_\_\_\_

**Decontamination Zone:**

Detergent Wash Y  
 Potable H2O Y  
 Methanol Y  
 Distilled Water Y  
 Plastic Cover Y  
 Other \_\_\_\_\_

**DESCRIPTION OF WORK COMPLETED**

930 - 1200 - DRILLING TO 18.5' (BEDROCK) AT GW-3

100 - 200 - INSTALLATION OF MONITORING WELL AT GW-3

200 - 230 - DECON DRILL RIG PRIOR TO USE ON GW-4

230 - 530 - DRILLING TO 21.1' (BEDROCK) AT GW-4  
- INSTALLATION OF MONITORING WELL AT GW-4

SEE DRILL LOGS FOR MORE INFORMATION

**SPECIAL COMMENTS**

APPROX. 9 TREES 2"-6" & 6 TREES 2" & UNDER WERE CUT DOWN AT GW-3 LOCATION  
SO AS TO GET DRILL RIG OFF THE EXPRESSION  
ALL EQUIP. WAS THOROUGHLY CLEANED THE PREVIOUS DAY / ENOUGH EQUIP. FOR BOTH WELLS

Approvals Janita Vandriel \_\_\_\_\_ Driller \_\_\_\_\_ NYSDEC \_\_\_\_\_  
 Om P. Popil, P.E.

OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date TUESDAY 11/9/90 NYSDEC ID# 822021  
 Site Name GOLDEN RD. DISPOSAL SITE Site No. Y14020 (1E02)  
 Work Start 9:30 AM Lunch 12:00 - 1:00 Finish 5:30 PM  
 Weather Conditions OVERCAST 35°F

Personnel On Site:

| <u>NYSDEC</u>   | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u>      |
|-----------------|--------------------------|---------------------|
| <u>BSP LONG</u> | <u>S. CAMPBELL</u>       | <u>JOE JENSEN</u>   |
|                 | <u>P. VANCELL</u>        | <u>DAVID BRAUCH</u> |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    | <u>0</u>                 | <u>0</u>       |
| # of Tyveks            | <u>4</u>                 | <u>4</u>       |
| # of Tyvek Booties     | <u>-</u>                 | <u>-</u>       |
| # of Disposable Gloves | <u>5 PRA.</u>            |                |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | <u>901394</u>       | <u>Y</u>          | <u>11/9/90</u>     | <u>TV</u> | <u>NONE</u>                       |
| Explosimeter          | <u>C2537</u>        | <u>Y</u>          | <u>11/9/90</u>     | <u> </u>  | <u> </u>                          |
| Monitox (HCN)         | <u>035863</u>       | <u>Y</u>          | <u>11/9/90</u>     | <u> </u>  | <u> </u>                          |
| Mini-Rad              | <u>20655</u>        | <u>Y</u>          | <u>11/9/90</u>     | <u>TV</u> | <u>NONE</u>                       |
| pH Meter              |                     | <u>N</u>          | <u> </u>           | <u> </u>  | <u>NA</u>                         |
| Nephelometer          |                     | <u>N</u>          | <u> </u>           | <u> </u>  | <u>NA</u>                         |
| Camera                | <u>30302174</u>     | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Level Indicator |                     | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954-0004</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>NH-6950 0003</u> |                   | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\* If Meter readings exceeded background, see reverse side for Comments.



**Equipment On Site:**

|                |         |
|----------------|---------|
| Drill Rig Type | _____   |
| Water Tanker   | Y _____ |
| Steam Jenny    | N _____ |
| Bulldozer      | N _____ |
| Air Compressor | N _____ |
| Other          | _____   |

**Decontamination Zone:**

|                 |         |
|-----------------|---------|
| Detergent Wash  | Y _____ |
| Potable H2O     | Y _____ |
| Methanol        | Y _____ |
| Distilled Water | Y _____ |
| Plastic Cover   | Y _____ |
| Other           | _____   |

**DESCRIPTION OF WORK COMPLETED**

930 - 1200 - DRILLING TO 18.5' (BEDROCK) AT GW-3

100 - 230 - INSTALLATION OF MONITORING WELL AT GW-3

230 - 300 - DECON DRILL RIG PRIOR TO USE ON GW-4

300 - 530 - DRILLING TO 21.1' (BEDROCK) AT GW-4  
- INSTALLATION OF MONITORING WELL AT GW-4

SEE DRILL LOGS FOR MORE INFORMATION

**SPECIAL COMMENTS**

APPROX. 9 TREES 2"-6" & 6 TREES 2" & UNDER WERE CUT DOWN AT GW-3 LOCATION!

SO AS TO GET DRILL RIG OFF THE EXPEDITION

ALL EQUIP. WAS STEAMED CLEANED THE PREVIOUS DAY / ENOUGH EQUIP. FOR BOTH WELLS

Approvals Janella Indrzej  
Om P. Popll, P.E.

Driller

NYSDEC

OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date WEDNESDAY 11/10/90 NYSDEC ID# 828021  
 Site Name GOLFEN RD. DISPOSAL SITE Site No. YN4020 (AE02)  
 Work Start 8:30 AM Lunch 12:00 - 12:30 Finish 5:00 PM  
 Weather Conditions RAIN, 37°F

Personnel On Site:

|               |                          |                     |
|---------------|--------------------------|---------------------|
| <u>NYSDEC</u> | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u>      |
| _____         | <u>P. VANDEP</u>         | <u>JOE JENSEN</u>   |
| _____         | _____                    | <u>DAVID BRAUCH</u> |
| _____         | _____                    | _____               |

Personnel Safety Equipment:

|                        |                          |                |
|------------------------|--------------------------|----------------|
|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
| Level of Protection    | <u>D</u>                 | <u>D</u>       |
| # of Tyveks            |                          |                |
| # of Tyvek Booties     |                          |                |
| # of Disposable Gloves |                          |                |
|                        |                          |                |

Environmental Equipment On Site:

|                       | Meter #             | Used Today | Calib. Date     | By        | Readings Above Background* |
|-----------------------|---------------------|------------|-----------------|-----------|----------------------------|
| HNu Meter             | 901394              | <u>N</u>   |                 |           |                            |
| Explosimeter          | C2537               | <u>N</u>   |                 |           |                            |
| Monitox (HCN)         | 035863              | <u>N</u>   |                 |           |                            |
| Mini-Rad              | 20655               | <u>N</u>   |                 |           |                            |
| pH Meter              |                     | <u>N</u>   |                 |           | <u>NA</u>                  |
| Nephelometer          |                     | <u>Y</u>   | <u>11/10/89</u> | <u>PV</u> | <u>NA</u>                  |
| Camera                | 30302174            | <u>N</u>   | <u>NA</u>       | <u>NA</u> | <u>NA</u>                  |
| Water Level Indicator | <u>6254V 0002</u>   | <u>Y</u>   | <u>NA</u>       | <u>NA</u> | <u>NA</u>                  |
| TLD Badge             | <u>SC-6954-0004</u> | <u>Y</u>   | <u>NA</u>       | <u>NA</u> | <u>NA</u>                  |
|                       | <u>NH-6950 0003</u> | <u>N</u>   | <u>NA</u>       | <u>NA</u> | <u>NA</u>                  |

\* If Meter readings exceeded background, see reverse side for Comments.

Equipment On Site:

Drill Rig Type ✓  
Water Tanker ✓  
Steam Jenny ✓  
Bulldozer ✓  
Air Compressor Y  
Other \_\_\_\_\_

Decontamination Zone:

Detergent Wash ✓  
Potable H2O ✓  
Methanol ✓  
Distilled Water ✓  
Plastic Cover ✓  
Other \_\_\_\_\_

**DESCRIPTION OF WORK COMPLETED**

8:30 - 10:45 WAIT FOR ARRIVAL OF DRILLERS TO GET ON SITE  
CHECK OUT AREA TO BE SURE AREA WAS CLEANED PROPERLY  
OF DEBRIS.

11:10 - 1:10 DEVELOPMENT OF GUD-3 MONITORING WELL - AIR SURGE METHOD  
WATER DID NOT CLEAR UP DURING DEVELOPMENT SO LEFT A  
FULL 2 HOURS

1:23 - 2:30 WAIT 1 HR BEFORE DEVELOPMENT OF GUD-4 CAN BEGIN

2:30 - 4:30 DEVELOPMENT OF GUD-4 MONITORING WELL - AIR SURGE METHOD  
FULL 2 HRS.

3:20 - 3:45 BOB LONG STOPS BY SITE

4:16 - 5:00 DRILL HOLES INTO THE METAL WELL CASINGS FOR DRAINAGE

**SPECIAL COMMENTS**

S. CAMPBELL GAVE OK TO DEVELOP THE WELLS

Approvals    \_\_\_\_\_  
Jamela Vandorci    Driller    NYSDEC  
Om P. Popli, P.E.

OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date MONDAY 1/22/90 NYSDEC ID# 828021

Site Name GOLDEN ROAD DIAPYCNL SITE Site No. YN4020 (AF02)

Work Start 7:30 am Lunch --- Finish 2:30 pm

Weather Conditions \_\_\_\_\_

Personnel On Site:

| <u>NYSDEC</u> | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|---------------|--------------------------|----------------|
| _____         | <u>P. VINCIGUERRA</u>    | _____          |
| _____         | _____                    | _____          |
| _____         | _____                    | _____          |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    | _____                    | _____          |
| # of Tyveks            | _____                    | _____          |
| # of Tyvek Booties     | _____                    | _____          |
| # of Disposable Gloves | _____                    | _____          |
|                        | _____                    | _____          |
|                        | _____                    | _____          |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | <u>901394</u>       | _____             | _____              | _____     | _____                             |
| Explosimeter          | <u>C2537</u>        | _____             | _____              | _____     | _____                             |
| Monitox (HCN)         | <u>035863</u>       | _____             | _____              | _____     | _____                             |
| Mini-Rad              | <u>20655</u>        | _____             | _____              | _____     | _____                             |
| pH Meter              |                     | _____             | _____              | _____     | <u>NA</u>                         |
| Nephelometer          |                     | _____             | _____              | _____     | <u>NA</u>                         |
| Camera                | <u>30302174</u>     | _____             | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Level Indicator |                     | _____             | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954 0004</u> | _____             | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>NH-6950 0003</u> | _____             | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\* If Meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

|                |       |
|----------------|-------|
| Drill Rig Type | _____ |
| Water Tanker   | _____ |
| Steam Jenny    | _____ |
| Bulldozer      | _____ |
| Air Compressor | _____ |
| Other          | _____ |

**Decontamination Zone:**

|                 |       |
|-----------------|-------|
| Detergent Wash  | _____ |
| Potable H2O     | _____ |
| Methanol        | _____ |
| Distilled Water | _____ |
| Plastic Cover   | _____ |
| Other           | _____ |

**DESCRIPTION OF WORK COMPLETED**

1 HR. TO PICK UP NALGENE DISPOSABLE FILTERS FROM CASIX

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

**SPECIAL COMMENTS**

\_\_\_\_\_

\_\_\_\_\_

Approvals Amelia Vantucci \_\_\_\_\_ Driller \_\_\_\_\_ NYSDEC \_\_\_\_\_  
 Om P. Popli, P.E.

OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date FRIDAY 2/2/90 NYSDEC ID# 828021  
Site Name GOLDEN ROAD DISPOSAL SITE Site No. YN4020 (AE02)  
Work Start 7:30 AM Lunch 12:00 - 12:30 Finish 4:00 PM

Weather Conditions \_\_\_\_\_

Personnel On Site:

| <u>NYSDEC</u> | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|---------------|--------------------------|----------------|
| _____         | <u>POPLI</u>             | _____          |
| _____         | _____                    | _____          |
| _____         | _____                    | _____          |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    | _____                    | _____          |
| # of Tyveks            | _____                    | _____          |
| # of Tyvek Booties     | _____                    | _____          |
| # of Disposable Gloves | _____                    | _____          |
| _____                  | _____                    | _____          |
| _____                  | _____                    | _____          |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | <u>901394</u>       | _____             | _____              | _____     | _____                             |
| Explosimeter          | <u>C2537</u>        | _____             | _____              | _____     | _____                             |
| Monitox (HCN)         | <u>035863</u>       | _____             | _____              | _____     | _____                             |
| Mini-Rad              | <u>20655</u>        | _____             | _____              | _____     | _____                             |
| pH Meter              | _____               | _____             | _____              | _____     | <u>NA</u>                         |
| Nephelometer          | _____               | _____             | _____              | _____     | <u>NA</u>                         |
| Camera                | <u>30302174</u>     | _____             | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Level Indicator | _____               | _____             | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954 0004</u> | _____             | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>NH-6950 0003</u> | _____             | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\* If Meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

Drill Rig Type \_\_\_\_\_  
Water Tanker \_\_\_\_\_  
Steam Jenny \_\_\_\_\_  
Bulldozer \_\_\_\_\_  
Air Compressor \_\_\_\_\_  
Other \_\_\_\_\_

**Decontamination Zone:**

Detergent Wash \_\_\_\_\_  
Potable H2O \_\_\_\_\_  
Methanol \_\_\_\_\_  
Distilled Water \_\_\_\_\_  
Plastic Cover \_\_\_\_\_  
Other \_\_\_\_\_

**DESCRIPTION OF WORK COMPLETED**

PREPARE FOR SHUTDLING OF GOLDEN RID. SITE  
SHOP FOR SUPPLIES & LOADS THE VAN.

**SPECIAL COMMENTS**

Approvals

Janet Vandse  
Om P. Popll, P.E.

Driller

NYSDEC

Summary  
EQUIPMENT USE

OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date 2/6/90-2/9/90 & 2/12/90 5 DAYS NYSDEC ID# 828021

Site Name GOLDEN ROAD DISPOSAL SITE Site No. V14KEO (AE02)

Work Start \_\_\_\_\_ Lunch \_\_\_\_\_ Finish \_\_\_\_\_

Weather Conditions \_\_\_\_\_

Personnel On Site:

| <u>NYSDEC</u> | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|---------------|--------------------------|----------------|
| _____         | _____                    | _____          |
| _____         | _____                    | _____          |
| _____         | _____                    | _____          |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    | _____                    | _____          |
| # of Tyveks            | _____                    | _____          |
| # of Tyvek Booties     | _____                    | _____          |
| # of Disposable Gloves | _____                    | _____          |
|                        | _____                    | _____          |
|                        | _____                    | _____          |

Environmental Equipment On Site:

|                       | <u>Meter #</u> | <u>Used Today</u> | <u>Callb. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|----------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | 901394         | <u>5 DAYS</u>     | _____              | _____     | _____                             |
| Explosimeter          | C2537          | <u>0</u>          | _____              | _____     | _____                             |
| Monitox (HCN)         | 035863         | <u>0</u>          | _____              | _____     | _____                             |
| Mini-Rad              | 20655          | <u>0</u>          | _____              | _____     | _____                             |
| pH Meter              |                | <u>2 DAYS</u>     | _____              | _____     | <u>NA</u>                         |
| Nephelometer          |                | <u>2 DAYS</u>     | _____              | _____     | <u>NA</u>                         |
| Camera                | 30302174       | <u>0</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Level Indicator |                | <u>2 DAYS</u>     | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge SC-6954     | 0004           | <u>5 DAYS</u>     | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | NH-6950        | <u>5 DAYS</u>     | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\* If Meter readings exceeded background, see reverse side for Comments.



OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date TUESDAY 2/6/90 NYSDEC ID# 828021  
 Site Name GOLLEN RD. DISPOSAL SITE Site No. VA4020 (DE02)  
 Work Start 840 AM Lunch 1230-1000 PM Finish 530 PM  
 Weather Conditions SUNNY, 35°SF

Personnel On Site:

|                 |                          |                |
|-----------------|--------------------------|----------------|
| <u>NYSDEC</u>   | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
| <u>BOB LONG</u> | <u>B. MERRITT</u>        | <u>/</u>       |
| <u>_____</u>    | <u>P. VANDEP</u>         | <u>_____</u>   |
| <u>_____</u>    | <u>_____</u>             | <u>_____</u>   |

Personnel Safety Equipment:

|                               |                |                |
|-------------------------------|----------------|----------------|
| <u>Level of Protection</u>    | <u>D</u>       | <u>DRILLER</u> |
| <u># of Tyveks</u>            | <u>2</u>       | <u>/</u>       |
| <u># of Tyvek Booties</u>     | <u>—</u>       | <u>/</u>       |
| <u># of Disposable Gloves</u> | <u>10 PRS.</u> | <u>/</u>       |
| <u>_____</u>                  | <u>_____</u>   | <u>_____</u>   |
| <u>_____</u>                  | <u>_____</u>   | <u>_____</u>   |

Environmental Equipment On Site:

|                       | Meter #             | Used Today | Calib. Date   | By        | Readings Above Background* |
|-----------------------|---------------------|------------|---------------|-----------|----------------------------|
| HNu Meter             | 901394              | <u>Y</u>   | <u>2/6/90</u> | <u>TV</u> | <u>NONE</u>                |
| Explosimeter          | C2537               | <u>N</u>   | <u> </u>      | <u> </u>  | <u> </u>                   |
| Monitox (HCN)         | 035863              | <u>N</u>   | <u> </u>      | <u> </u>  | <u> </u>                   |
| Mini-Rad              | 20655               | <u>N</u>   | <u> </u>      | <u> </u>  | <u> </u>                   |
| pH Meter              |                     | <u>Y</u>   | <u>2/6/90</u> | <u>TV</u> | <u>NA</u>                  |
| Nephelometer          |                     | <u>Y</u>   | <u>2/6/90</u> | <u>TV</u> | <u>NA</u>                  |
| Camera                | 30302174            | <u>N</u>   | <u>NA</u>     | <u>NA</u> | <u>NA</u>                  |
| Water Level Indicator | <u>6954V0001</u>    | <u>Y</u>   | <u>NA</u>     | <u>NA</u> | <u>NA</u>                  |
| TLD Badge             | <u>SC-6954-0004</u> | <u>Y</u>   | <u>NA</u>     | <u>NA</u> | <u>NA</u>                  |
|                       | <u>6954V0002</u>    | <u>Y</u>   | <u>NA</u>     | <u>NA</u> | <u>NA</u>                  |
|                       | <u>NH-6950-0003</u> | <u>Y</u>   | <u>NA</u>     | <u>NA</u> | <u>NA</u>                  |

\* If Meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

|                |  |
|----------------|--|
| Drill Rig Type |  |
| Water Tanker   |  |
| Steam Jenny    |  |
| Bulldozer      |  |
| Air Compressor |  |
| Other          |  |

**Decontamination Zone:**

|                 |   |
|-----------------|---|
| Detergent Wash  | ✓ |
| Potable H2O     | ✓ |
| Methanol        | ✓ |
| Distilled Water | ✓ |
| Plastic Cover   |   |
| Other           |   |

**DESCRIPTION OF WORK COMPLETED**

940-1100 MEET WITH S. CHAMBERLAIN ON SITE - NOTIFY OWNER OF PROPERTY THAT WE WILL BE WORKING ON SITE THIS WEEK - STAKE OUT SAMPLE LOCATION AREAS

1115-1140 SET UP AT EW-7 & DECON SAMPLING EQUIP. HAND READING TAKEN DOWNHOLE WATER LEVEL MEASUREMENT TAKEN - PURGE 3<sup>+</sup> WELL VOLUMES (PH, TEMP, CONDUCTIVITY) & TURBIDITY READINGS ARE TAKEN

1145-1215 SET UP AT BW-6 & DECON SAMPLING EQUIP. HAND READING TAKEN DOWNHOLE WATER LEVEL MEASUREMENT TAKEN - PURGE 3<sup>+</sup> WELL VOLUMES (PH, TEMP, CONDUCTIVITY) & TURBIDITY READINGS ARE TAKEN

120-150 SET OUT TO FIND REASONABLE AREA TO SAMPLE SW-12 (LOCATED NEAR COW PASTURE & ACCUMULATES ALOT OF RUNOFF FROM PASTURE) SET UP & COLLECT SAMPLE

150-215 SET UP AT SW-15 & COLLECT SAMPLE

220-230 SET UP AT SW-14 & COLLECT SAMPLE

235-245 SET UP AT GW-6 & COLLECT SAMPLE

250-305 SET UP AT GW-7 & COLLECT SAMPLE

315-400 CREW LEAVES SITE TO GET ICE & HEADS BACK TO OFFICE

400-530 CREW LABELS & PACKS SAMPLES IN ICE IN COOLERS

**SPECIAL COMMENTS**

NYSDEC - BOB LONG SAYS TO DISREGARD SAMPLE LOCATION SW-13 - NO SURFACE WATER IN THIS AREA & DOESN'T EVER APPEAR TO BE ANY THERE. SOIL SAMPLES ALREADY COLLECTED IN THIS AREA \* SEE SAMPLING LOGS FOR ADDITIONAL INFORMATION

Approvals Janella Vandorli  
Om P. Popil, P.E.

Driller

NYSDEC

OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date WEDNESDAY 2/7/90 NYSDEC ID# 828021  
 Site Name GOLDEN RD. DISPOSAL SITE Site No. YN4020 (LECC)  
 Work Start 8:40 AM Lunch 12:30 - 1:00 Finish 3:25 PM  
 Weather Conditions OVERCAST, 44° F

Personnel On Site:

| <u>NYSDEC</u>   | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|-----------------|--------------------------|----------------|
| <u>BOB LONG</u> | <u>B. MERRITT</u>        |                |
|                 | <u>P. VILFEL</u>         |                |
|                 |                          |                |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    | <u>D</u>                 |                |
| # of Tyveks            | <u>4</u>                 |                |
| # of Tyvek Booties     | <u>—</u>                 |                |
| # of Disposable Gloves | <u>20 PPS</u>            |                |
|                        |                          |                |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | <u>901394</u>       | <u>Y</u>          | <u>2/7/90</u>      | <u>PI</u> | <u>NONE</u>                       |
| Explosimeter          | <u>C2537</u>        | <u>N</u>          |                    |           |                                   |
| Monitox (HCN)         | <u>035863</u>       | <u>N</u>          |                    |           |                                   |
| Mini-Rad              | <u>20655</u>        | <u>N</u>          |                    |           |                                   |
| pH Meter              |                     | <u>Y</u>          | <u>2/7/90</u>      | <u>PI</u> | <u>NA</u>                         |
| Nephelometer          |                     | <u>Y</u>          | <u>2/7/90</u>      | <u>PI</u> | <u>NA</u>                         |
| Camera                | <u>30302174</u>     | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Level Indicator | <u>WESHV0001</u>    | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954-0004</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>WESHV0002</u>    | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>NH-6950-0003</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\* If Meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

|                |       |
|----------------|-------|
| Drill Rig Type | _____ |
| Water Tanker   | _____ |
| Steam Jenny    | _____ |
| Bulldozer      | _____ |
| Air Compressor | _____ |
| Other          | _____ |

**Decontamination Zone:**

|                 |       |
|-----------------|-------|
| Detergent Wash  | _____ |
| Potable H2O     | _____ |
| Methanol        | _____ |
| Distilled Water | _____ |
| Plastic Cover   | _____ |
| Other           | _____ |

**DESCRIPTION OF WORK COMPLETED**

840-1010 - SET UP AT GW-1 & DECON SAMPLING EQUIP. - HAND READING TAKEN DOWNHOLE  
 MEASURE WATER LEVEL IN PVC CASING - PURGE WELL OF 3+ WELL VOLUMES (PH, TEMP, CONDUCTIVITY)  
 & TURBIDITY READINGS ARE TAKEN - SAMPLES ARE THEN COLLECTED FROM GW-1

1020-1105 SET UP AT GW-5 & DECON SAMPLING EQUIP. - HAND READING TAKEN DOWNHOLE - MEASURE  
 WATER LEVEL IN PVC CASING - PURGE WELL OF 3+ WELL VOLUMES (PH, TEMP, CONDUCTIVITY & TURBIDITY READINGS)

1110-1120 SET UP AT GW-2 & DECON SAMPLING EQUIP. - HAND READING TAKEN DOWNHOLE, WATER  
 LEVEL MEASUREMENT TAKEN - PURGE WELL OF 3+ WELL VOLUMES (PH, TEMP, CONDUCTIVITY &  
 TURBIDITY READINGS ARE TAKEN)

1135-1145 - SET UP AT GW-3 & DECON SAMPLING EQUIP. - HAND READING TAKEN DOWNHOLE  
 WATER LEVEL MEASUREMENT TAKEN - PURGE WELL OF 3+ WELL VOLUMES (PH, TEMP, COND. & TURBIDITY)

1150-1205 SET UP AT GW-4 - HAND READING TAKEN DOWNHOLE, MEASURE WATER LEVEL - PURGE  
 WELL OF 3+ WELL VOLUMES (PH, TEMP, CONDUCTIVITY & TURBIDITY READINGS ARE TAKEN)

1110-135 - SET UP AT GW-5 & COLLECT SAMPLE / LABEL & PACK IN COOLER

150-215 - SET UP AT GW-2 & COLLECT SAMPLE " " " " "

225-250 - SET UP AT GW-3 & COLLECT SAMPLE " " " " "

305-320 - SET UP AT GW-4 & COLLECT SAMPLE / LABEL & PACK IN COOLER

325 - CREW LEAVES SITE FOR THE DAY TO PICK UP ICE  
 WORK OFF SITE FOR 2 HRS FILLING OUT LABELS FOR UNKNOWN SAMPLES

**SPECIAL COMMENTS**

X SEE SAMPLING LOGS FOR ADDITIONAL INFORMATION

Approvals

Janet A. Vancil  
 Om P. Popil, P.E.

Driller

NYSDEC

OM P. POPLI. P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date THURSDAY 2/8/90 NYSDEC ID# 822021  
 Site Name GOLDEN RD. DIGITAL SITE Site No. Y114020 (AE02)  
 Work Start 830 AM Lunch 1230-100 Finish 440 PM  
 Weather Conditions SUNNY, 45°F

Personnel On Site:

| <u>NYSDEC</u>   | <u>OM P. POPLI. P.E.</u> | <u>DRILLER</u> |
|-----------------|--------------------------|----------------|
| <u>BOB LONG</u> | <u>B. MERRITT</u>        |                |
|                 | <u>P. VANDEP</u>         |                |
|                 |                          |                |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI. P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    | <u>D</u>                 |                |
| # of Tyveks            | <u>Z</u>                 |                |
| # of Tyvek Booties     | <u>-</u>                 |                |
| # of Disposable Gloves | <u>15 PAIR</u>           |                |
|                        |                          |                |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | <u>901394</u>       | <u>Y</u>          | <u>2/8/90</u>      | <u>TV</u> | <u>NONE</u>                       |
| Explosimeter          | <u>C2537</u>        | <u>N</u>          |                    |           |                                   |
| Monitox (HCN)         | <u>035863</u>       | <u>N</u>          |                    |           |                                   |
| Mlnl-Rad              | <u>20655</u>        | <u>N</u>          |                    |           |                                   |
| pH Meter              |                     | <u>N</u>          |                    |           | <u>NA</u>                         |
| Nephelometer          |                     | <u>N</u>          |                    |           | <u>NA</u>                         |
| Camera                | <u>30302174</u>     | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Level Indicator | <u>6954V0001</u>    | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge             | <u>6E-6954-0004</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>6954V0002</u>    | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>NH-6950 0003</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\* If Meter readings exceeded background, see reverse side for Comments.

Equipment On Site:

|                |       |
|----------------|-------|
| Drill Rig Type | _____ |
| Water Tanker   | _____ |
| Steam Jenny    | _____ |
| Bulldozer      | _____ |
| Air Compressor | _____ |
| Other          | _____ |

Decontamination Zone:

|                 |       |
|-----------------|-------|
| Detergent Wash  | _____ |
| Potable H2O     | _____ |
| Methanol        | _____ |
| Distilled Water | _____ |
| Plastic Cover   | _____ |
| Other           | _____ |

**DESCRIPTION OF WORK COMPLETED**

8:30-9:15 - CREW ARRIVES ON SITE AND WAITS FOR SURVEY CREW - MAKE OUT CHAIN-OF-CUSTODY RECORDS AND SEAL UP COVERS

9:15-11:40 - DRIVE TO BUFFALO TO DELIVER SAMPLES AND PICK UP SUPPLIES FROM E&E VAN

11:40 ARRIVE BACK ON SITE - BOB LONG ARRIVES ON SITE GO OVER WORK PLAN FOR THE DAY

CLEAN UP VAN & ORGANIZE

1:00-1:20 - SET UP AT SW-10 & COLLECT SAMPLE, LABEL & PACK SAMPLES

1:25-1:45 - SET UP AT SW-9 & COLLECT SAMPLE " " "

2:00-2:15 - SET UP AT SW-1 & COLLECT SAMPLE " " "

2:30-2:55 - SET UP AT SW-8 & COLLECT SAMPLE, LABEL & PACK SAMPLES

3:00-3:15 SET UP AT L-2, WHICH IS LOCATED NEAR A DRAINAGE COURSE, BUT THERE IS NO FLOW HERE. NO APPEARANCE OF LEACHATE IN THIS AREA - COLLECT SEDIMENT ONLY

3:25-3:45 SET UP AT SW-2 & COLLECT SAMPLE, LABEL & PACK

3:55-4:05 SET UP AT SW-3 & COLLECT SAMPLE, LABEL & PACK SAMPLES

4:15-4:30 SET UP AT SW-4 & COLLECT SAMPLE, LABEL & PACK

4:40 - CREW LEAVES SITE FOR THE DAY TO GO GET ICE

WORK OFF SITE FOR 2 HRS FILLING OUT CHAIN-OF-CUSTODY RECORDS / RECORDS FOR THE FOLLOWING DAY

**SPECIAL COMMENTS**

\*SEE SAMPLING LOGS FOR ADDITIONAL INFORMATION

Approvals

*Janella Vendore*  
Om P. Popil, P.E.

Driller

NYSDEC

OM P. POPLI. P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date FRIDAY 2/9/90 NYSDEC ID# 829021  
 Site Name GOLDEN RD. DISPOSAL SITE Site No. Y114000(1802)  
 Work Start 8:45 AM Lunch 12:15-12:45 Finish 10:30 AM  
 Weather Conditions RAIN, 45°F

Personnel On Site:

|                 |                          |                |
|-----------------|--------------------------|----------------|
| <u>NYSDEC</u>   | <u>OM P. POPLI. P.E.</u> | <u>DRILLER</u> |
| <u>BOB LONG</u> | <u>B. MERRITT</u>        | <u>/</u>       |
| _____           | <u>P. WILFEL</u>         | _____          |
| _____           | _____                    | _____          |

Personnel Safety Equipment:

|                        |                          |                |
|------------------------|--------------------------|----------------|
|                        | <u>OM P. POPLI. P.E.</u> | <u>DRILLER</u> |
| Level of Protection    | <u>D</u>                 | <u>/</u>       |
| # of Tyveks            | <u>4</u>                 | _____          |
| # of Tyvek Booties     | <u>-</u>                 | _____          |
| # of Disposable Gloves | <u>ZOPE</u>              | _____          |
| _____                  | _____                    | _____          |

Environmental Equipment On Site:

|                       | Meter #                 | Used Today | Calib. Date   | By        | Readings Above Background* |
|-----------------------|-------------------------|------------|---------------|-----------|----------------------------|
| HNu Meter             | 901394                  | <u>Y</u>   | <u>2/9/90</u> | <u>N</u>  | <u>NONE</u>                |
| Explosimeter          | C2537                   | <u>N</u>   | _____         | <u>/</u>  | _____                      |
| Monitox (HCN)         | 035863                  | <u>N</u>   | _____         | <u>/</u>  | _____                      |
| Mini-Rad              | 20655                   | <u>N</u>   | _____         | <u>/</u>  | _____                      |
| pH Meter              |                         | <u>N</u>   | _____         | <u>/</u>  | <u>NA</u>                  |
| Nephelometer          |                         | <u>N</u>   | _____         | <u>/</u>  | <u>NA</u>                  |
| Camera                | 30302174                | <u>N</u>   | <u>NA</u>     | <u>NA</u> | <u>NA</u>                  |
| Water Level Indicator |                         | <u>N</u>   | <u>NA</u>     | <u>NA</u> | <u>NA</u>                  |
| TLD Badge             | <u>6954V0001</u>        | <u>Y</u>   | <u>NA</u>     | <u>NA</u> | <u>NA</u>                  |
|                       | <del>SC-6954-0004</del> | <u>Y</u>   | <u>NA</u>     | <u>NA</u> | <u>NA</u>                  |
|                       | <u>6954V0002</u>        | <u>Y</u>   | <u>NA</u>     | <u>NA</u> | <u>NA</u>                  |
|                       | <del>NH-6950-0003</del> | <u>Y</u>   | <u>NA</u>     | <u>NA</u> | <u>NA</u>                  |

\* If Meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

|                |       |
|----------------|-------|
| Drill Rig Type | _____ |
| Water Tanker   | _____ |
| Steam Jenny    | _____ |
| Bulldozer      | _____ |
| Air Compressor | _____ |
| Other          | _____ |

**Decontamination Zone:**

|                 |       |
|-----------------|-------|
| Detergent Wash  | _____ |
| Potable H2O     | _____ |
| Methanol        | _____ |
| Distilled Water | _____ |
| Plastic Cover   | _____ |
| Other           | _____ |

**DESCRIPTION OF WORK COMPLETED**

900-920 SET UP FOR SW-5, BOB LONG ARRIVED ON SITE, COLLECT SAMPLE  
 LABEL & PACK SAMPLES

930-950 SET UP AT SW-7 & COLLECT SAMPLE, AREA SMELLS LIKE SEWAGE, LABEL & PK.

1005-1015 SET UP AT SW-6 & COLLECT SAMPLE, AREA SMELLS LIKE SEWAGE, LABEL & PK

1045-1105 SET UP AT SW-23 & COLLECT SAMPLE. LABEL & PK

1110-1125 SET UP AT SW-22 & COLLECT SAMPLE, DITCH HERE IS LOCATED RIGHT AT BOTTOM  
 OF STEEP SLOPE OF THE RAILROAD BED & CONTAINS A LOT OF GREASE & OIL (SOUTH SIDE OF TRACKS)

1135-1145 SET UP AT SW-21 & COLLECT SAMPLE, LABEL & PK

1150-1200 SET UP AT SW-20 & COLLECT SAMPLE, ALSO LOCATED ON SOUTH SIDE OF R.R. TRACKS  
 WATER IS MUCH CLEANER HERE, LABEL & PACK SAMPLES

105-115 SET UP AT SW-19 & COLLECT SAMPLE

120-125 SET UP AT SW-18 & COLLECT SAMPLE

130 BOB LONG ARRIVES BACK ON SITE

135-140 SET UP AT SW-17 & COLLECT SAMPLE

140-150 SET UP AT SW-16 & COLLECT SAMPLE

204-215 SET UP AT SW-11 & COLLECT SAMPLE

225 - STARTS TO RAIN VERY HARD - LEAVE SITE & HEAD BACK TO OFFICE

300 ARRIVE AT OFFICE - FINISH CUSTODY SHEETS & CHAIN-OF-CUSTODY RECORDS, PACK & SEAL COILERS

600-630 HEAD TO FEDERAL EXPRESS TO SHIP COILERS TO THE LAB

**SPECIAL COMMENTS**

SW-16 THRU SW-23 ARE ADDITIONAL SAMPLES REQUESTED BY E & E TO BE TAKEN AT 1000' INTERVALS  
 ON BOTH SIDES OF R.R. TRACKS, TO INTERSECTION OF WESTSIDE DR. #'S SW-16, 18, 20, 22 ARE ON THE  
 SOUTH SIDE OF TRACKS #'S SW-17, 19, 21, 23 ARE ON THE NORTH SIDE

Approvals

Janella Yanducci  
 Om P. Popil, P.E.

Driller

NYSDEC



OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date MONDAY 2/12/90 NYSDEC ID# 822021

Site Name GOUVERNEUR DISTRICT SITE Site No. YN4020 (1502)

Work Start \_\_\_\_\_ Lunch \_\_\_\_\_ Finish \_\_\_\_\_

Weather Conditions SNOW, 35°F

Personnel On Site:

| <u>NYSDEC</u> | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|---------------|--------------------------|----------------|
| _____         | <u>B. MERRILL</u>        | _____          |
| _____         | <u>M. IVES</u>           | _____          |
| _____         | _____                    | _____          |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    | <u>D</u>                 | _____          |
| # of Tyveks            | <u>-</u>                 | _____          |
| # of Tyvek Booties     | <u>-</u>                 | _____          |
| # of Disposable Gloves | <u>ZPR</u>               | _____          |
| _____                  | _____                    | _____          |
| _____                  | _____                    | _____          |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Calib. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | <u>901394</u>       | <u>Y</u>          | <u>2/12/90</u>     | <u>JK</u> | <u>NONE</u>                       |
| Explosimeter          | <u>C2537</u>        | <u>N</u>          | _____              | _____     | _____                             |
| Monitox (HCN)         | <u>035863</u>       | <u>N</u>          | _____              | _____     | _____                             |
| Mini-Rad              | <u>20655</u>        | <u>N</u>          | _____              | _____     | _____                             |
| pH Meter              | _____               | <u>N</u>          | _____              | _____     | <u>NA</u>                         |
| Nephelometer          | _____               | <u>N</u>          | _____              | _____     | <u>NA</u>                         |
| Camera                | <u>30302174</u>     | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Level Indicator | <u>6954V-0001</u>   | <u>N</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954-0004</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>6954V-0003</u>   | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>NH-6950-0003</u> | <u>Y</u>          | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\* If Meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

|                |       |
|----------------|-------|
| Drill Rig Type | _____ |
| Water Tanker   | _____ |
| Steam Jenny    | _____ |
| Bulldozer      | _____ |
| Air Compressor | _____ |
| Other          | _____ |

**Decontamination Zone:**

|                 |         |
|-----------------|---------|
| Detergent Wash  | _____ ✓ |
| Potable H2O     | _____ ✓ |
| Methanol        | _____ ✓ |
| Distilled Water | _____ ✓ |
| Plastic Cover   | _____ ✓ |
| Other           | _____   |

**DESCRIPTION OF WORK COMPLETED**

CREW MEMBERS WERE ON SITE PERFORMING SURVEYING SERVICES  
 A SAMPLE BOTTLE FROM SW-11 WAS DISCOVERED DESTROYED ON 2/9/90  
 AFTER CREW LEFT SITE. FROM 11:30-12:00 CREW RESAMPLED SW-11 TO  
 COMPLETE ALL SAMPLING FOR GOLDEN RD. SITE

**SPECIAL COMMENTS**

SW-11 SAMPLES WERE HAND DELIVERED ON 2/13/90

Approvals

*Janella Vandraic*  
 Om P. Popli, P.E.

Driller

NYSDEC

OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date WEDNESDAY 2/14/00 NYSDEC ID# 979521  
 Site Name GOLDEN RD. DISPOSAL SITE Site No. YAI 4030 (LEOZ)  
 Work Start 1030am Lunch 1200-1230 Finish 430pm  
 Weather Conditions \_\_\_\_\_

Personnel On Site:

| <u>NYSDEC</u> | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|---------------|--------------------------|----------------|
|               | <u>P. VENTRELL</u>       |                |
|               |                          |                |
|               |                          |                |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    |                          |                |
| # of Tyveks            |                          |                |
| # of Tyvek Booties     |                          |                |
| # of Disposable Gloves |                          |                |
|                        |                          |                |
|                        |                          |                |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Callb. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | <u>901394</u>       |                   |                    |           |                                   |
| Explosimeter          | <u>C2537</u>        |                   |                    |           |                                   |
| Monitox (HCN)         | <u>035863</u>       |                   |                    |           |                                   |
| Mini-Rad              | <u>20655</u>        |                   |                    |           |                                   |
| pH Meter              |                     |                   |                    |           | <u>NA</u>                         |
| Nephelometer          |                     |                   |                    |           | <u>NA</u>                         |
| Camera                | <u>30302174</u>     |                   | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Level Indicator |                     |                   | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954 0004</u> |                   | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>NH-6950 0003</u> |                   | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\* If Meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

|                |  |
|----------------|--|
| Drill Rig Type |  |
| Water Tanker   |  |
| Steam Jenny    |  |
| Bulldozer      |  |
| Air Compressor |  |
| Other          |  |

**Decontamination Zone:**

|                 |  |
|-----------------|--|
| Detergent Wash  |  |
| Potable H2O     |  |
| Methanol        |  |
| Distilled Water |  |
| Plastic Cover   |  |
| Other           |  |

**DESCRIPTION OF WORK COMPLETED**

WRITE UP DAILY REPORTS FOR WORK PERFORMED ON SITE

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**SPECIAL COMMENTS**

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Approvals     *Om P. Popli*     \_\_\_\_\_     \_\_\_\_\_  
                     Om P. Popli, P.E.                      Driller                      NYSDEC

OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date THURSDAY 2/15/00 NYSDEC ID# 829021  
 Site Name GOLDEN FTS. INDUSTRIAL SITE Site No. Y14020 (1502)  
 Work Start 1030 AM Lunch 1200 - 1230 Finish 400 PM  
 Weather Conditions \_\_\_\_\_

Personnel On Site:

| <u>NYSDEC</u> | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|---------------|--------------------------|----------------|
|               | <u>P. ANDREI</u>         |                |
|               |                          |                |
|               |                          |                |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    |                          |                |
| # of Tyveks            |                          |                |
| # of Tyvek Boots       |                          |                |
| # of Disposable Gloves |                          |                |
|                        |                          |                |
|                        |                          |                |

Environmental Equipment On Site:

|                       | <u>Meter #</u> | <u>Used Today</u> | <u>Callb. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|----------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | 901394         |                   |                    |           |                                   |
| Explosimeter          | C2537          |                   |                    |           |                                   |
| Monitox (HCN)         | 035863         |                   |                    |           |                                   |
| MInl-Rad              | 20655          |                   |                    |           |                                   |
| pH Meter              |                |                   |                    |           | NA                                |
| Nephelometer          |                |                   |                    |           | NA                                |
| Camera                | 30302174       |                   | NA                 | NA        | NA                                |
| Water Level Indicator |                |                   | NA                 | NA        | NA                                |
| TLD Badge             | SC-6954 0004   |                   | NA                 | NA        | NA                                |
|                       | NH-6950 0003   |                   | NA                 | NA        | NA                                |

\* If Meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

**Decontamination Zone:**

|                |  |
|----------------|--|
| Drill Rig Type |  |
| Water Tanker   |  |
| Steam Jenny    |  |
| Bulldozer      |  |
| Air Compressor |  |
| Other          |  |

|                 |  |
|-----------------|--|
| Detergent Wash  |  |
| Potable H2O     |  |
| Methanol        |  |
| Distilled Water |  |
| Plastic Cover   |  |
| Other           |  |

**DESCRIPTION OF WORK COMPLETED**

WRITE UP DAILY REPORTS FOR WORK PERFORMED ON SITE

**SPECIAL COMMENTS**

Approvals

*Pamela Vanducci*  
Om P. Poppl, P.E.

Driller

NYSDEC

OM P. POPLI, P.E.

NYSDEC PHASE II INVESTIGATIONS

DAILY SITE REPORT

Date FRIDAY 2/16/90 NYSDEC ID# 829021  
 Site Name GOLDEN RD. DISPOSED SITE Site No. YN4020 (RECC)  
 Work Start 9:30 AM Lunch 12:00-12:30 Finish 4:00 PM

Weather Conditions \_\_\_\_\_

Personnel On Site:

| <u>NYSDEC</u> | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|---------------|--------------------------|----------------|
|               | <u>P. VANCELO</u>        |                |
|               |                          |                |
|               |                          |                |

Personnel Safety Equipment:

|                        | <u>OM P. POPLI, P.E.</u> | <u>DRILLER</u> |
|------------------------|--------------------------|----------------|
| Level of Protection    |                          |                |
| # of Tyveks            |                          |                |
| # of Tyvek Booties     |                          |                |
| # of Disposable Gloves |                          |                |
|                        |                          |                |
|                        |                          |                |

Environmental Equipment On Site:

|                       | <u>Meter #</u>      | <u>Used Today</u> | <u>Callb. Date</u> | <u>By</u> | <u>Readings Above Background*</u> |
|-----------------------|---------------------|-------------------|--------------------|-----------|-----------------------------------|
| HNu Meter             | <u>901394</u>       |                   |                    |           |                                   |
| Explosimeter          | <u>C2537</u>        |                   |                    |           |                                   |
| Monitox (HCN)         | <u>035863</u>       |                   |                    |           |                                   |
| Mini-Rad              | <u>20655</u>        |                   |                    |           |                                   |
| pH Meter              |                     |                   |                    |           | <u>NA</u>                         |
| Nephelometer          |                     |                   |                    |           | <u>NA</u>                         |
| Camera                | <u>30302174</u>     |                   | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| Water Lever Indicator |                     |                   | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
| TLD Badge             | <u>SC-6954 0004</u> |                   | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |
|                       | <u>NH-6950 0003</u> |                   | <u>NA</u>          | <u>NA</u> | <u>NA</u>                         |

\* If Meter readings exceeded background, see reverse side for Comments.

**Equipment On Site:**

|                |       |
|----------------|-------|
| Drill Rig Type | _____ |
| Water Tanker   | _____ |
| Steam Jenny    | _____ |
| Bulldozer      | _____ |
| Air Compressor | _____ |
| Other          | _____ |

**Decontamination Zone:**

|                 |       |
|-----------------|-------|
| Detergent Wash  | _____ |
| Potable H2O     | _____ |
| Methanol        | _____ |
| Distilled Water | _____ |
| Plastic Cover   | _____ |
| Other           | _____ |

**DESCRIPTION OF WORK COMPLETED**

FINISH WRITING UP DAILY REPORTS FOR WORK PERFORMED ON SITE

SUMMARIZE EQUIPMENT USE

MAKE COPIES OF DAILY REPORTS AND SAMPLING LOGS FROM LINLEY  
LANDFILL & GOLDEN RD. DISPOSAL SITE TO SEND TO SIM GRIFIN

**SPECIAL COMMENTS**

\_\_\_\_\_

\_\_\_\_\_

Approvals Om P. Popli, P.E. \_\_\_\_\_ Driller \_\_\_\_\_ NYSDEC



OM P. POPLI, P. E.

ENVIRONMENTAL FIELD SAMPLING FORM

Site Location GOLDEN ROAD DISPOSAL SITE Site Number YN 4020 (AEC2)

Weather OVERCAST, SLIGHT BREEZE, LIGHT RAIN, MID 60's Date THUR, 6/15/89

1.) Surfical Soil Sampling Yes [] No []

Equipment Used: Auger []

Number of Samples Taken 12

Trowel [] S.S. Spoons []

Sample Designations S1-S11 + ~~S12-S19~~ ns/msc

Trier [] S.S. Bowl []

Depth of Samples 0-12"

Comments Other []

# of Photos Taken 0

DISCOLORATION OF SOIL WAS NOTED AT S2, S6 & S10; SLIGHT PETROLEUM ODOR @ S2.

2.) Sediment Sampling Yes [] No []

Equipment Used: Other []

Number of Samples Taken \_\_\_\_\_

Ladle []

Sample Designations \_\_\_\_\_

Bottle []

Depth of Samples \_\_\_\_\_

Comments

# of Photos Taken \_\_\_\_\_

3.) Surface Water Sampling Yes [] No []

Equipment Used: Dip Bottle []

Number of Samples Taken \_\_\_\_\_

Ladle [] Other []

Sample Designations \_\_\_\_\_

Thief []

Depth of Samples \_\_\_\_\_

Comments

# of Photos Taken \_\_\_\_\_

4.) Leachate Sampling Yes  No

Equipment Used: Bottle  Number of Samples Taken 1  
Ladle  S.S. Bowl  Sample Designations L1  
Thief  Funnel  Depth of Samples SURFACE  
Comments Other  # of Photos Taken 0

A PETROLEUM-LIKE SHEEN WAS NOTED ON SURFACE OF LEACHATE; NO UNUSUAL ODORS WERE NOTED.

5.) Waste Pile Sampling Yes  No

Equipment Used: Auger  Number of Samples Taken 2  
Trowel  S.S. Spoons  Sample Designations W1 & W2  
Trier  Other  Depth of Samples 0-12"  
Comments # of Photos Taken 0

**OBSERVATIONS/COMMENTS**

Signature of Sampler Nicholas J. Harding

OM P. POPLI, P. E.

ENVIRONMENTAL FIELD SAMPLING FORM

Site Location GOLDEN ROAD DISPOSAL SITE Site Number YN4020 (ABZ)

Weather SUNNY, 40°F Date 2/6/90

1.) Surficial Soil Sampling Yes [ ] No []

|                 |            |                         |                           |
|-----------------|------------|-------------------------|---------------------------|
| Equipment Used: | Auger [ ]  | Number of Samples Taken | _____                     |
|                 | Trowel [ ] | S.S. Spoons [ ]         | Sample Designations _____ |
|                 | Trier [ ]  | S.S. Bowl [ ]           | Depth of Samples _____    |
|                 | Comments   | Other [ ] _____         | # of Photos Taken _____   |

2.) Sediment Sampling Yes [] No [ ]

|                 |  |                         |  |
|-----------------|--|-------------------------|--|
| Equipment Used: | Other [ <input checked="" type="checkbox"/> ] <u>STAINLESS STEEL</u> | Number of Samples Taken | <u>3</u>                                       |
|                 | Ladle [ ]  | <u>SPON</u>             | Sample Designations <u>SW-12, SW-14, SW-15</u> |
|                 | Bottle [ ]   | Depth of Samples        | <u>0-12"</u>                                   |
|                 | Comments   | # of Photos Taken       | <u>NONE</u>                                    |

NO SAMPLE TAKEN AT SW-13 - SOIL SAMPLES WERE TAKEN ON PREVIOUS DATES THAT SURROUND THIS LOCATION - DEC SWD TO DISREGARD THIS AREA

3.) Surface Water Sampling Yes [] No [ ]

|                 |  |                         |  |
|-----------------|--|-------------------------|--|
| Equipment Used: | Dip Bottle [ <input checked="" type="checkbox"/> ] | Number of Samples Taken | <u>3</u>                                       |
|                 | Ladle [ ]  | Other [ ] _____         | Sample Designations <u>SW-12, SW-14, SW-15</u> |
|                 | Thief [ ]  | Depth of Samples        | <u>SURFACE</u>                                 |
|                 | Comments   | # of Photos Taken       | <u>NONE</u>                                    |

DEC SUGGESTED TO DISREGARD SAMPLE LOCATION SW-13 AS THERE WAS NO SURFACE WATER NEAR THIS LOCATION & DOESN'T APPEAR TO EVER HAVE ANY IN THIS AREA BECAUSE SAMPLING HAS ALREADY BEEN DONE ON THE SOIL IN THIS AREA

4.) **Leachate Sampling** Yes  No

|                 |                          |                          |                          |                     |       |
|-----------------|--------------------------|--------------------------|--------------------------|---------------------|-------|
| Equipment Used: | Bottle                   | <input type="checkbox"/> | Number of Samples Taken  | _____               |       |
| Ladle           | <input type="checkbox"/> | S.S. Bowl                | <input type="checkbox"/> | Sample Designations | _____ |
| Thief           | <input type="checkbox"/> | Funnel                   | <input type="checkbox"/> | Depth of Samples    | _____ |
| Comments        | Other                    | <input type="checkbox"/> | # of Photos Taken        | _____               |       |

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

5.) **Waste Pile Sampling** Yes  No

|                 |                          |                          |                          |                     |       |
|-----------------|--------------------------|--------------------------|--------------------------|---------------------|-------|
| Equipment Used: | Auger                    | <input type="checkbox"/> | Number of Samples Taken  | _____               |       |
| Trowel          | <input type="checkbox"/> | S.S. Spoons              | <input type="checkbox"/> | Sample Designations | _____ |
| Trier           | <input type="checkbox"/> | Other                    | <input type="checkbox"/> | Depth of Samples    | _____ |
| Comments        |                          |                          | # of Photos Taken        | _____               |       |

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**OBSERVATIONS/COMMENTS**

SW-12 WAS LOCATED NEAR A COW PASTURE AND GETS A LOT OF RUNOFF FROM THIS AREA

NO UNUSUAL OBSERVATIONS

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature of Sampler           *Janetla Vandrei*

OM P. POPLI, P.E.

ENVIRONMENTAL FIELD SAMPLING FORM

Site Location GOLDEN POND DISPOSAL SITE Site Number Y114020 (AE02)

Weather SUNNY, 45°F Date 2/8/90

1.) Surficial Soil Sampling Yes [ ] No []

|                 |            |                         |                           |
|-----------------|------------|-------------------------|---------------------------|
| Equipment Used: | Auger [ ]  | Number of Samples Taken | _____                     |
|                 | Trowel [ ] | S.S. Spoons [ ]         | Sample Designations _____ |
|                 | Trier [ ]  | S.S. Bowl [ ]           | Depth of Samples _____    |
|                 | Comments   | Other [ ] _____         | # of Photos Taken _____   |

2.) Sediment Sampling Yes [] No [ ]

|                 |  |                         |                                     |
|-----------------|--|-------------------------|-------------------------------------|
| Equipment Used: | Other [ <input checked="" type="checkbox"/> ] <u>STAINLESS STEEL SPOON</u> | Number of Samples Taken | <u>7</u>                            |
|                 | Ladle [ ]  | Sample Designations     | <u>SW-1, SW-2, SW-3, SW-4, SW-8</u> |
|                 | Bottle [ ]   | Depth of Samples        | <u>SW-4 &amp; SW-10 0-12"</u>       |
|                 | Comments   | # of Photos Taken       | <u>NONE</u>                         |

3.) Surface Water Sampling Yes [] No [ ]

|                 |  |                         |   |
|-----------------|--|-------------------------|---|
| Equipment Used: | Dip Bottle [ <input checked="" type="checkbox"/> ] | Number of Samples Taken | <u>7</u>  |
|                 | Ladle [ ]  | Other [ ] _____         | Sample Designations <u>SW-1, SW-2, SW-3, SW-4, SW-8</u> |
|                 | Thief [ ]  | Depth of Samples        | <u>SW-4 &amp; SW-10 SURFACE</u>                         |
|                 | Comments   | # of Photos Taken       | <u>NONE</u>   |

SW-8 IS LOCATED IN CENTER OF POND LIKE LOCATION & SAMPLED LIKE SEWAGE

4.) Leachate Sampling Yes  No

Equipment Used: Bottle  Number of Samples Taken 1  
Ladle  S.S. Bowl  Sample Designations L-2  
Thief  Funnel  Depth of Samples 0-12"  
Comments Other  STAINLESS STEEL # of Photos Taken NONE  
spec 4

NO LEACHATE APPEARED TO BE IN THIS AREA - SEDIMENT SAMPLE TAKEN

5.) Waste Pile Sampling Yes  No

Equipment Used: Auger  Number of Samples Taken \_\_\_\_\_  
Trowel  S.S. Spoons  Sample Designations \_\_\_\_\_  
Trier  Other  \_\_\_\_\_ Depth of Samples \_\_\_\_\_  
Comments # of Photos Taken \_\_\_\_\_

**OBSERVATIONS/COMMENTS**

NO UNUSUAL OBSERVATIONS

Signature of Sampler Jamela Vardiaci

OM P. POPLI, P.E.

ENVIRONMENTAL FIELD SAMPLING FORM

Site Location GOLDEN ROAD DEPOSIT SITE Site Number YU 4000 (1502)

Weather RAIN, 45°F Date 2/9/90

1.) Surficial Soil Sampling Yes [ ] No []

Equipment Used: Auger [ ] Number of Samples Taken \_\_\_\_\_  
Trowel [ ] S.S. Spoons [ ] Sample Designations \_\_\_\_\_  
Trier [ ] S.S. Bowl [ ] Depth of Samples \_\_\_\_\_  
Comments Other [ ] # of Photos Taken \_\_\_\_\_

Sediment Sampling Yes [] No [ ]

Equipment Used: Other [] STAINLESS STEEL Number of Samples Taken 12  
Ladle [ ] SPoon Sample Designations SU-5, SU-6, SU-7, SU-11, SU-16, SU-18, SU-19, SU-20, SU-21, SU-22, &  
Bottle [ ] Depth of Samples 0-12"  
Comments # of Photos Taken NONE

3.) Surface Water Sampling Yes [] No [ ]

Equipment Used: Dip Bottle [] Number of Samples Taken 12  
Ladle [ ] Other [ ] Sample Designations SU-5, SU-6, SU-7, SU-11, SU-16, SU-17, SU-18, SU-19, SU-20, SU-21, SU-22, &  
Thief [ ] Depth of Samples SURFACE  
Comments # of Photos Taken NONE

SAMPLES SU-16 THRU SU-23 WERE ADDITIONAL SAMPLES REQUESTED BY E&E TO BE ANALYZED FOR PCB/PESTICIDES ONLY (1 LITER, 1-802 & 4 VOLS)

OM P. POPLI, P. E.

ENVIRONMENTAL FIELD SAMPLING FORM

Site Location GOLDEN POND DISPOSAL SITE Site Number YN4720 (DE02)

Weather SNOW, 30°F Date 2/12/90

1.) Surficial Soil Sampling Yes [ ] No []

Equipment Used: Auger [ ] Number of Samples Taken \_\_\_\_\_  
Trowel [ ] S.S. Spoons [ ] Sample Designations \_\_\_\_\_  
Trier [ ] S.S. Bowl [ ] Depth of Samples \_\_\_\_\_  
Comments Other [ ] # of Photos Taken \_\_\_\_\_

2.) Sediment Sampling Yes [] No [ ]

Equipment Used: Other [] STAINLESS STEEL Number of Samples Taken 1  
Ladle [ ] SPUN Sample Designations SW-11  
Bottle [ ] Depth of Samples 0-12"  
Comments # of Photos Taken NONE

3.) Surface Water Sampling Yes [] No [ ]

Equipment Used: Dip Bottle [] Number of Samples Taken 1  
Ladle [ ] Other [ ] Sample Designations SW-11  
Thief [ ] Depth of Samples SURFACE  
Comments # of Photos Taken NONE  
RE-SAMPLED SW-11 BECAUSE ONE OF THE CONTAINERS GOT BROKEN FROM 2/9/90  
& WAS NOT ABLE TO SHIP SAMPLE IN THAT CONDITION



4.) Leachate Sampling Yes [ ] No []

|                 |                 |                         |       |
|-----------------|-----------------|-------------------------|-------|
| Equipment Used: | Bottle [ ]      | Number of Samples Taken | _____ |
| Ladle [ ]       | S.S. Bowl [ ]   | Sample Designations     | _____ |
| Thief [ ]       | Funnel [ ]      | Depth of Samples        | _____ |
| Comments        | Other [ ] _____ | # of Photos Taken       | _____ |

\_\_\_\_\_

\_\_\_\_\_

5.) Waste Pile Sampling Yes [ ] No []

|                 |                 |                         |       |
|-----------------|-----------------|-------------------------|-------|
| Equipment Used: | Auger [ ]       | Number of Samples Taken | _____ |
| Trowel [ ]      | S.S. Spoons [ ] | Sample Designations     | _____ |
| Trier [ ]       | Other [ ] _____ | Depth of Samples        | _____ |
| Comments        |                 | # of Photos Taken       | _____ |

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\_\_\_\_\_

**OBSERVATIONS/COMMENTS**

*NO VISUAL OBSERVATIONS*

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Signature of Sampler *Janita Vandrei*

4.) **Leachate Sampling** Yes  No

|                 |                          |                          |                          |                     |       |
|-----------------|--------------------------|--------------------------|--------------------------|---------------------|-------|
| Equipment Used: | Bottle                   | <input type="checkbox"/> | Number of Samples Taken  | _____               |       |
| Ladle           | <input type="checkbox"/> | S.S. Bowl                | <input type="checkbox"/> | Sample Designations | _____ |
| Thief           | <input type="checkbox"/> | Funnel                   | <input type="checkbox"/> | Depth of Samples    | _____ |
| Comments        | Other                    | <input type="checkbox"/> | # of Photos Taken        | _____               |       |

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5.) **Waste Pile Sampling** Yes  No

|                 |                          |                          |                          |                     |       |
|-----------------|--------------------------|--------------------------|--------------------------|---------------------|-------|
| Equipment Used: | Auger                    | <input type="checkbox"/> | Number of Samples Taken  | _____               |       |
| Trowel          | <input type="checkbox"/> | S.S. Spoons              | <input type="checkbox"/> | Sample Designations | _____ |
| Trier           | <input type="checkbox"/> | Other                    | <input type="checkbox"/> | Depth of Samples    | _____ |
| Comments        |                          |                          | # of Photos Taken        | _____               |       |

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\_\_\_\_\_  
\_\_\_\_\_

**OBSERVATIONS/COMMENTS**

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\_\_\_\_\_  
\_\_\_\_\_

Signature of Sampler           *Janela Vandree*

OM P. POPLI, P. E.  
GROUNDWATER MONITORING FIELD FORM

Well depths  
# need.  
from ground  
level

Site Location: GOLDEN ROAD DISPOSAL SITE Site Number: YN4020 (JEDZ)

Weather: OVERCAST, 44°F Date: 2/7/90

Well ID# GW-1

**PURGE INFORMATION**

Purge Method: Bailer:  PVC  Teflon  St. Steel  Other \_\_\_\_\_

Pump:  Peristaltic  Submersible  Other \_\_\_\_\_

- Volume Calculation -

Well Depth (ft) 11.5

Static Water Level (ft) 3.2 below grb

Depth of Water Column (ft) 8.3

X Well Constant (gal/ft) X = 0.16

Volume Standing in Well 1.3 gallons = 4 gals.

-Groundwater Elevation Calculation-

Well Elevation (ft) MSL \_\_\_\_\_

Static Water Level (ft) \_\_\_\_\_

Groundwater Elev. MSL \_\_\_\_\_ ft

Well Constants (X):

[ 0.16 gal/ft = 2" OD well; 0.65 gal/ft = 4" OD well. Calc. to Determine Constant: ]

[ Constant X =  $0.7854 \times (\text{casing diameter in inches})^2 \times 12$  ]

231

Purge Time: 5 mins. 900-905

Purging Observation \ Measurements

Total Volume Purged: 4+ gallons

WHEN WELL UNCOVERED IT SMELLED

# of Volume Casings purged: 3

LIKE PETROLEUM

Sampling information: Sample Method: Bailer:  PVC  Teflon  St. Steel  Other \_\_\_\_\_

Pump:  Peristaltic  Submersible  Other \_\_\_\_\_

Time: 905 AM

7 Number of Bottles Taken: \_\_\_\_\_ Field Preservation (Y or N): Y METALS & CYANIDES

Field Filtered (Y or N), Date/Time 2/7/90 Filtering Method MALGENE DISPOSABLE FILTER 0.80 MICRON

Sample Appearance: RUSTY IN COLOR

Field Measurements:

| Meter Number | Parameter   | Unit     | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 |
|--------------|-------------|----------|-------------|-------------|-------------|-------------|
|              | pH          | S.U.     | 8.1         | 8.3         | 8.3         | 8.1         |
|              | Spec. Cond. | umhos/cm | 2000        | 2800        | 2200        | 2200        |
|              | Temp.       | °C       | 8.3         | 8.4         | 8.9         | 8.9         |
|              | Turbidity   | NTU      | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   |

METER CALIBRATIONS

pH: Buffer 7.00 - APPROX. 7.0 set  
 Buffer 4.00 - " 4.0 set/read  
 Buffer 10.0 - " 10.0 set/read  
 Buffer 7.00 - " 7.0 read

Field Meter Calibrations Date/Time 2/7/90

Field Observations:

NO UNUSUAL OBSERVATIONS

Crew Members:

B. MERRITT, P. VANDERBEL

NYSDEC \_\_\_\_\_

Jamela Kundree

Om P. Popli, P. E. Signature

OM P. POPLI, P. E.  
GROUNDWATER MONITORING FIELD FORM

Site Location: GOLDEN ROAD DISPOSAL SITE Site Number: YU 4020 (NEOL)

Weather: SUNNY, 44°F Date: 2/7/90

Well ID# GW-2

**PURGE INFORMATION**

Purge Method: Bailer: [] PVC [] Teflon [ ] St. Steel [ ] Other \_\_\_\_\_

Pump: [ ] Peristaltic [ ] Submergible [ ] Other \_\_\_\_\_

- Volume Calculation -

Well Depth (ft) 11.0

Static Water Level (ft) 0.5' Above gch

Depth of Water Column (ft) 10.5

X Well Constant (gal/ft) X = 0.16

Volume Standing in Well 1.7 gallons = 5 gals

- Groundwater Elevation Calculation -

Well Elevation (ft) MSL \_\_\_\_\_

Static Water Level (ft) \_\_\_\_\_

Groundwater Elev. MSL \_\_\_\_\_ ft

- Constants (X) :

[ 0.16 gal/ft = 2" OD well; 0.65 gal/ft = 4" OD well, Calc. to Determine Constant:]

[ Constant X =  $\frac{0.7854 \times (\text{casing diameter in inches})^2 \times 12}{231}$  ]

Purge Time: 5 RUNS. 11:15-11:20

Purging Observation/Measurements

Total Volume Purged: 5+ gallons

# of Volume Casings purged: 3

Sampling Information: Sample Method: Bailer: [] PVC [] Teflon [ ] St. Steel [ ] Other \_\_\_\_\_

Pump: [ ] Peristaltic [ ] Submergible [ ] Other \_\_\_\_\_

Time: 1:50

7 Number of Bottles Taken: \_\_\_\_\_ Field Preservation (Y or N): Y METALS & CYANIDES

Field Filtered (Y or N), Date/Time 2/7/90 Filtering Method WATERLOO DISPOSABLE FILTER 0.80 MICRON

Sample Appearance: MUDDY

Field Measurements:

| Meter Number | Parameter   | Unit     | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 |
|--------------|-------------|----------|-------------|-------------|-------------|-------------|
|              | pH          | S.U.     | 8.4         | 7.9         | 7.8         | 7.8         |
|              | Spec. Cond. | umhos/cm | 3000        | 3200        | 2900        | 2920        |
|              | Temp.       | °C       | 6.1         | 6.7         | 6.7         | 6.7         |
|              | Turbidity   | NTU      | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   |

METER CALIBRATIONS

pH: Buffer 7.00 - APPROX. 7.0 set  
 Buffer 4.00 - 4.0 set/read  
 Buffer 10.0 - 10.0 set/read  
 Buffer 7.00 - 7.0 read

Field Meter Calibrations Date/Time 2/7/90

Field Observations:

NO UNUSUAL OBSERVATIONS

Crew Members: B. MERRITT, P. VANDREI

NYSDEC \_\_\_\_\_

Janet Vandrei  
 Om P. Popli, P. E. Signature

OM P. POPLI, P. E.  
GROUNDWATER MONITORING FIELD FORM

Location: GOLDEN ROAD DISPOSAL SITE Site Number: YN 4020 (1E02)  
Weather: OVERCAST, SOME SUN, 44°F Date: 2/7/90  
Well ID# GW-3

**PURGE INFORMATION**

Purge Method: Bailer:  PVC  Teflon  St. Steel  Other \_\_\_\_\_  
Pump:  Peristaltic  Submergible  Other \_\_\_\_\_

- Volume Calculation -

Well Depth (ft) 18.2  
Static Water Level (ft) 1.5 Above gnd  
Depth of Water Column (ft) 16.7  
X Well Constant (gal/ft) X = 0.16  
Volume Standing in Well 2.67 gallons = 3 gals

-Groundwater Elevation Calculation-

Well Elevation (ft) MSL \_\_\_\_\_  
Static Water Level (ft) \_\_\_\_\_  
Groundwater Elev. MSL \_\_\_\_\_ ft

Well Constants (X):

[ 0.16 gal/ft = 2" OD well; 0.65 gal/ft = 4" OD well. Calc. to Determine Constant:]  
[ Constant X =  $0.7854 \times (\text{casing diameter in inches})^2 \times 12$  ]  
231

Purge Time: 5 mins 11:40-11:45  
Total Volume Purged: 8+ gallons  
# of Volume Casings purged: 3

Purging Observation/Measurements  
WATER REMAINS FAIRLY CLEAR

Sampling Information: Sample Method: Bailer:  PVC  Teflon  St. Steel  Other \_\_\_\_\_  
Pump:  Peristaltic  Submergible  Other \_\_\_\_\_

Time: 2:05

7 Number of Bottles Taken: \_\_\_\_\_ Field Preservation (Y or N): Y METALS & CYANIDES  
Field Filtered (Y or N), Date/Time 2/7/90 Filtering Method NALGENE DISPOSAL FILTER 0.80 MICRON  
Sample Appearance: FAIRLY CLEAR BUT NOT LESS THAN 50 NTU'S

Field Measurements:

| meter Number | Parameter   | Unit     | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 |
|--------------|-------------|----------|-------------|-------------|-------------|-------------|
|              | pH          | S.U.     | 8.2         | 8.1         | 7.9         | 7.8         |
|              | Spec. Cond. | umhos/cm | 3200        | 3100        | 2770        | 3100        |
|              | Temp.       | °C       | 8.3         | 8.3         | 9.4         | 9.4         |
|              | Turbidity   | NTU      | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   |

METER CALIBRATIONS

pH: Buffer 7.00 - APPROX. 7.0 set  
 Buffer 4.00 - " 4.0 set/read  
 Buffer 10.0 - " 10.0 set/read  
 Buffer 7.00 - " 7.0 read

Field Meter Calibrations Date/Time 2/7/90

Field Observations:

NO UNUSUAL OBSERVATIONS

Crew Members:

B. MERRITT, P. VANDERVEL

NYSDEC \_\_\_\_\_

Janula Vandree

Om P. Popli, P. E. Signature



OM P. POPLI, P. E.  
GROUNDWATER MONITORING FIELD FORM

Location: GOLDEN ROAD DISPOSAL SITE Site Number: YN 4070 (1502)

Weather: CLEAR, 44°F Date: 2/7/90

Well ID# GU-5

**PURGE INFORMATION**

Purge Method: Bailer: [] PVC [] Teflon [] St. Steel [] Other \_\_\_\_\_

Pump: [] Peristaltic [] Submergible [] Other \_\_\_\_\_

- Volume Calculation -

-Groundwater Elevation Calculation-

Well Depth (ft) 24.5

Well Elevation (ft) MSL \_\_\_\_\_

Static Water Level (ft) 5.2 below gld

Static Water Level (ft) \_\_\_\_\_

Depth of Water Column (ft) 19.3

Groundwater Elev. MSL \_\_\_\_\_ ft

X Well Constant (gal/ft) X = 0.16

Volume Standing in Well 3.1 gallons = 9.3 gal<sup>2</sup>

! Constants (X):

0 gal/ft = 2" OD well; 0.65 gal/ft = 4" OD well. Calc. to Determine Constant:]

$$\text{Constant X} = \frac{0.7654 \times (\text{casing diameter in inches})^2 \times 12}{231}$$

Purge Time: 20 mins 10<sup>45</sup>-11<sup>05</sup>

Purging Observation/Measurements

Total Volume Purged: 9.3+ gallons

# of Volume Casings purged: 3

Sampling Information: Sample Method: Bailer: [] PVC [] Teflon [] St. Steel [] Other \_\_\_\_\_

Pump: [] Peristaltic [] Submergible [] Other \_\_\_\_\_

Time: 110

7 Number of Bottles Taken: \_\_\_\_\_ Field Preservation (Y or N): Y METALS & CYANIDES

Field Filtered (Y or N), Date/Time Y, 2/7/90 Filtering Method NALGENE DISPOSABLE FILTER 0.20 MICRON

Sample Appearance: MUDDY

Field Measurements:

| Meter Number | Parameter   | Unit     | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 |
|--------------|-------------|----------|-------------|-------------|-------------|-------------|
|              | pH          | S.U.     | 8.1         | 8.3         | 8.3         | 8.1         |
|              | Spec. Cond. | umhos/cm | 2000        | 2800        | 2200        | 2200        |
|              | Temp.       | °C       | 8.3         | 8.9         | 8.9         | 8.9         |
|              | Turbidity   | NTU      | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   |

METER CALIBRATIONS

pH: Buffer 7.00 - APPROX 7.0 set  
 Buffer 4.00 - " 4.0 set/read  
 Buffer 10.0 - " 10.0 set/read  
 Buffer 7.00 - " 7.0 read

Field Meter Calibrations Date/Time 2/7/90

Field Observations:

NO UNUSUAL OBSERVATIONS

Crew Members:

B. MERRITT & P. VANDERBEE

NYSDEC \_\_\_\_\_

*Janice Vandenberg*

Om. P. Popli, P. E. Signature

OM P. POPLI, P. E.  
GROUNDWATER MONITORING FIELD FORM

Site Location: GOLDEN ROAD DISPOSAL SITE Site Number: Y14020 (1502)

Weather: PARTLY SUNNY, 44° F Date: 2/7/90

Well ID# GW-4

PURGE INFORMATION

Purge Method: Bailer: [] PVC [] Teflon [ ] St. Steel [ ] Other \_\_\_\_\_

Pump: [ ] Peristaltic [ ] Submersible [ ] Other \_\_\_\_\_

- Volume Calculation -

-Groundwater Elevation Calculation-

Well Depth (ft) 21.1

Well Elevation (ft) MSL \_\_\_\_\_

Static Water Level (ft) 2.1 above gnd

Static Water Level (ft) \_\_\_\_\_

Depth of Water Column (ft) 19.0

Groundwater Elev. MSL \_\_\_\_\_ ft

X Well Constant (gal/ft) X = 0.16

Volume Standing in Well 3.0 gallons = 9 gals

Well Constants (X):

[ 0.16 gal/ft = 2" OD well; 0.65 gal/ft = 4" OD well. Calc. to Determine Constant:]

$$[ \text{Constant X} = \frac{0.7854 \times (\text{casing diameter in inches})^2 \times 12}{231} ]$$

Purge Time: 10 mins. 11:55-12:05

Purging Observation \ Measurements

Total Volume Purged: 9+ gallons

WATER REMAINED VERY CLEAR

# of Volume Casings purged: 3

Sampling Information: Sample Method: Bailer: [] PVC [] Teflon [ ] St. Steel [ ] Other \_\_\_\_\_

Pump: [ ] Peristaltic [ ] Submersible [ ] Other \_\_\_\_\_

Time: 2:50

7 Number of Bottles Taken: \_\_\_\_\_ Field Preservation (Y or N): Y METALS & CYANIDES

Field Filtered (Y or N), Date/Time 2/7/90 Filtering Method WILCOX DISPOSABLE FILTER 0.80 MICRON

Sample Appearance: WATER VERY CLEAR BUT NOT LESS THAN 50 NTU'S

Field Measurements:

| Meter Number | Parameter   | Unit     | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 |
|--------------|-------------|----------|-------------|-------------|-------------|-------------|
|              | pH          | S.U.     | 7.8         | 8.0         | 8.1         | 7.9         |
|              | Spec. Cond. | umhos/cm | 2970        | 2970        | 3000        | 2910        |
|              | Temp.       | °C       | 8.9         | 8.9         | 9.4         | 8.9         |
|              | Turbidity   | NTU      | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   |

METER CALIBRATIONS

pH: Buffer 7.00 - ~~7.00~~ 7.0 set  
 Buffer 4.00 - " 4.0 set/read  
 Buffer 10.0 - " 10.0 set/read  
 Buffer 7.00 - " 7.0 read

Field Meter Calibrations Date/Time 2/7/90

Field Observations:

NO UNUSUAL OBSERVATIONS

Crew Members:

B. MERRITT & P. VANDREI

NYSDEC

*Pamela Vandrei*  
 Pam P. Popli, P. E. Signature

OM P. POPLI, P. E.  
GROUNDWATER MONITORING FIELD FORM

Site Location: GOLDEN ROAD DISPOSAL SITE Site Number: YN 4020 (1802)

Weather: SUNNY, 35°F Date: 2/6/90

Well ID# GW-6

**PURGE INFORMATION**

Purge Method: Bailer:  PVC  Teflon  St. Steel  Other \_\_\_\_\_

Pump:  Peristaltic  Submersible  Other \_\_\_\_\_

- Volume Calculation -

Well Depth (ft) 16.6

Static Water Level (ft) 0.70 above grd

Depth of Water Column (ft) 15.9

X Well Constant (gal/ft) X = 0.16

Volume Standing in Well 2.5 gallons = 7.6 gals.

- Groundwater Elevation Calculation -

Well Elevation (ft) MSL \_\_\_\_\_

Static Water Level (ft) \_\_\_\_\_

Groundwater Elev. MSL \_\_\_\_\_ ft

Well Constants (X):

[ 0.16 gal/ft = 2" OD well; 0.65 gal/ft = 4" OD well. Calc. to Determine Constant:]

[ Constant X =  $0.7854 \times (\text{casing diameter in inches})^2 \times 12$  ]

231

Purge Time: 15 mins 12<sup>00</sup>-12<sup>15</sup>

Purging Observation/Measurements

Total Volume Purged: 7.6<sup>+</sup> gallons

# of Volume Casings purged: 3

Sampling Information: Sample Method: Bailer:  PVC  Teflon  St. Steel  Other \_\_\_\_\_

Pump:  Peristaltic  Submersible  Other \_\_\_\_\_

Time: 2:35

7 Number of Bottles Taken: \_\_\_\_\_ Field Preservation (Y or N): Y METALS & CYANIDES

Field Filtered (Y or N), Date/Time Y, 2/6/90 Filtering Method VALBENE DISPOSABLE FILTER 0.80 NUOPON

Sample Appearance: MUDDY

Field Measurements:

| Meter Number | Parameter   | Unit     | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 |
|--------------|-------------|----------|-------------|-------------|-------------|-------------|
|              | pH          | S.U.     | 9.4         | 9.9         | 9.9         | 9.4         |
|              | Spec. Cond. | umhos/cm | 1830        | 1830        | 1870        | 1910        |
|              | Temp.       | °C       | 6.1         | 6.1         | 6.1         | 6.1         |
|              | Turbidity   | NTU      | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   |

METER CALIBRATIONS

pH: Buffer 7.00 - APPROX 7.0 set  
 Buffer 4.00 - " 4.0 set/read  
 Buffer 10.0 - " 10.0 set/read  
 Buffer 7.00 - " 7.0 read

Field Meter Calibrations Date/Time 2/6/90

Field Observations:

NO UNUSUAL OBSERVATIONS

Crew Members:

B. MERRITT & P. VANDREEL

NYSDEC \_\_\_\_\_

Janet Vandriel

Om P. Popli, P. E. Signature

OM P. POPLI, P. E.  
GROUNDWATER MONITORING FIELD FORM

Site Location: GOLDEN ROAD DISPOSAL SITE Site Number: YN 4020 (1E02)

Weather: SUNNY, 40°F Date: 2/6/90

Well ID# GW-7

PURGE INFORMATION

Purge Method: Bailer: [] PVC [] Teflon [ ] St. Steel [ ] Other \_\_\_\_\_

Pump: [ ] Peristaltic [ ] Submersible [ ] Other \_\_\_\_\_

Volume Calculation  
Well Depth (ft) 17.2  
Static Water Level (ft) 4.25 below gnd  
Depth of Water Column (ft) 12.95  
X Well Constant (gal/ft) X = 0.16  
Volume Standing in Well 2.1 gallons = 6.3 gals.

Groundwater Elevation Calculation  
Well Elevation (ft) MSL \_\_\_\_\_  
Static Water Level (ft) \_\_\_\_\_  
Groundwater Elev. MSL \_\_\_\_\_ ft

Well Constants (X):

[ 0.16 gal/ft = 2" OD well; 0.65 gal/ft = 4" OD well, Calc. to Determine Constant: ]  
[ Constant X =  $0.7854 \times (\text{casing diameter in inches})^2 \times 12$  ]  
231

Purge Time: 15 MIN. 1125-1140

Purging Observation/Measurements

Total Volume Purged: 6+ gallons

# of Volume Casings purged: 3

Sampling Information: Sample Method: Bailer: [] PVC [] Teflon [ ] St. Steel [ ] Other \_\_\_\_\_  
Pump: [ ] Peristaltic [ ] Submersible [ ] Other \_\_\_\_\_

Time: 2:50

7 Number of Bottles Taken: \_\_\_\_\_ Field Preservation ( Y or N): METALS & CYANIDES

Field Filtered ( Y or N), Date/Time 2/6/90 Filtering Method VALVE DISPOSEABLE FILTER 0.80 MICRON

Sample Appearance: RUSTY IN COLOR

Field Measurements:

| Meter Number | Parameter   | Unit     | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 |
|--------------|-------------|----------|-------------|-------------|-------------|-------------|
|              | pH          | S.U.     | 7.5         | 7.2         | 7.0         | 6.8         |
|              | Spec. Cond. | umhos/cm | 2220        | 2250        | 2200        | 2300        |
|              | Temp.       | °C       | 8.3         | 8.3         | 8.9         | 8.9         |
|              | Turbidity   | NTU      | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   | OFF-SCALE   |

METER CALIBRATIONS

pH: Buffer 7.00 - APPROX 7.0 set  
 Buffer 4.00 - " 4.0 set/read  
 Buffer 10.0 - " 10.0 set/read  
 Buffer 7.00 - " 7.0 read

Field Meter Calibrations Date/Time 2/6/90

Field Observations:

NO UNUSUAL OBSERVATIONS

Crew Members: B. MERRITT & P. VANDREEL

NYSDEC \_\_\_\_\_

Janet Vandree  
 Om P. Popli. P. E. Signature