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ARCS II

REMEDIAL PLANNING ACTIVITIES AT SELECTED UNCONTROLLED HAZARDOUS SUBSTANCE DISPOSAL SITES WITHIN EPA REGION II

(NY, NJ, PR, VI)

CDM Federal Programs Corporation

FINAL REMEDIAL INVESTIGATION REPORT
FOREST GLEN SITE
NIAGARA FALLS, NEW YORK

VOLUME II

Prepared for

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APPENDIX A

QUALITY ASSURANCE/QUALITY CONTROL MEASURES

1.0 QA/QC MEASURES AND DATA QUALITY ASSESSMENT

This section presents aspects of the quality assurance requirements emplaced to assure the useability of the data in order to meet RI objectives.

Documents used to govern the collection of samples and the quality assurance and quality control (QA/QC) of the total project include the CDM Federal Work Plan (WP), December, 1993; the CDM Federal Revised Final Project Operations Plan (POP) including the Quality Assurance Project Plan (QAPP), June 1994; along with the USEPA Region II CERCLA Quality Assurance Manual (CERCLA QA Manual), Revision 1, October 1989, and those agency-approved guidance documents referenced therein. Modifications to the project plans are discussed in Table A-1. The laboratory QA/QC procedures are outlined in the above documents.

1.1 FIELD AND LABORATORY TECHNICAL SYSTEM AUDITS

Per the POP, field technical system audits and internal system audits may be done during the Remedial Investigation (RI) according to the specified and approved QA/QC requirements. One office internal system audit (ISA) and one field technical systems audit (FTSA) was performed. The ISA evaluated the adherence to the applicable QA/QC requirements as specified in the ruling documents such as the WP and the CDM Federal ARCS II QA Management Plan. The FTSA audit evaluated the ARCS II field team's performance during collection, storage, handling, preservation, and packing of the environmental and QC samples, plus other field operations such as equipment calibration, decontamination, field measurements, and documentation. The availability of relevant guidance documents in the field was also recorded by the auditor.

The FTSA was conducted on November 21, 1994. Whereas, a few deviations from the plans and guidance documents were noted by the auditors which required corrective action, these were of a minor nature and did not adversely affect the quality of the collected data. Deficiencies were noted in the following areas.

- Sample paperwork and Chain-of-Custody missing information.
- Analyte free data results on site availability.

Corrective actions were taken to address these deficiencies. The predominant findings of the audits were that the field team had been performing RI tasks in conformance with the various controlling plans and guidance documents.

The ISA was conducted on August 26, and 29, 1994. The plans and guidance documents were followed with the exception of minor problems which did not adversely affect the quality of the collected data. Deficiencies were noted in the following areas.

- Marked up draft documents in files
- Technical review forms missing or incomplete
- Field logbook documentation missing entries

Corrective action was taken as well as QC measures implemented for future field work. The ARCS II Regional Quality Assurance Coordinator determined that the deficiencies did not affect data quality such that the data should be qualified or rejected.

1.2 DATA QUALITY OBJECTIVES

Data quality objectives (DQOs) were incorporated in the planning of the RI in accordance with EPA guidelines. These DQOs included precision, accuracy, representativeness, completeness, comparability, and sensitivity commonly referred to as the PARCCS parameters. In order to meet these DQOs during the collection of the environmental samples, field and laboratory procedures for sample collection and analysis were followed in accordance with the POP. The PARCCS parameters are as presented in the POP and are discussed below.

1.2.1 PRECISION

Precision quantifies the reproduceability of measurements of the same property under a given set of conditions. Both field sampling precision and analytical precision can be measured (Section 1.4.3 of this appendix). Blind duplicate samples were collected and analyzed as part of the field program to demonstrate the reproducibility of sampling technique. Analytical precision was met by using EPA-approved methods, which specify precision limits for acceptable analyses (i.e., the Contract Laboratory Program (CLP) analytical statements of work for Target Compound List (TCL) organics and Target Analyte List (TAL) inorganics), and laboratories that operate under formalized quality assurance programs with appropriate standard operating procedures and use qualified personnel and equipment.

1.2.2 ACCURACY

Accuracy measures the bias in a measurement system. Analytical accuracy was met by using EPA-approved methods, which specify accuracy limits for acceptable analyses (i.e., the Contract Laboratory Program (CLP) analytical statements of work for Target Compound List (TCL) organics and Target Analyte List (TAL) inorganics), and laboratories that operate under formalized quality assurance programs with appropriate standard operating procedures and use qualified personnel and equipment.

1.2.3 REPRESENTATIVENESS

Representativeness expresses the degree to which the sample portrays the population

characteristics of process or environmental conditions at a given location and point in time. Representativeness is affected by time, location, and sampling technique. An example of the way representativeness was met during the RI was by the employment of EPA-approved standard operating procedures for groundwater, surface and subsurface soil, and surface water and sediment sampling. Representativeness of groundwater samples was achieved by the evacuation of three to five well volumes until indicator parameters of temperature, pH, and specific conductance had stabilized to within a 10 percent variance over two successive well volumes. Samples collected from all media for VOC analysis were collected with minimal agitation and the sample jars were filled to achieve zero headspace for aqueous samples and near zero headspace samples for solid samples. Non-VOC analyses soil samples were collected from an aliquot of media that had been homogenized by the EPA Region II required coning and quartering method.

This DQO was also achieved by performing appropriate equipment and personnel decontamination procedures and using dedicated sampling equipment and personnel clothing (i.e., disposable gloves). Correct equipment calibration field check procedures (HNu) contribute to the representativeness of the field screening techniques. As referenced above, the correct performance of these procedures was observed and documented during the field technical system audit.

Representativeness of potential contamination is also achieved through an appropriate sampling rationale that adequately establishes sampling points to represent the study area in question. The representativeness of the geophysical survey was enhanced by the use of the systematic survey grid that provided coverage of the entire site. Sample points for various media were determined as follows: surficial soil samples were determined by field observation (visible signs of contamination or disturbance); subsurface soil samples (collected from test pits and soil borings) were determined by the above criteria in addition to the results of the initial site characterization electromagnetic (EM) surveys (test pits were installed in the areas where the EM surveys showed geophysical anomalies, such as buried waste); monitoring well and screen placement for groundwater samples were based on regional groundwater flow direction and in areas where illegal landfilling reportedly occurred; surface water and sediments locations were selected to best represent the distribution of any contaminants that may have been present (an upstream sample was collected to indicate background concentrations; two mid point samples and one downstream sample was collected to represent site and off site conditions).

1.2.4 COMPLETENESS

Completeness is defined as the percentage of all measurements made whose results are judged to be valid using accepted standardized data validation procedures, such as the current revisions of HW-6 for organics and HW-2 for inorganics. An objective of at least 95 percent completeness for laboratory analytical results had been established in the POP. One indicator of completeness is that less than four percent of all laboratory analytical results were rejected. Therefore, the DQO of at least 95 percent completeness has been achieved. Table A-2 presents the results of

the data validation. An explanation of data with less than 95% completeness is discussed in Section 1.3.1.

1.2.5 COMPARABILITY

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. The environmental data has been generated during the RI and presented in a manner that assures comparability. Standardized sampling and analytical procedures were followed and the analytical results have been reported in consistent format and standard units of measurement, such as micrograms per liter for compounds in water and millisiemens per meter for EM survey data. The data comparability is assessed under field duplicates.

1.2.6 SENSITIVITY

The requirements for sensitivity were established in the POP and were met in accordance with each applicable analytical method. Sensitivity is defined by the method detection limits. For the TCL organics and TAL inorganics, these limits are referred to as the contract required quantitation limits and the contract required detection limits, respectively, as identified in the related CLP analytical statements of work. The detection limits for other parameters are as per the related analytical method.

1.3 DATA VALIDATION

Data validation was performed for the targeted semi-volatiles and the water quality parameters by CDM Federal EPA Region II - certified data validators following, where applicable, current versions of EPA's functional guidelines for evaluating organics (Standard Operating Procedure HW-6), and inorganics (Standard Operating Procedure HW-2). The metals and cyanide, volatile organics, semi-volatiles and pesticides/polyvinyl biphenols (PCBs) (CLP data) were validated by the EPA.

Table A-2 shows the percent of usable data (i.e., not rejected) by analytical method, based on the results of the data validation. The results of data validation appear as "qualifiers" on the data results and wherever data is discussed in the text. Table 1-2 provides a summary of data validation qualifiers and their meaning.

1.3.1 GENERAL DATA TRENDS

Organics were mainly estimated (18 % overall) for calibration exceedance, internal standard, holding time and surrogate. Elevated cooler temperatures resulted in estimated data in one sample delivery group (SDG). Other criteria such as blank contamination also resulted in the estimating of the data as well. PCBs and Pesticides were rejected or estimated mainly due to discrepancies in the sample concentrations determined on two separate analytical columns.

Inorganics: Field blank results, serial dilution and furnace criteria exceedance resulted in 3% (overall) sample rejection. Inorganic analytes were estimated mainly due to poor yields in the matrix spike, CRDL and calibration standards analysis; serial dilution recovery and field duplicate precision.

Overall the wet chemistry parameters were rejected at a 3% rate, however, there were problems with two individual analytes. Nitrate/Nitrite (NO_3/NO_2) data was rejected at a rate of 16% due to holding time exceedance and 10% for field blank contamination. The overall nitrate-nitrite rejection rate was 26%. Chemical Oxygen Demand (COD) data was rejected for holding time exceedance (7% overall).

Physical data are completely useable. Some grain size data were estimated because the laboratory did not optimize the sample pH to allow maximum particle dispersion, and also due to poor laboratory duplicate results.

1.4 QUALITY CONTROL SAMPLES

To meet QA objectives, various QC measures are performed. These QC measures include the collection, preparation and analysis of QC samples such as trip blanks, field blanks, and environmental duplicates. These QC samples measure possible factors that could influence the results reported for the environmental samples. Each type of QC sample and associated results will be discussed in the following text.

1.4.1 TRIP BLANKS

Trip blanks for aqueous volatile organic compound (VOC) samples were collected during the RI. Trip blanks are collected to measure possible volatile organic contamination that may have been introduced to environmental samples via on site atmospheric contaminants or cross-contamination during shipment or storage. These blanks are prepared with demonstrated analyte-free water (based on TCL analytical results below the CRDLs) at the start of each day of sampling for aqueous samples to be submitted for analysis for VOCs. It should be noted that regional EPA QA requirements do not require the collection of trip blanks when collecting soil samples for VOC analysis.

A total of twelve trip blanks were collected in association with aqueous environmental samples that were submitted for VOC analysis. Bromomethane, methylene chloride, chloroform and bromodichloromethane were the only VOCs detected in the trip blanks. Review of the analytical data for these trip blanks shows that most of these detections were flagged as "estimated". These data were used to qualify environmental samples for potential blank contamination. Out of the four compounds detected in the trip blanks, bromomethane was the only compound detected in the associated environmental samples. It was detected in one Round 1 sample at an estimated value. The other trip blank contaminants, chloroform, bromomethane and bromodichloromethane were not detected in the associated environmental samples. Therefore,

these compounds are not of concern with regard to the data quality in terms of sample shipment and handling. Appendix K contains the full analytical results for the QC samples.

1.4.2 FIELD BLANKS

Field blanks are collected as a measure of any cross-contamination introduced to environmental samples due to inadequately performed decontamination of sampling apparatus. Field blanks also measure any possible contamination introduced to the sample media due to the decontamination procedure itself, in particular, the use of acids and solvents such as nitric acid and acetone. Field blanks consist of demonstrated analyte-free water poured over decontaminated equipment following each decontamination event and prior to use of the lot of sampling equipment.

RI field blank data (Appendix K) and their associated environmental samples were reviewed. The presence of contaminants in the field blanks was evaluated during data validation. The unit of measurement for the field blanks is in micrograms per liter, as compared to soil results which are reported in units of milligrams per kilogram. The difference in weights, volumes and any dilution factor was considered during evaluation of the field blank results. Results which were considered as being a result of contamination from handling and/or analysis were rejected (flagged "R" for inorganics) or considered a non-detect value (flagged "U" for organics). Therefore, since all the inorganic and organic sampling results for this RI were validated, the data reported in Appendix K are all useable for data interpretation.

The field blank results are as follows. In the volatiles analyses, chloromethane, chloroethane, methylene chloride, acetone, carbon disulfide, chloroform, 2-butanone, bromodichloromethane and trichloroethene were detected in the field blanks. Again, most of these results were below the reporting limit and were estimated, except for chloroform (23 ug/l - 47 ug/l). In the field data, methylene chloride, acetone, carbon disulfide, 2-butanone, and trichloroethene were detected.

In semi-volatile Round 1 data, phthalate blank contamination was seen at low levels (below reporting limit of 10 ug/l) with the exception of FB09 (160 ug/l). Very low levels of PAHs (0.9 - 1.0 ug/l) were reported as estimated in one field blank, FB12. No hits were detected in the semi-volatile analyses of field blanks for Round 2.

A few occurancies of pesticide/PCB show up in the Round 2 field blank results. The results are all less than the reporting limits. There were no hits in the round 2 environmental sample results.

Although several analytes were found at values below the CRDL in the metals analyses, the field blank results do not appear to have affected the value of detections found in either the soil or water samples except for some surface soil samples. As a result, chromium, nickel, potassium and Sodium results in surface soil samples SS01 through SS18 were rejected.

There were no detection of any targeted organic compounds in the field blank analyses .

In the water chemistry analyses, high levels of nitrate/nitrite contamination was detected in the field blank associated with the Round 2, November 13, 1995 sampling event. This resulted in five associated samples being rejected since their results were up to five times the field blank level. The contamination source is unknown since sulfuric acid is used as the preservative and the field blank was collected prior to sample collection. Laboratory contamination is suspected in the samples that were not rejected since the level of NO_3/NO_2 is exceptionally high and Round 1 results were non-detects or close to the detection limit.

1.4.3 FIELD DUPLICATES

The Table A-4 shows the field duplicate pairs collected and their results.

It should be noted that several of the compounds showing poor precision are detected below the sample detection limit. There is inherent uncertainty in values just above or below the detection limits.

The field duplicate results did not eliminate any data, all were useable.

TABLE A-1
FIELD MODIFICATIONS
FOREST GLEN SITE
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Document/Section	Modification
1. Revised Final Project Operations Plan (POP)/Section 5.13.3, Page 5-45, Surface Water Flow Measurements	The POP stated that flow velocity will be measured in East Gill Creek during both sampling rounds. **Modification** Due to low flow conditions in East Gill Creek, flow velocity measurements were only collected during Round 2.
2. Revised Final POP/Section 5.13.3, Page 5-45 , No. 1 Surface Water Flow Measurements	The POP states that the stream will be partitioned into sections and flow measurements will be collected at each section. **Modification** Due to narrowness of East Gill Creek and the minimal flow conditions, measurement was made at select sampling locations during Round Two.
3. Revised Final POP/Section 5.4.1.2, Shallow Electromagnetic Survey - Procedures	The POP states that measurement stations would be located at each node and at 5-foot increments between the nodes. **Modification** After the completion of several test line segments, it was determined that a 5-foot station spacing was not appropriate for this site due to its large size. Readings were taken at 10-foot intervals and every 5 feet in areas of particular interest. The instrument was left on between stations to ensure that no small-scale anomalies were missed. One of the advantages of the EM31-D is that the instrument can be read continuously.
4. Revised Final POP/Section 5.4.2, Deep Electromagnetic Survey	The POP states that the deep electromagnetic survey would be conducted with an EM34-3 terrain conductivity instrument operated in the horizontal dipole mode. **Modification** One of the main purposes of performing the EM34-3 was to provide relative estimates of depth to bedrock and to investigate the potential existence of bedrock fracture zones. For this reason, it was determined that both horizontal and vertical dipole measurements should be collected, rather than just horizontal dipole readings as stated in the POP.
5. Revised Final POP/Section 5.4.2.2, Deep Electromagnetic Survey - Procedures	The POP states that measurement stations would be located at each node and at 5-foot increments between the nodes. **Modification** Readings were taken at 25-foot intervals and at every 12.5 feet in areas of particular interest. Measurements at 5-foot intervals using the EM34-3 would be very time-consuming given the size of the site.

TABLE A-1
FIELD MODIFICATIONS
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Document/Section	Modification
6. Revised Final POP/Section 5.4.2.2, Deep Electromagnetic Survey - Procedures	The POP states that three measurements, one at each of the predetermined intercoil spacing 10 meters, 20 meters, and 40 meters would be made at each measurement station. **Modification** The 10-meter coil spacing readings were not collected. The effective exploration depths of the 10-meter coil spacing are 24.6 and 49.2 feet for the horizontal and vertical dipole modes, respectively. The 24.6-foot depth investigation is covered by the vertical dipole measurement collected from the EM31-D instrument while the 49.5-foot depth investigation is covered by the 20-meter coil spacing in the horizontal mode. The 20-meter and 40-meter horizontal and vertical dipole readings were collected along all grid lines, not just the coarser grid specified in Figure 4-2 of the POP. This ensured greater density of geophysical coverage. The 40-meter readings could not be obtained from east-west lines at the northernmost edge of the north grid. The grid lines at this location are only 150 feet long. Thus, measurements were collected at grid nodal points only.
7. Revised Final POP/Section 5.4.3.2, Seismic Refraction Survey Procedures	The POP states that geophone cables will be laid out and connected end to end along each grid line to the ground. **Modification** All spreads could not be completed along grid lines defined in the POP. Field conditions were such that spreads had to be laid down around obstacles such as mobile homes, fences, concrete/asphalt, trees/bushes, etc. In addition, at the time of the survey, standing water was observed at the southern end of the South Grid, near the grid line starting at grid node 1.0, 0.0 and running west. Thus, geophones could not be seated in the ground in this general area. The actual coverage of the seismic refraction survey is indicated by the thick lines in Figure 2-2 of the RI Report.
8. Revised Final POP/Section 5.8.3.1, Page 5-22, No. 3, Deep Bedrock Monitoring Well Installation	The POP states that eight-inch ID Schedule 5 stainless steel surface casing will be sealed in the lodgement till with emplacement of 2.5 feet of pellets added to a level equal to or above the lodgement till. Following the emplacement of the bentonite footing, the remaining annular space will be backfilled with cement bentonite grout. **Modification** The bentonite seal was not used since the casing was seated directly in the bedrock.

TABLE A-1
FIELD MODIFICATIONS
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Document/Section	Modification
9. Revised Final POP/Section 5.8.3.1, Page 5-22, No. 4, Deep Bedrock Monitoring Well Installation	The POP states that the bedrock section of the borehole will be logged via the acquisition of NX gauge cores and that the cores will be retrieved in five foot sections. **Modification** The bedrock section of the borehole was logged through the eight-inch casing via the acquisition of HQ (four-inch nominal diameter) gauge cores. The use of HQ gauge cores allowed for the creation a four-inch open borehole and thereby eliminated the need to redrill the proposed two-inch, NQ gauge hole with four-inch diameter air rotary. In an effort to expedite the drilling process, the cores were retrieved in up to ten foot sections instead of the proposed five foot sections.
10. Revised Final POP/ Section 5.8.3.1, Page 5-24, No. 9, Deep Bedrock Monitoring Well Installation	The POP states that the borehole will be reamed to a minimum diameter of four inches, and will be completed as an open borehole. **Modification** Since the borehole was cored using a four-inch diameter HQ core, the need to ream the open hole using air rotary was eliminated.
11. Revised Final POP/ Section 5.8.3.2, Page 5-24, No. 1, Shallow Bedrock Monitoring Well Installation	Same as Deep 1
12. Revised Final POP/ Section 5.8.3.2, Page 5-24, No. 3, Shallow Bedrock Monitoring Well Installation	Same as Deep 3
13. Revised Final POP/ Section 5.8.3.1, 5-22, No. 1, Deep Bedrock Monitoring Well Installation	The POP states that the overburden borehole will be advanced with an air rotary drilling rig. A 12-inch inner diameter (ID) temporary steel casing will be advanced to and sealed in the lodgement till. **Modification** The overburden borehole was advanced with 10.25-inch ID hollow stem augers to refusal on the top of bedrock which eliminated the need for 12-inch ID temporary steel casing.
14. Revised Final POP/Section 5.8.3.3, Page 5-26, No. 2, Overburden Monitoring Well Installation	The POP states that four-inch diameter Schedule 5 stainless steel casing and ten feet of stainless steel screen will be inserted into the borehole. **Modification** Five-feet of screen was used in both the overburden and perched water well due to the shallow and thin nature of the monitoring zones

TABLE A-1
FIELD MODIFICATIONS
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Document/Section	Modification
15. **Revised Final POP/ Sections 5.10, Page 5-30, Continuous Water Level Measurements**	The POP states that continuous water level measurements will be collected from the three East Gill Creek staff gauge locations and two well clusters. Modification Continuous water level measurements were not collected from the three staff gauge locations due to low flow conditions in East Gill Creek. Additionally, water level measurements were collected from three monitoring well clusters since East Gill Creek was not monitored.
16. **Revised Final POP/Section 4.0, Table 4-3, Quality Assurance Sample Table**	Table 4-3 in the POP indicates that field blanks would be collected from the drive-point sampling apparatus. **Modification** It was determined, with EPA approval, that field blanks were not necessary since sample data would be used for screening purposes only.
17. **Section 4.0, Figure 4-3, Proposed Drive-Point Locations**	Figure 4-3 in the POP indicates that locations DP-033 and DP-034 were located in the northern aspect. **Modification** Locations DP-033 and DP-034 were relocated from the northern aspect to the subdivision in an effort to further delineate the suspected source area. DP-033 and DP-034 are now located at the grid nodes located to the north of locations DP-017 and DP-018, respectively.

TABLE A-1
FIELD MODIFICATIONS
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Document/Section	Modification
18. Revised Final POP/Sections 5.5.3 and 5.5.4 Drive-Point Subsurface Soil Sampling and Drive Point Shallow Groundwater Sampling	The POP states that one subsurface soil sample will be collected from the 2-foot interval above the water table (approximately 10 feet BGS). Additionally, the POP states that continuous split-spoon samples will be collected to the top of the till. **Modification** As no overburden water table was encountered, samples were generally collected from the first split-spoon interval that indicated the presence of till. Drilling activities also ceased at this interval. In areas where visual contamination and perched water conditions were obvious, boreholes were advanced to 2-feet into the naturally occurring clay layer. Drilling activities were then terminated at this point and analytical samples collected. This was done in an effort to prevent the vertical migration of contamination. The clay observed in the borings appeared to be less permeable than the till observed. Prior to the subsurface investigation, it was thought the till encountered on site would be a compact and highly impermeable matrix. Boreholes were advanced to the bedrock at locations DP-001, DP-002, DP-004, DP-005, DP-006, DP-008, and DP-031 to confirm the absence of the anticipated stony hardpan (lodgement) till and to characterize the till encountered in the borings. At these locations, samples were collected from the till interval above the bedrock.
19. Revised Final POP/Section 5.5.4, Drive-Point Shallow Groundwater Sampling	The POP states that shallow groundwater samples will be collected by advancing the drive-point sampling apparatus approximately two feet in advance of the borehole. **Modification** CDM Federal attempted to collect a groundwater sample via the drive-point sampling method at location DP-007. Due to the overburden conditions encountered onsite, generally tight clay formations, the CDM Federal hydrogeologist determined that overburden groundwater flow was unlikely. Therefore, CDM Federal made no further attempts to sample the overburden groundwater using the drive-point method.
20. Technical Memo/Section 5.2, Page 5-2	The Technical Memorandum states that the boring installed in the berm would be advanced to the top of the clay till layer. **Modification** Due to the thickness of the fill material in the berm and the limitations of the all terrain vehicle that was used, borings were only advanced two feet into the naturally occurring clay layer.

TABLE A-1
FIELD MODIFICATIONS
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Document/Section	Modification
21. Technical Memo/Section 5.2, Page 5-2	The Technical Memorandum proposed that only one subsurface soil sample be collected from each berm boring location. **Modification** CDM Federal collected one additional subsurface soil samples from boring locations BERM 2 and BERM 3 where visual contamination was noted in the soil column.
22. Technical Memo/Section 5.2, Page 5-2	The Technical Memorandum stated that three borings would be installed in the northern aspect where distinct high conductivity electromagnetic anomalies were noted during the geophysical survey. **Modification** One of the three borings (SB-01) was completed in its proposed location while the other two borings (SB-02, SB-03) were relocated to delineate the horizontal and vertical extent of the fill material encountered during test pit activities.
23. Technical Memo/Section 5.2, Page 5-2	The Technical Memorandum stated that 16 borings would be installed in the wooded lots north and south of Edgewood Drive and that a surface and subsurface soil would be collected from each location. **Modification** Borings SB-EXP, SB Center were added to assist in the delineation effort. One additional subsurface soil sample was collected from location SB-14, where visual contamination was noted in the soil column.
24. Technical Memo/Section 5.1, Page 5-1.	The Technical Memorandum stated that six surface soil samples would be collected from the two covered waste piles on Carrie Drive. **Modification** CDM Federal collected only four of the six proposed samples. Two samples located in the northern soil pile were not collected since its cover was intact and CDM Federal did not want to compromise the material's integrity.
25. Technical Memo/Section 5..1, Page 5-1	The Technical Memorandum stated that three surface soils would be collected from the small trash mound located on a grassy area east of T Mark Drive, south of its intersection with Edgewood Drive. **Modification** During field activities, CDM Federal determined that the trash mound was generally composed of bagged tyvek and grass cuttings. Analytical samples were therefore not collected from the proposed locations in this area. The origin of this disposal remains unknown.

TABLE A-1
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Document/Section	Modification
26. Technical Memo/Section 5.1, Page 5-1	The Technical Memorandum stated that the surface soil background samples would be collected from Expressway Village. **Modification** Due to problems in obtaining access to Expressway Village, CDM Federal collected the background samples from an area south of the site, on the Forest Glen property, and north of Expressway Village. The soil in this area was similar to site soils and was reportedly unimpacted by site activities.
27. Technical Memo/Section 5.3, Page 5-3	The Technical Memorandum stated that 10 test pits would be excavated in the northern aspect to characterize anomalous areas that were identified during the electromagnetic surveys. **Modification** CDM Federal excavated two additional test pits (TP-EXP, TP-EXP2) to further delineate the nature and extent of the detected fill material.
28. POP Addendum No. 2./Section 5.16.3.2, No. 3, Page 4	The Technical Memorandum stated that each test pit would be excavated to the top of the clay fill. **Modification** CDM Federal, based on field observations, determined that the native clay encountered during trenching activities was competent and undisturbed. It was therefore unnecessary to excavate to the top of the clay till. Additionally, at those locations where visual contamination or waste material was noted, the test pit was excavated only two feet into the clay to minimize the potential for the vertical migration of contaminants.
29. POP Addendum No. 2 Section 5.16.3.2, No. 6, Page 1	The Revised POP Addendum No. 2 stated that a disturbed sample would be collected directly from the backhoe bucket using a decontaminated stainless steel trowel and bowl. **Modification** At test pit locations where waste or fill material was encountered, CDM Federal collected the required sample volume from both the backhoe bucket and the excavated soil pile. This was done in an effort to collect a more representative sample.

TABLE A-1
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Document/Section	Modification
30. Revised Final POP/ Section 5.12.1, No. 5, Page 5-35	The POP stated that three to five well volumes would be purged from each well prior to sampling. **Modification** Due to low water levels in wells MW-30B during both sampling rounds and MW-3PW during Round One sampling, CDM Federal was unable to purge the wells of the minimum required three volumes. In an effort to obtain analytical information, the wells were purged to dryness with decontaminated Teflon baiters. Excavated water was collected in sample bottles designated for targeted organics, TAL metals and TCL volatile organic compounds.
31. Revised Final POP/Section 5.14, Aquifer Testing	The POP states that two types of aquifer tests be conducted at the site, slug tests and a long-term pump test. **Modification** As no overburden water table was encountered during the initial site characterization, it was determined that aquifer testing would not be required for the study.
32. Revised Final POP/Section 5.15.2.2, Wetland Delineation Procedures	The POP states that the delineation follow methodologies stated in the 1989 Federal manual for identifying Delineating Jurisdictional Wetlands. **Modification** The wetland delineation methodology followed was from the 1987 Corps of Engineers Wetland Delineation Manual (Environmental Laboratory, 1987), as currently recommended by EPA.

TABLE A-2
RESULTS OF DATA VALIDATION
FOREST GLEN SITE
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ANALYSIS	NUMBER OF SAMPLES*	PERCENT USABLE
TAL/Metals and Cyanide	208	97
TCL/Volatile Organics	214	100
TCL/Semi-volatiles	206	98
TCL/Pesticides	206	97
TCL/PCBs	206	99
Targeted Semivolatiles	327	86**
Alkalinity	12	100
pH	161/158	100
Ammonia	33	100
Total Solids	181	100
Total Dissolved Solids	51	100
Total Kjeldahl Nitrogen	41	100
Chemical Oxygen Demand	42	93
Biological Oxygen Demand	39	100
Total Organic Carbon	217	100
Acid Sulfide	32	100
Nitrate/Nitrite	33	74
Grain Size	1425	100
Hardness	12	100

* Totals include Round 1 and Round 2

** - Although 16% of the data was rejected, 12% of the rejected data was due to unavailability of standards for 2 (3H)Benzothiazole and 2 (3H) Benzothialzolethione which resulted in zero response for these compounds in the calibration. Therefore, the actual rejection rate for targeted semivolatiles is 4%. The analysis of targeted semivolatiles met the 95% completion goal for the analysis.

TABLE A-3
DATA VALIDATION QUALIFIERS
FOREST GLEN SITE
NIAGARA FALLS, NEW YORK

Organic Qualifiers:

U - Compound was analyzed for but not detected. The associated numerical value is the sample quantitation.

J - Estimated data due to exceeded quality control criteria.

N - Presumptive evidence of a compound.

P - The difference for detected concentration of a pesticide/Aroclor target analyte is greater than 25% between the two Gas Chromatagraph (GC) columns.

C - Identification of pesticide results was confirmed by GC/Mass Spectrometer (MS).

B - Analyte is found in the associated blank and in the sample.

E - Compound concentration exceeds the calibration range of the GC/MS instrument for that specific analysis.

D - Compound is identified at a secondary dilution factor.

A - Tentatively Identified Compound (TIC) is suspected aldol - condensation product.

R - Data is rejected due to exceeded quality control criteria.

Inorganic Qualifiers:

B - Reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Analyte was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference.

M - Duplicate injection precision not met.

N - Sample recovery is 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.

R - Data is rejected.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

TABLE A-4
FIELD DUPLICATES
FOREST GLEN SITE
NIAGARA FALLS, NEW YORK

Media	Field Duplicate ID	Analytes Showing Poor Precision	Action
Surface Soils	DP036-DP026-SS	Few targeted semivolatiles analytes Pesticide alpha-chlordane Potassium	Data estimated
	DP037-DP032-SS	Heptachlor Manganese and Cobalt	Data estimated
	SB20 - SB07-SS	The CLP semivolatile*1 and a few compounds in the targeted SV*2	None taken
	SB23 - SB15-SS	Pyrene %D 133	Data estimated
Subsurface Soils	MW11 - MW1	Lead	none taken, RPD below critical value (<100%)
	DP035 - DP033S	All semivolatiles hits Pyrene - TSVOCs Cadmium, mercury and zinc	Data estimated
Test Pit Samples	TP-11 - TP-06; TP-12 - TP08	2 detects in TP-12 are non-detects in TP-08	Data estimated
East Gill Creek Rounds 1 and 2	GCSW5 - GCSW3; GCSD5 - GCSD3	Zinc above 50% RPD	none taken, RPD below critical value (<100%)
Sediment	WTSD11-WTSD10	None	none required

*2 Semivolatile (SV) compounds pyrene, perylene and acenapthene RPD > 100

APPENDIX B

GEOPHYSICAL SURVEYS

APPENDIX - GEOPHYSICAL SURVEY

1.0 GEOPHYSICAL SURVEY PROCEDURES

CDM Federal conducted geophysical survey activities at the Forest Glen site from June 6 through June 22, 1994 and from November 14 through November 18, 1994. The purpose of the geophysical investigation was to gain initial information on the subsurface geology and to detect and identify buried drums and waste, if any.

CDM Federal determined that electromagnetic and seismic refraction surveys would achieve the objectives of the initial site characterization. Electromagnetic surveys (shallow and deep) were conducted over the North Grid where minimal interference was anticipated. Seismic refraction was used in the South Grid because of the presence of the mobile homes, fences, and utilities, which create excessive anomalous interference for the electromagnetic surveys.

1.1 ELECTROMAGNETIC SURVEYS

1.1.1 Discussion

The electromagnetic (EM) method provides a means of measuring the electrical conductivity of subsurface soil, rock, and groundwater. Electrical conductivity is a function of the type of soil and rock, its porosity, its permeability, and the types of fluids that fill the pore space. Geologic materials are characterized by their electrical characteristics. As such, lateral and vertical variations in conductivity generally indicate a change in subsurface conditions. The Niagara Falls area generally contains a relatively conductive (clay-rich) overburden overlying a resistive (low porosity) dolomite. Vertical fractures in the dolomite that are filled with water and clay appear as vertical, sheet-like conductors.

The EM data interpretation is generally subjective; that is, measured EM values are contoured or profiled to identify high- or low-conductivity areas. Conductivity values obtained by an EM survey are relative values and depth estimates to conductive surfaces or bodies are best accomplished with onsite calibration against known ground conditions.

Because the EM technique measures the electrical properties of the subsurface, measurements are subject to interference from buried waste and metallic objects such as drums and utility lines.

The principle behind the EM method is described in detail in Geonics Technical Notes TN-5 and TN-6 (McNeill 1980a, 1980b). To summarize, a transmitter coil energized with an alternating current at an audio frequency is placed on the ground surface and a receiver coil is located a short distance away in the same plane as the transmitter. The transmitter causes a time-varying magnetic field, which induces small electrical currents in the subsurface. These currents in turn generate a secondary magnetic field, which is sensed by the receiver coil. This secondary magnetic field is a function of the intercoil spacing, the operating frequency,

and the ground conductivity. The ratio of the secondary field generated to the primary magnetic field is mathematically proportional to the terrain conductivity; thus, a direct reading of conductivity is obtained.

At the Forest Glen site, two types of electromagnetic surveys were applied: EM34-3 and EM31-D. The EM34-3 instrument has two flexibility connected coils and requires two people to operate it. The intercoil spacing is measured electronically so that the receiver operator reads a meter to accurately set the coils at the correct spacing. The coils can be carried with their planes vertical (horizontal dipole mode) or with their planes horizontal (vertical dipole mode).

EM34-3 can be operated at three fixed coil spacings (10, 20, and 40 meters) with both coils in either the vertical or horizontal position. The depth of exploration varies with intercoil spacing as shown below:

Intercoil Spacing (m)	Exploration Depth (ft)	
	Horizontal Dipoles	Vertical Dipoles
10	24.6	49.2
20	49.2	98.4
40	98.4	196.8

For the purpose of this report, intercoil spacing will be presented in metric units, as the instrument operating manuals use metric terms. Exploration depths are provided in English units for ease of reference.

To measure terrain conductivity, the transmitter operator stops at the measurement station. The receiver operator moves the receiver coil backward or forward until a meter reading indicates correct intercoil spacing. The terrain conductivity is then read off a second meter. Readings are made in millisiemens per meter (ms/m).

The EM31-D instrument has a fixed intercoil spacing of 3.6 meters, which yields an effective depth of exploration of about 19.7 feet in the vertical dipole mode and 32.5 feet in the horizontal dipole mode. This single unit can be operated by one person and can be used to collect data on a station-by-station basis or in a continuous mode.

The approach used at the Forest Glen site is identical to that used in a joint USGS/EPA study (Yager and Kappel 1987), which showed that electromagnetic anomalies in the Niagara Falls area can be mapped and delineated using EM instrumentation. The study focused on detecting fractures in the Lockport Dolomite.

1.1.2 Field Procedures

The electromagnetic survey was conducted in the North Grid of the site (Figure 1-1). The grid nodes served as reference starting points for all of the geophysical surveys completed at the site.

Generally, the procedures described in the Forest Glen Revised Final Project Operations Plan (POP) (June 1994), were implemented for both the EM34-3 and the EM31-D methods. Field conditions encountered during surveying suggested that some of the procedures described in the POP could be improved for better data collection and/or to reduce the time required to collect data while maintaining data integrity and fulfilling survey objectives.

1.1.2.1 Modification to EM31-D Survey

- After the completion of several test line segments, it was determined that a 10-foot station spacing was appropriate for this site. Readings were taken at 10-foot intervals and at every 5 feet in areas of particular interest. The instrument was left on between stations to ensure that no small-scale anomalies were missed. One of the advantages of the EM31-D is that the instrument can be read continuously.

1.1.2.2 Modifications to EM34-3 Survey

- The 10-meter coil spacing readings were not collected. The effective exploration depths of the 10-meter coil spacing are 24.6 and 49.2 feet for the horizontal and vertical dipole modes, respectively. The 24.6-foot depth investigation is covered by the vertical dipole measurements collected from the EM31-D instrument (effective depth 19.7 feet), while the 49.5-foot depth investigation is covered by the 20-meter coil spacing in the horizontal mode (effective depth 49.2 feet).

- One of the objectives of the EM34-3 survey was to identify the potential existence of bedrock fracture zones. For this reason, it was determined that both horizontal and vertical dipole measurements should be collected, rather than just horizontal dipole readings, as stated in the POP.

- Readings were taken at 25-foot intervals and every 12.5 feet in areas of particular interest. Measurements at 5-foot intervals using the EM34-3 would be very time-consuming, given the size of the site.

- The EM34-3 20-meter and 40-meter horizontal and vertical dipole readings were collected along all grid lines, not just along the coarser grid, as specified in Figure 1-2 of the POP.

- The 40-meter readings could not be obtained from east-west lines at the northernmost edge of the North Grid. The grid lines at this location are only 150 feet long while the cable length on a 40-meter survey is 131.23 feet long. Thus, measurements were

collected at grid nodal points only.

It should be noted that almost all of the data collected were stored in the field using an electronic data logger. All data were also recorded in the field logbook. At the end of each grid line, the data were reviewed for completeness and the locations of any anomalies were marked in the field with pinflags. The data were periodically transferred to electronic spreadsheets on laptop computers.

During data interpretation, the New York State Plane coordinate of each grid node was obtained from the surveyor's site plan. The State Plane coordinates for each measurement station were then determined by interpolation between the known grid node coordinates.

1.2 SEISMIC REFRACTION SURVEY

1.2.1 Discussion

The seismic refraction technique is commonly used on hazardous waste sites. In the refraction method, the travel times of refracted acoustic waves traveling through various geologic materials are measured. Most geologic materials possess the ability to transmit sound waves. The speed at which a material transmits sound waves is known as the material's seismic velocity. The field data consist of measured distances and seismic travel times. The interpretation of seismic refraction data may provide information on depths and changes in lithology, geologic structures, and water saturation (water table).

Ranges of seismic velocities for different types of geologic materials are well defined in literature (Benson et al. 1982; Dobrin 1988). The geology of the Forest Glen Site consists of lacustrine clays and silts overlying a clay till, which in turn overlies the Lockport Dolomite. The seismic velocity of dolomite is generally higher than that of till, which in turn has a higher seismic velocity than unconsolidated clay and silt. In theory, this geologic setting is suited for exploration via seismic refraction. Barring the presence of geologic conditions adverse to refraction surveys, refraction data are generally accurate to within 5 to 10 percent of actual depth.

1.2.2 Field Procedures

The locations of the seismic survey lines are presented in Figure 1-2. This configuration allows for correlation between the borehole logs and the intervening seismic refraction profiles. A 24-channel seismograph (StrataView™ model) and twenty-four 10-Hz geophones were used for this survey. Linear 12-geophone or 24-geophone arrays were completed, depending on coverage requirements.

The seismic refraction field procedures generally used during this survey are fully detailed in the POP. These procedures correspond directly with those presented in the Geometrics manual (1993). Modifications to the procedures described in the POP are listed on Table 2-1 and are fully explained below:

- All spreads could not be completed along grid lines defined in the POP. Field conditions were such that spreads had to be laid down around obstacles such as mobile homes, fences, concrete/asphalt, trees/bushes, etc. In addition, at the time of the survey, standing water was observed at the southern end of the South Grid, near the grid line starting at grid node 1.0,0.0 and running west. Thus, geophones could not be seated in the ground in this general area.

A typical 24-geophone spread, with shot point locations, is shown in Figure 1-2. The location of each geophone with reference to the closest grid node point was noted in the field log book. The locations of geophone number 1, the seismic line midpoint, and geophone number 24 were marked in the field with orange pinflags.

A sledge hammer and a steel shock plate were used to generate the seismic sound wave. Forward, reverse, and central shots were generated to allow for the interpretation of refractor dip angles and directions during the data analysis. For the forward and reverse shots, the shot point was located approximately 10 feet off the end of the line. Often, more than one shot point was used at the end points of the geophone spread.

The shot point for the center shots was located approximately midway between geophones 12 and 13. For each shot (forward, center, and reverse) an initial shock wave was generated and the resulting refracted wave was viewed on the seismograph screen. The shot was then repeated and the resulting data was stacked to increase the signal-to-noise ratio according to the procedures described in Geometrics (1993). The data were stacked until the first arrival times at each geophone were relatively clear and background noise was minimized to the extent possible. The data were plotted on the seismograph's field printer and saved on the hard drive of the seismograph's on-board computer. At the end of each field day, all data were copied from the StrataView™ hard drive to back-up diskettes.

2.0 GEOPHYSICAL SURVEY RESULTS

2.1 ELECTROMAGNETIC SURVEYS

2.1.2 EM31-D Survey

Terrain conductivity values measured in the field are presented in this Appendix for the horizontal and vertical dipole modes, respectively.

Because of the limited depth of penetration of the EM31-D instrument, readings are primarily of the overburden in the North Grid. The northern aspect can be divided into two portions based on instrument response: a higher conductivity area in the northwestern portion of the North Grid and a lower conductivity area in the south-central portion of the North Grid. The higher conductivity area appears to be associated with a berm located along the western perimeter of the North Grid. A railroad yard is located west of the North Grid. The higher conductivity values measured are most likely associated with debris and fill material. Walking

across the north end of the grid, the EM operators noted pieces of concrete at the surface along with small metal pipes and other debris. Thus, the higher conductivity values are not interpreted to be caused by an increasing overburden thickness, a more clay-rich soil, or other natural features.

Within the higher conductivity area, small-scale conductivity anomalies were observed close to the berm. These anomalies were confirmed by sudden, small in-phase reversals on the EM31-D instrument. The in-phase component is a measure of the ratio of the induced magnetic field (caused by the EM-31D instrument) to the primary magnetic field. The in-phase component is significantly more sensitive to large metallic objects (such as drums) than the quad-phase component used for ground conductivity measurements. In-phase reversals commonly occur over metallic objects. Because no large-scale anomalies were noted, the potential for buried drums or other large metallic objects is considered low. More likely, the observed anomalies were caused by smaller metallic objects such as the cut pieces of pipes and concrete rebar observed at the surface during the survey.

The broad, lower conductivity area in the south-central portion of the North Grid is likely to be representative of natural overburden conditions, and may be caused by a lower clay content within the soils, reduced moisture content, or reduced overburden thickness. Near the southwestern corner of the grid, three larger, low-conductivity anomalies appear. The easternmost of these is explained by the presence of a soil pile; the other two may represent areas with buried metal. Because they are near the chainlink fence, the extent of these anomalies were obscured and could not be delineated during this survey. Other large negative anomalies appear near a large signpost located near grid nodes 3.0,0.0 and 3.5,-0.5. These anomalies are associated with a soil pile and observed metallic objects on the ground, respectively. The eastern portion of the North Grid contains several old fence post structures left in the ground.

Other anomalies are caused by the chainlink fence and an east-west trending pipeline just north of East Gill Creek, as well as the fence along East Gill Creek.

Line profiles of conductivity for the north-south trending grid lines are presented in this Appendix.

2.1.2 EM34-3 Survey

The EM34-3 instrument was used in the horizontal dipole mode to map lateral changes in near-surface material conductivity and thickness, and in the vertical dipole mode to detect and map potential fracture patterns and zones in the Lockport Dolomite within the North Grid. The site contains a relatively conductive (clay-rich) overburden overlying a resistive (low-porosity) dolomite. Vertical fractures in the dolomite that are filled with water (and/or clay) will behave and appear as sheet-like, vertical conductors. A generalized vertical section of the EM34-3 target, electrically conductive fractures, along with the theoretical response expected from such a feature, are presented in Figure 2-1.

Generally, no linear conductive zones can be discerned from the geophysical data. Two alternate conclusions could be drawn:

1. Large-scale fracture patterns are not present beneath the North Grid.

2. A station spacing of 25 feet is too large to detect fracture patterns.

The former conclusion, which is the more likely explanation for the lack of obvious linear features, was tested in the field by periodically shortening the station interval to 12.5 feet across suspected anomalies.

The 20-meter results, particularly the horizontal dipole survey (less depth penetration), confirm results obtained with the EM31-D instrument. In the vertical mode, overburden effects are lost because greater depth penetration measures the more resistive bedrock. In both 20-meter surveys, a single conductivity-high occurs immediately north of the chainlink fence, near grid node 1.5,0.0. Its cause is unknown, and it cannot be correlated with any other highs on other survey lines.

Although causes for low-conductivity anomalies to the southwest are unknown, they may represent buried metal in the overburden.

Forty-meter horizontal dipole mode results confirm the EM31-D results. In the 40-meter vertical mode, overburden effects are lost. Also, a higher conductivity area appears in the south-central portion of the North Grid. This may be associated with higher conductivity bedrock at a greater depth; however, this cannot be confirmed without test borings. Causes for the low-conductivity anomalies observed to the southwest remain unknown.

Reliable 40-meter results could not be obtained south of the chainlink fence because of interference effects.

Line profiles of conductivity for the north-south trending grid lines are presented in this Appendix. While no large-scale fracture patterns were identified in the line profiles, potential locations of vertical fractures are indicated by the arrow locations on the figures presented in this Appendix.

2.2 SEISMIC REFRACTION SURVEY

A total of 4,320 feet of seismic refraction profiling was completed during this study. Seismograms obtained during the field study were plotted, processed, and interpreted using the Seismic Interpretation Program Two (SIPT-2 ™) processing package. SIPT-2 was originally developed by Scott et al. (1972). It uses a two-dimensional modeling process in which the time delay method is used to obtain an initial approximation of the model layers. Iterative ray tracing is then used to refine the model. This procedure compares field-measured travel times against computed ray travel times for the model. In turn, this comparison is done iteratively to minimize discrepancies between the measured and computed times.

The input to SIPT-2 included shot location and elevation, geophone location and elevation, and first arrival times with their representative layers. Given that the site topography is generally flat, elevation corrections were not made to the shotpoint and geophone locations. The arrival times of refracted waves were selected by visual inspection of the data on the computer screen using SIPT-2's graphic enhancement capabilities. Seismic velocities were calculated using the inverse slope of a line connecting points representing the same layer. The output of SIPT-2 includes velocity data, ray tracing data, and the depth to each layer below each geophone. Also included in the output is a geological cross-section of the seismic profile.

Seismograph records printed in the field as well as survey interpretation results and associated profiles are presented at the end of this Appendix.

The seismic refraction survey indicates that three seismic layers were identified beneath the subdivision based on known regional geology and observed seismic velocities. These layers are identified in the following table.

Seismic Velocity (ft/sec)	Approx. Depth (ft)	Description
< 1000-2000	0-10	shallow, dry lacustrine clay
3000-9000	5-30	dense till, partially to fully saturated
7000-18000	15-40	bedrock (dolomite)

The overlap of depths to the various geologic layers shown in the table is due to varying depths to the different contacts across the subdivision.

3.0 GEOPHYSICAL SURVEY LIMITATIONS

3.1 ELECTROMAGNETIC SURVEYS

The following interference effects were noted during the electromagnetic surveys.

1. The chainlink fence near the southern end of the North Grid caused interference in electromagnetic response. Large interferences were encountered near the fence, but diminished at a distance of 50 feet. Readings appeared to be relatively unaffected at distances greater than 75 feet from the fence. For this reason, readings were not collected close to the fence on all lines surveyed, and interpreted contour values closest to the fence should be regarded with caution. The interference generally appeared most pronounced for the vertical dipole measurements.

2. The interference effects of power lines were observed on EM readings taken along the eastern end of the North Grid. The power lines are associated with two large advertisement signs on the property. The power lines had a relatively small effect on the magnitude of EM readings; however, there was a distinct qualitative effect on the instrumentation. This was evidenced by fluctuations in the meter readings over time at the 40-meter coil spacing with the EM34-3 instrument. Forty-meter values obtained along the eastern end of the North Grid, therefore, represent averages over a specified time interval. A field check was performed for instrument overloading by reducing the sensitivity switch by one position (i.e., going to the next highest conductivity range). In all instances, readings were the same, indicating overload did not occur.

3. Interference was also noted from the major highway (Route 190), which runs along the eastern edge of the grid. The slope and culverts associated with the highway affected readings in the northern portion of the grid.

3.2 SEISMIC REFRACTION SURVEY

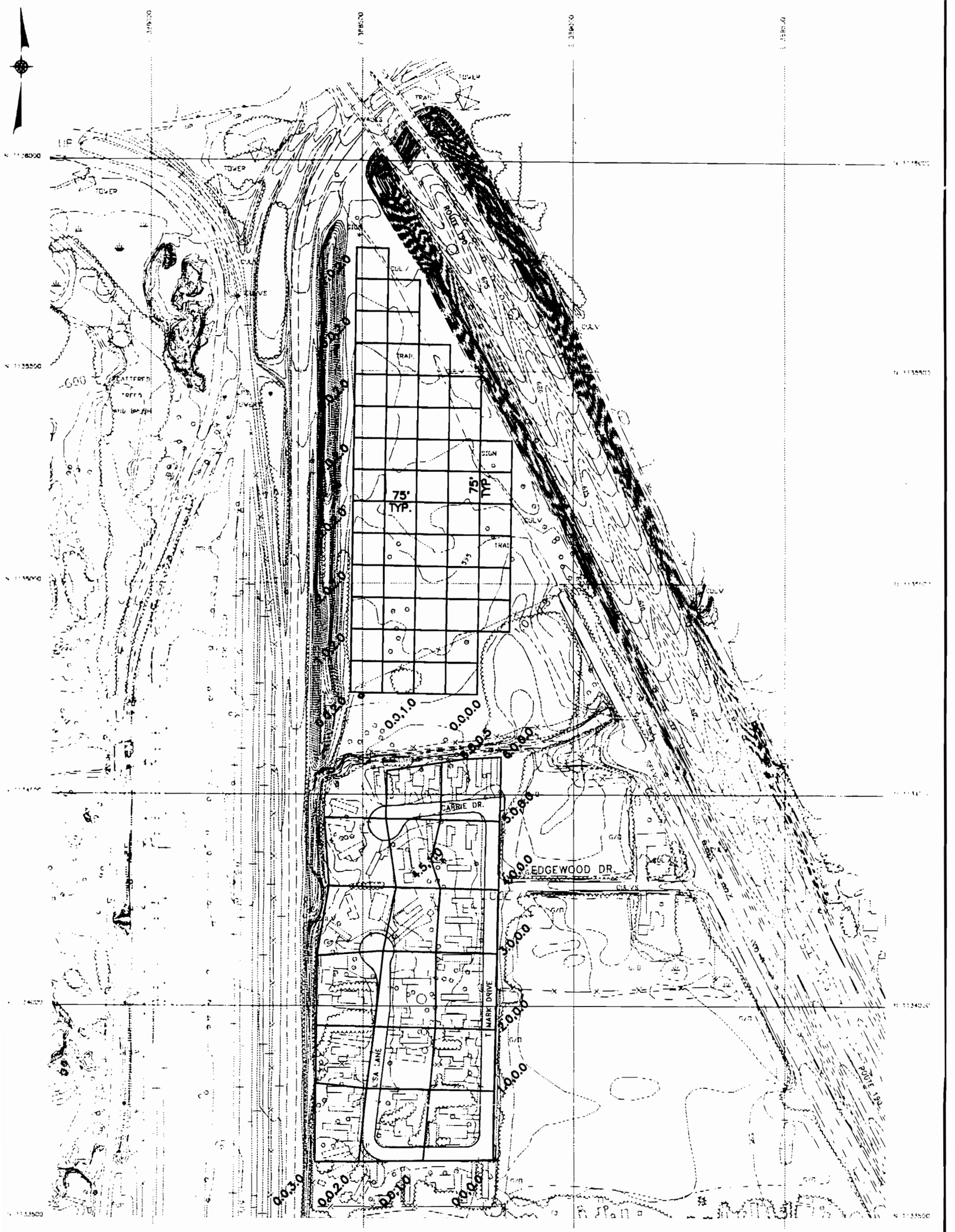
The seismic survey was a limited success in terms of defining accurately the depth to bedrock beneath the site. Interpretation of data was complicated by three main factors:

1. The quality of the data along a number of line-spreads is poor because of background noise from onsite structures such as fences, mobile homes, and underground pipes. Almost all spreads were affected by noise to some degree. In some instances, noise levels could be reduced by filtering data and stacking seismic records. The noise problem was also partly overcome by waiting for the right moment to collect the data. This was accomplished by observing the noise monitoring capabilities built into the seismograph. In other instances, the noise levels could not be avoided or reduced, making the data less accurate and interpretation more difficult.

2. Good correlation between observed depths to bedrock from the soil borings and the seismic profiles (within 10 ft) exists at some locations, while at other locations there is a poor relationship between observed and calculated depths. During the soil boring program, bedrock was generally encountered at approximately 20 feet below grade. Some line-spreads suggest that bedrock contact is closer to 30 to 40-foot depth feet. Along some line-spreads, calculated velocities suggest that the interpreted depth to layer 3 (bedrock) is not the real depth to bedrock, but rather depth to a deeper, more competent bedrock. It is possible that a shallow, weathered, clay-filled bedrock may exist with lower velocities than true "weathered" bedrock. An insufficient velocity contrast between the till and weathered bedrock would, therefore, mask the true depth to bedrock.

3. Under ideal conditions, the emergent ray paths shown on the seismic profiles in this Appendix should lie on the line depicting each refraction event. In some of the profiles, emergent ray paths are scattered off the second refraction. This lends some

uncertainty to the results. Interpretations are complicated by the fact that first break picks of arrival times do not fall on perfectly straight lines. The most likely cause of this feature is that the subsurface exhibits significant seismic velocity changes, laterally and vertically. Such velocity changes are expected in a clay and till setting, given the heterogeneous nature of these lithologies.



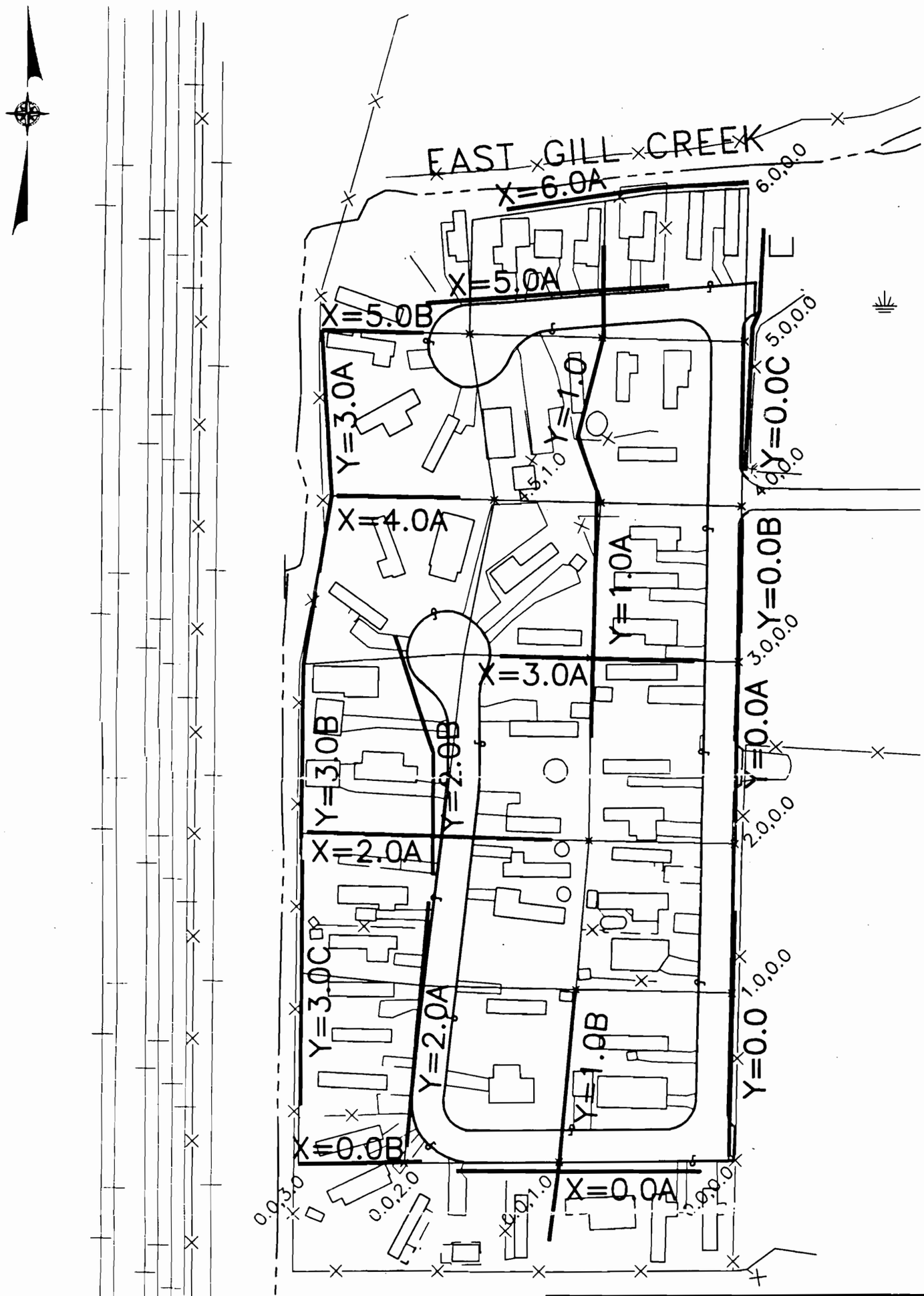
50' 0 100'
SCALE:

CDM FEDERAL PROGRAMS CORPORATION
a subsidiary of Camp Dresser & McKee Inc.

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
WORK ASSIGNMENT 053-2L3U

GEOPHYSICAL SURVEY GRID

FIGURE 1-1

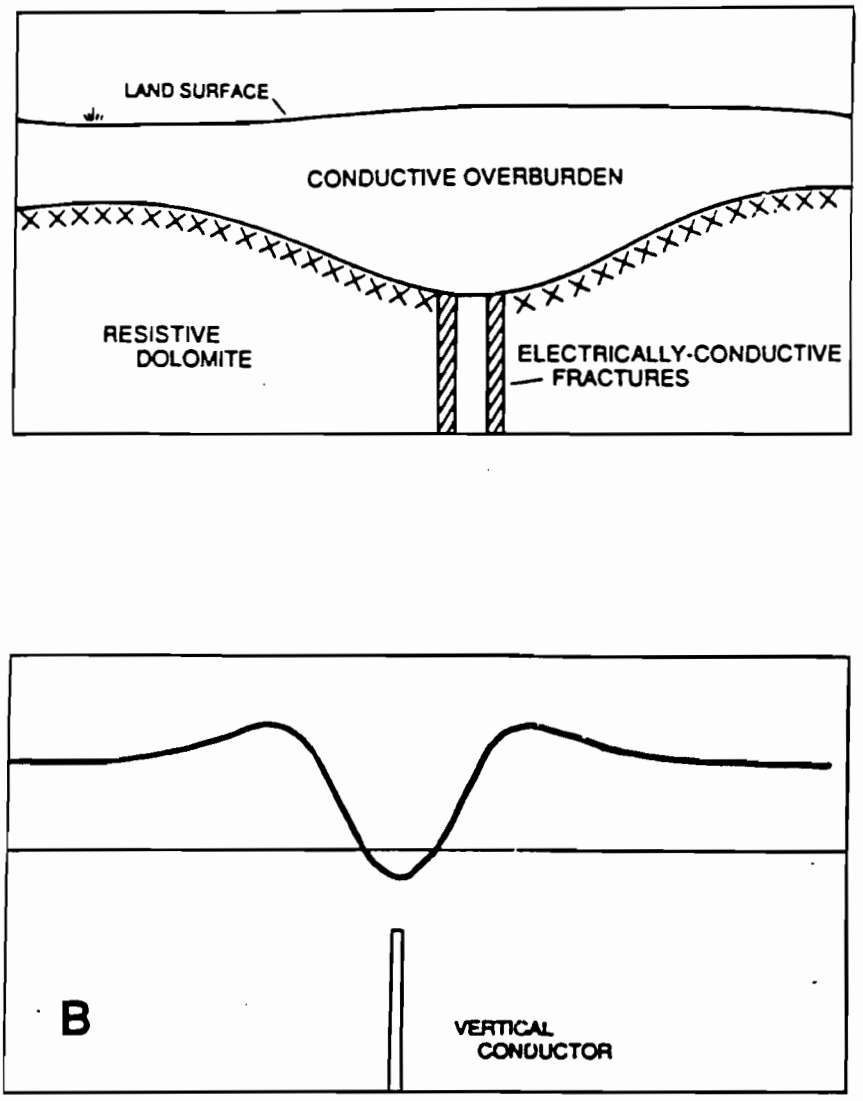


SEISMIC SURVEY LINES

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
WORK ASSIGNMENT 053-2L3U

DM FEDERAL PROGRAMS CORPORATION
subsidiary of Camp Dresser & McKee Inc.

FIGURE 1-2



FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
WORK ASSIGNMENT 053-2L3U

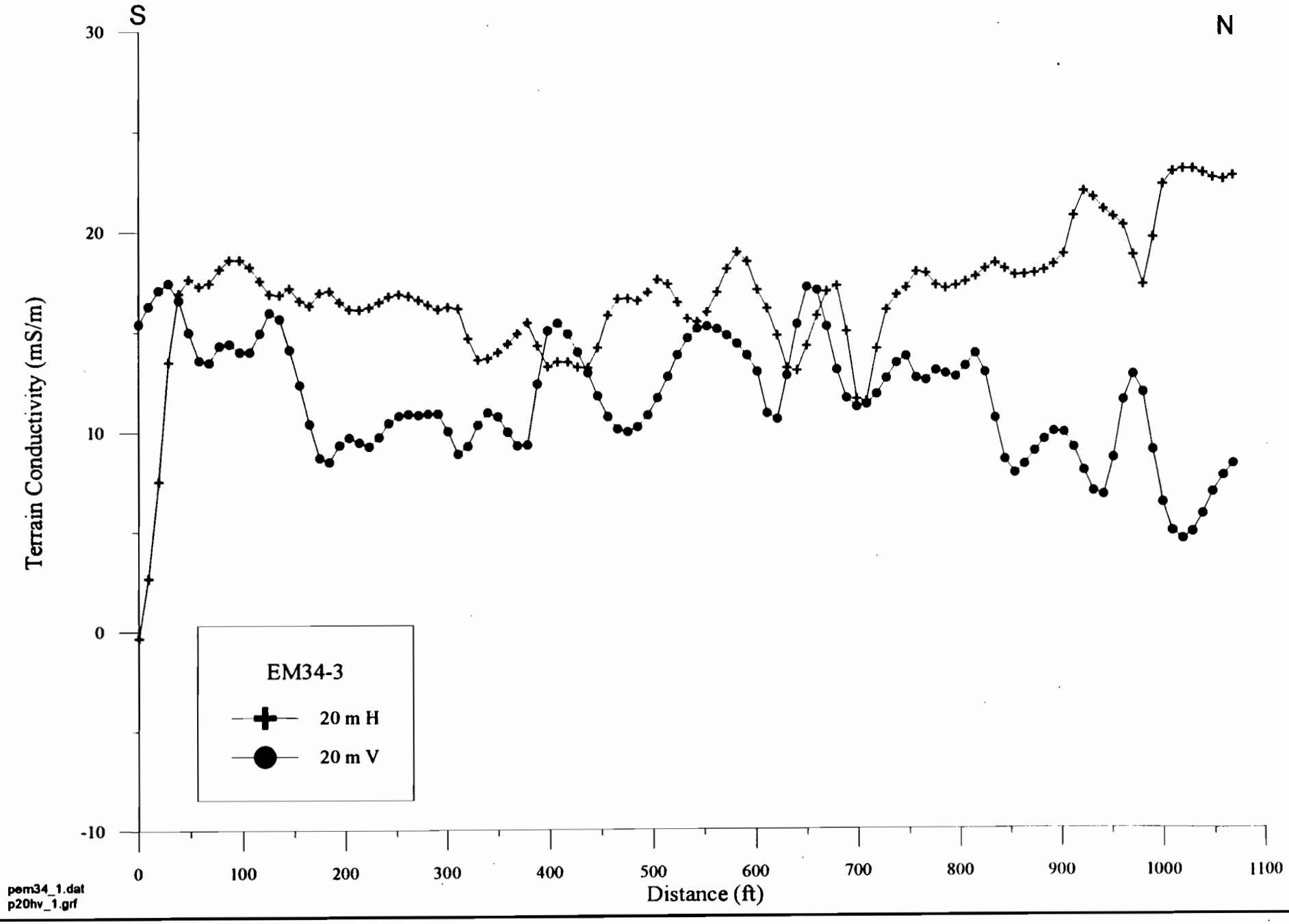
ELECTROMAGNETIC SURVEY EM34-3 EXPECTED RESPONSE FROM VERTICALLY CONDUCTIVE FRACTURES

CDM FEDERAL PROGRAMS CORPORATION
a subsidiary of Camp Dresser & McKee Inc.

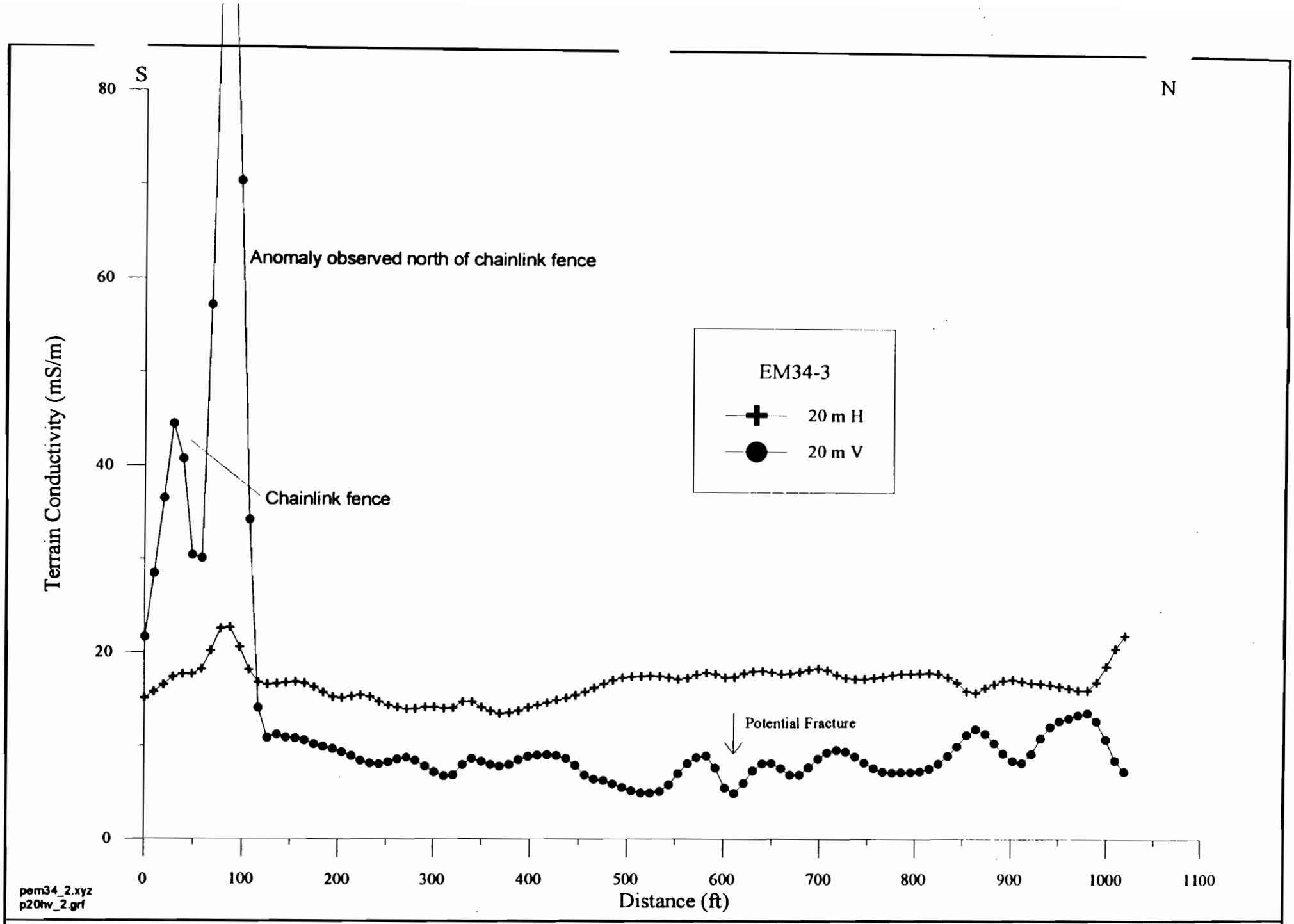
FIGURE 2-1

ELECTROMAGNETIC SURVEY

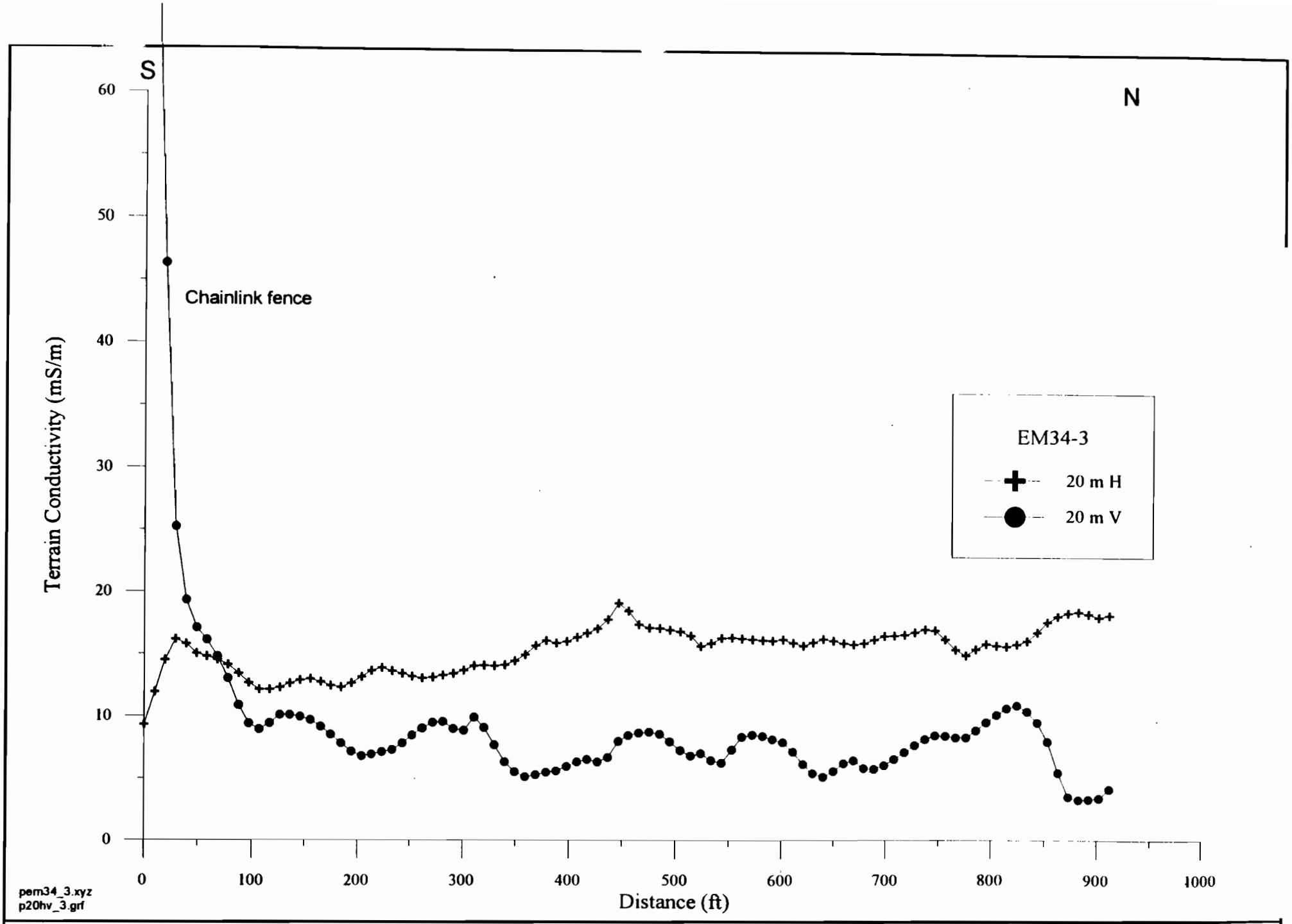
CONDUCTIVITY PROFILES



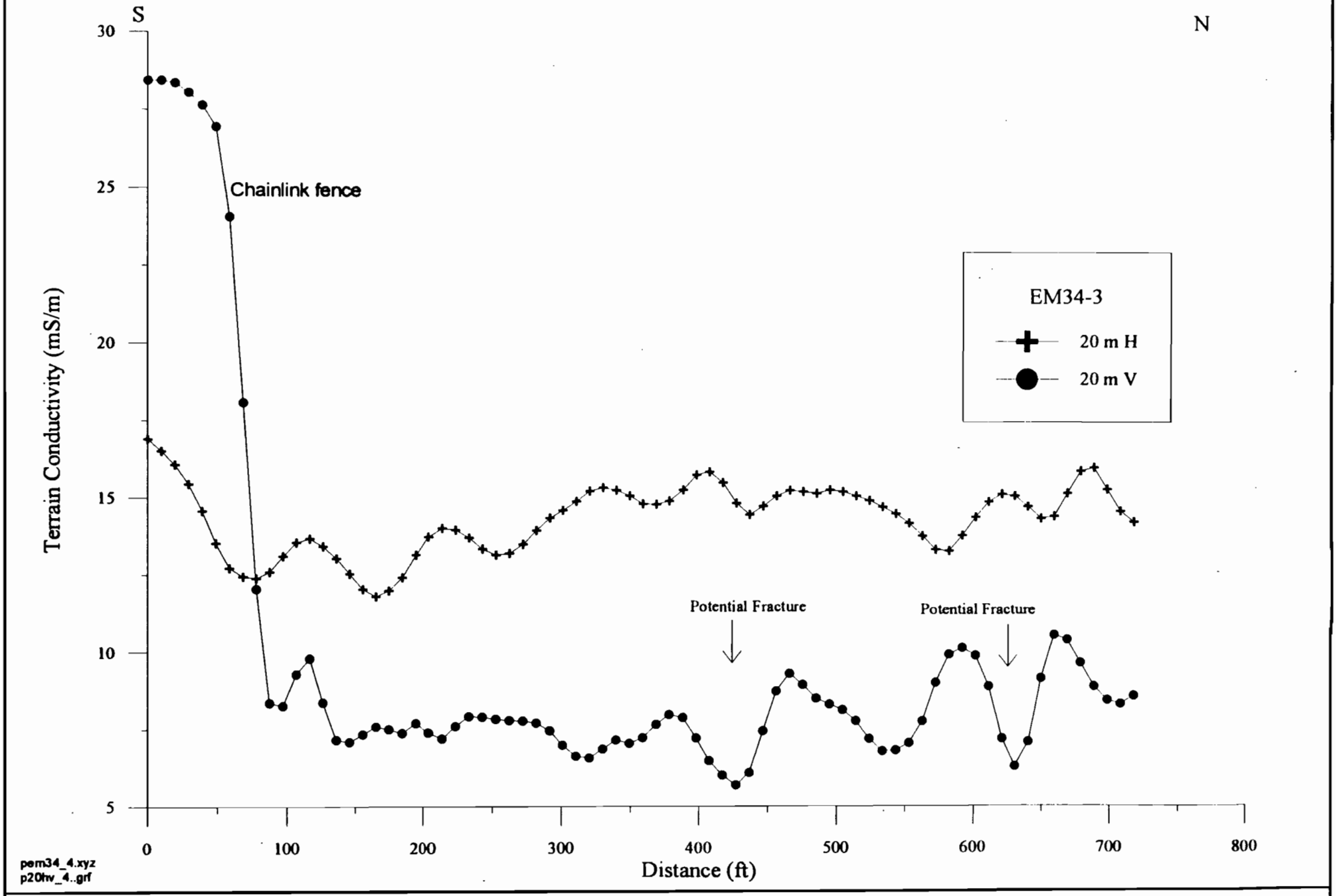
Starting 25 ft south of node 0.0,2.0 - moving north



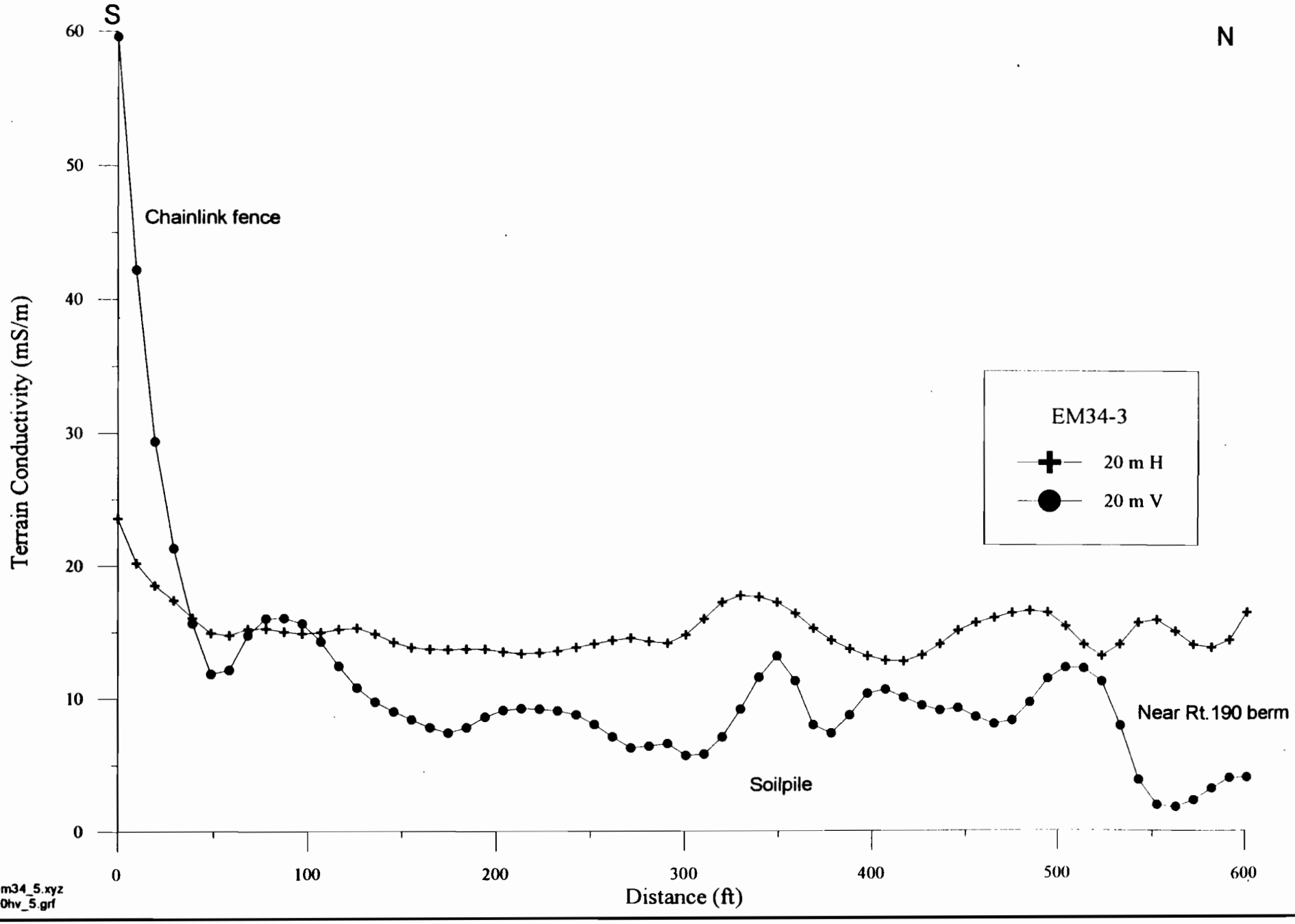
Starting near fence by node 0.5,1.5 - moving north



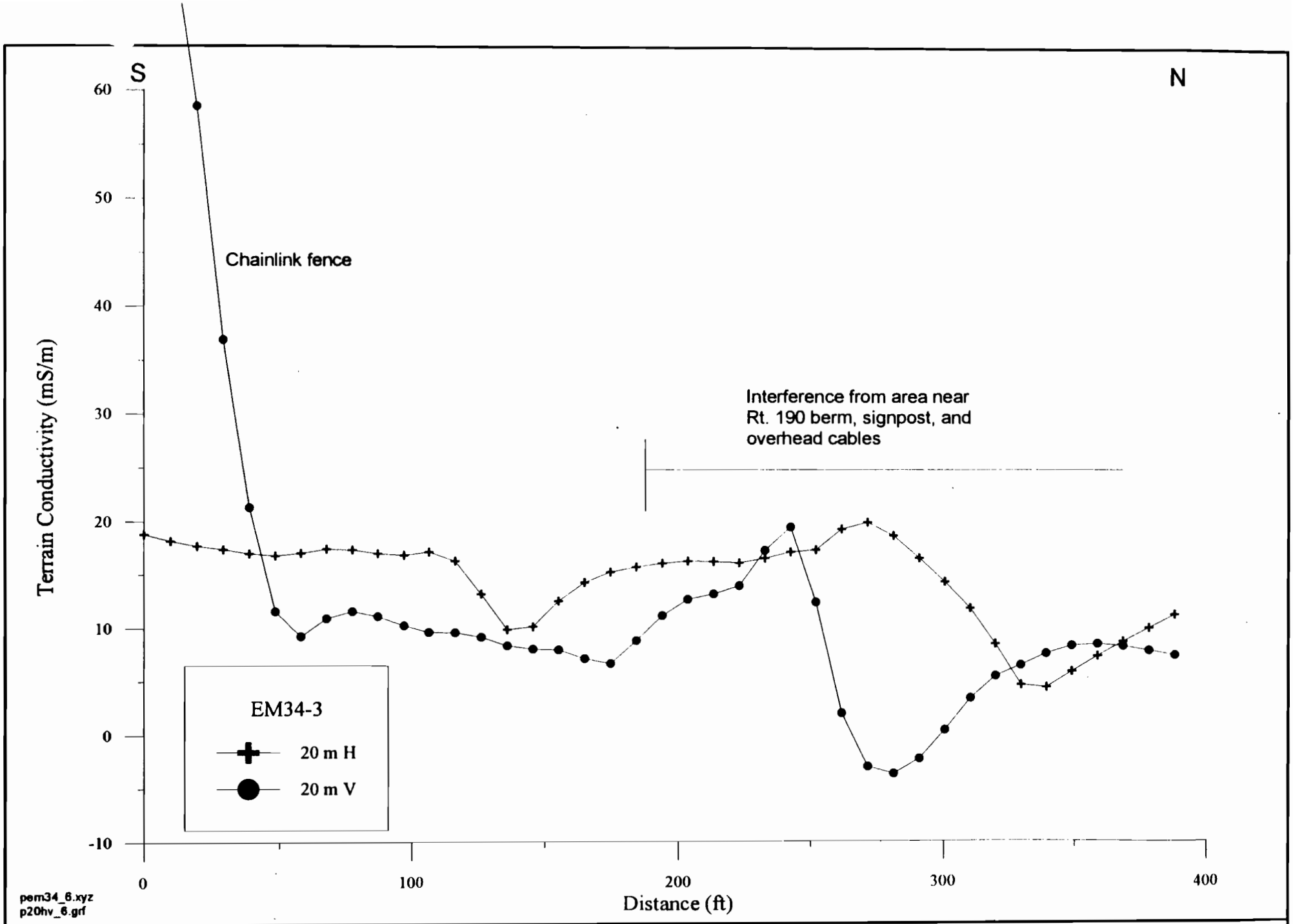
Starting at node 0.5,1.0 - moving north



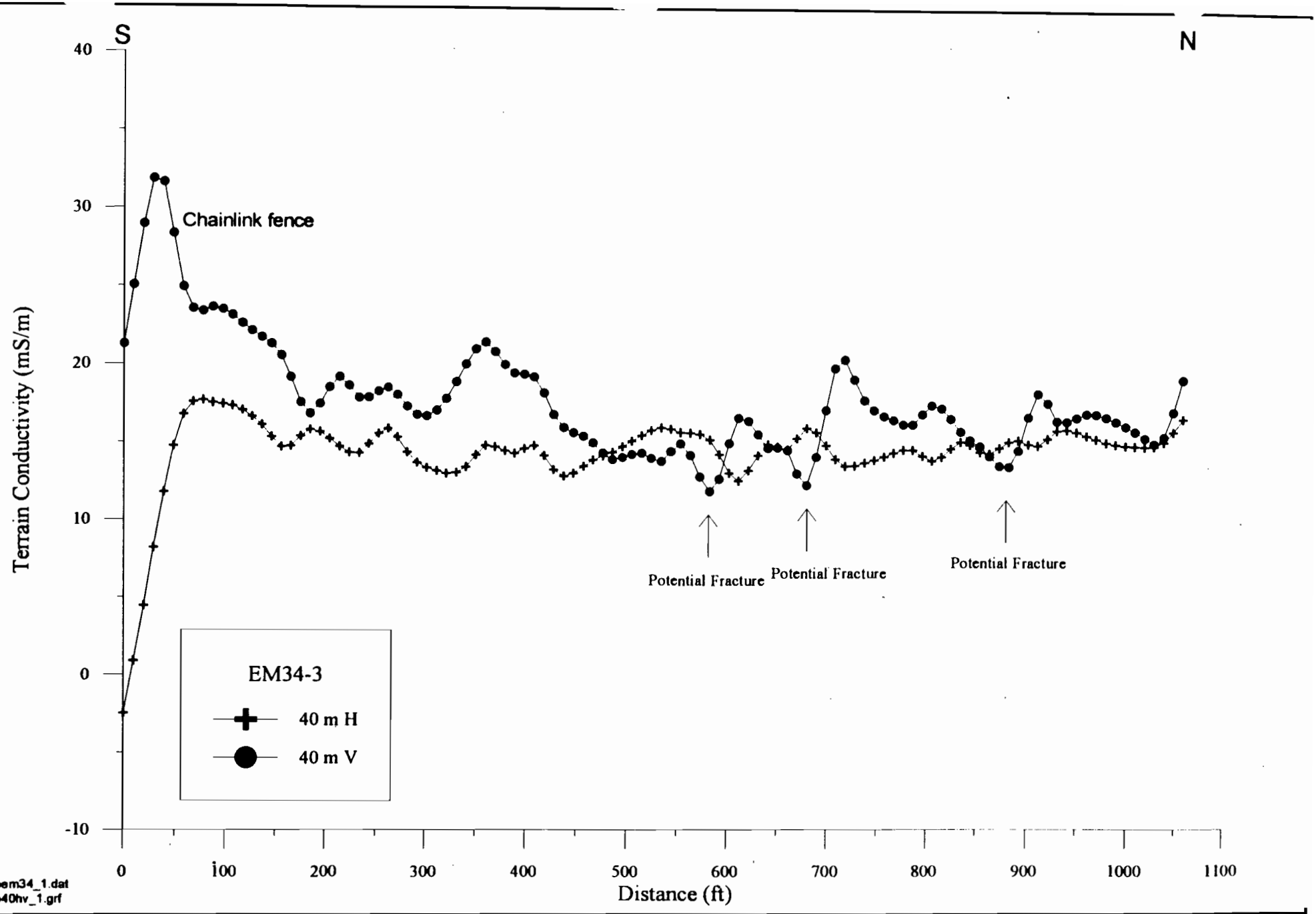
Starting near fence 25 ft south of node 1.0,0.5 - moving north



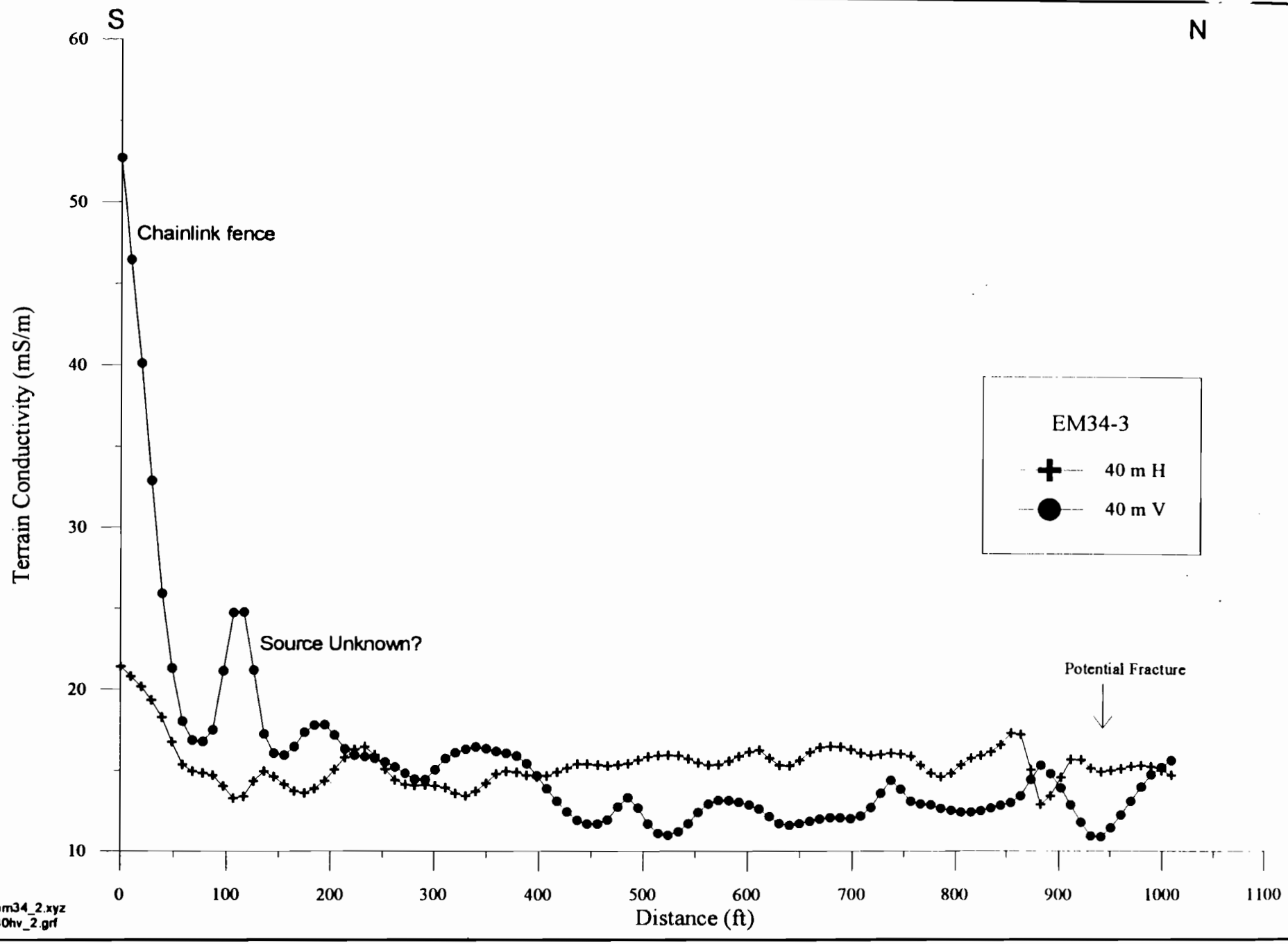
Starting at node 1.0,0.0 - moving north



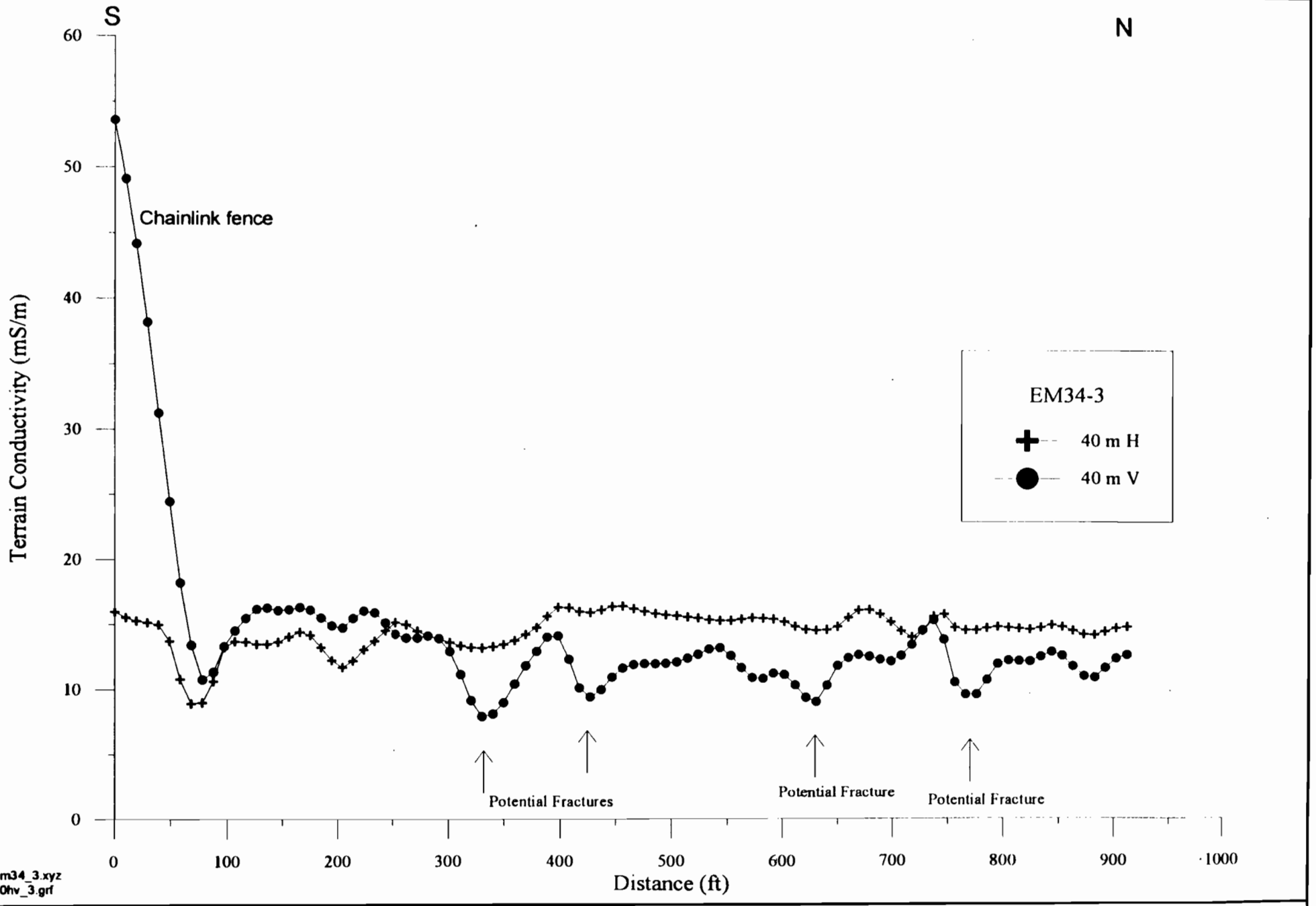
Starting at node 1.0,-0.5 by fence - moving north



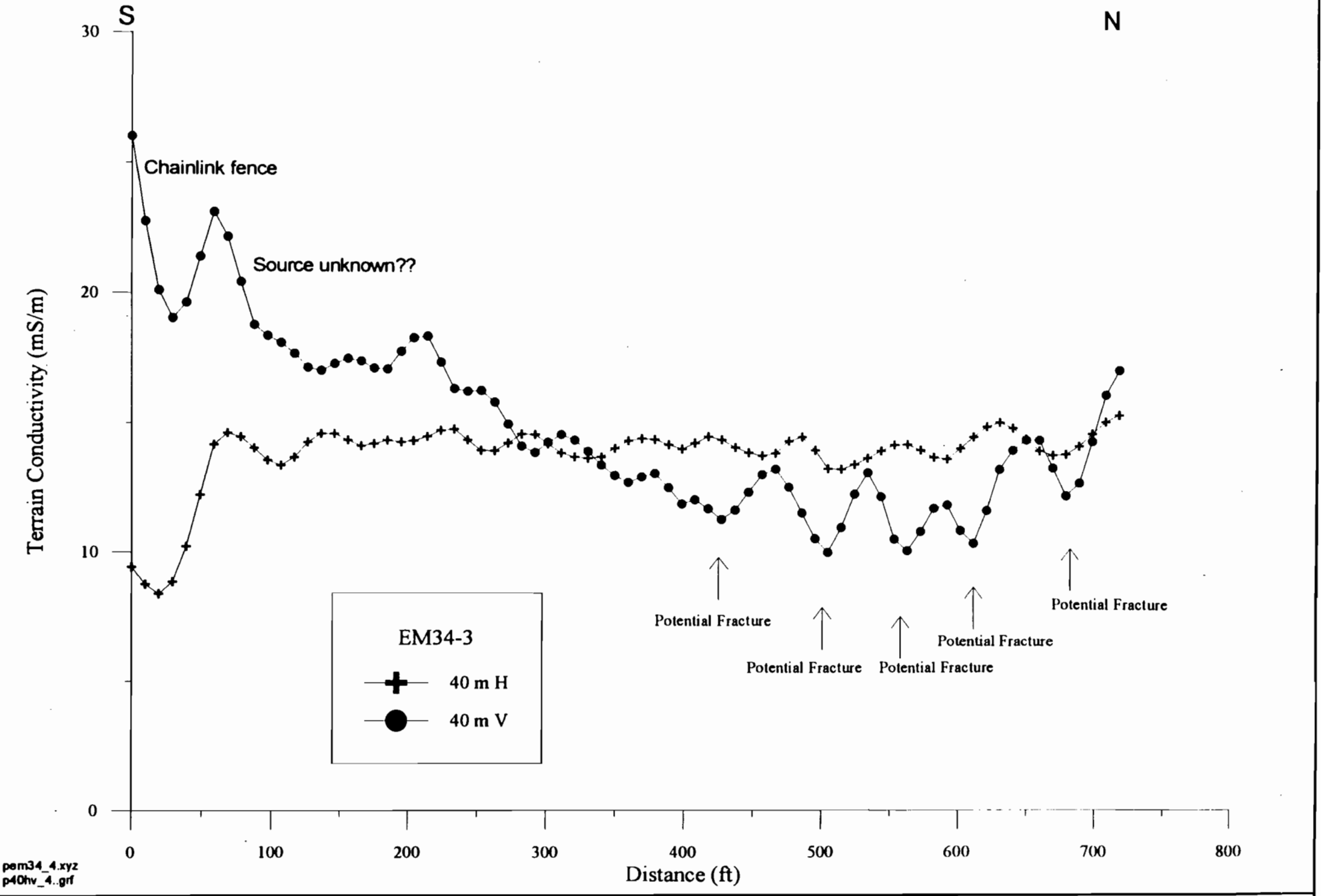
Starting near node 0.0,2.0 - moving north



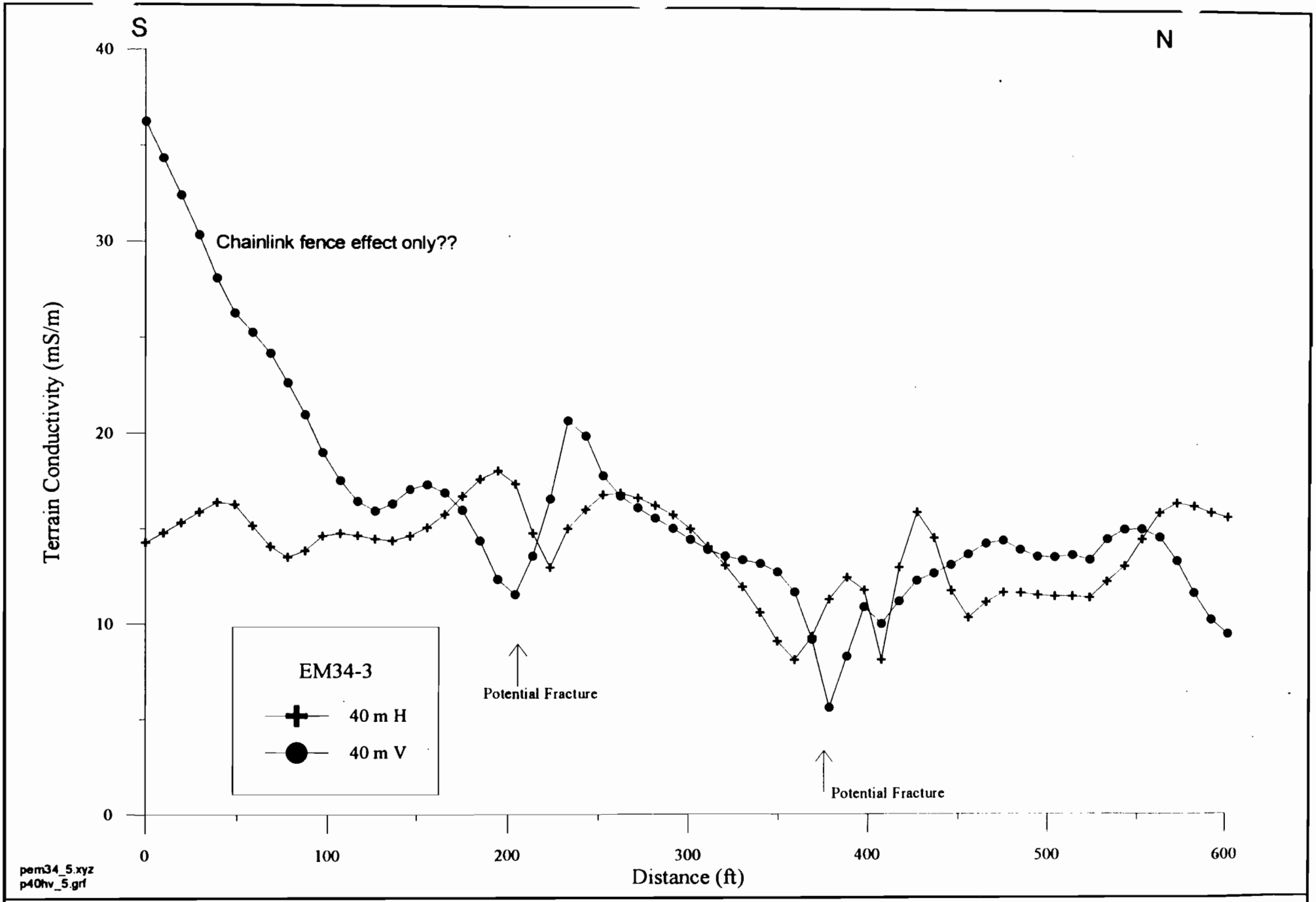
Starting 25 ft south of node 0.5,1.5 - moving north



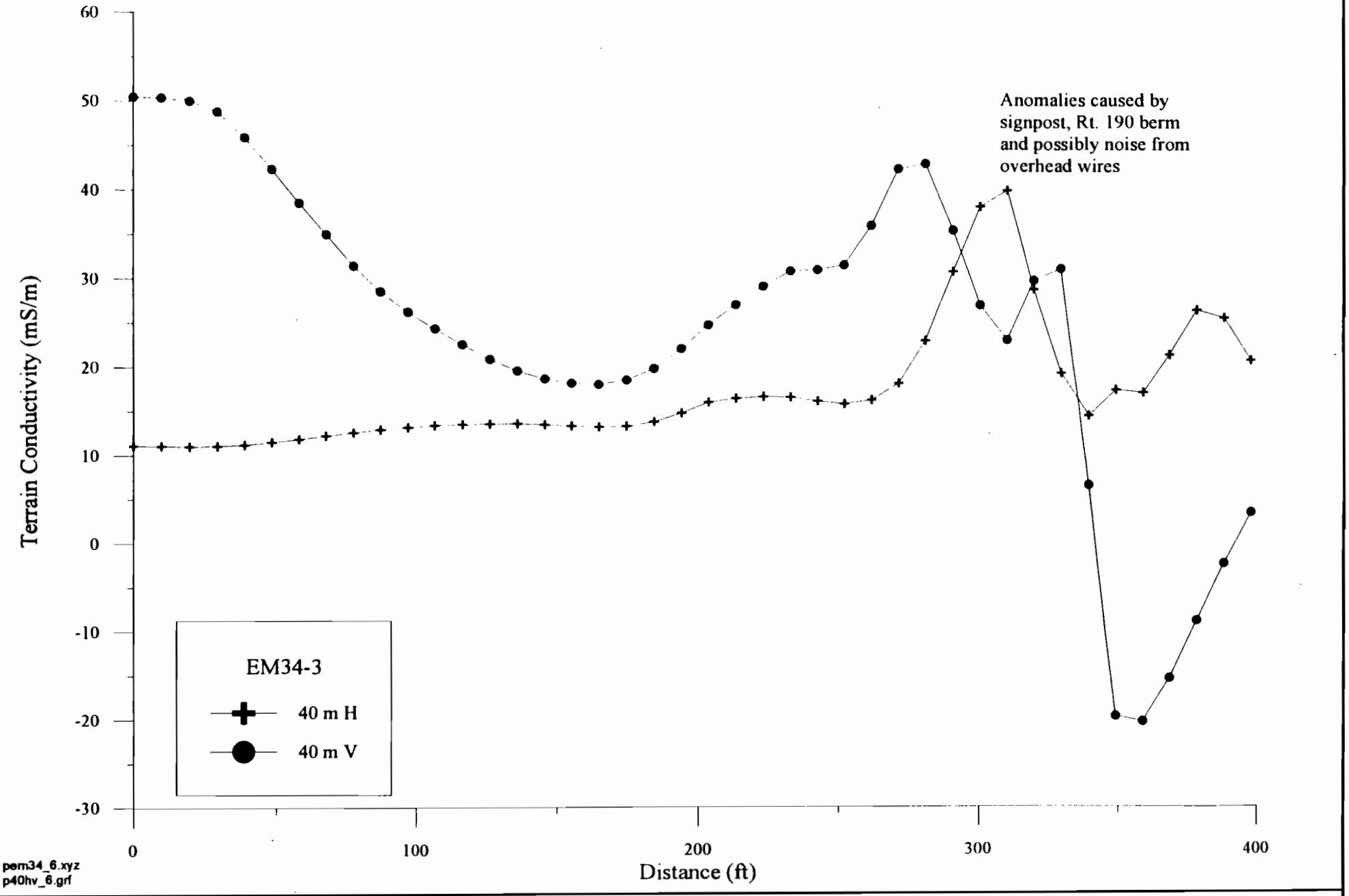
Starting at node 0.5,1.0 - moving north



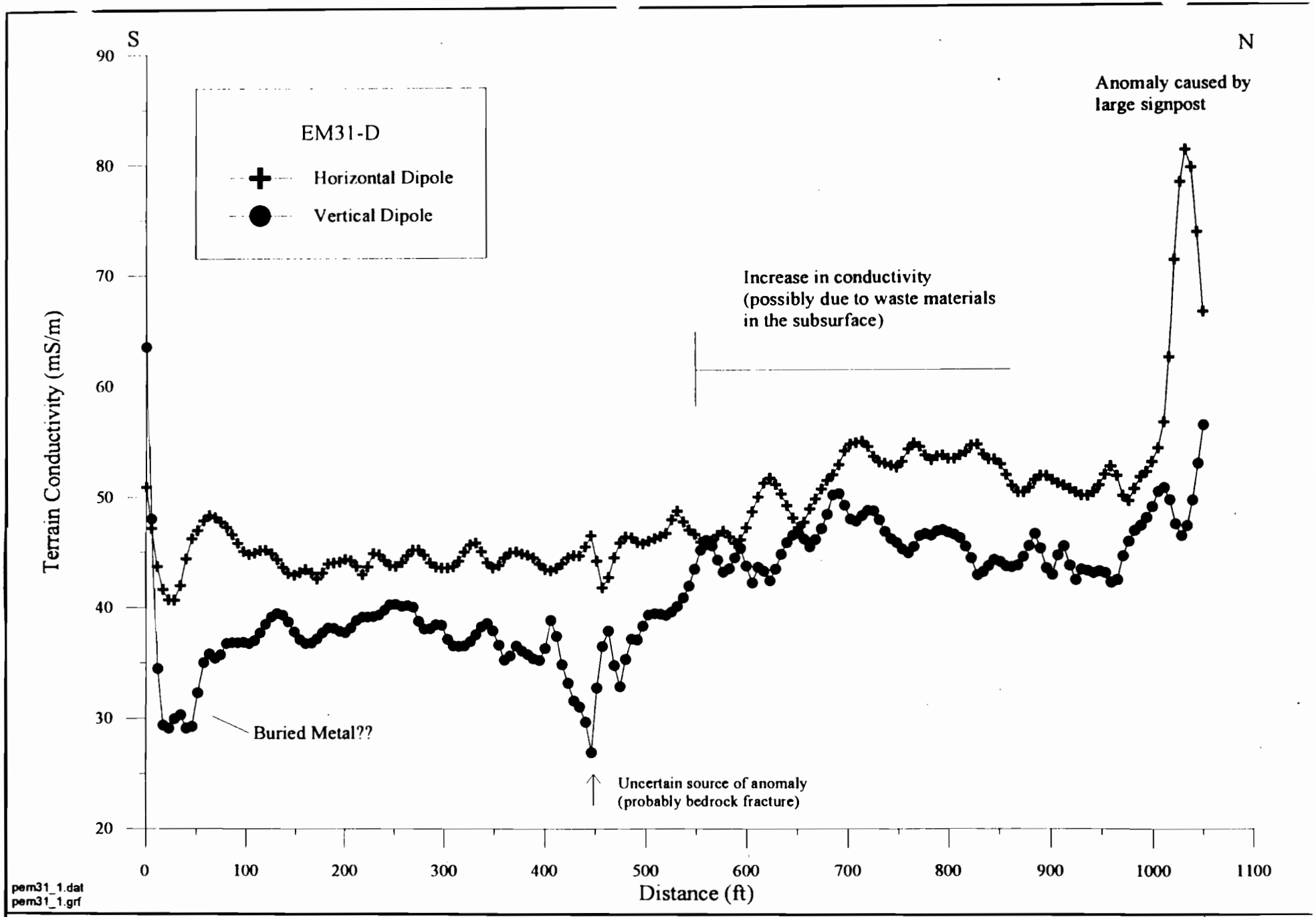
Starting 50 ft south of node 1.0,0.5 - moving north



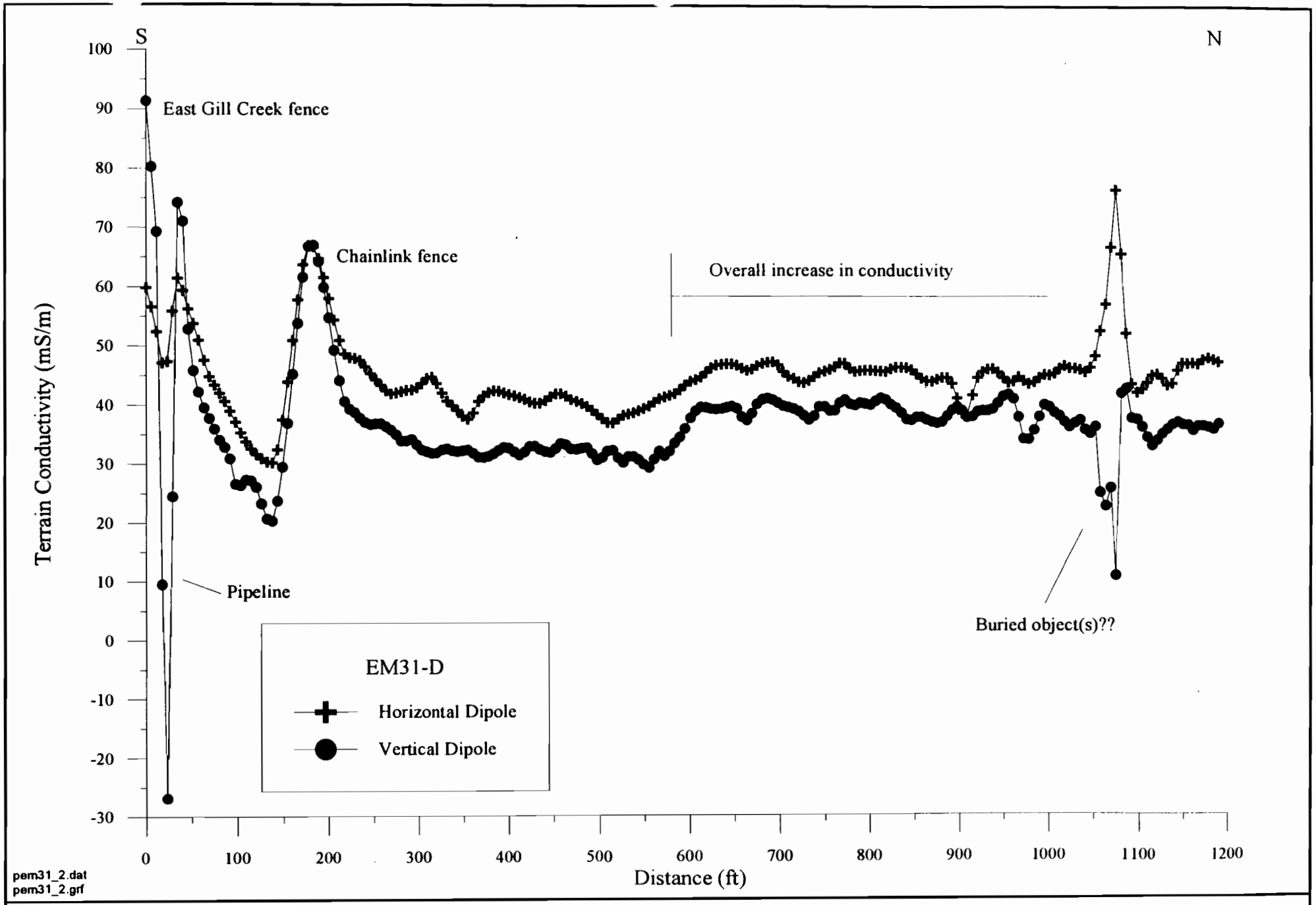
Starting at node 1.0,0.0 - moving north



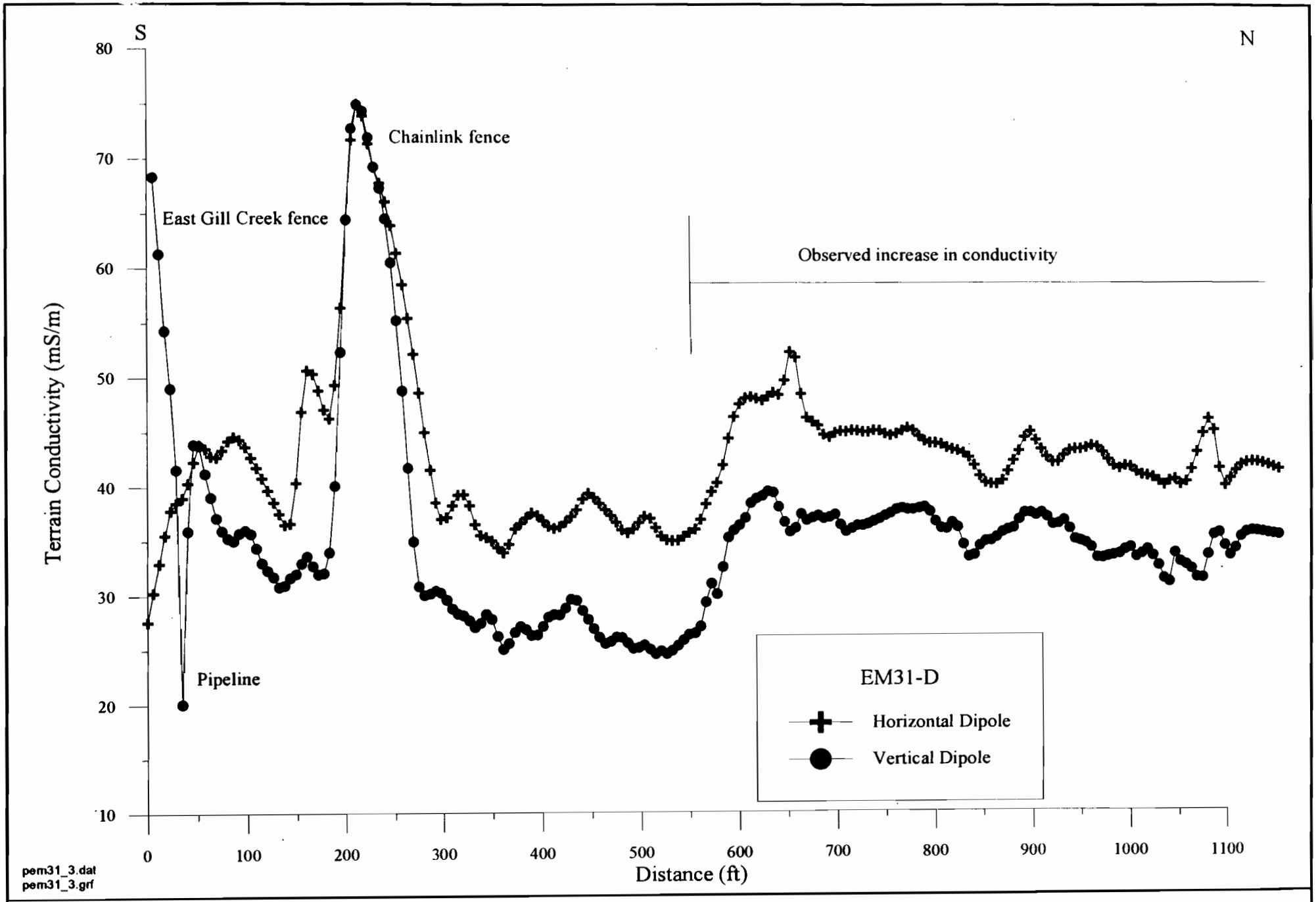
Starting 25 ft south of node 1.5, -0.5 - moving north



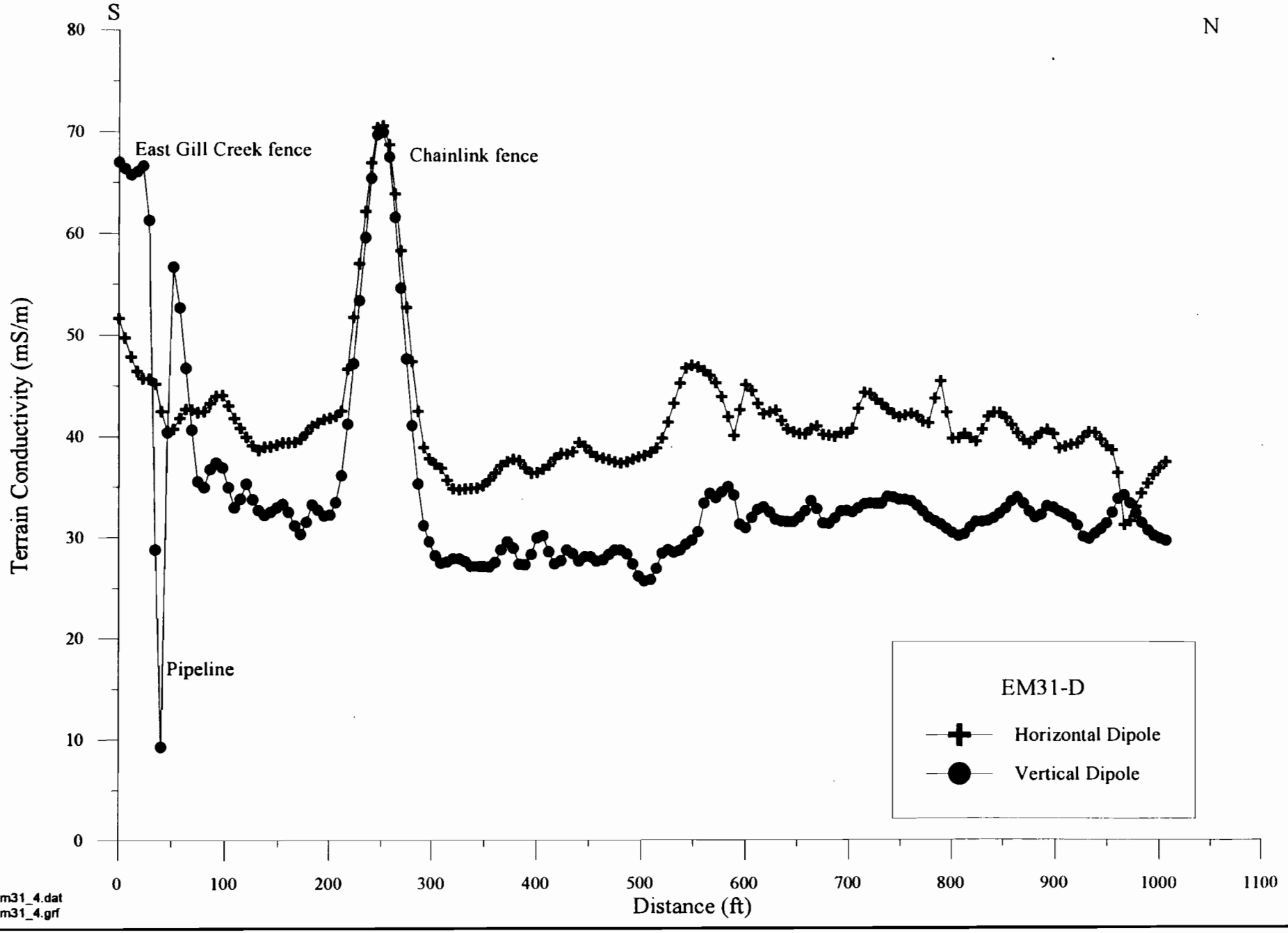
Starting at node 0.0,2.0 moving North.



Starting approx. 150 ft south of node 0.0,1.5 - moving North

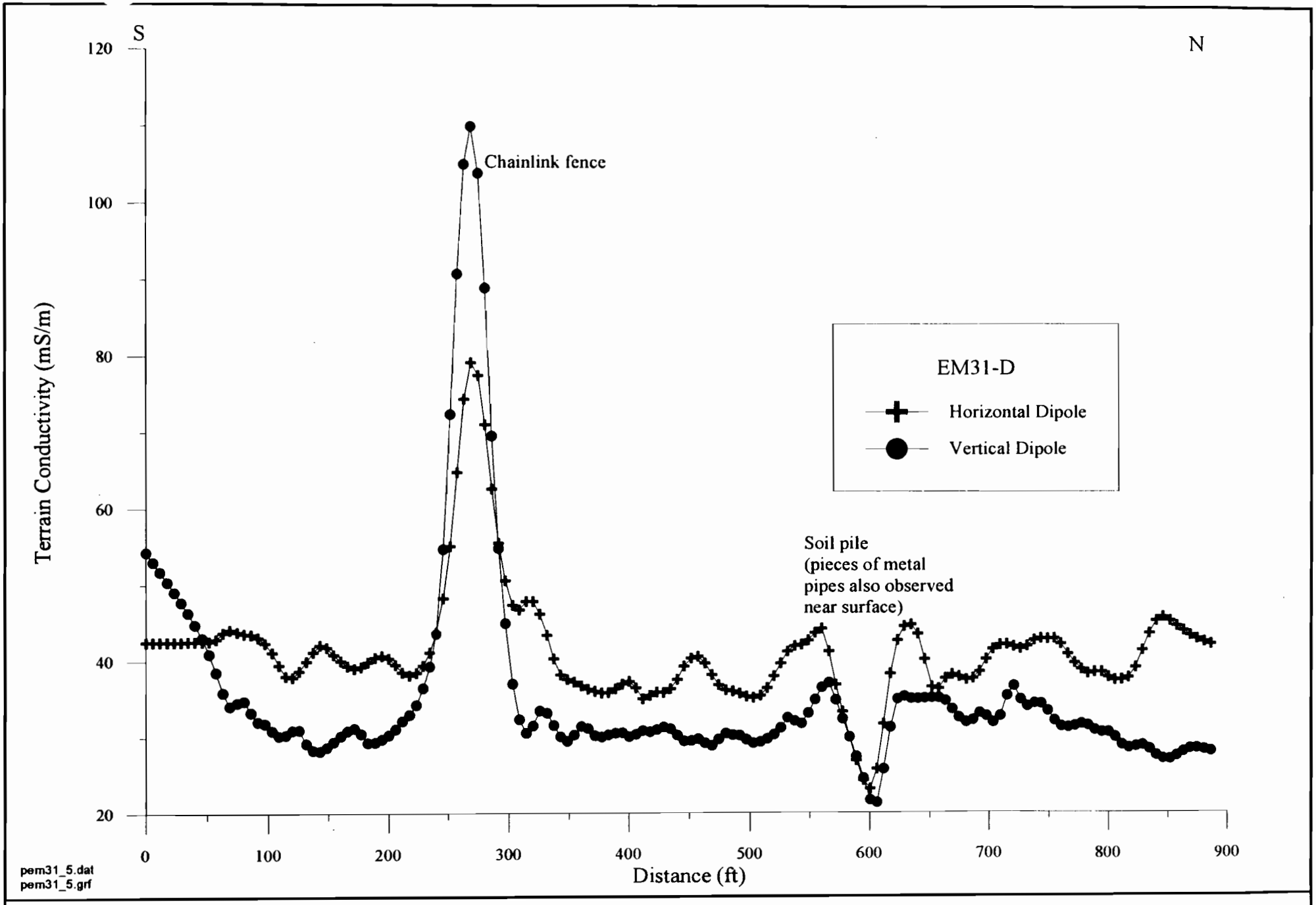


Starting approx. 150 ft south of node 0.0,1.0 near East Gill Creek - moving north

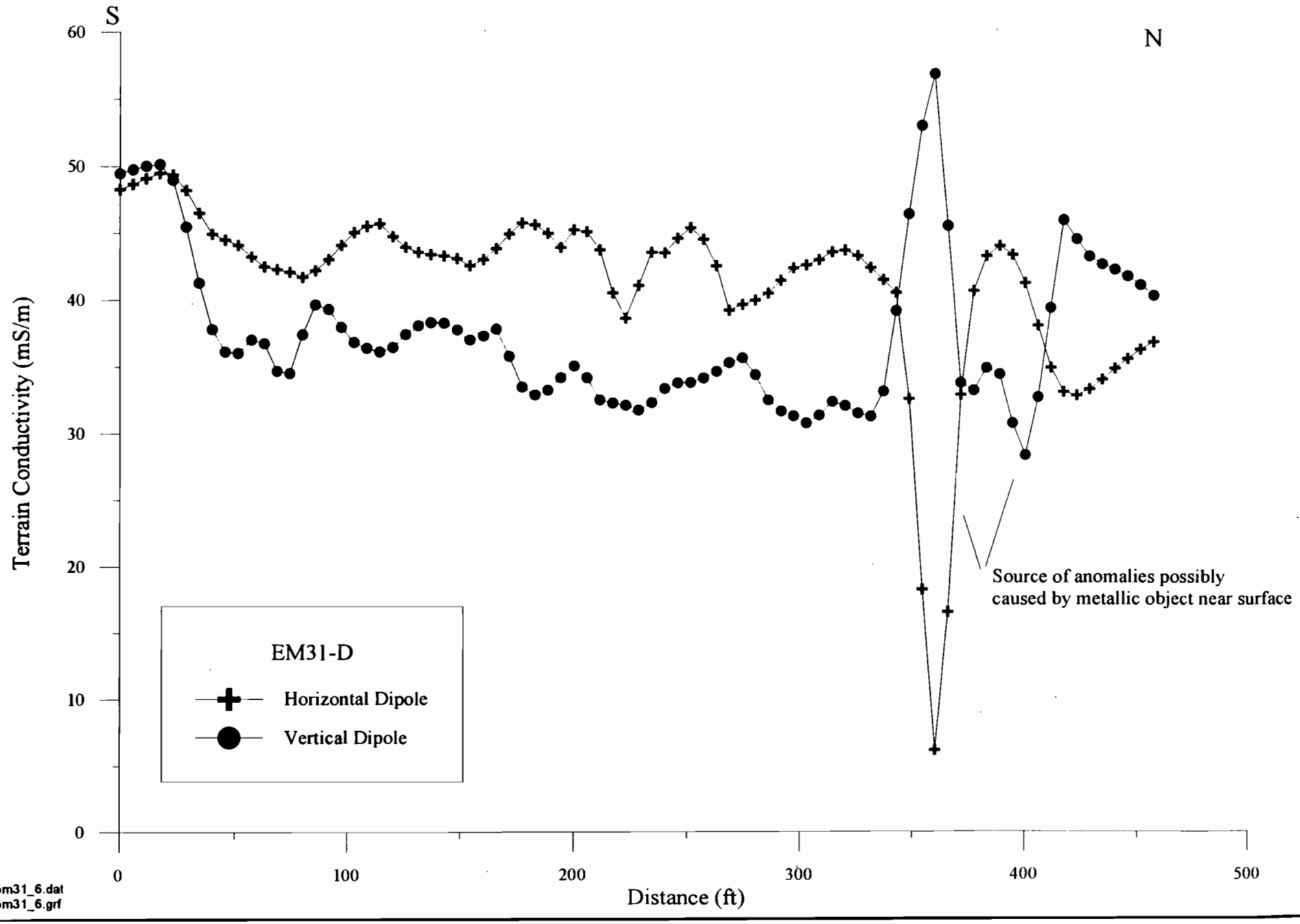


pem31_4.dat
pem31_4.grf

Starting approx. 150 ft south
of node 0.0,0.5 near East Gill Creek -
moving north



Starting approx. 150 ft south
of node 0.0,0.0 near East Gill Creek -
moving north



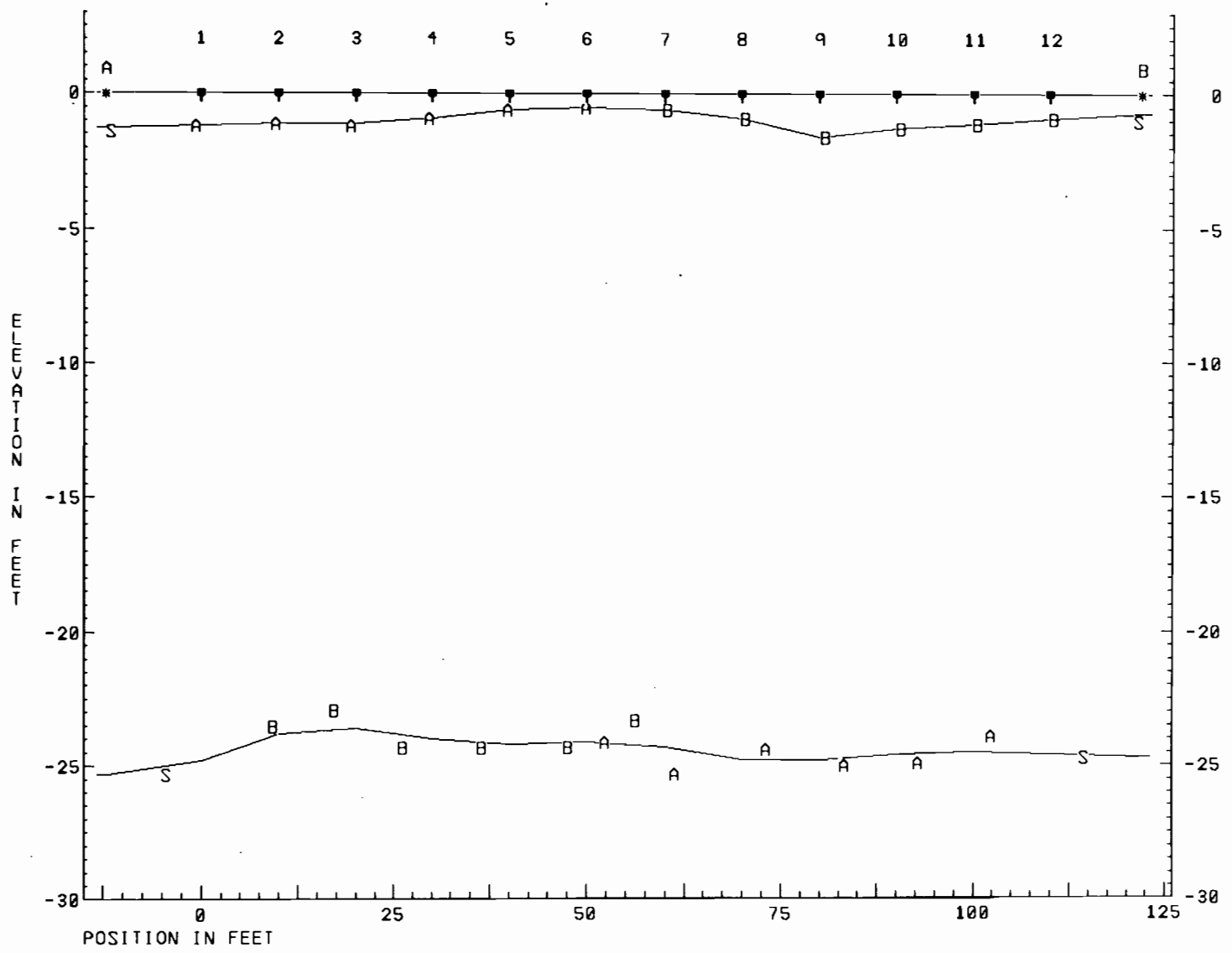
Starting near node 1.0,-0.5
north of chainlink fence - moving north

SEISMIC RETRACTION PROFILES

AND

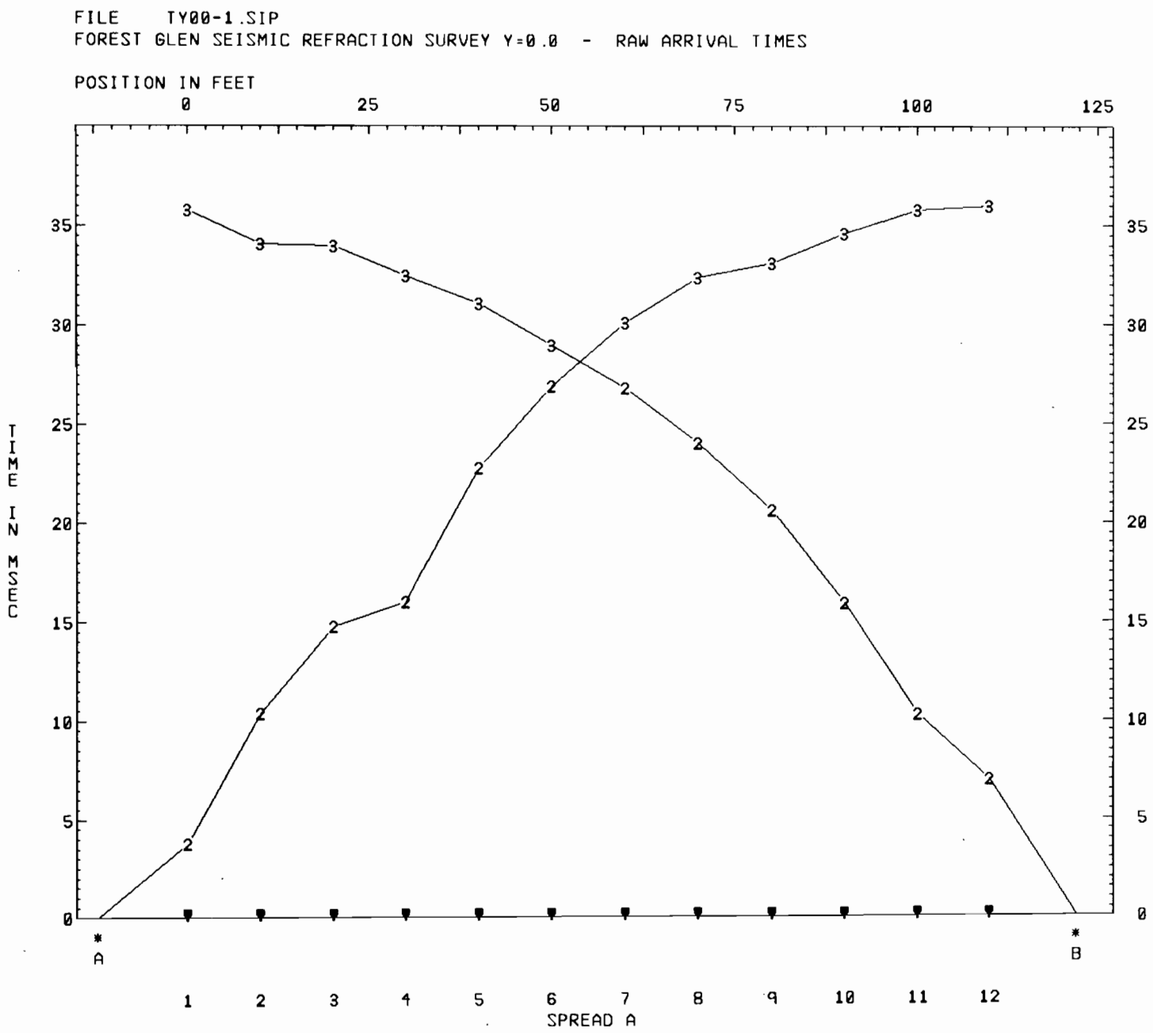
SEISMOGRAPH PRINT-OUTS

FILE TY00-1.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=0.0
SPREAD A



LEGEND

- PHONE LOCATION
- * SHOT POINT
- A ,B EMERGENT RAY OF SP A ,B
- ? QUESTIONABLE EMERGENT RAY
- S RAY ENTRY POINT BENEATH SP


FILE TY00-1.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=0.0 - RAW ARRIVAL TIMES
POSITION IN FEET
0
25
50
75
100
125
TIME IN MSEC
0
5
10
15
20
25
30
35
A
B
1
2
3
4
5
6
7
8
9
10
11
12
SPREAD A

VELOCITY ANALYSIS TABLES for TY00-1.SIP

yer 1 Velocity from direct arrivals for TY00-1.SIP

Spread A	SP	Geo	DD	V	Avg V

No points

Override Velocity assigned to Layer 1

Spread	A
	1000

Layer 2 Velocity computed by regression for TY00-1.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	1 6	-0.5	2273	2273	-0.5	6
2418	2.1	7 12	B				2418	2.1	6
							Avg = 2343	for	12 Pts

Layer 2 Velocity computed by Hobson-Overton method for TY00-1.SIP

Not enough points.

Wtd Avg Velocity computed for Layer 2 = 2343

Layer 3 Velocity computed by regression for TY00-1.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	7 12	22.3	8526	8526	22.3	6
7920	20.5	1 6	B				7920	20.5	6
							Avg = 8212	for	12 Pts

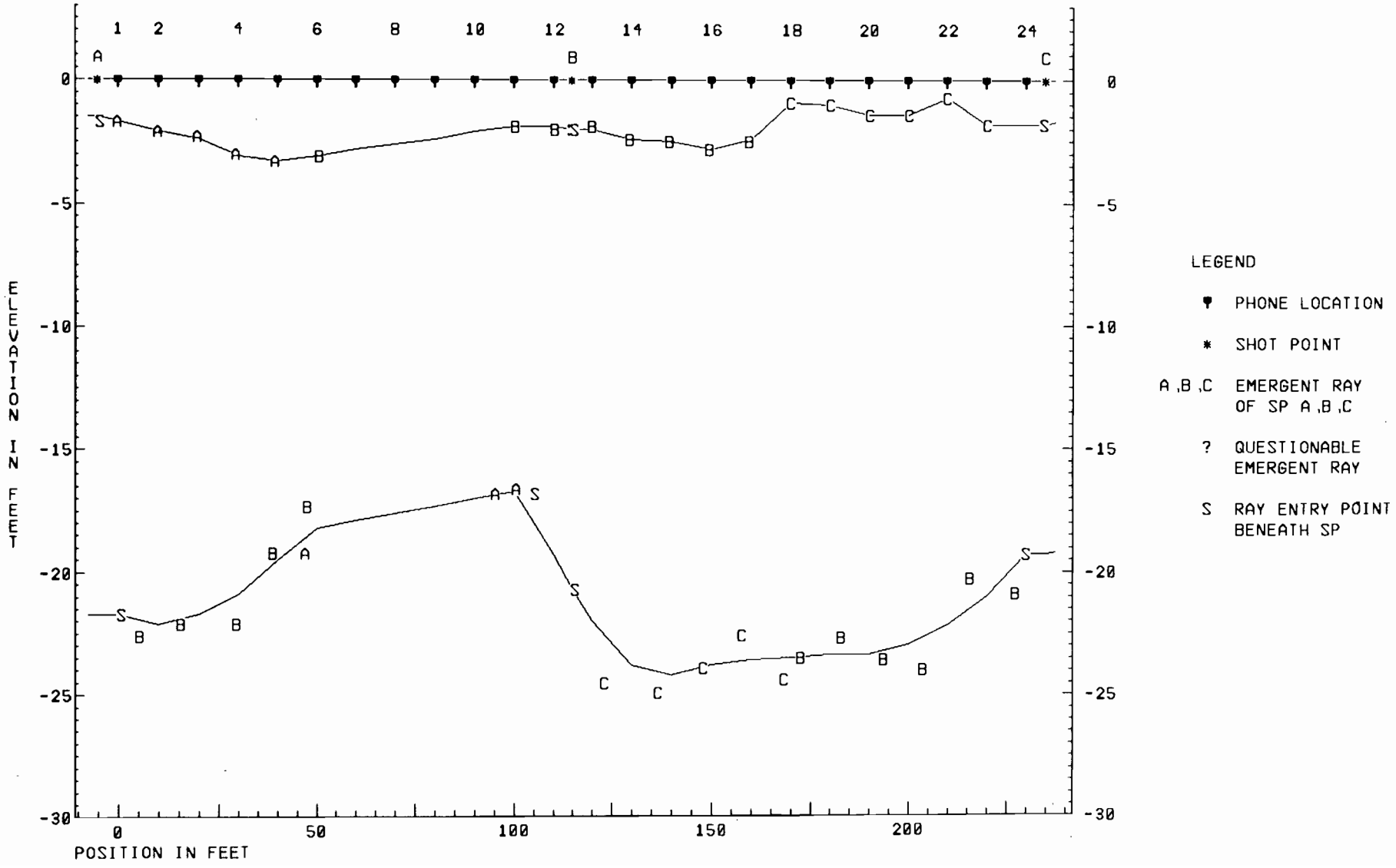
Layer 3 Velocity computed by Hobson-Overton method for TY00-1.SIP

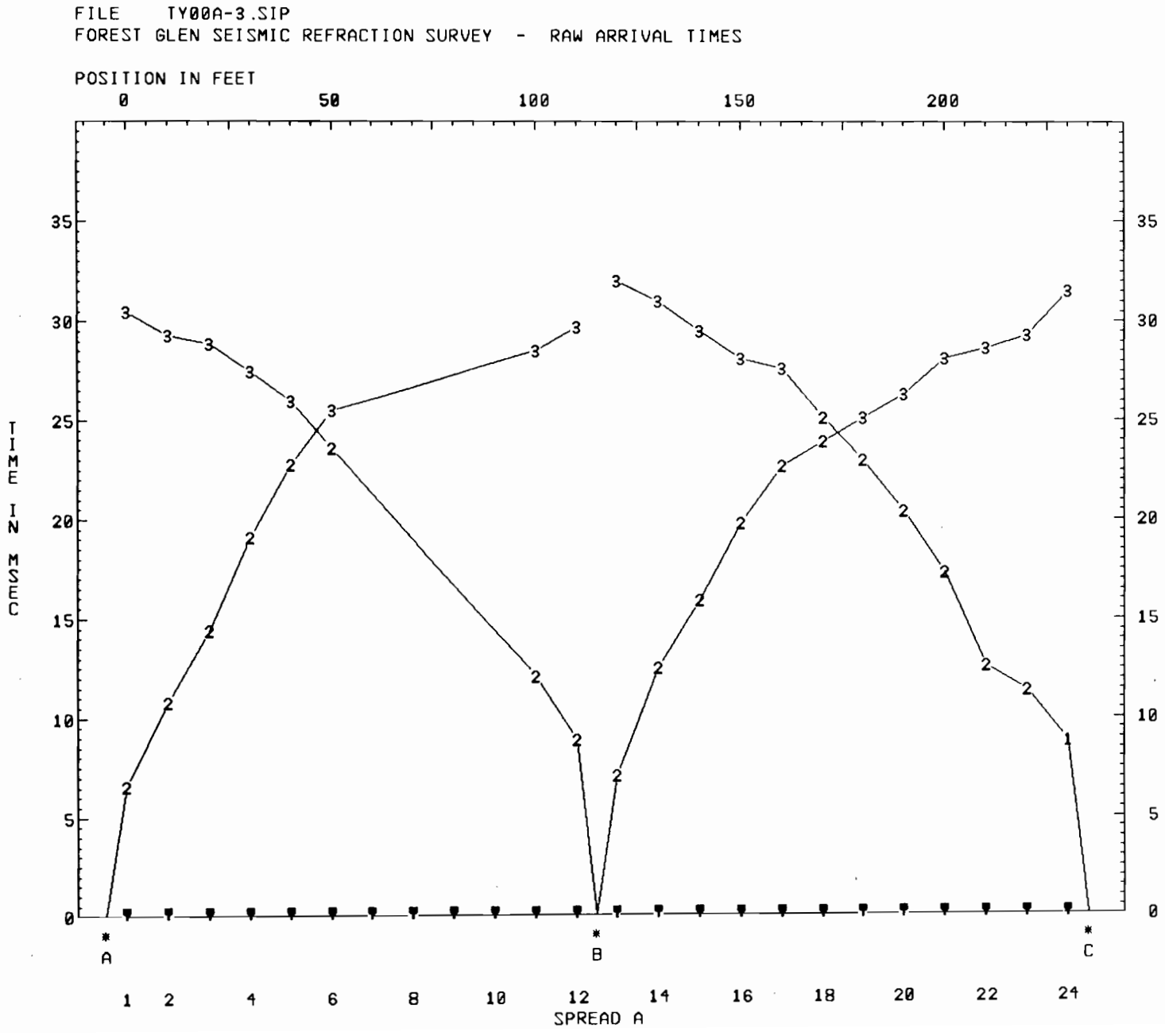
Not enough points.

Wtd Avg Velocity computed for Layer 3 = 8212

FILE TY00A-3.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY

SPREAD A




FILE TY00A-3.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
TIME IN MSEC
35
30
25
20
15
10
5
0
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 24
SPREAD A

VELOCITY ANALYSIS TABLES for TY00A-3.SIP

yer 1 Velocity from direct arrivals for TY00A-3.SIP

Spread A	SP	Geo	DD	V	Avg V
	C	24	5.0	571	
					571

Wtd Avg Velocity computed for Layer 1 = 571

Layer 2 Velocity computed by regression for TY00A-3.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	1 5	4.6	2462	2462	4.6	5
4155	8.1	6 12	B	13 18	6.8	2961	3275	7.4	9
3398	6.5	18 23	C				3398	6.5	6
						Avg =	3056	for	20 Pts

Layer 2 Velocity computed by Hobson-Overton method for TY00A-3.SIP

Not enough points.

Wtd Avg Velocity computed for Layer 2 = 3056

Layer 3 Velocity computed by regression for TY00A-3.SIP

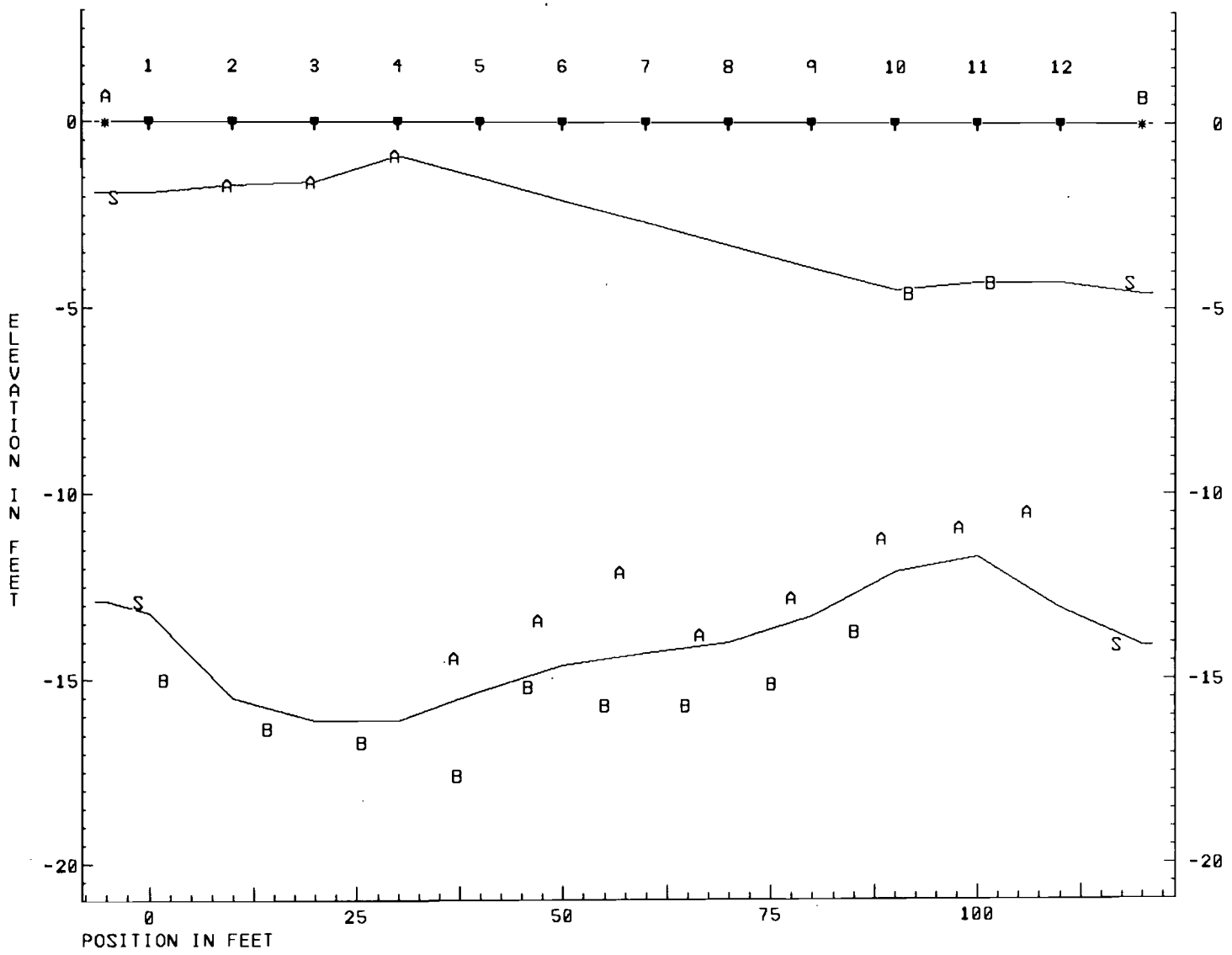
Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	6 12	21.8	14976	14976	21.8	3
9302	18.2	1 5	B	19 24	17.5	8454	8820	17.9	11
8591	18.6	13 17	C				8591	18.6	5
						Avg =	9362	for	19 Pts

Layer 3 Velocity computed by Hobson-Overton method for TY00A-3.SIP

Not enough points.

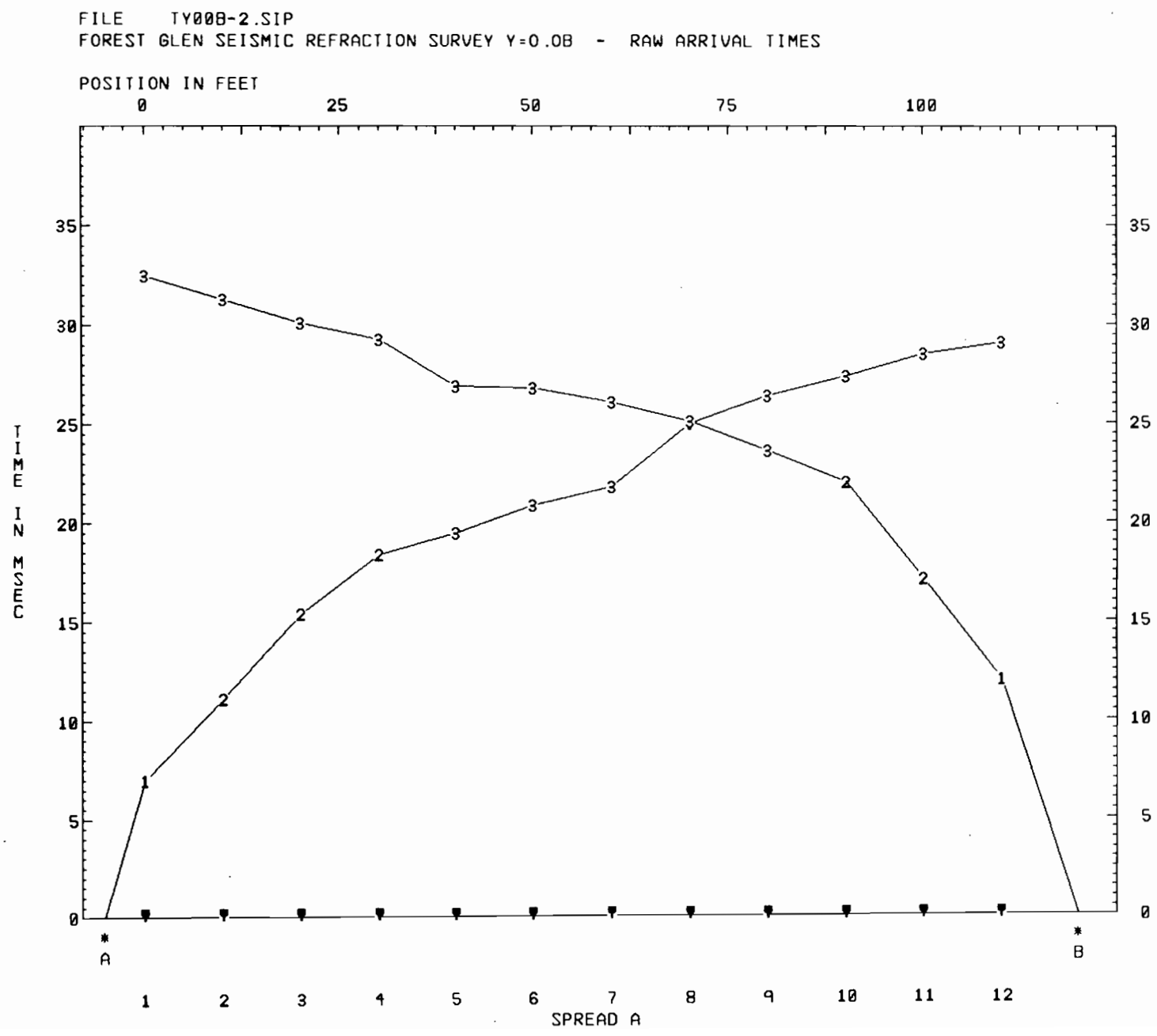
Wtd Avg Velocity computed for Layer 3 = 9362

FILE TY00B-2.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=0.0B
SPREAD A



LEGEND

- PHONE LOCATION
- * SHOT POINT
- A ,B EMERGENT RAY OF SP A ,B
- ? QUESTIONABLE EMERGENT RAY
- S RAY ENTRY POINT BENEATH SP


FILE TY00B-2.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=0.0B - RAW ARRIVAL TIMES
POSITION IN FEET
0
25
50
75
100
TIME IN MSEC
35
30
25
20
15
10
5
0
A
B
1
2
3
4
5
6
7
8
9
10
11
12
SPREAD A

VELOCITY ANALYSIS TABLES for TY00B-2.SIP

yer 1 Velocity from direct arrivals for TY00B-2.SIP

Spread A	SP	Geo	DD	V	Avg V
	A	1	5.0	714	
					714
	B	12	10.0	833	
					833

Wtd Avg Velocity computed for Layer 1 = 774

Layer 2 Velocity computed by regression for TY00B-2.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	2 4	5.9	2759	2759	5.9	3
2049	7.4	10 11	B				2049	7.4	2
						Avg =	2423	for	5 Pts

Layer 2 Velocity computed by Hobson-Overton method for TY00B-2.SIP

Not enough points.

i Avg Velocity computed for Layer 2 = 2423

Layer 3 Velocity computed by regression for TY00B-2.SIP

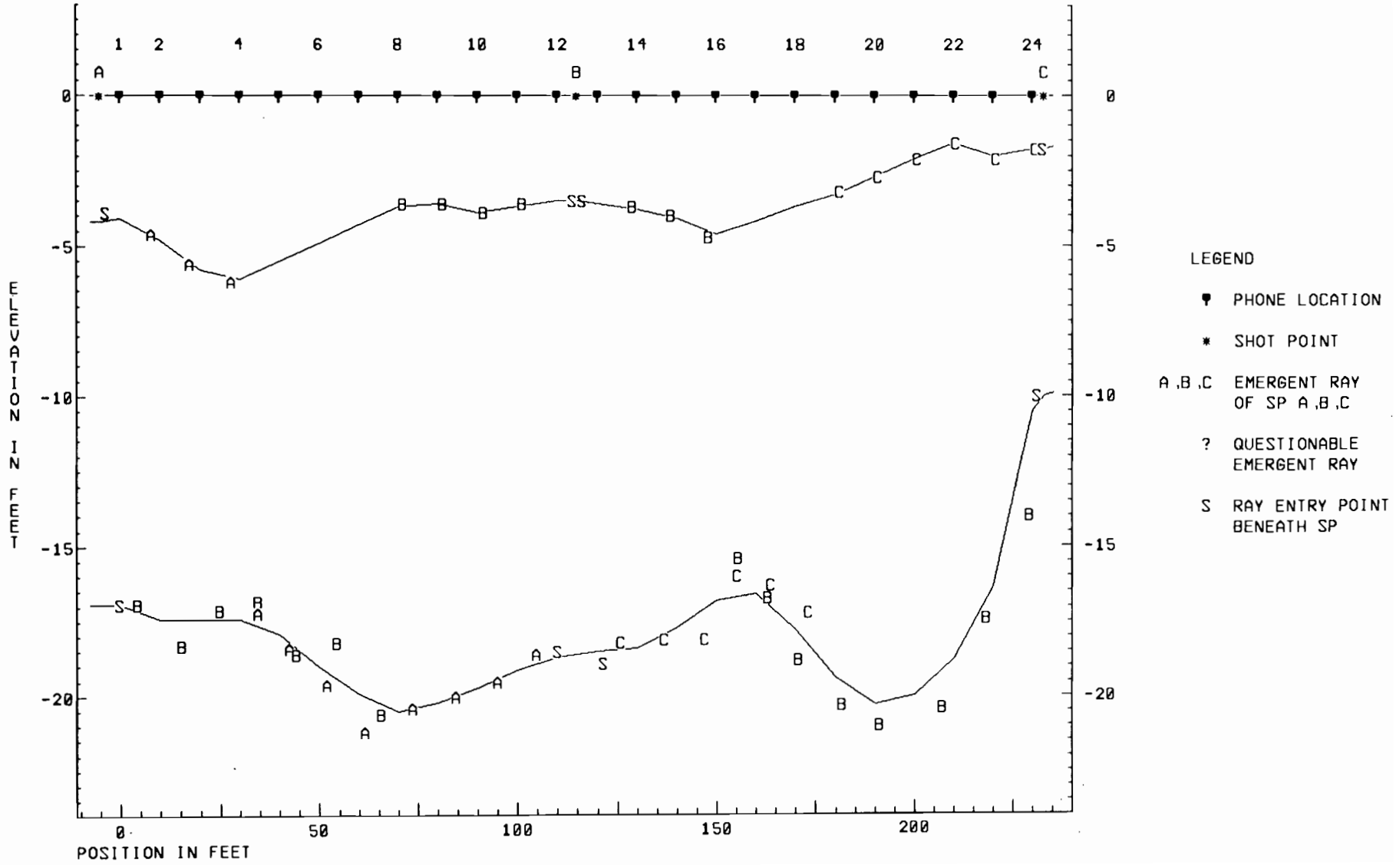
Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	5 12	13.0	6805	6805	13.0	8
9315	19.4	1 9	B				9315	19.4	9
						Avg =	7938	for	17 Pts

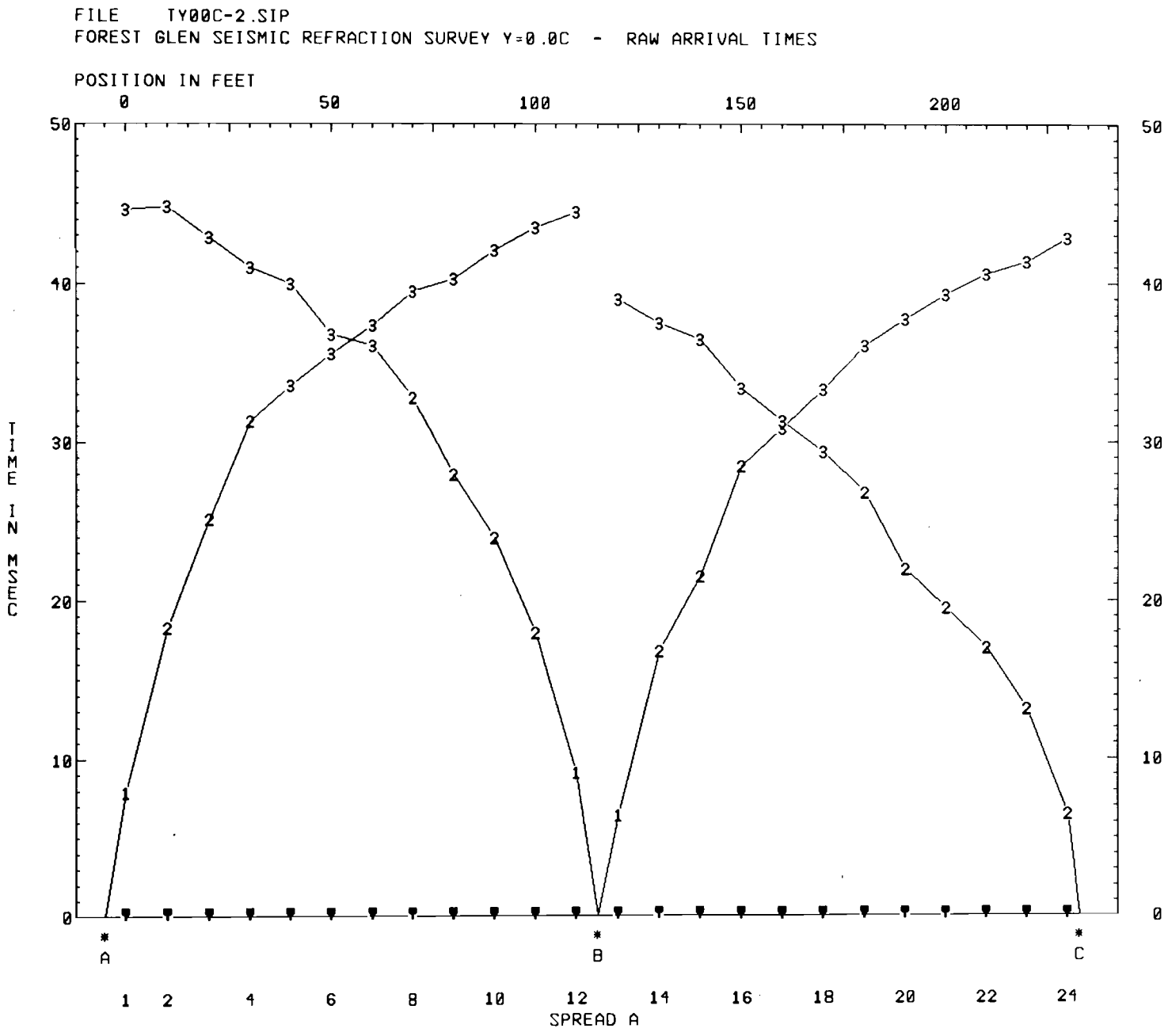
Layer 3 Velocity computed by Hobson-Overton method for TY00B-2.SIP

Spread A SPs	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A B	5 9	7675	-3.7	0.771	-1.366	7	0.816	5	0.542	9	0.278	8
Avg =		7675	for	5 Pts								

Wtd Avg Velocity computed for Layer 3 = 7840

FILE TY00C-2.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=0.0C
SPREAD A




FILE TY00C-2.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=0.0C - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
TIME IN MSEC
0
10
20
30
40
50
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 24
SPREAD A

VELOCITY ANALYSIS TABLES for TY00C-2.SIP

yer 1 Velocity from direct arrivals for TY00C-2.SIP

Spread A	SP	Geo	DD	V	Avg V
	A	1	5.0	635	
					635
	B	12	5.0	548	
	B	13	5.0	784	
					666

Wtd Avg Velocity computed for Layer 1 = 656

Layer 2 Velocity computed by regression for TY00C-2.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	2 4	8.6	1538	1538	8.6	3
2073	11.2	8 11	B	14 16	7.6	1702	1896	9.4	7
2684	7.0	19 24	C				2684	7.0	6
							Avg = 2031	for	16 Pts

Layer 2 Velocity computed by Hobson-Overton method for TY00C-2.SIP

Not enough points.

Wtd Avg Velocity computed for Layer 2 = 2031

Layer 3 Velocity computed by regression for TY00C-2.SIP

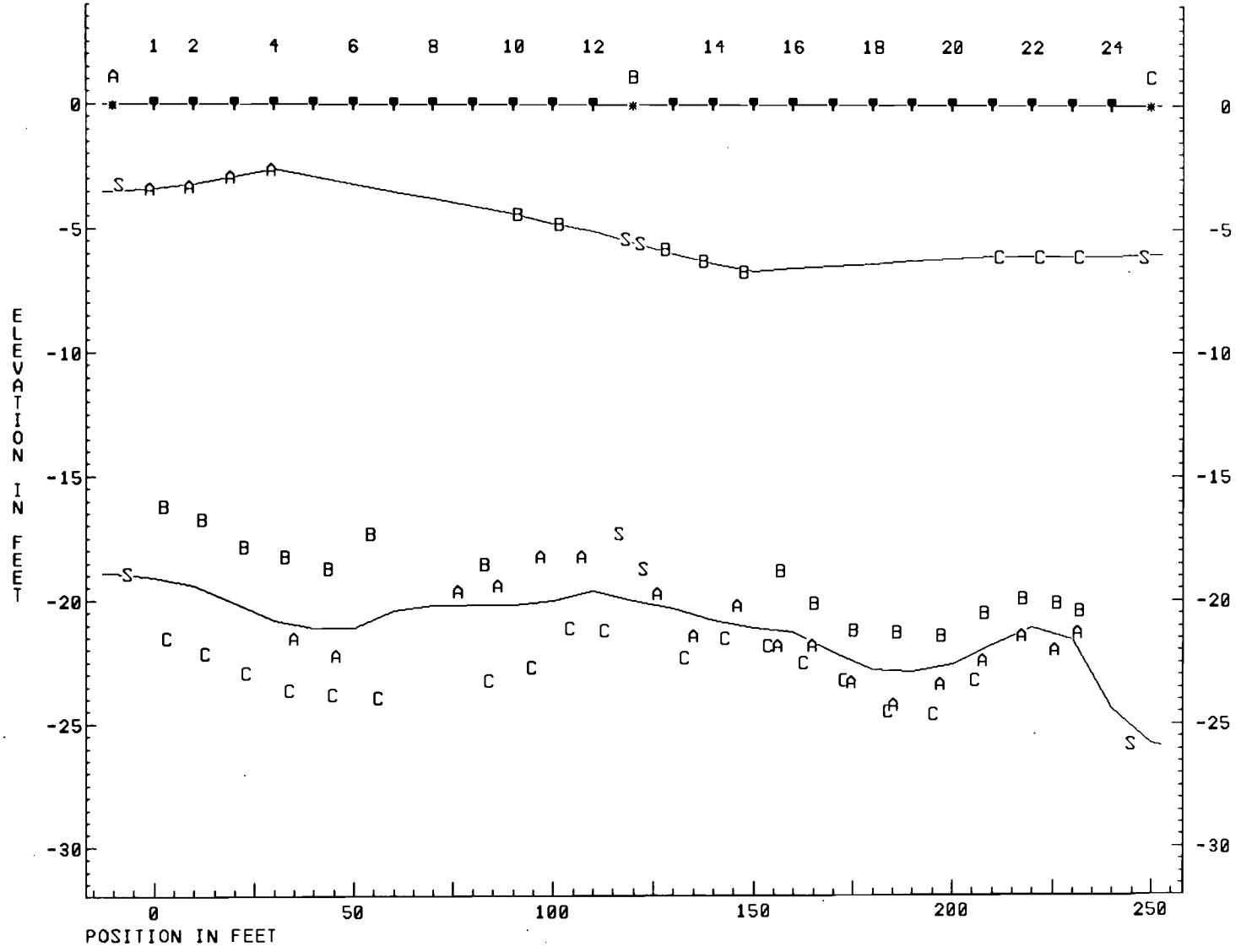
Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	5 12	27.1	6434	6434	27.1	8
6311	27.4	1 7	B	17 24	24.5	6014	6149	25.9	15
4998	16.9	13 18	C				4998	16.9	6
							Avg = 5938	for	29 Pts

Layer 3 Velocity computed by Hobson-Overton method for TY00C-2.SIP

Spread A SPs	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A B	5 7	5242	-0.2	0.676	0.957	6	-0.478	7	-0.478	5		
B C	17 18	4695	5.6	0.000	-0.000	17	-0.000	18				
Avg =		5023	for	5 Pts								

Wtd Avg Velocity computed for Layer 3 = 5704

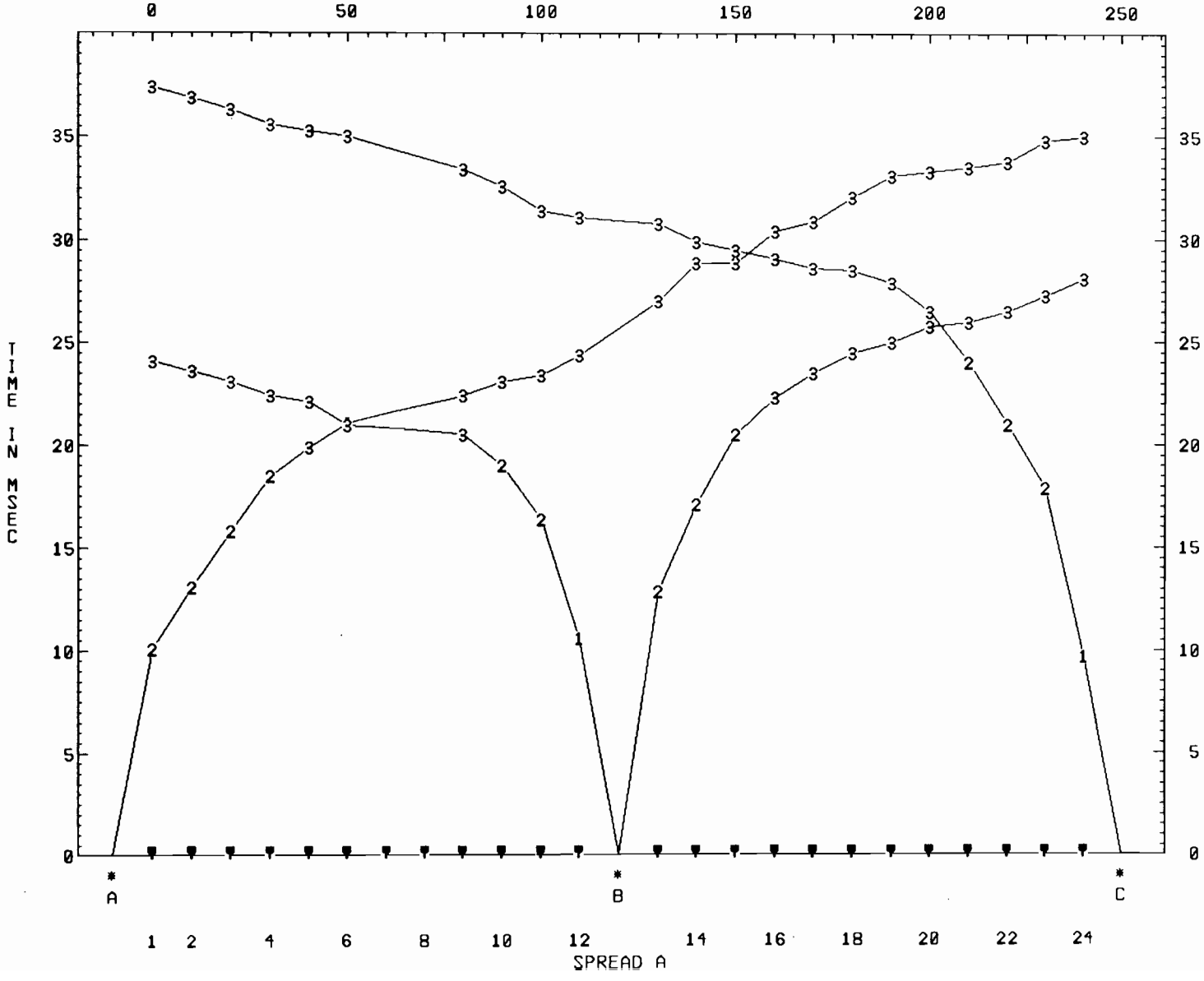
FILE TY10-4.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=1.0
SPREAD A



LEGEND

- PHONE LOCATION
- * SHOT POINT
- A,B,C EMERGENT RAY OF SP A,B,C
- ? QUESTIONABLE EMERGENT RAY
- S RAY ENTRY POINT BENEATH SP

FILE TY10-4.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=1.0 - RAW ARRIVAL TIMES



VELOCITY ANALYSIS TABLES for TY10-4.SIP

yer 1 Velocity from direct arrivals for TY10-4.SIP

Spread A	SP	Geo	DD	V	Avg V
	B	12	10.0	942	
					942
	C	24	10.0	1031	
					1031

Wtd Avg Velocity computed for Layer 1 = 986

Layer 2 Velocity computed by regression for TY10-4.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	1 4	7.4	3601	3601	7.4	4
3802	11.1	10 11	B	13 15	9.2	2621	2993	10.2	5
3263	11.8	21 23	C				3263	11.8	3
						Avg =	3243	for	12 Pts

Layer 2 Velocity computed by Hobson-Overton method for TY10-4.SIP

Not enough points.

..d Avg Velocity computed for Layer 2 = 3243

Layer 3 Velocity computed by regression for TY10-4.SIP

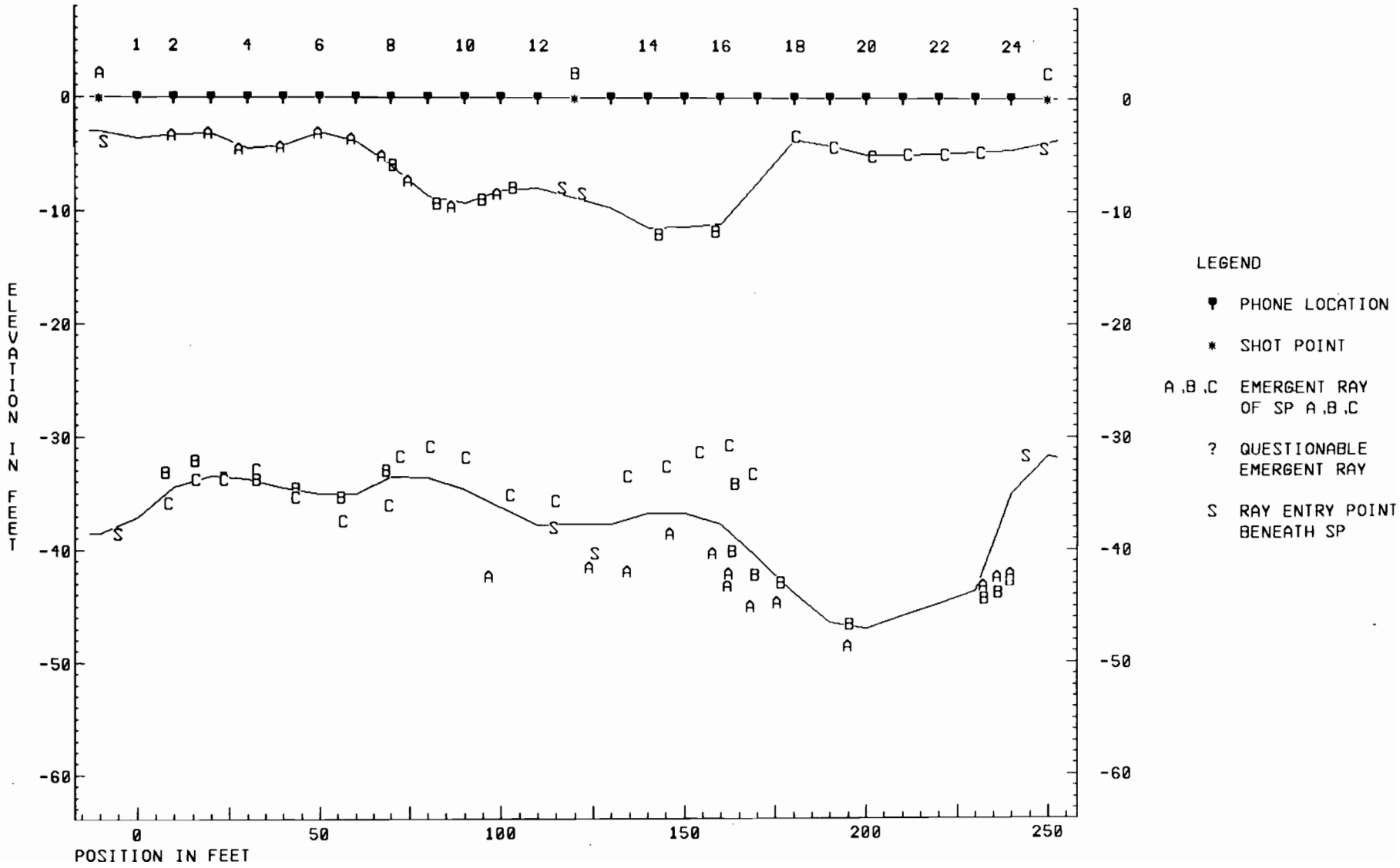
Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	5 24	15.5	12160	12160	15.5	18
20765	18.2	1 9	B	16 24	20.1	15102	17148	19.2	16
19397	24.4	1 20	C				19397	24.4	18
						Avg =	15563	for	52 Pts

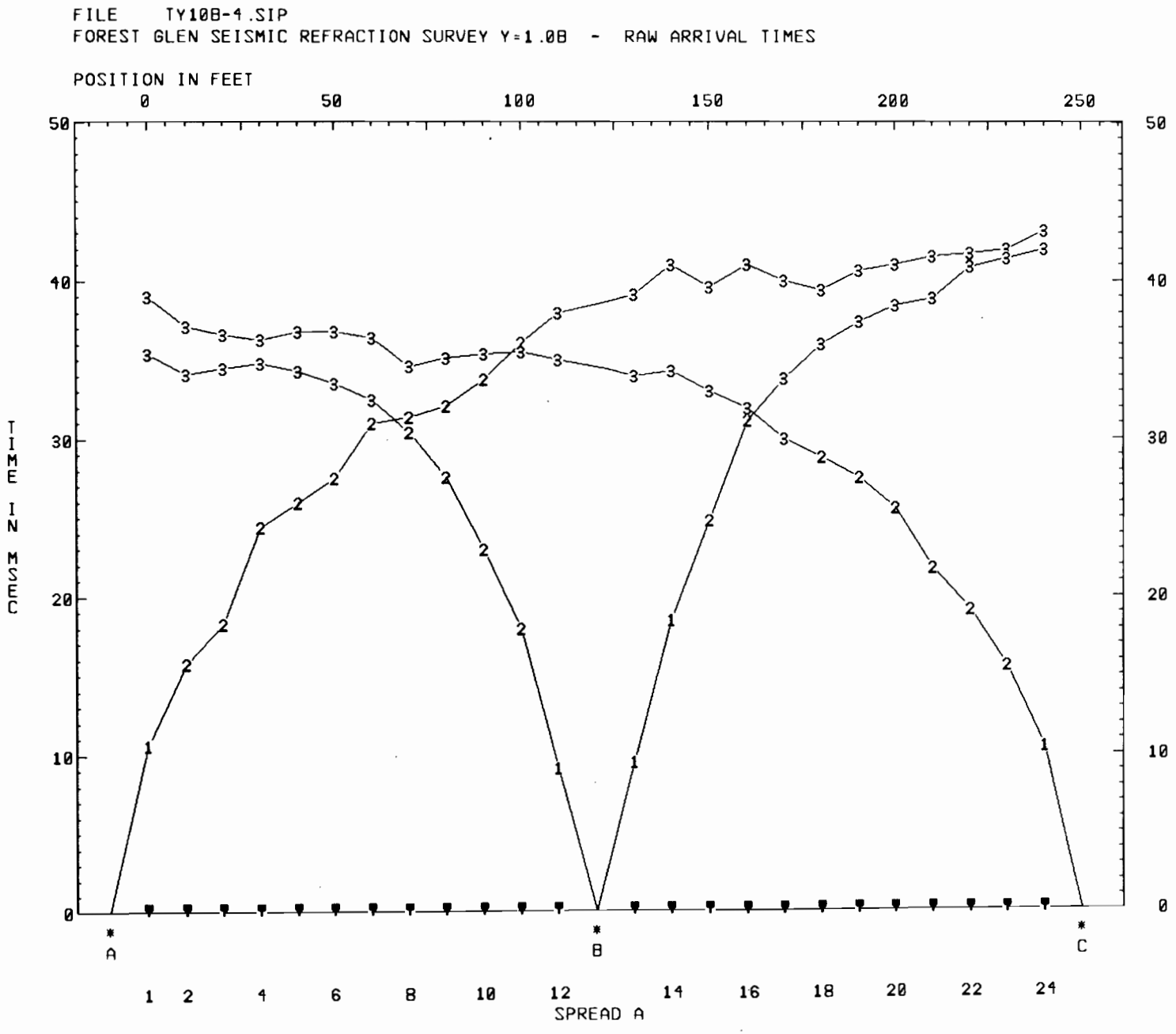
Layer 3 Velocity computed by Hobson-Overton method for TY10-4.SIP

Spread A SPs	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A B	5 9	21577	-0.2	0.607	0.825	6	-0.618	5	-0.206	9		
A C	5 20	14204	-4.7	0.495	0.920	14	0.712	6	-0.632	9	0.620	5
B C	16 20	13803	-3.2	0.247	-0.397	19	0.274	20	0.251	17	-0.078	18
		Avg = 15118	for	22 Pts								

Wtd Avg Velocity computed for Layer 3 = 15359

FILE TY10B-4.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=1.0B
SPREAD A




FILE TY10B-4.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=1.0B - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
250
TIME IN MSEC
0
10
20
30
40
50
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 24
SPREAD A

VELOCITY ANALYSIS TABLES for TY10B-4.SIP

yer 1 Velocity from direct arrivals for TY10B-4.SIP

Spread A	SP	Geo	DD	V	Avg V
	A	1	10.0	942	
					942
	B	12	10.0	1096	
	B	13	10.0	1053	
	B	14	20.0	1081	
					1077
	C	24	10.0	964	
					964

Wtd Avg Velocity computed for Layer 1 = 1027

Layer 2 Velocity computed by regression for TY10B-4.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	2 11	13.8	4712	4712	13.8	10
2396	10.1	8 11	B	15 16	5.6	1570	2039	7.9	6
3688	10.9	18 23	C				3688	10.9	6
							Avg = 3287	for	22 Pts

yer 2 Velocity computed by Hobson-Overton method for TY10B-4.SIP

Spread A			Avg	Std Err	4 Highest Std Err at geophones							
SPs	Geos	V	TdSP	Overall	Err	Geo	Err	Geo	Err	Geo	Err	Geo
A B	8 11	3472	-8.7	0.985	-1.212	9	1.049	8	0.886	11	-0.723	10
	Avg =	3472	for	4 Pts								

Wtd Avg Velocity computed for Layer 2 = 3336

Layer 3 Velocity computed by regression for TY10B-4.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	12 24	35.1	34392	34392	35.1	13
27723	30.9	1 7	B	17 24	28.9	8808	12922	29.9	15
27680	29.1	1 17	C				27680	29.1	17
							Avg = 20902	for	45 Pts

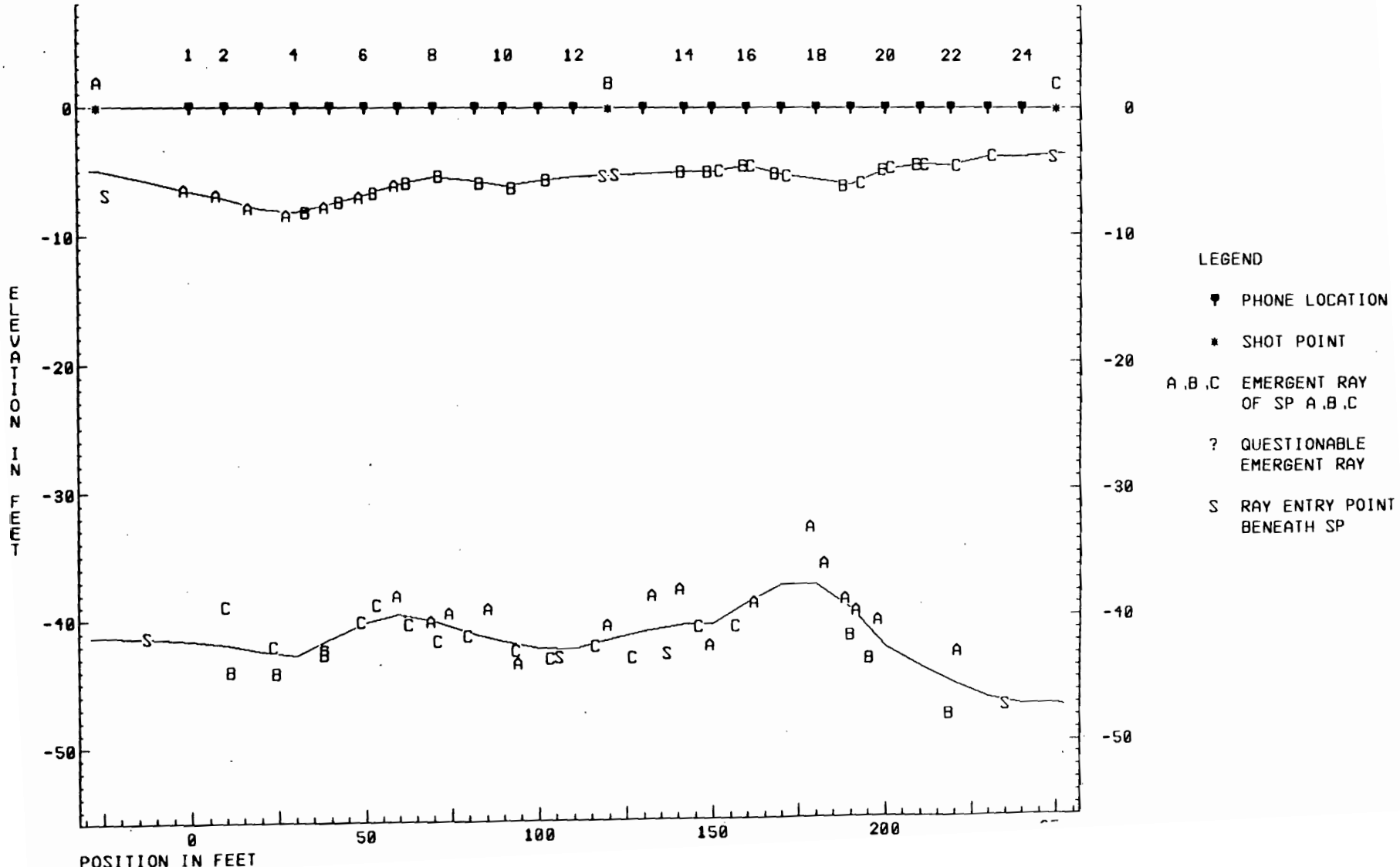
Layer 3 Velocity computed by Hobson-Overton method for TY10B-4.SIP

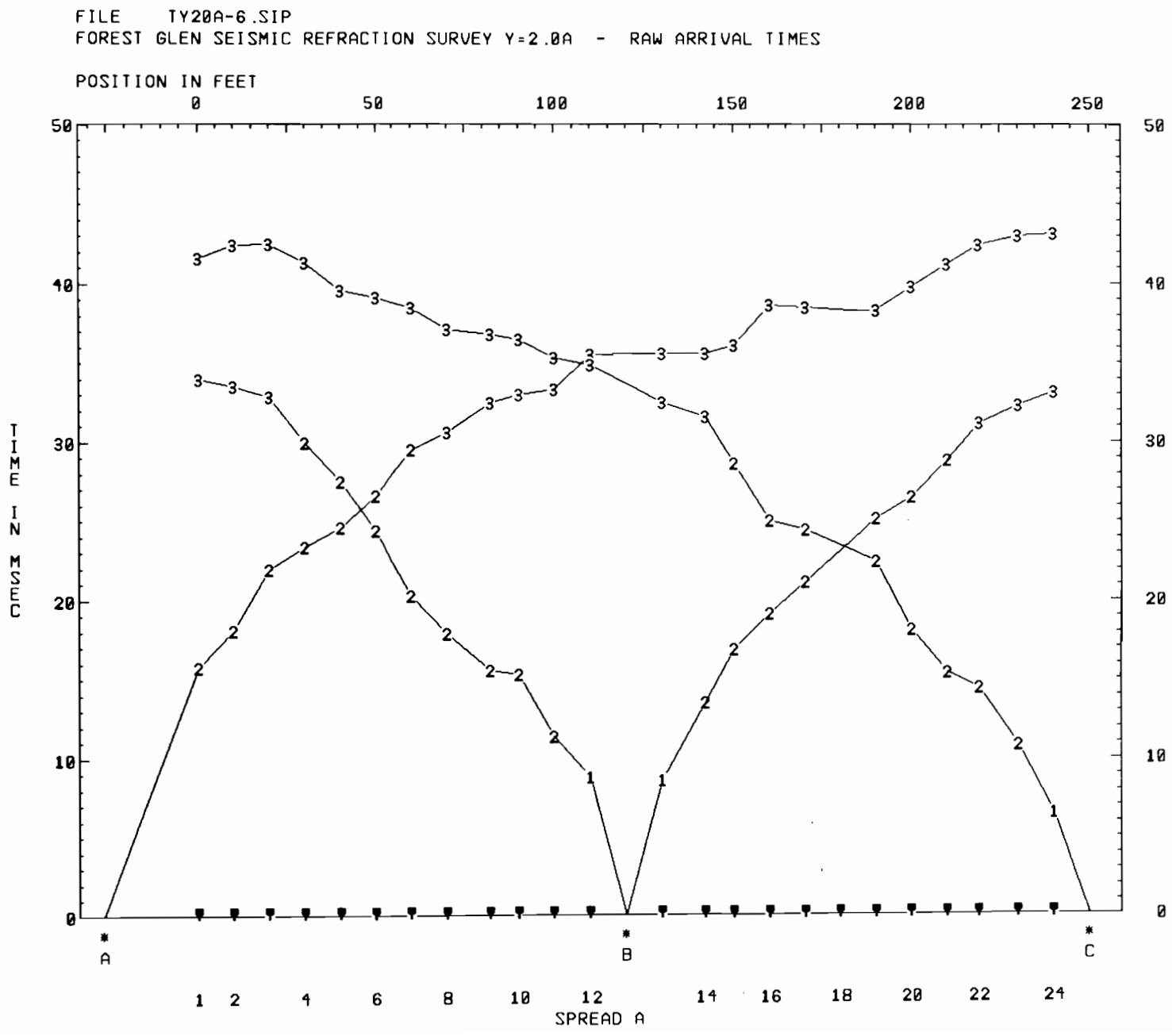
Spread A s	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A C	12 17	17144	4.0	0.448	-0.928	15	0.416	16	0.369	14	0.119	17
		17144										

Avg = 17144 for 6 Pts

Wtd Avg Velocity computed for Layer 3 = 20111

FILE TY20A-6.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=2.0A
SPREAD A




FILE TY20A-6.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=2.0A - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
250
TIME IN MSEC
0
10
20
30
40
50
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 24
SPREAD A

VELOCITY ANALYSIS TABLES for TY20A-6.SIP

Layer 1 Velocity from direct arrivals for TY20A-6.SIP

Spread A	SP	Geo	DD	V	Avg V
	B	12	10.0	1143	
	B	13	10.0	1159	
					1151
	C	24	10.0	1538	
					1538

Wtd Avg Velocity computed for Layer 1 = 1280

Layer 2 Velocity computed by regression for TY20A-6.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	1 7	10.7	4600	4600	10.7	7
3838	6.0	4 11	B	14 21	10.1	4747	4215	8.0	15
4757	7.5	15 23	C				4757	7.5	8
						Avg =	4436	for	30 Pts

Layer 2 Velocity computed by Hobson-Overton method for TY20A-6.SIP

Spread A s	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A B	4 7	3790	1.6	0.814	-0.886	6	0.837	7	0.788	4	-0.739	5
B C	15 21	5095	2.6	1.031	-1.780	19	1.366	16	0.999	21	-0.579	15
		4573	for	10 Pts								

Wtd Avg Velocity computed for Layer 2 = 4491

Layer 3 Velocity computed by regression for TY20A-6.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	8 24	24.7	14404	14404	24.7	16
17699	27.2	1 3	B	22 24	21.7	10486	13170	24.5	6
12860	23.6	1 14	C				12860	23.6	14
						Avg =	13559	for	36 Pts

Layer 3 Velocity computed by Hobson-Overton method for TY20A-6.SIP

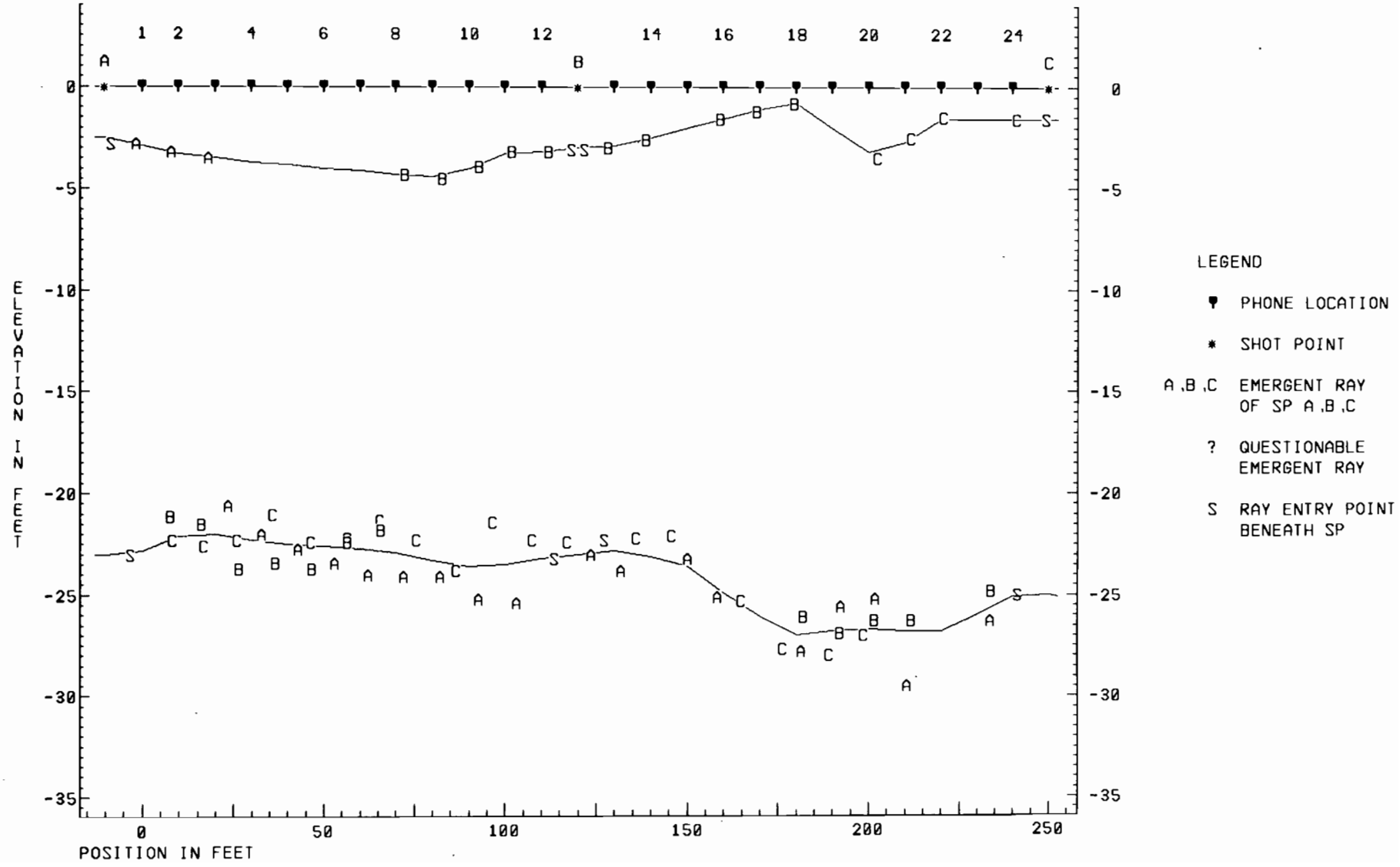
Spread	A			Avg	Std Err	4 Highest Std Err at geophones							
Pts		Geos	V	TdSP	Overall	Err	Geo	Err	Geo	Err	Geo	Err	Geo
A	C	8 14	13274	0.1	0.453	0.854	12	-0.597	14	0.331	13	-0.269	11
			13274										

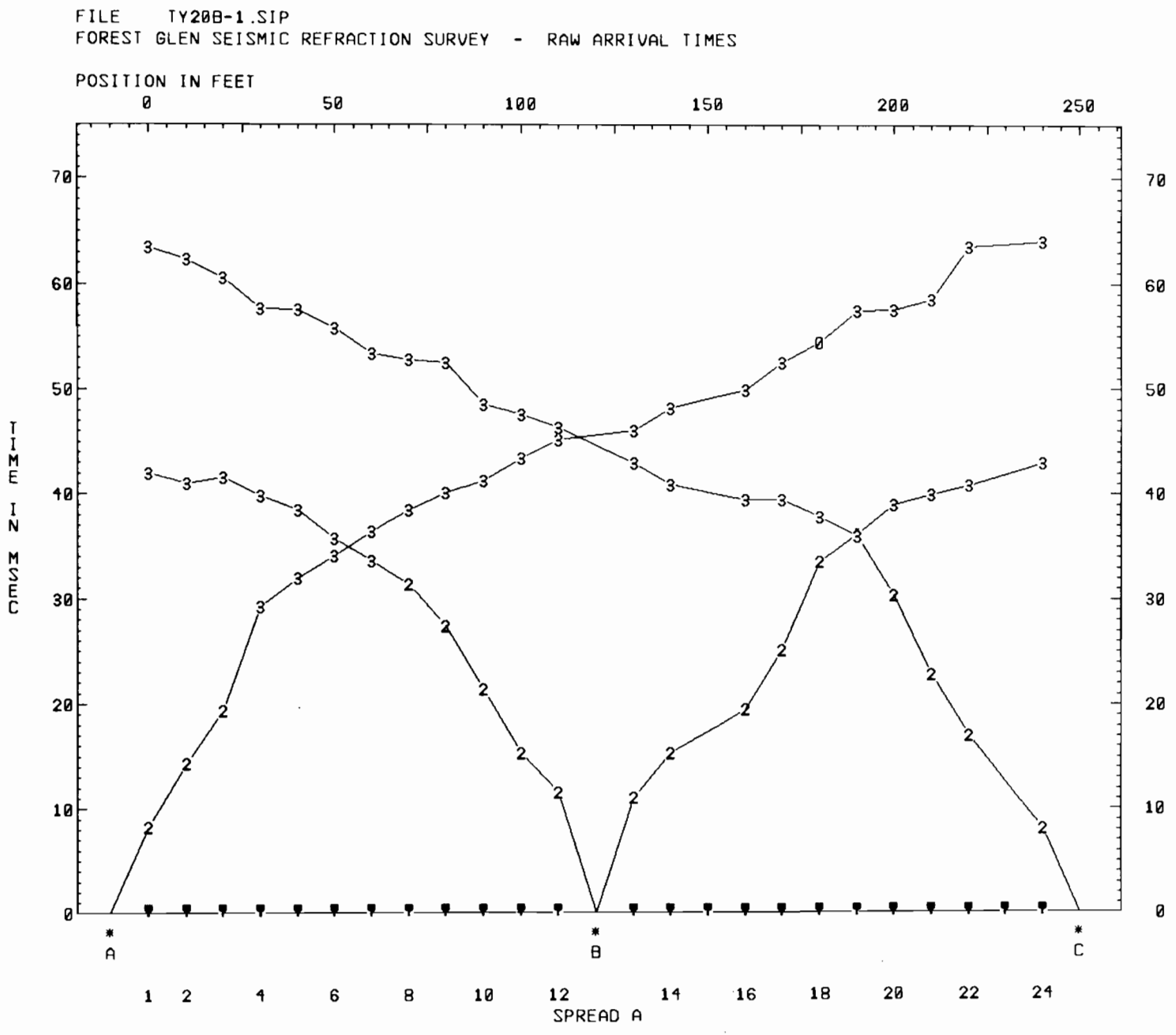
Avg = 13274 for 7 Pts

Wtd Avg Velocity computed for Layer 3 = 13479

FILE TY20B-1.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY

SPREAD A




FILE TY20B-1.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
250
70
60
50
40
30
20
10
0
TIME IN MSEC
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 24
SPREAD A

VELOCITY ANALYSIS TABLES for TY20B-1.SIP

Layer 1 Velocity from direct arrivals for TY20B-1.SIP

Spread A	SP	Geo	DD	V	Avg V
	No points				

Override Velocity assigned to Layer 1

Spread	A
	1000

Layer 2 Velocity computed by regression for TY20B-1.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	1 3	2.9	1799	1799	2.9	3
1937	5.9	8 12	B	13 18	6.2	2455	2166	6.1	10
1843	1.9	20 24	C				1843	1.9	4
							Avg = 2011	for	17 Pts

Layer 2 Velocity computed by Hobson-Overton method for TY20B-1.SIP

Not enough points.

Wtd Avg Velocity computed for Layer 2 = 2011

Layer 3 Velocity computed by regression for TY20B-1.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	4 24	24.7	6301	6301	24.7	18
7224	26.4	1 7	B	19 24	28.3	8044	7545	27.4	12
6871	26.5	1 19	C				6871	26.5	18
							Avg = 6792	for	48 Pts

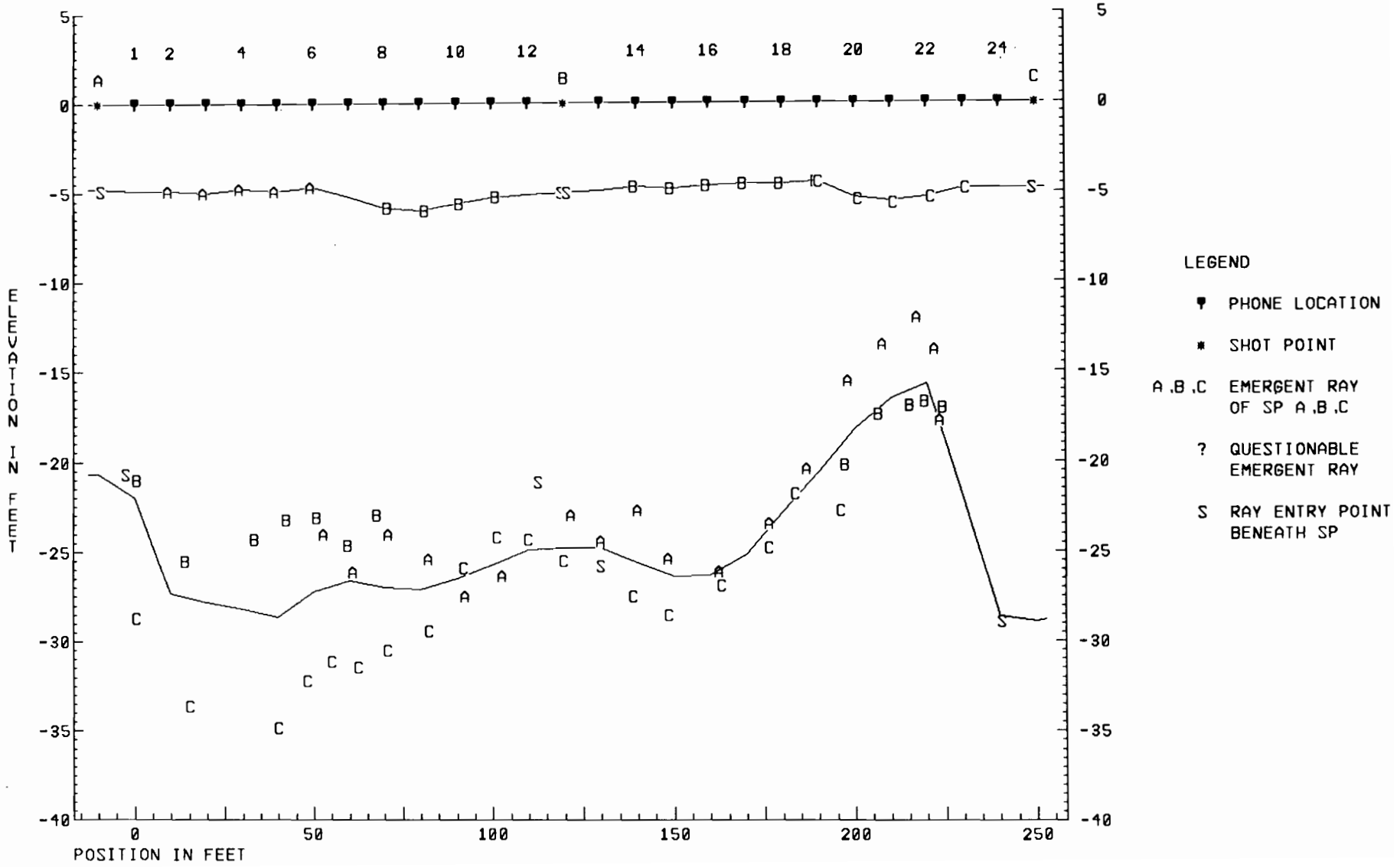
Layer 3 Velocity computed by Hobson-Overton method for TY20B-1.SIP

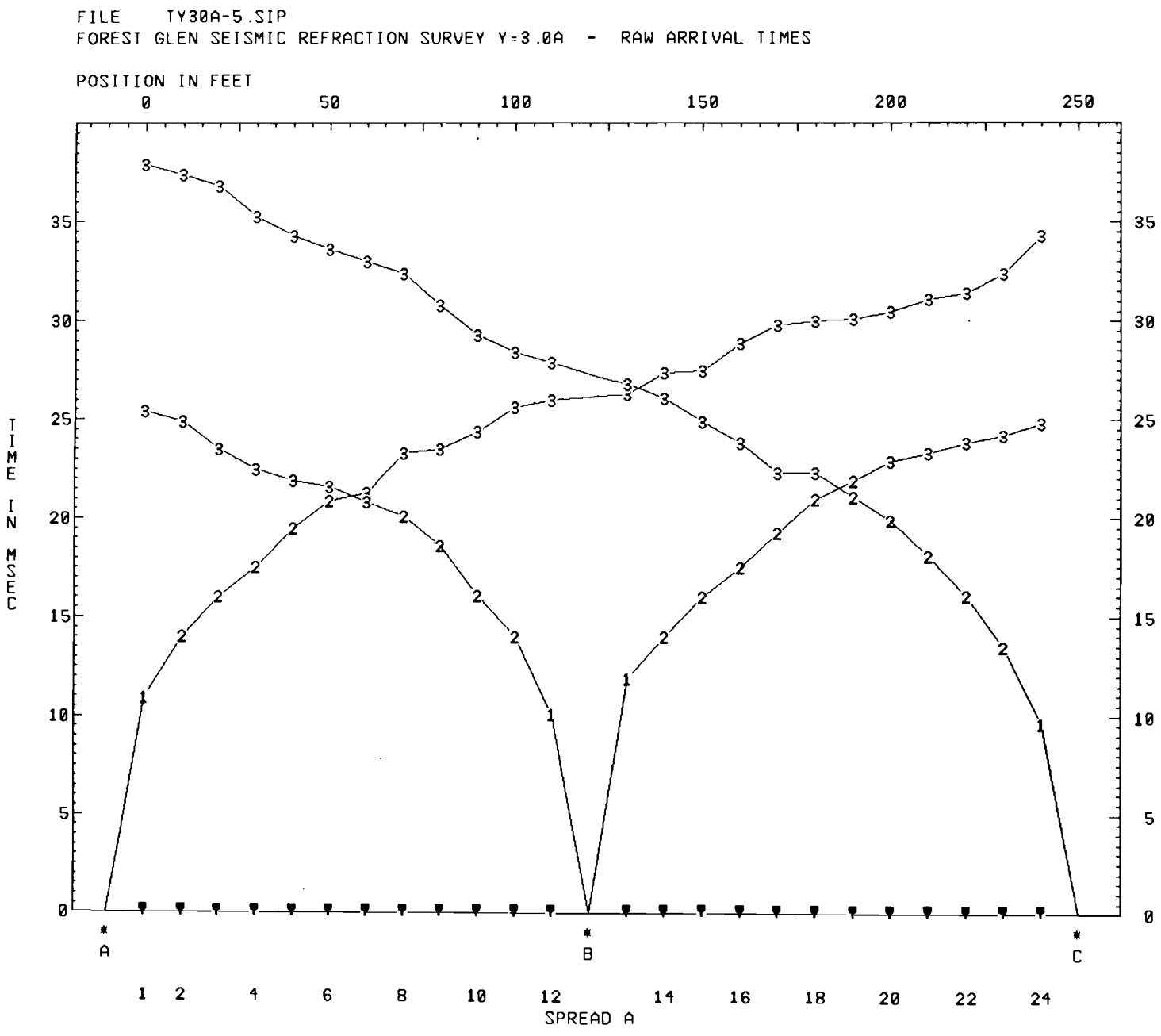
Spread A's		Geos		V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A	B	4	7	4482	0.5	0.179	-0.299	5	0.163	4	0.109	6	0.027	7
A	C	4	19	6648	0.1	1.285	-2.043	17	1.747	12	-1.665	16	1.644	10
				6167	for	18 Pts								

Avg =

Wtd Avg Velocity computed for Layer 3 = 6524

FILE TY30A-5.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=3.0A
SPREAD A




FILE TY30A-5.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=3.0A - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
250
TIME IN MSEC
0
5
10
15
20
25
30
35
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 24
SPREAD A

VELOCITY ANALYSIS TABLES for TY30A-5.SIP

Layer 1 Velocity from direct arrivals for TY30A-5.SIP

Spread A	SP	Geo	DD	V	Avg V
	A	1	10.0	920	
					920
	B	12	10.0	988	
	B	13	10.0	842	
					915
	C	24	10.0	1039	
					1039

Wtd Avg Velocity computed for Layer 1 = 947

Layer 2 Velocity computed by regression for TY30A-5.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	2 6	10.7	5800	5800	10.7	5
4794	9.9	8 11	B	14 19	11.1	6239	5568	10.5	10
5266	10.2	19 23	C				5266	10.2	5
						Avg =	5544	for	20 Pts

Layer 2 Velocity computed by Hobson-Overton method for TY30A-5.SIP

Not enough points.

Wtd Avg Velocity computed for Layer 2 = 5544

Layer 3 Velocity computed by regression for TY30A-5.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	7 24	18.1	16436	16436	18.1	18
12733	15.9	1 7	B	20 24	19.0	21053	15243	17.4	12
11146	15.6	1 18	C				11146	15.6	18
						Avg =	13725	for	48 Pts

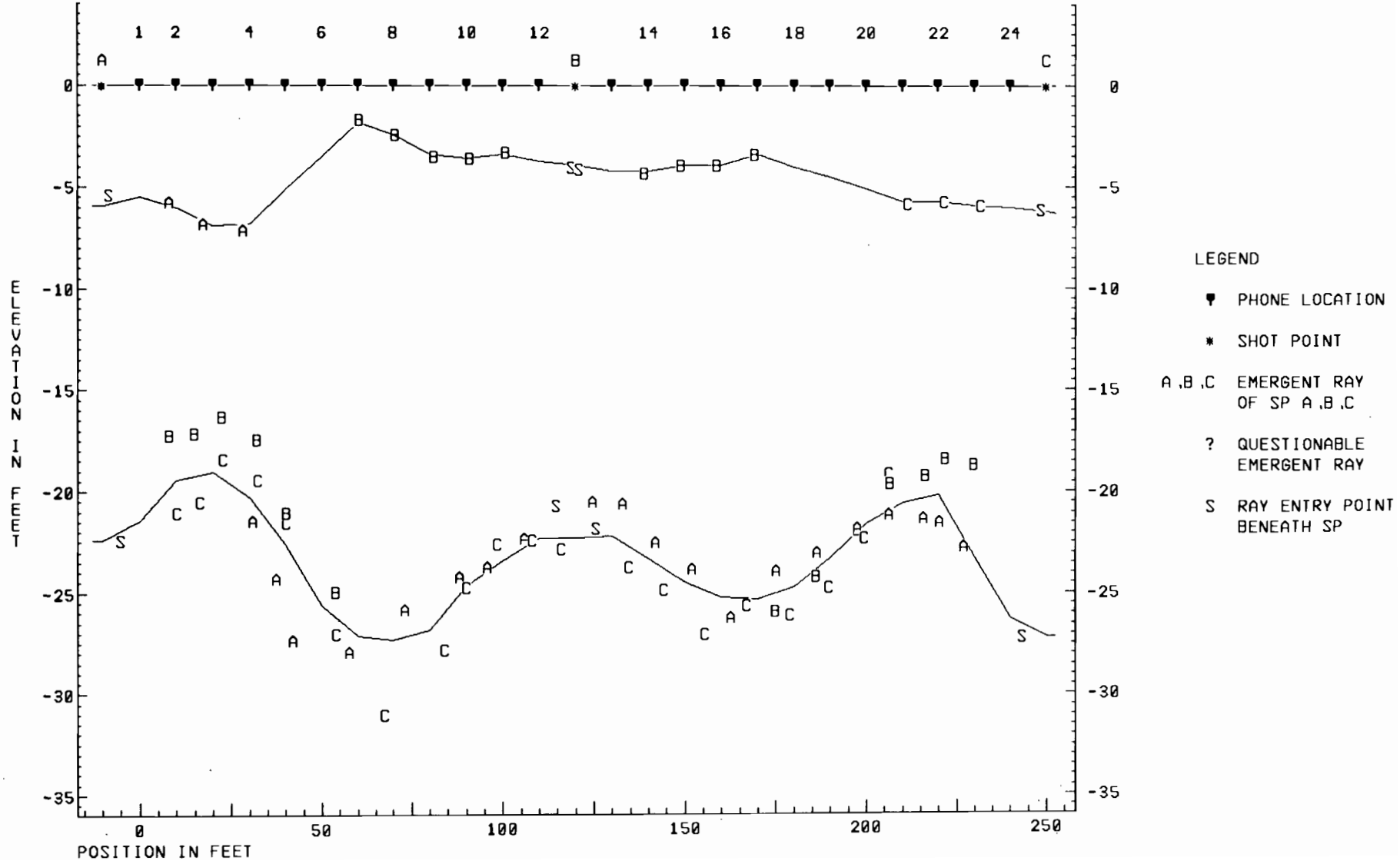
Layer 3 Velocity computed by Hobson-Overton method for TY30A-5.SIP

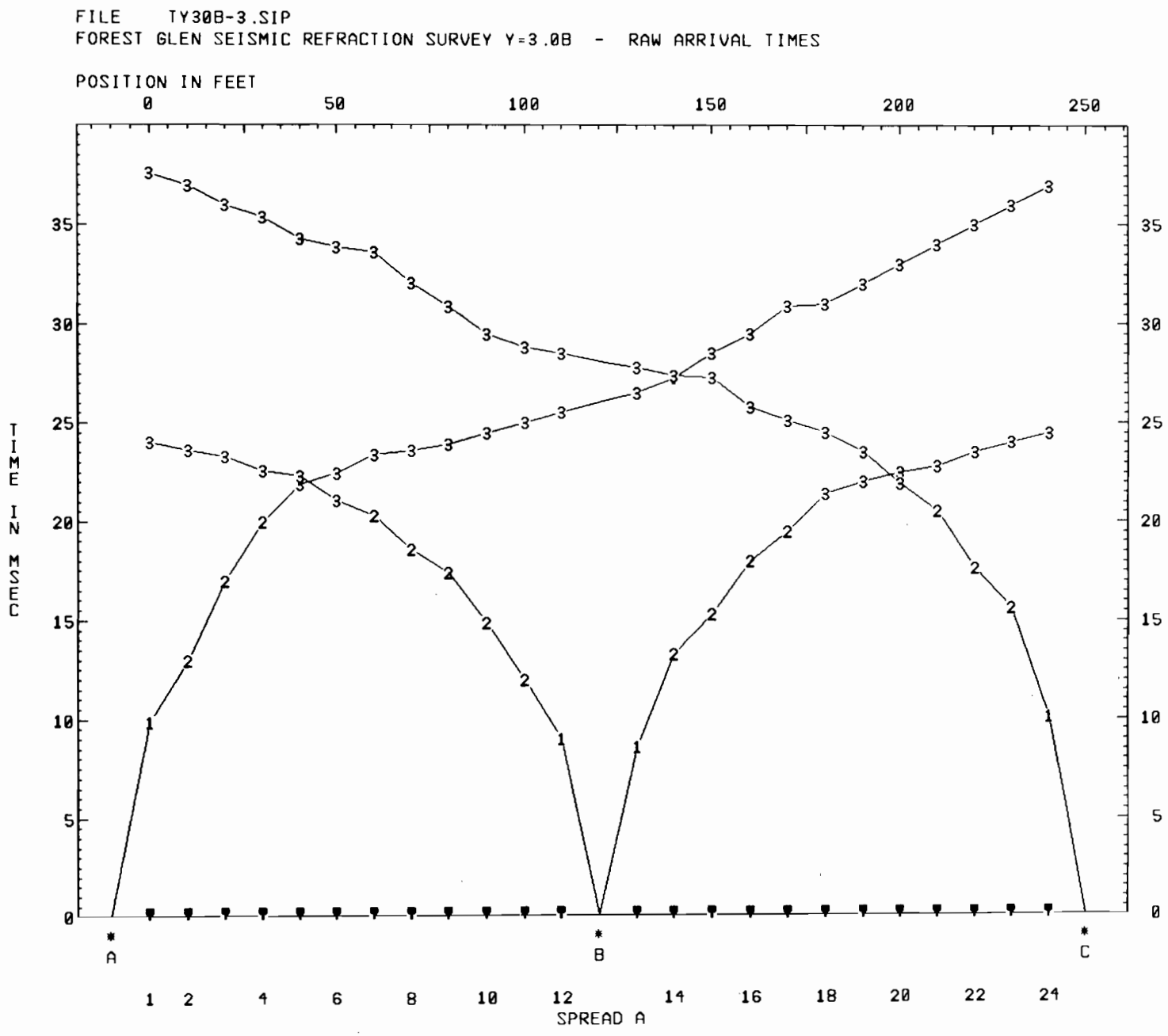
Spread CDPs	A Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A C	7 18	12932	-1.2	0.845	1.499	11	-1.315	7	0.923	17	0.916	10

Avg = 12932 for 12 Pts

Wtd Avg Velocity computed for Layer 3 = 13460

FILE TY30B-3.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=3.0B
SPREAD A




FILE TY30B-3.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=3.0B - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
250
TIME IN MSEC
0
5
10
15
20
25
30
35
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 24
SPREAD A

VELOCITY ANALYSIS TABLES for TY30B-3.SIP

Layer 1 Velocity from direct arrivals for TY30B-3.SIP

Spread A	SP	Geo	DD	V	Avg V
	A	1	10.0	1013	
					1013
	B	12	10.0	1111	
	B	13	10.0	1159	
					1135
	C	24	10.0	988	
					988

Wtd Avg Velocity computed for Layer 1 = 1068

Layer 2 Velocity computed by regression for TY30B-3.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	2 4	6.2	2857	2857	6.2	3
4938	8.5	7 11	B	14 17	9.0	4651	4806	8.7	9
4098	10.6	21 23	C				4098	10.6	3
						Avg =	4105	for	15 Pts

Layer 2 Velocity computed by Hobson-Overton method for TY30B-3.SIP

Not enough points.

Wtd Avg Velocity computed for Layer 2 = 4105

Layer 3 Velocity computed by regression for TY30B-3.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	5 24	17.2	13323	13323	17.2	20
18286	17.6	1 6	B	18 24	18.3	19458	18899	18.0	13
13491	18.8	1 20	C				13491	18.8	20
						Avg =	14435	for	53 Pts

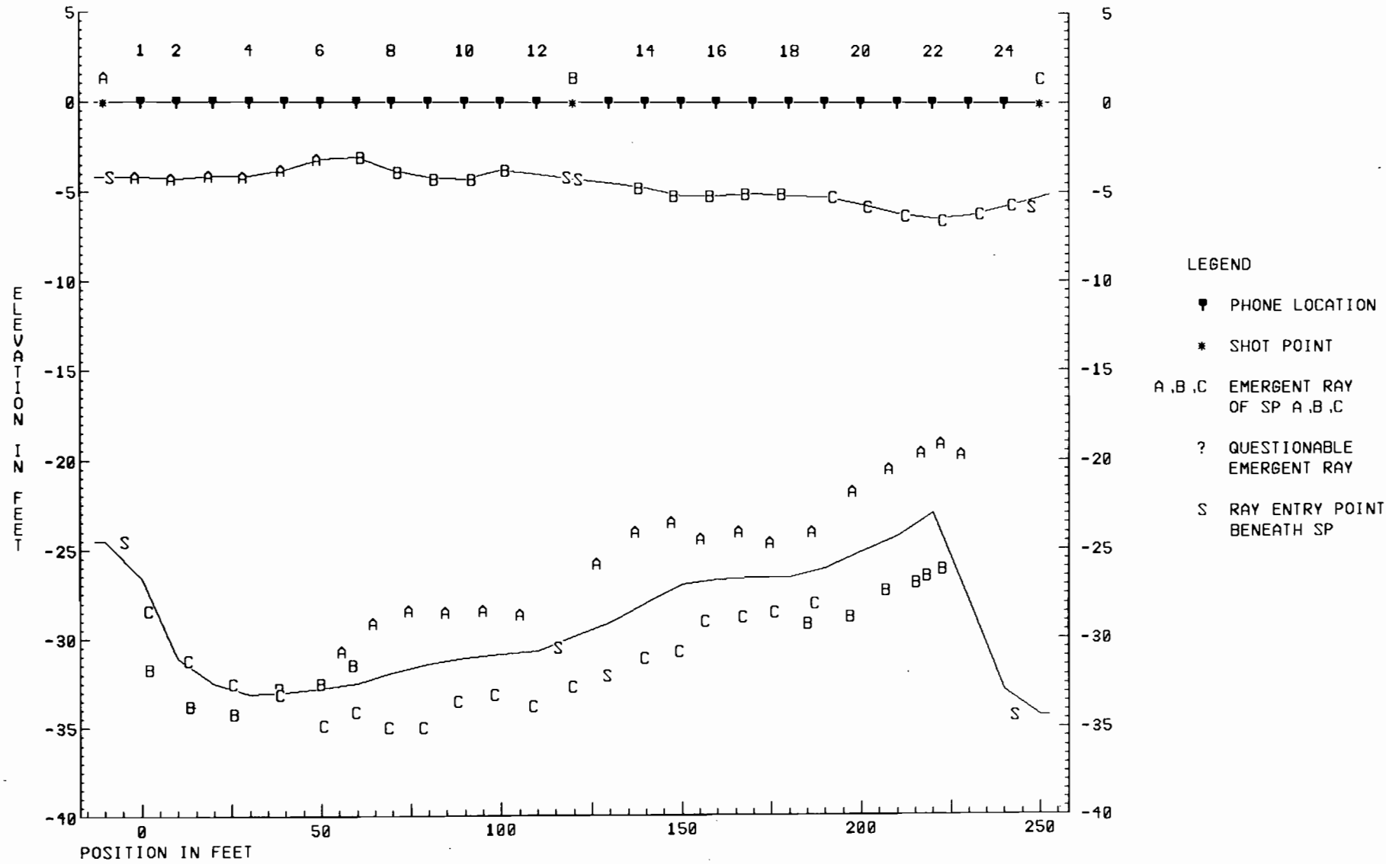
Layer 3 Velocity computed by Hobson-Overton method for TY30B-3.SIP

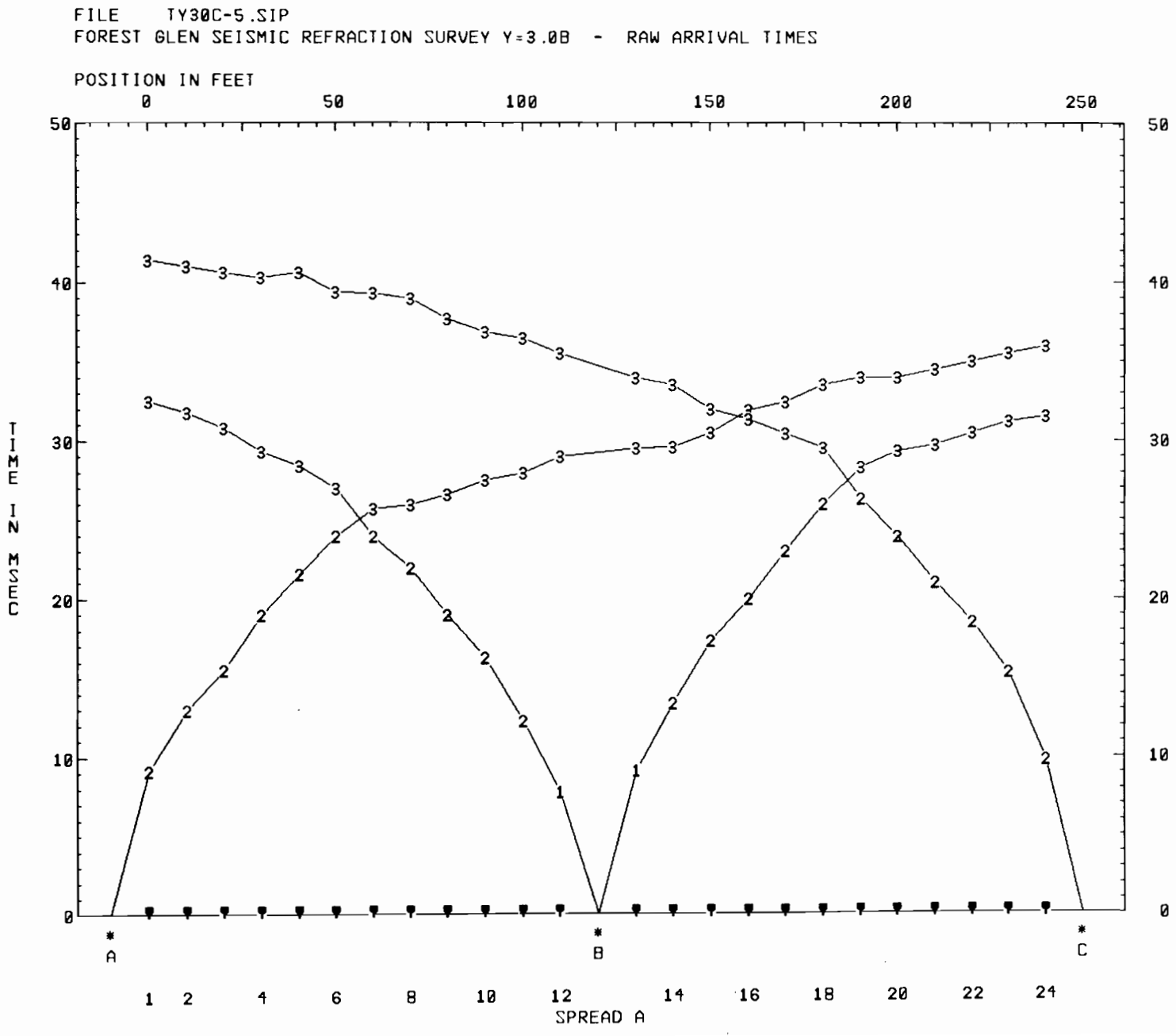
Spread A SPs	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A B	5 6	11364	2.3	0.000	-0.000	5	-0.000	6				
A C	5 20	14324	-1.6	0.738	1.569	20	-1.330	15	-1.304	14	-1.038	13
B C	18 20	10638	-2.3	0.118	-0.167	19	0.083	20	0.083	18		

Avg = 13515 for 21 Pts

Wtd Avg Velocity computed for Layer 3 = 14029

FILE TY30C-5.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=3.0B
SPREAD A




FILE TY30C-5.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY Y=3.0B - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
250
TIME IN MSEC
0
10
20
30
40
50
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 24
SPREAD A

VELOCITY ANALYSIS TABLES for TY30C-5.SIP

Layer 1 Velocity from direct arrivals for TY30C-5.SIP

Spread A	SP	Geo	DD	V	Avg V
	B	12	10.0	1290	
	B	13	10.0	1096	
					1193

Wtd Avg Velocity computed for Layer 1 = 1193

Layer 2 Velocity computed by regression for TY30C-5.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	1 6	6.7	3373	3373	6.7	6
3419	7.0	7 11	B	14 18	7.5	3225	3319	7.3	10
3153	8.0	19 24	C				3153	8.0	6
						Avg =	3286	for	22 Pts

Layer 2 Velocity computed by Hobson-Overton method for TY30C-5.SIP

Not enough points.

Wtd Avg Velocity computed for Layer 2 = 3286

Layer 3 Velocity computed by regression for TY30C-5.SIP

Spread A

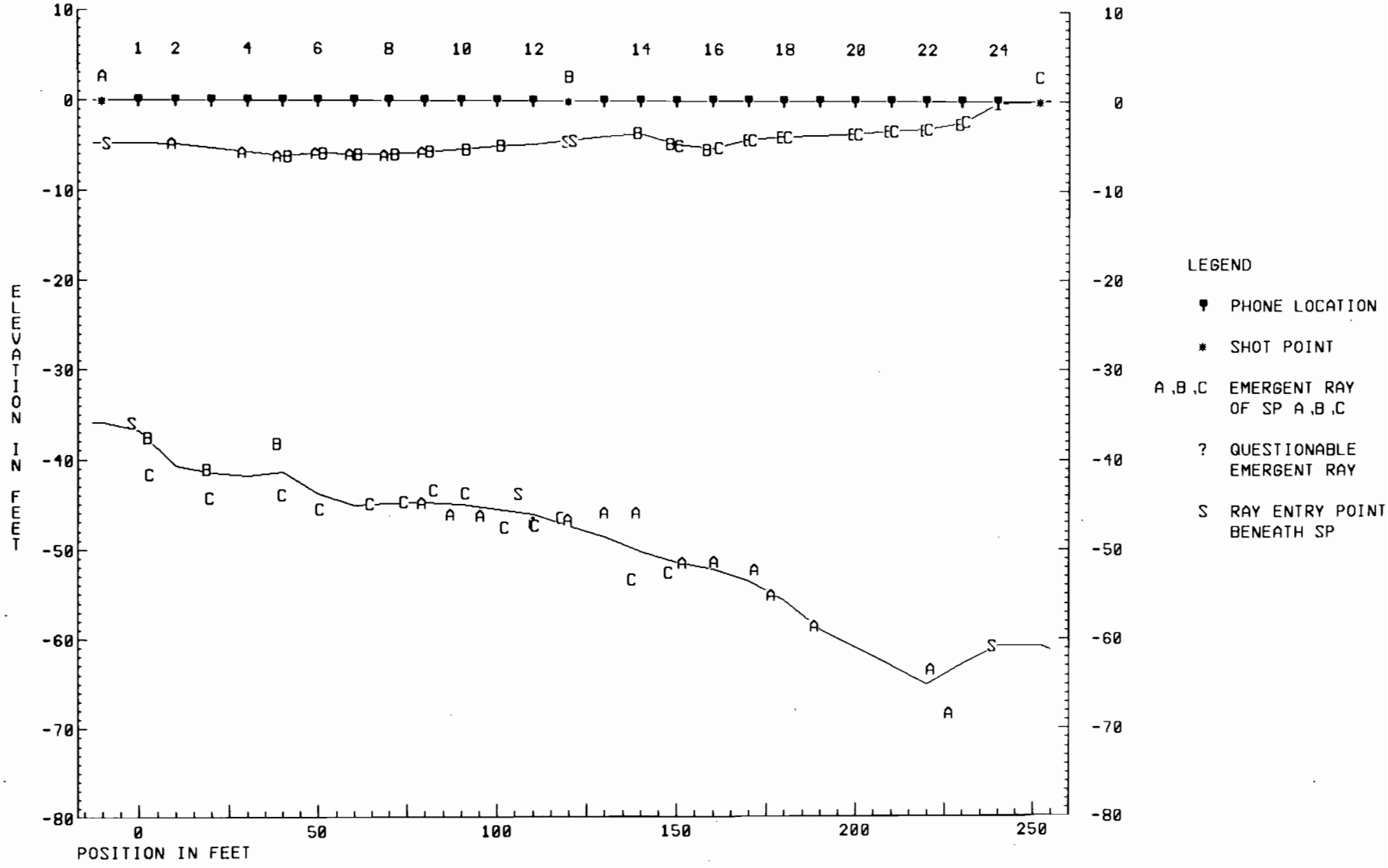
V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	7 24	21.4	16749	16749	21.4	18
8929	19.3	1 6	B	19 24	24.0	15597	11356	21.6	12
14741	25.6	1 18	C				14741	25.6	18
						Avg =	14318	for	48 Pts

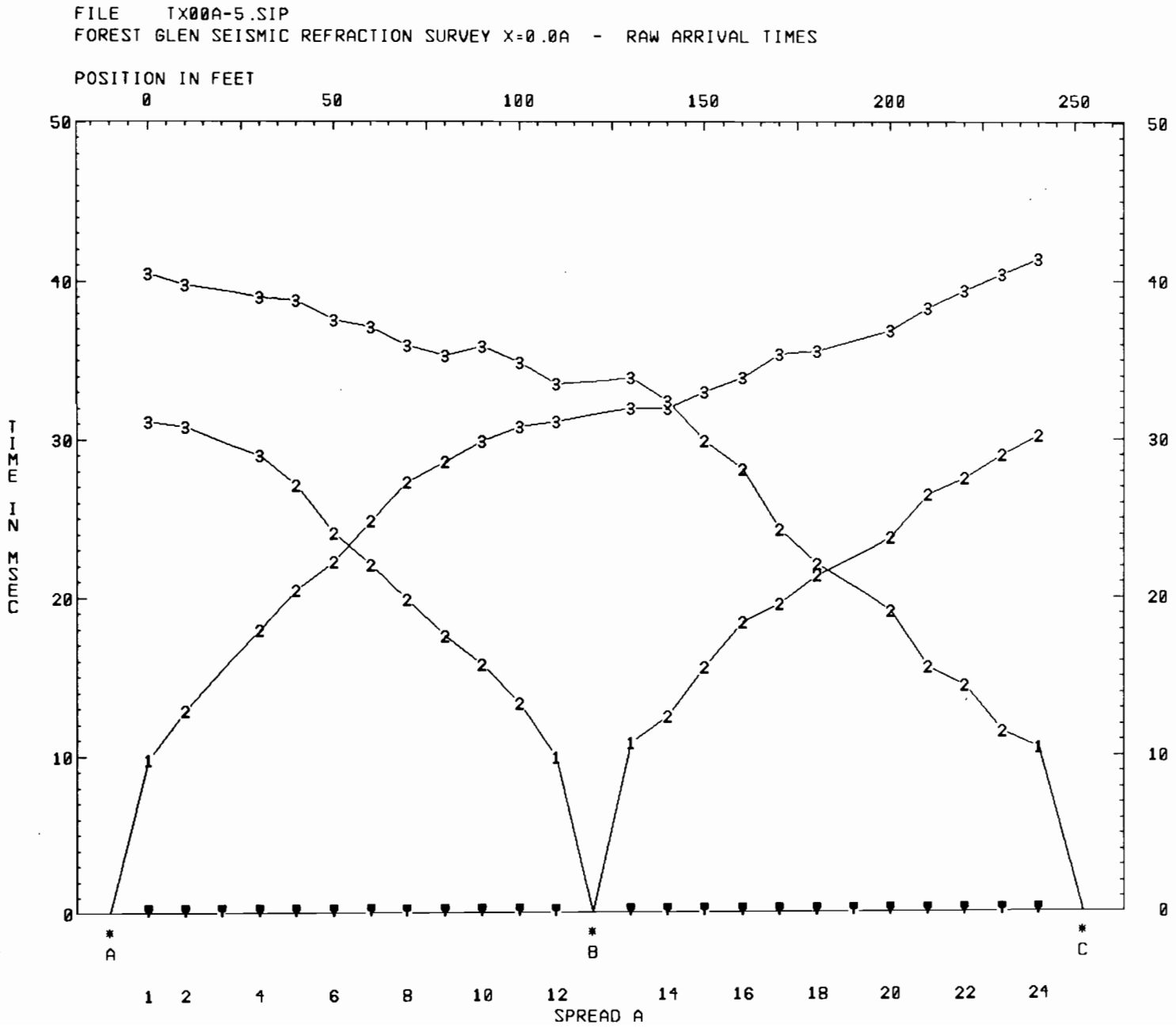
Layer 3 Velocity computed by Hobson-Overton method for TY30C-5.SIP

Spread A SPs	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A C	7 18	13887	-5.4	0.553	-1.319	14	0.801	18	0.533	7	-0.498	13
	Avg =	13887	for	12 Pts								

Wtd Avg Velocity computed for Layer 3 = 14174

FILE TX00A-5.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY X=0.0A
SPREAD A




FILE TX00A-5.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY X=0.0A - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
250
TIME IN MSEC
50
40
30
20
10
0
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 24
SPREAD A

VELOCITY ANALYSIS TABLES for TX00A-5.SIP

Layer 1 Velocity from direct arrivals for TX00A-5.SIP

Spread A	SP	Geo	DD	V	Avg V
	A	1	10.0	1026	
					1026
	B	12	10.0	1013	
	B	13	10.0	930	
					971
	C	24	12.0	1143	
					1143

Wtd Avg Velocity computed for Layer 1 = 1028

Layer 2 Velocity computed by regression for TX00A-5.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	2 9	8.7	4396	4396	8.7	7
4455	8.8	5 11	B	14 24	10.6	5928	5218	9.7	17
4445	6.7	15 23	C				4445	6.7	8
							Avg = 4812	for	32 Pts

Layer 2 Velocity computed by Hobson-Overton method for TX00A-5.SIP

Spread A SPs	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A B	5 9	4495	0.3	0.303	-0.426	9	0.403	8	-0.250	5	0.222	7
B C	15 23	5172	0.5	0.873	-1.332	20	1.050	21	1.022	18	1.010	17
Avg =		4911	for	13 Pts								

Wtd Avg Velocity computed for Layer 2 = 4856

Layer 3 Velocity computed by regression for TX00A-5.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	10 24	21.6	13159	13159	21.6	14
13793	22.5	1 4	B				13793	22.5	3
17530	26.1	1 14	C				17530	26.1	13
							Avg = 14829	for	30 Pts

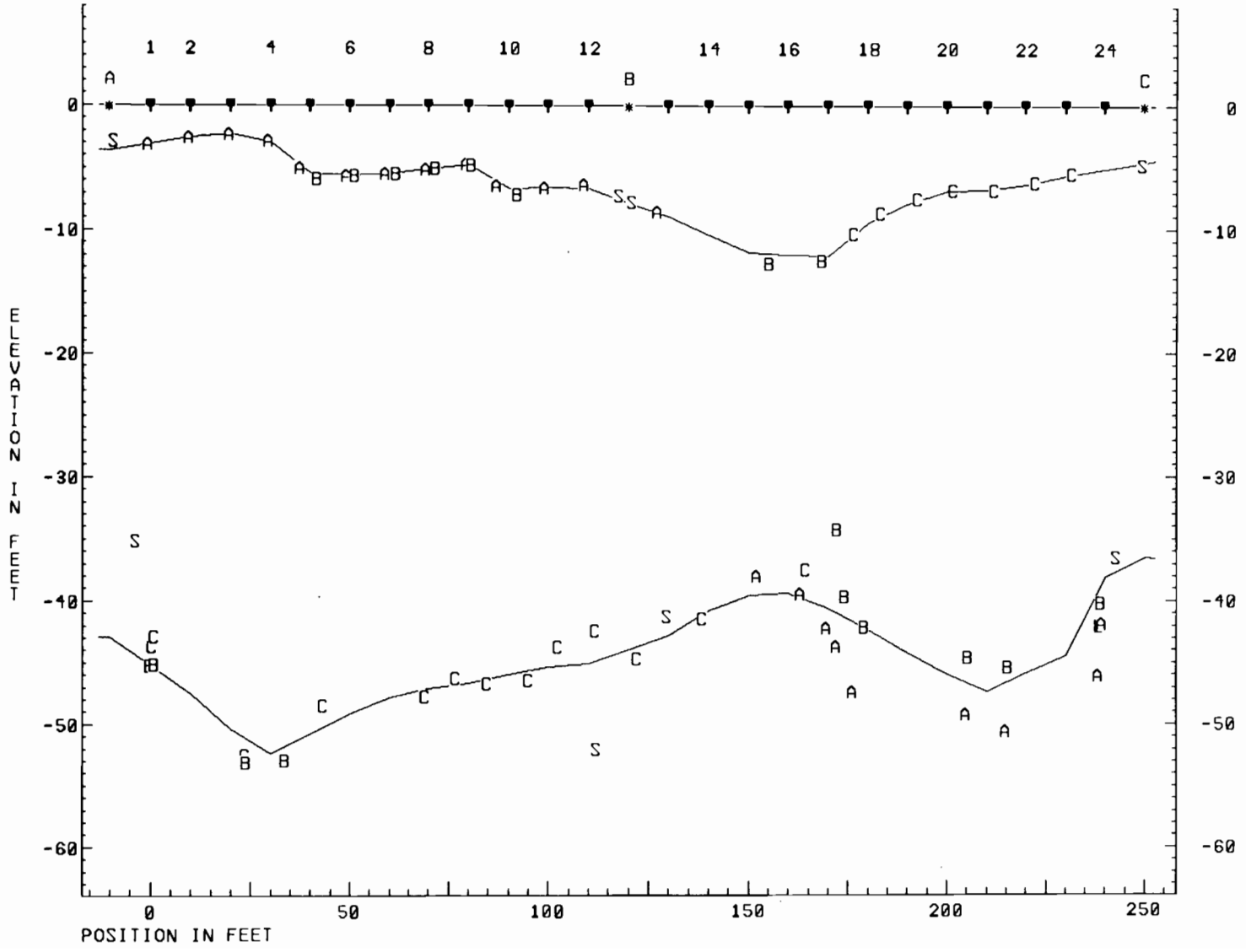
Layer 3 Velocity computed by Hobson-Overton method for TX00A-5.SIP

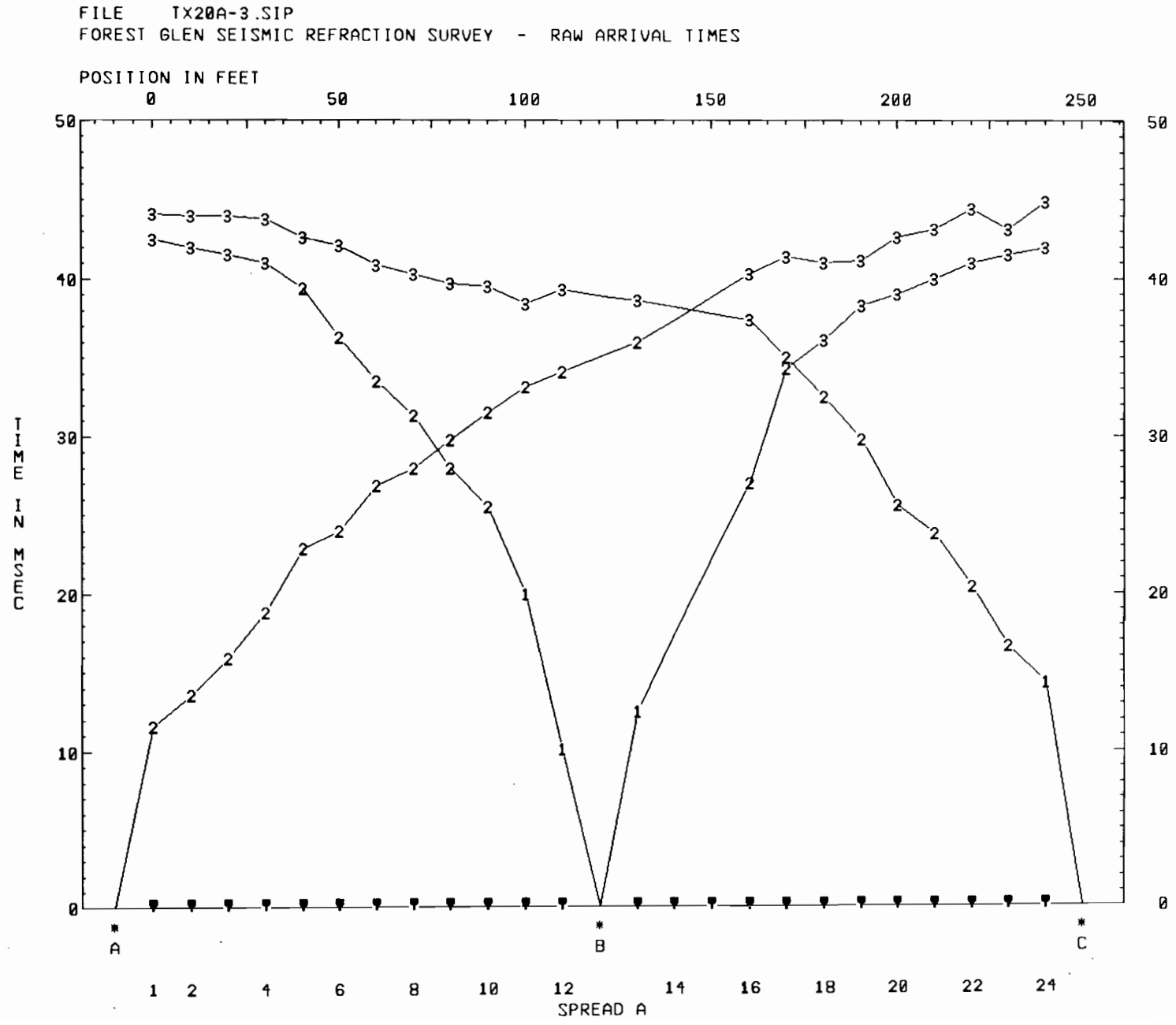
Spread A Pts	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A C	10 14	20040	-2.2	0.581	0.967	12	-0.657	10	-0.519	13	0.225	11
	Avg =	20040	for	5 Pts								

Wtd Avg Velocity computed for Layer 3 = 16132

FILE TX20A-3.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY

SPREAD A




FILE TX20A-3.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
250
TIME IN MSEC
0
10
20
30
40
50
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 24
SPREAD A

VELOCITY ANALYSIS TABLES for TX20A-3.SIP

ver 1 Velocity from direct arrivals for TX20A-3.SIP

pread A	SP	Geo	DD	V	Avg V
	B	11	20.0	1000	
	B	12	10.0	988	
	B	13	10.0	800	
					929
	C	24	10.0	702	
					702

Wtd Avg Velocity computed for Layer 1 = 872

Layer 2 Velocity computed by regression for TX20A-3.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	1 13	11.1	5067	5067	11.1	13
3633	17.2	5 10	B	16 17	-2.0	1379	2579	7.6	8
3279	11.0	17 23	C				3279	11.0	7
						Avg =	3589	for	28 Pts

Layer 2 Velocity computed by Hobson-Overton method for TX20A-3.SIP

read A s	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A B	5 10	4434	-9.7	0.383	0.772	7	-0.359	8	-0.337	6	-0.130	10
	Avg =	4434	for	6 Pts								

Wtd Avg Velocity computed for Layer 2 = 3842

Layer 3 Velocity computed by regression for TX20A-3.SIP

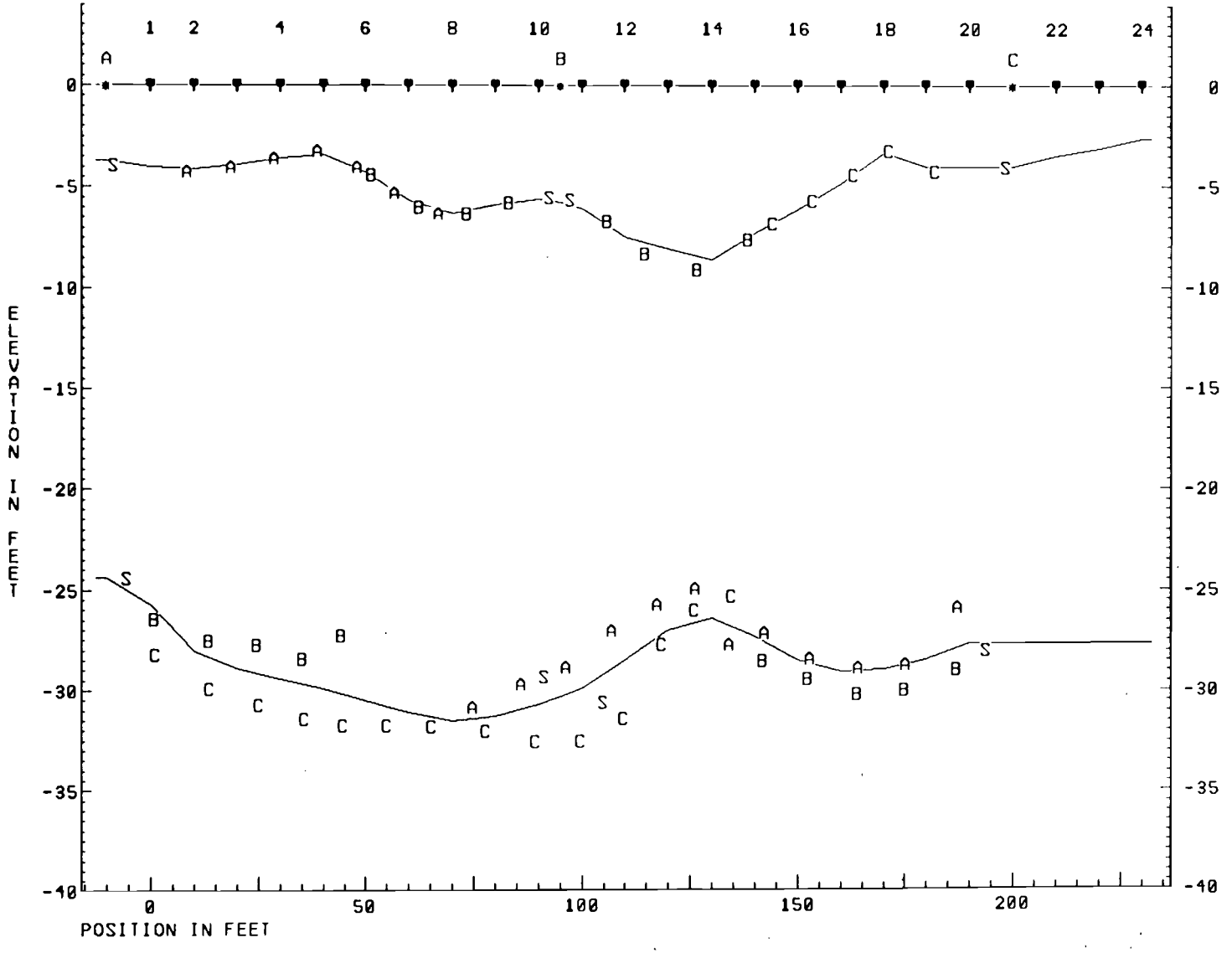
Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	16 24	31.1	18479	18479	31.1	9
20000	36.5	1 4	B	18 24	31.3	10712	12888	33.9	11
20627	32.2	1 16	C				20627	32.2	14
						Avg =	16838	for	34 Pts

Layer 3 Velocity computed by Hobson-Overton method for TX20A-3.SIP

Not enough points.

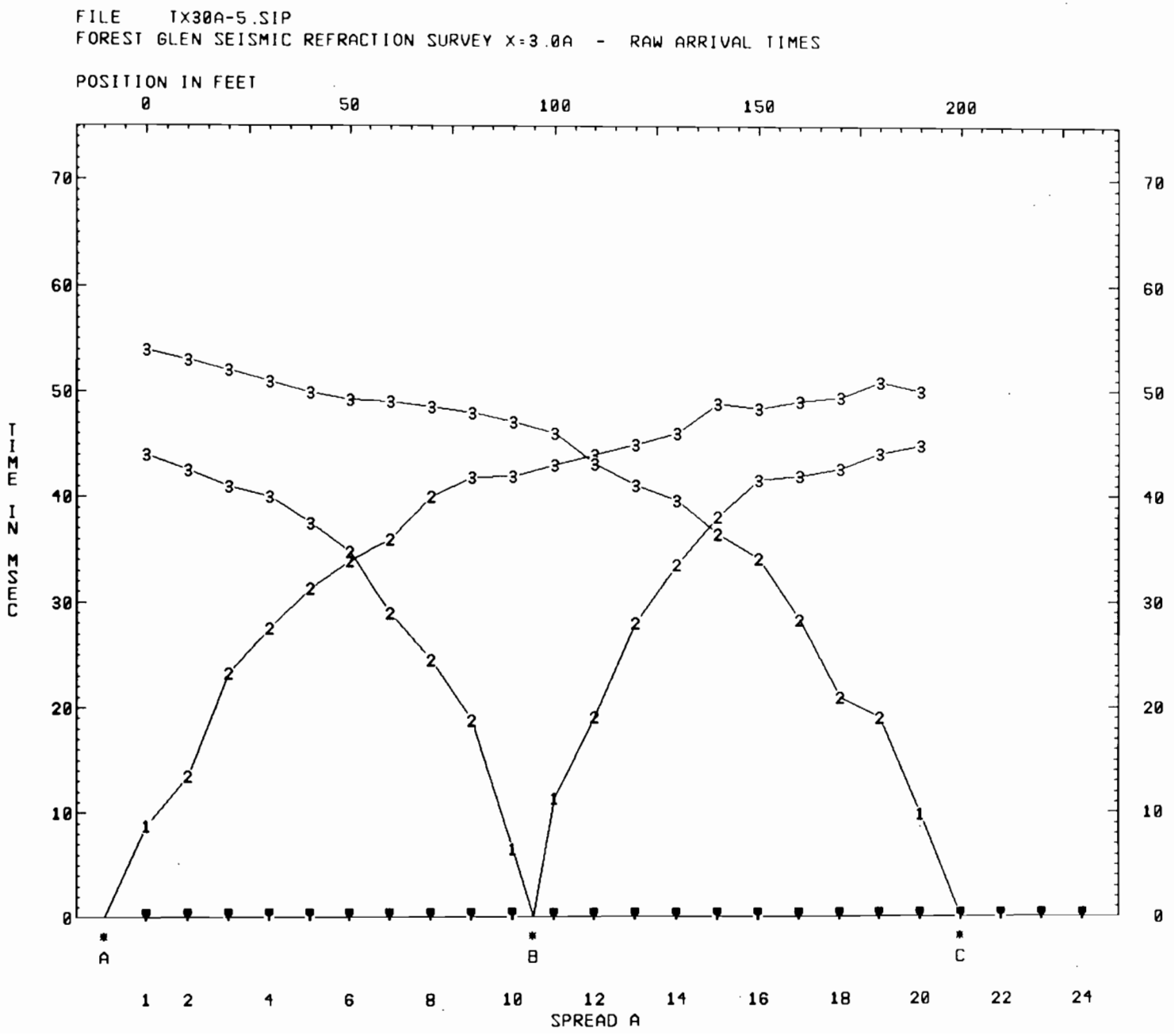
Wtd Avg Velocity computed for Layer 3 = 16838

FILE TX30A-5.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY X=3.0A
SPREAD A



LEGEND

- PHONE LOCATION
- * SHOT POINT
- A ,B ,C EMERGENT RAY OF SP A ,B ,C
- ? QUESTIONABLE EMERGENT RAY
- S RAY ENTRY POINT BENEATH SP


FILE TX30A-5.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY X=3.0A - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
TIME IN MSEC
70
60
50
40
30
20
10
0
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 24
SPREAD A

VELOCITY ANALYSIS TABLES for TX30A-5.SIP

Layer 1 Velocity from direct arrivals for TX30A-5.SIP

Spread A	SP	Geo	DD	V	Avg V
	A	1	10.0	1143	
					1143
	B	10	5.0	769	
	B	11	5.0	440	
					604
	C	20	10.0	1026	
					1026

Wtd Avg Velocity computed for Layer 1 = 844

Layer 2 Velocity computed by regression for TX30A-5.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	2 8	9.5	2514	2514	9.5	7
1905	11.0	6 9	B	12 15	10.9	1600	1739	11.0	8
2089	8.6	15 19	C				2089	8.6	5
							Avg = 2046	for	20 Pts

Layer 2 Velocity computed by Hobson-Overton method for TX30A-5.SIP

Spread A Pts	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A B	6 8	2442	-7.1	0.146	-0.207	7	0.103	6	0.103	8		
		Avg = 2442	for	3 Pts								

Wtd Avg Velocity computed for Layer 2 = 2137

Layer 3 Velocity computed by regression for TX30A-5.SIP

Spread A

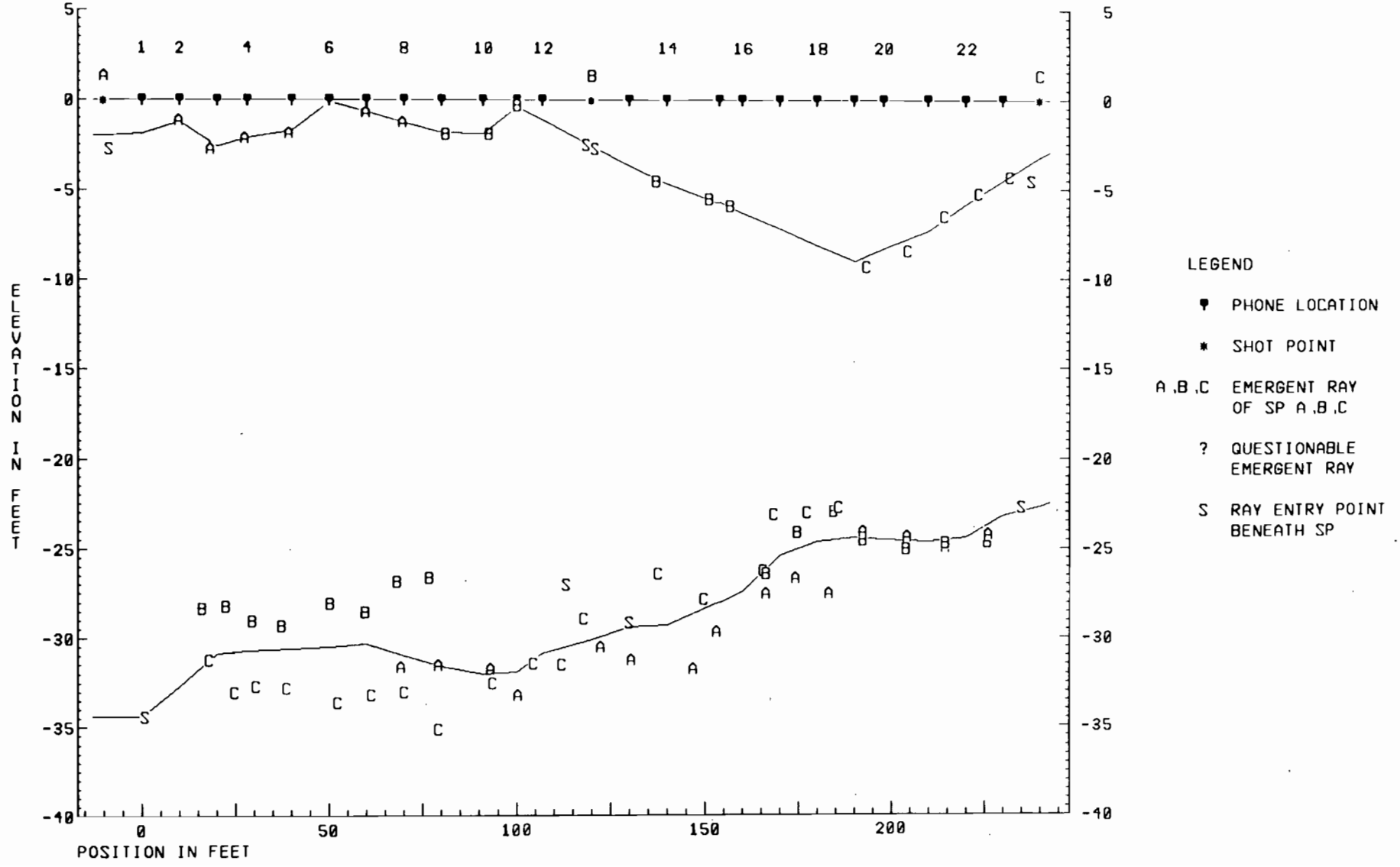
V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	9 20	33.8	11372	11372	33.8	12
6452	29.4	1 5	B	16 20	36.6	11601	8292	33.0	10
10099	34.6	1 14	C				10099	34.6	14
							Avg = 9870	for	36 Pts

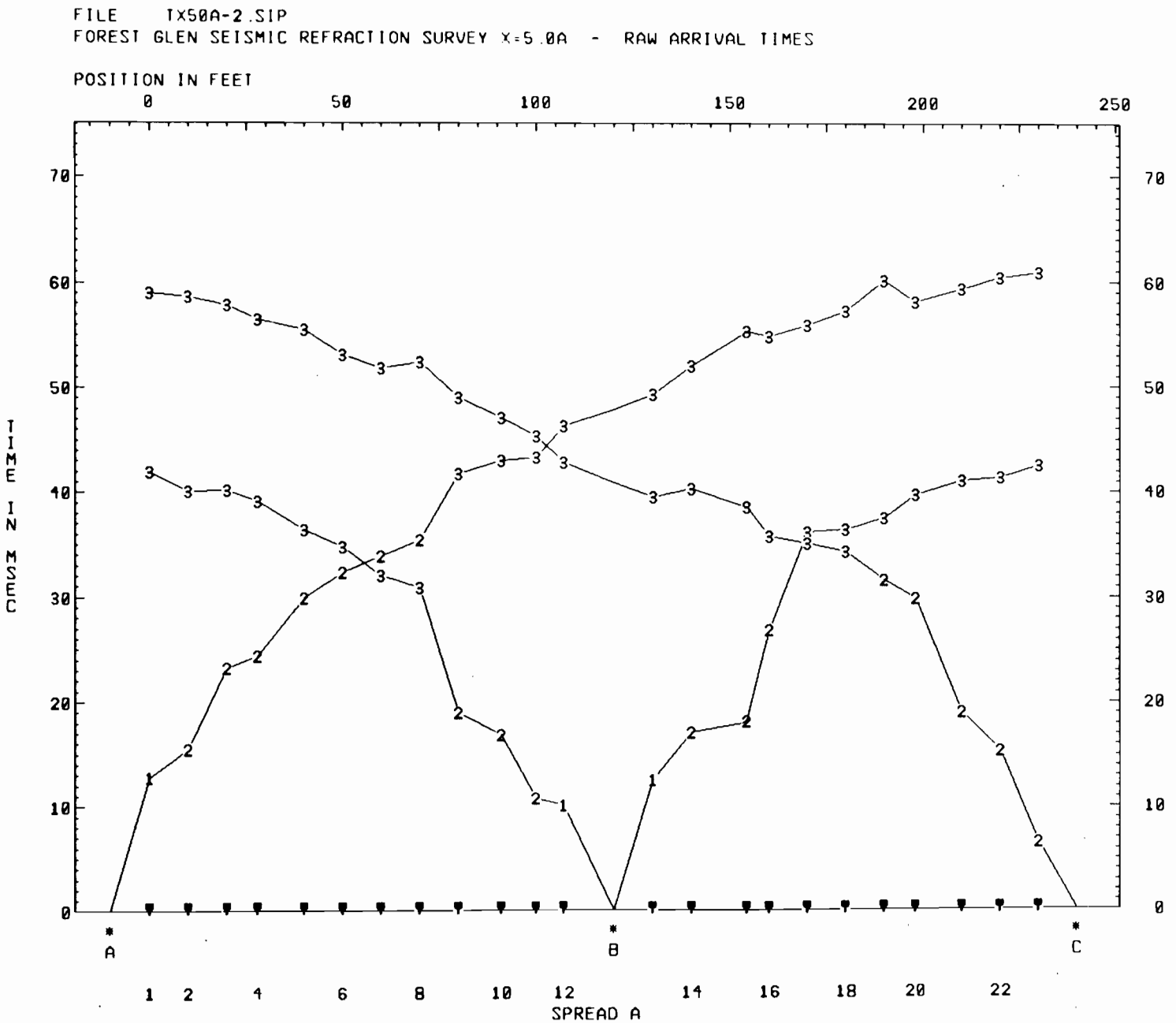
Layer 3 Velocity computed by Hobson-Overton method for TX30A-5.SIP

Spreads	A Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
C	9 14	7492	-3.2	0.708	-1.147	11	1.062	9	-0.598	10	0.394	13
	Avg =	7492	for	6 Pts								

Wtd Avg Velocity computed for Layer 3 = 9275

FILE TX50A-2.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY X=5.0A
SPREAD A




FILE TX50A-2.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY X=5.0A - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
250
70
60
50
40
30
20
10
0
TIME IN MSEC
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22
SPREAD A

VELOCITY ANALYSIS TABLES for TX50A-2.SIP

Layer 1 Velocity from direct arrivals for TX50A-2.SIP

pread A	SP	Geo	DD	V	Avg V
	A	1	10.0	784	
					784
	B	12	13.0	1285	
	B	13	10.0	800	
					1042

Wtd Avg Velocity computed for Layer 1 = 956

Layer 2 Velocity computed by regression for TX50A-2.SIP

Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	2 8	12.1	3162	3162	12.1	7
2472	3.5	9 11	B	14 16	7.7	2417	2444	5.6	6
1563	1.0	19 23	C				1563	1.0	5
						Avg =	2288	for	18 Pts

Layer 2 Velocity computed by Hobson-Overton method for TX50A-2.SIP

Not enough points.

d Avg Velocity computed for Layer 2 = 2288

Layer 3 Velocity computed by regression for TX50A-2.SIP

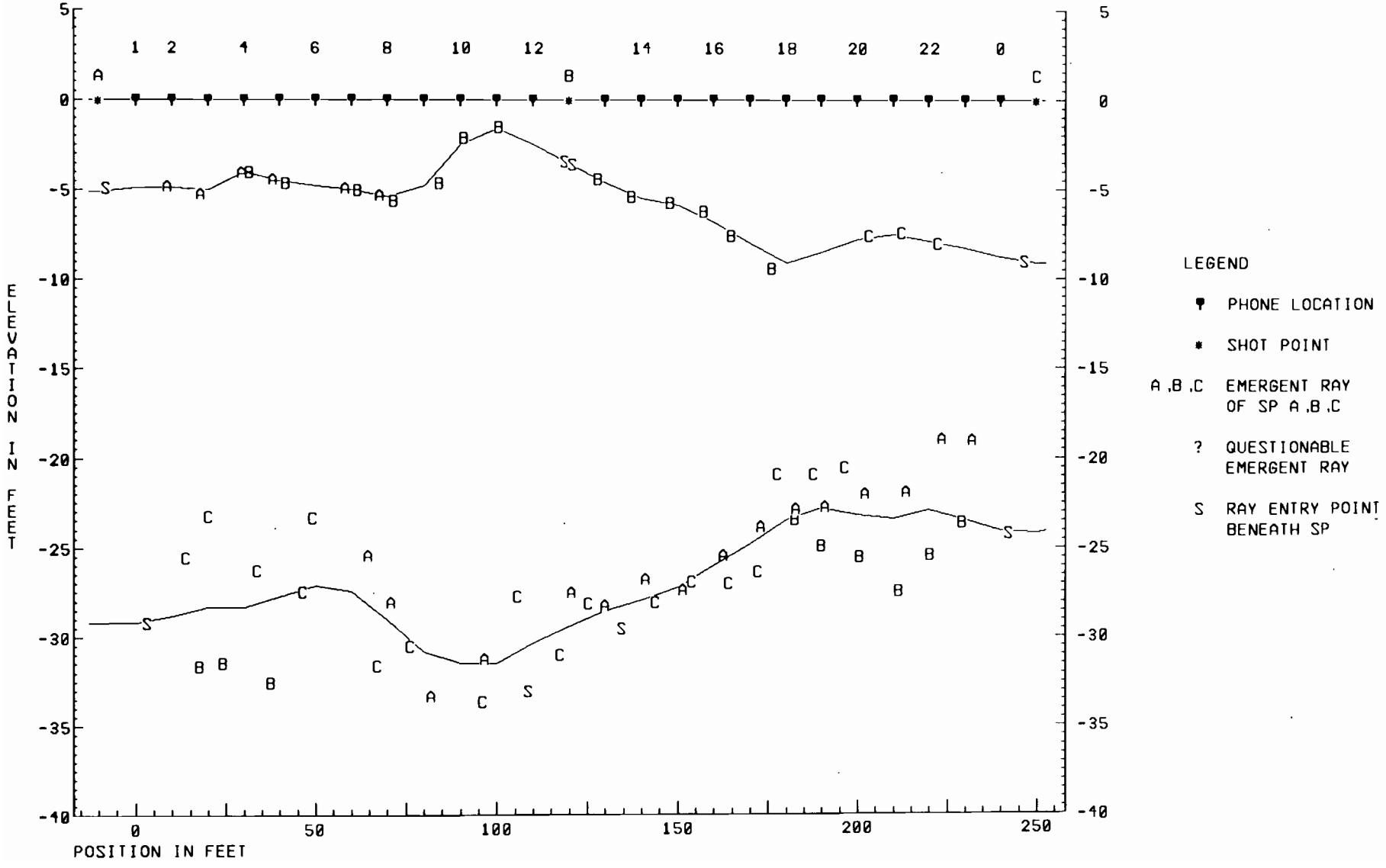
Spread A V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	9 23	30.1	7263	7263	30.1	15
6126	23.0	1 8	B	17 23	29.9	8581	7070	26.5	15
6725	24.8	1 18	C				6725	24.8	18
						Avg =	6994	for	48 Pts

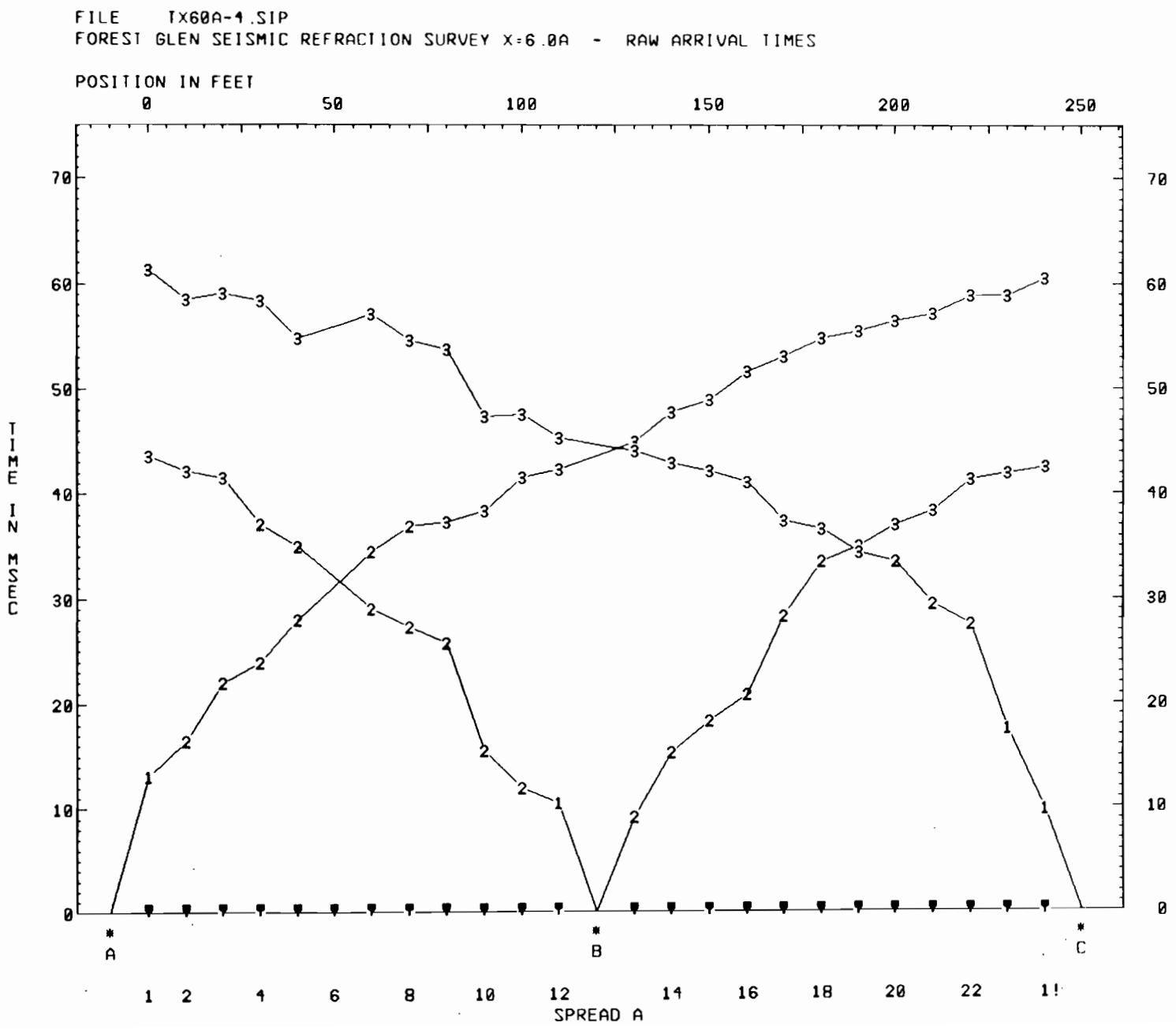
Layer 3 Velocity computed by Hobson-Overton method for TX50A-2.SIP

Spread A SPs	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
A C	9 18	6425	4.1	1.017	1.935	12	-1.386	11	-1.311	18	1.025	13
B C	17 18	17857	2.1	0.000	-0.000	17						
		Avg = 8330	for	12 Pts								

Wtd Avg Velocity computed for Layer 3 = 7439

FILE TX60A-1.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY X=6.0A
SPREAD A




FILE TX60A-1.SIP
FOREST GLEN SEISMIC REFRACTION SURVEY X=6.0A - RAW ARRIVAL TIMES
POSITION IN FEET
0
50
100
150
200
250
TIME IN MSEC
70
60
50
40
30
20
10
0
A
B
C
1 2 4 6 8 10 12 14 16 18 20 22 1!
SPREAD A

VELOCITY ANALYSIS TABLES for TX60A-4.SIP

Layer 1 Velocity from direct arrivals for TX60A-4.SIP

Spread A	SP	Geo	DD	V	Avg V
	A	1	10.0	762	
					762
	B	12	10.0	952	
					952
	C	23	20.0	1135	
	C		10.0	1026	
					1080

Wtd Avg Velocity computed for Layer 1 = 969

Layer 2 Velocity computed by regression for TX60A-4.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	2 8	10.9	3014	3014	10.9	6
2859	7.5	4 11	B	13 18	4.5	2141	2476	6.0	13
3333	18.2	20 22	C				3333	18.2	3
							Avg = 2702	for	22 Pts

Layer 2 Velocity computed by Hobson-Overton method for TX60A-4.SIP

Spread A			Avg	Std Err	4 Highest Std Err at geophones							
Trs	Geos	V	TdSP	Overall	Err	Geo	Err	Geo	Err	Geo	Err	Geo
A B	4 8	3457	1.6	0.568	0.874	7	-0.672	8	-0.268	4	0.066	5
		Avg = 3457	for	4 Pts								

Wtd Avg Velocity computed for Layer 2 = 2903

Layer 3 Velocity computed by regression for TX60A-4.SIP

Spread A

V	Ti	Geos	<-SP->	Geos	Ti	V	Avg V	Avg Ti	Pts
			A	9	24.9	6729	6729	24.9	16
10000	31.5	1 3	B	19	24.3	6306	7192	27.9	9
7211	27.3	1 19	C				7211	27.3	18
							Avg = 7020	for	43 Pts

Layer 3 Velocity computed by Hobson-Overton method for TX60A-4.SIP

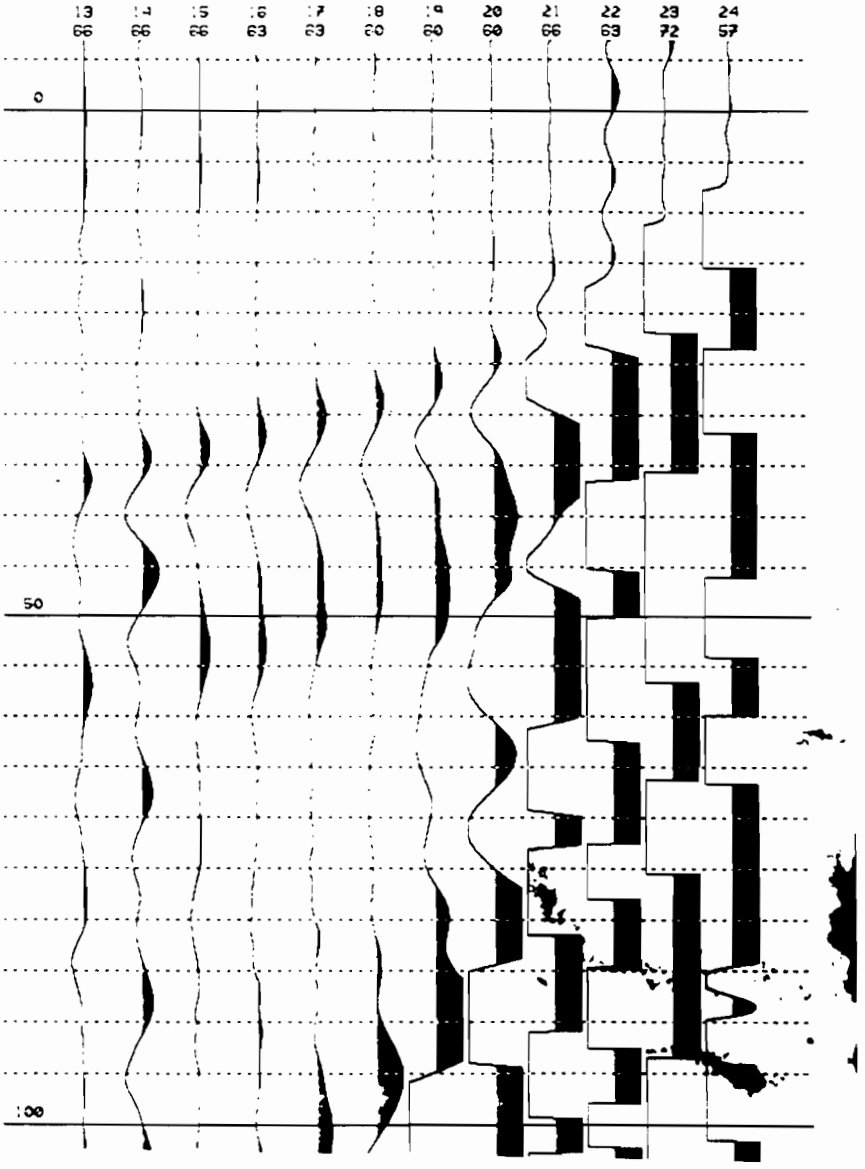
Spread A CDPs	Geos	V	Avg TdSP	Std Err Overall	4 Highest Std Err at geophones Err	Geo	Err	Geo	Err	Geo	Err	Geo
C	9 19	6315	-1.2	1.348	-2.606	9	1.727	10	1.560	11	-1.525	15

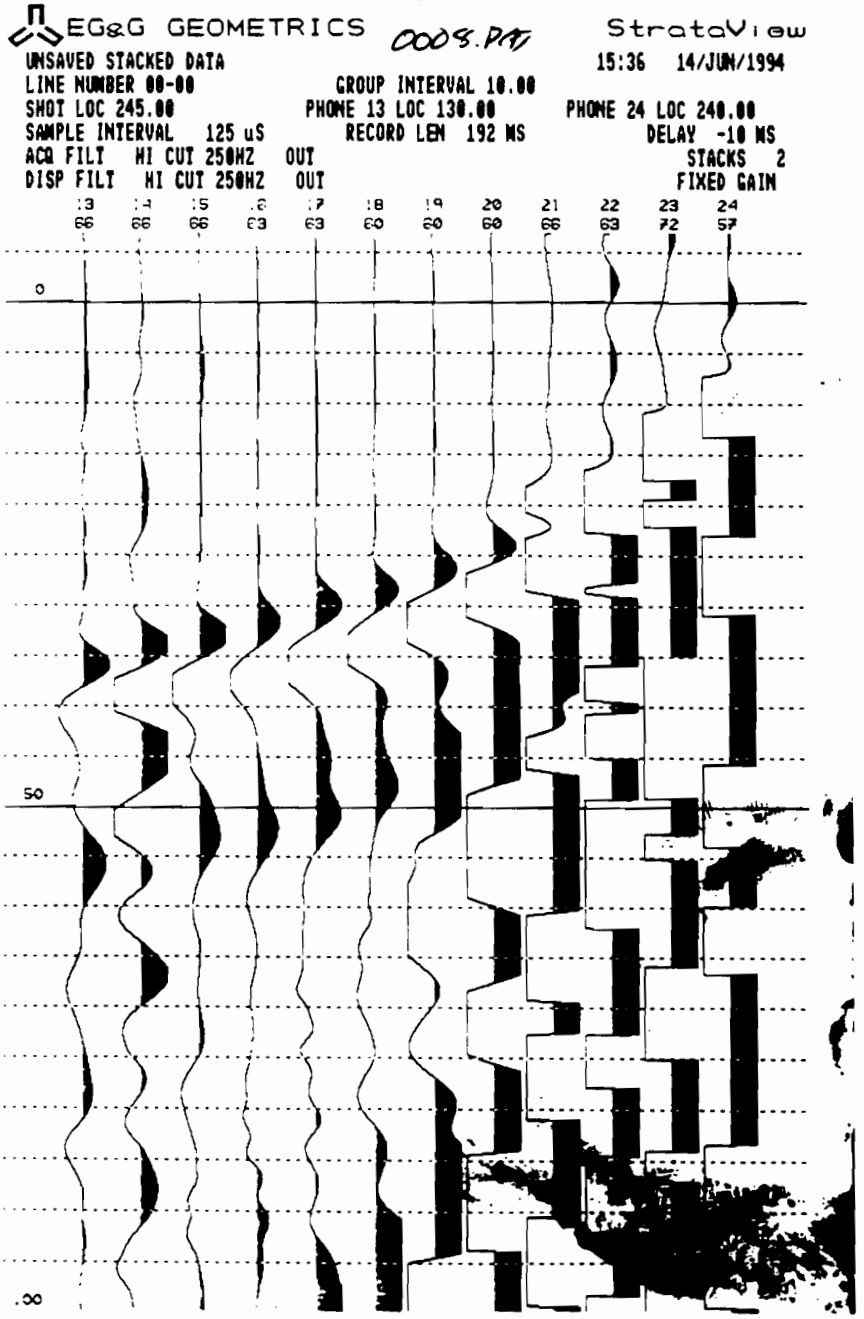
Avg = 6315 for 11 Pts

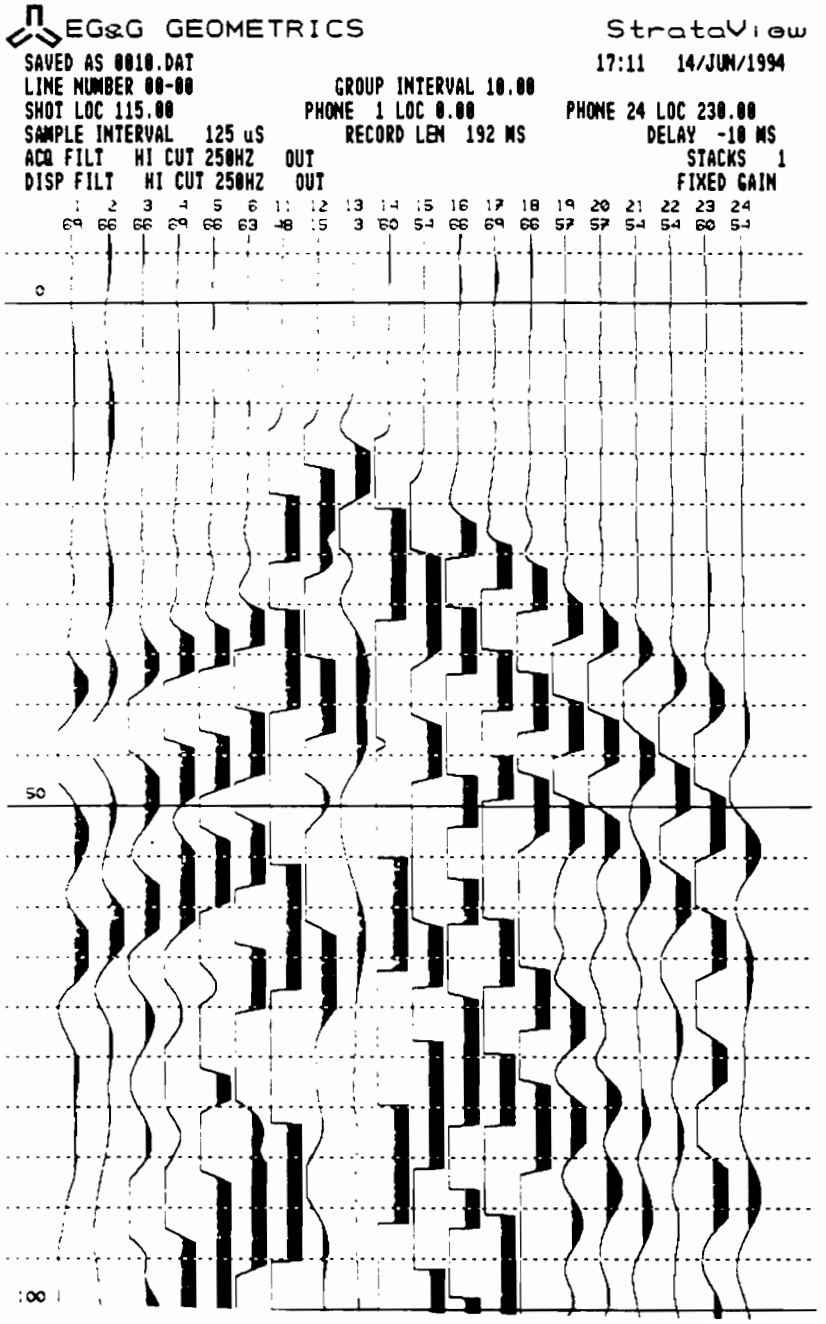
Wtd Avg Velocity computed for Layer 3 = 6781

EG&G GEOMETRICS 0008.dat StrataView

UNSAVED STACKED DATA 15:35 14/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC 245.00 PHONE 13 LOC 130.00 PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT STACKS 1
DISP FILT HI CUT 250HZ OUT FIXED GAIN




EG&G GEOMETRICS
0005.DAT
StrataView
UNSAVED STACKED DATA
15:36 14/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 245.00
PHONE 13 LOC 130.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 2
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
13 14 15 16 17 18 19 20 21 22 23 24
66 66 66 63 63 60 60 60 66 63 72 57
0
50
.00


EG&G GEOMETRICS
StrataView
SAVED AS 0010.DAT
17:11 14/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 115.00
PHONE 1 LOC 0.00
PHONE 24 LOC 230.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 1
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 11 12 13 14 15 16 17 18 19 20 21 22 23 24
69 66 66 69 66 63 48 15 3 60 54 66 69 66 57 57 54 54 60 54
0
50
100

EG&G GEOMETRICS

StrataView

UNSAVED STACKED DATA FILE 0012.DAT 17:32 14/JUN/1994

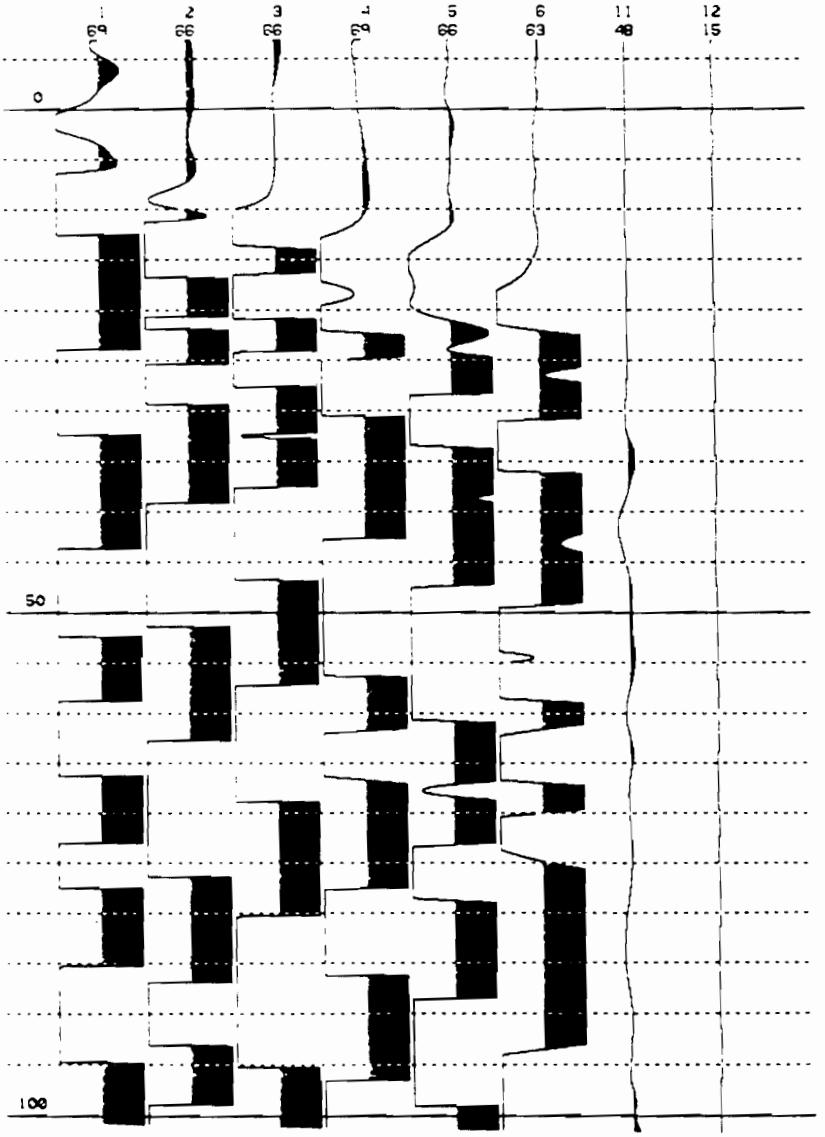
LINE NUMBER 00-00 GROUP INTERVAL 10.00

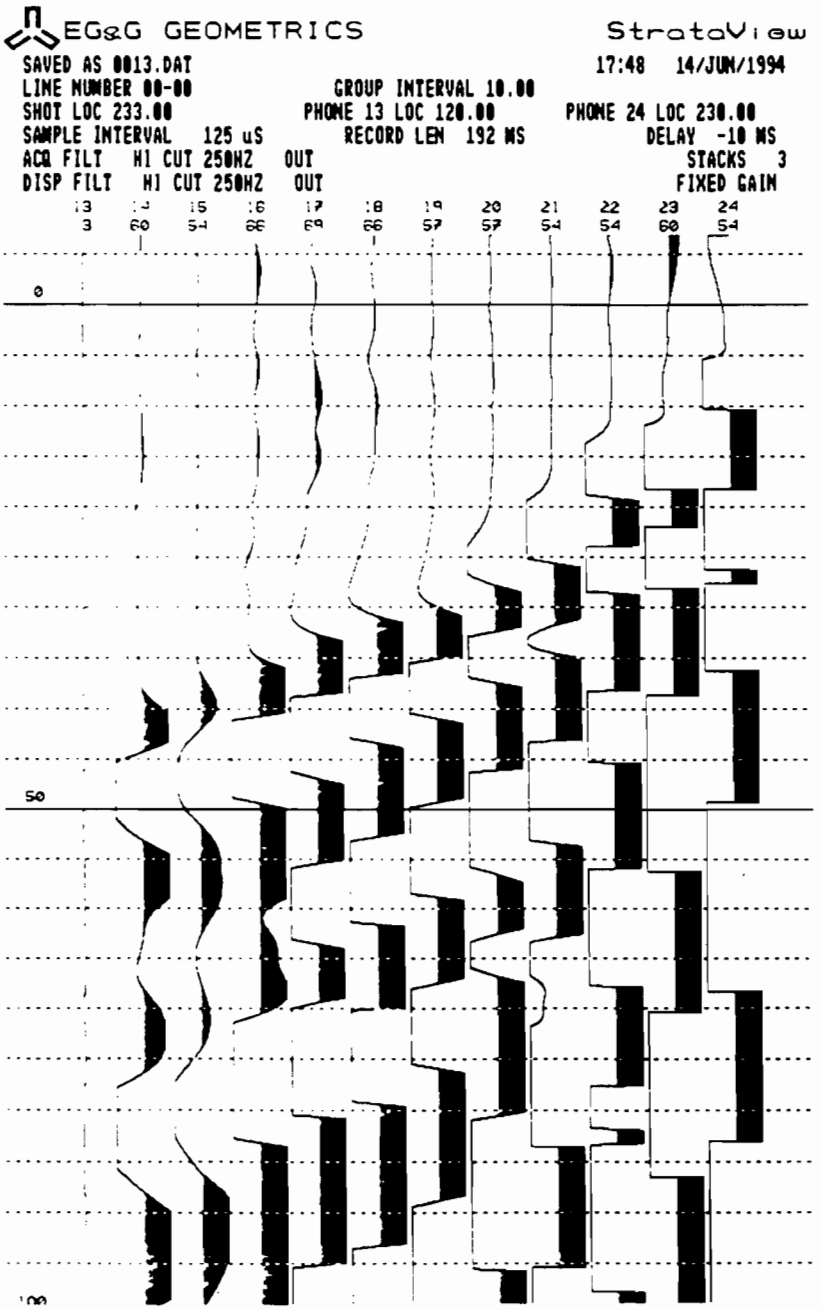
SHOT LOC -5.00 PHONE 1 LOC 0.00 PHONE 12 LOC 110.00

SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS

ACQ FILT HI CUT 250HZ OUT STACKS 4

DISP FILT HI CUT 250HZ OUT FIXED GAIN

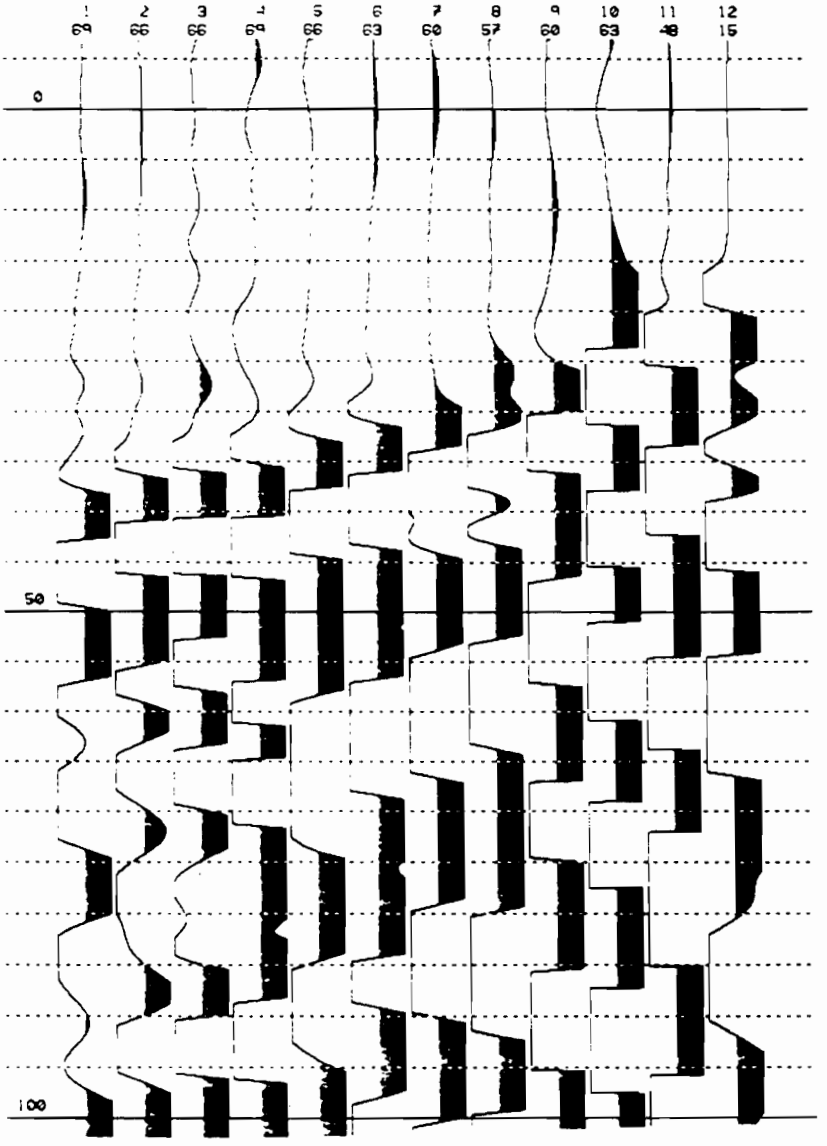



EG&G GEOMETRICS
StrataView
SAVED AS 0013.DAT
17:48 14/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 233.00
PHONE 13 LOC 120.00
PHONE 24 LOC 230.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 3
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
13 14 15 16 17 18 19 20 21 22 23 24
3 60 54 66 69 66 57 57 54 54 60 54
0
50
100

Line

EG&G GEOMETRICS StrataView

SAVED AS 0014.DAT 18:37 14/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC 120.00 PHONE 1 LOC 0.00 PHONE 12 LOC 110.00
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT STACKS 3
DISP FILT HI CUT 250HZ OUT FIXED GAIN



Forward Shot
Line Y=0.02

FILE 0015.DAT

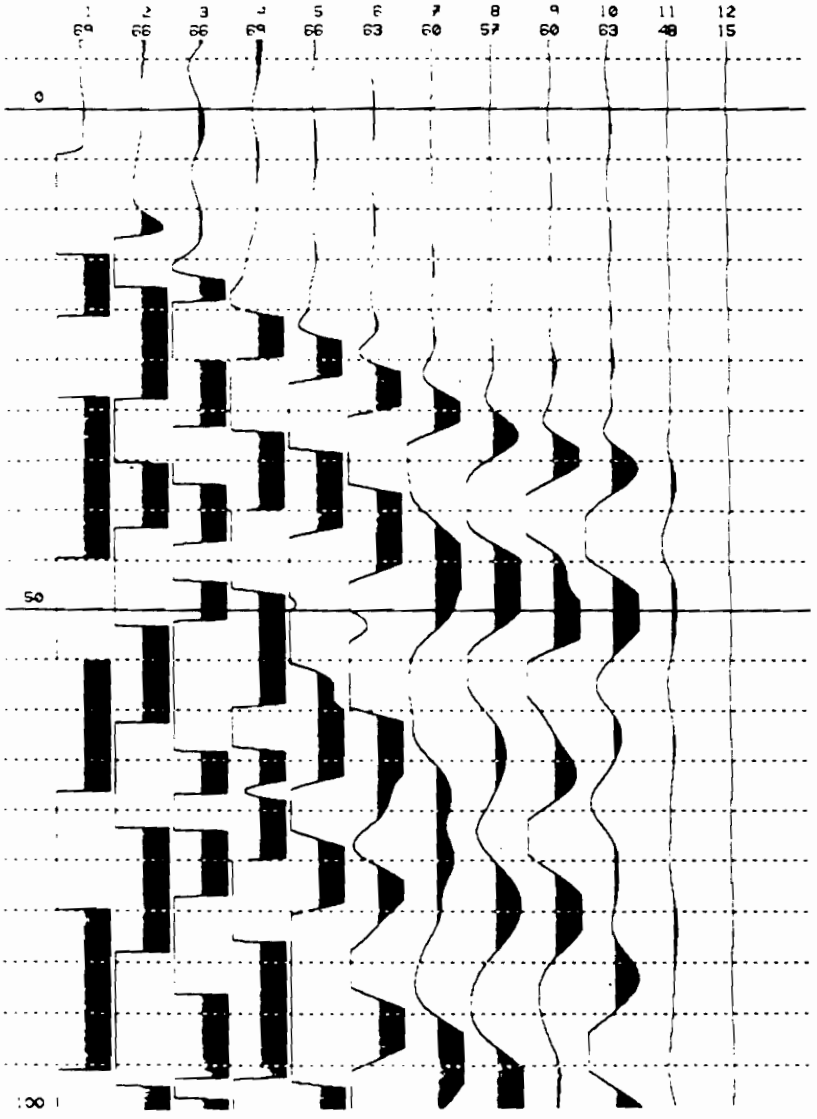
EG&G GEOMETRICS

StrataView

0015

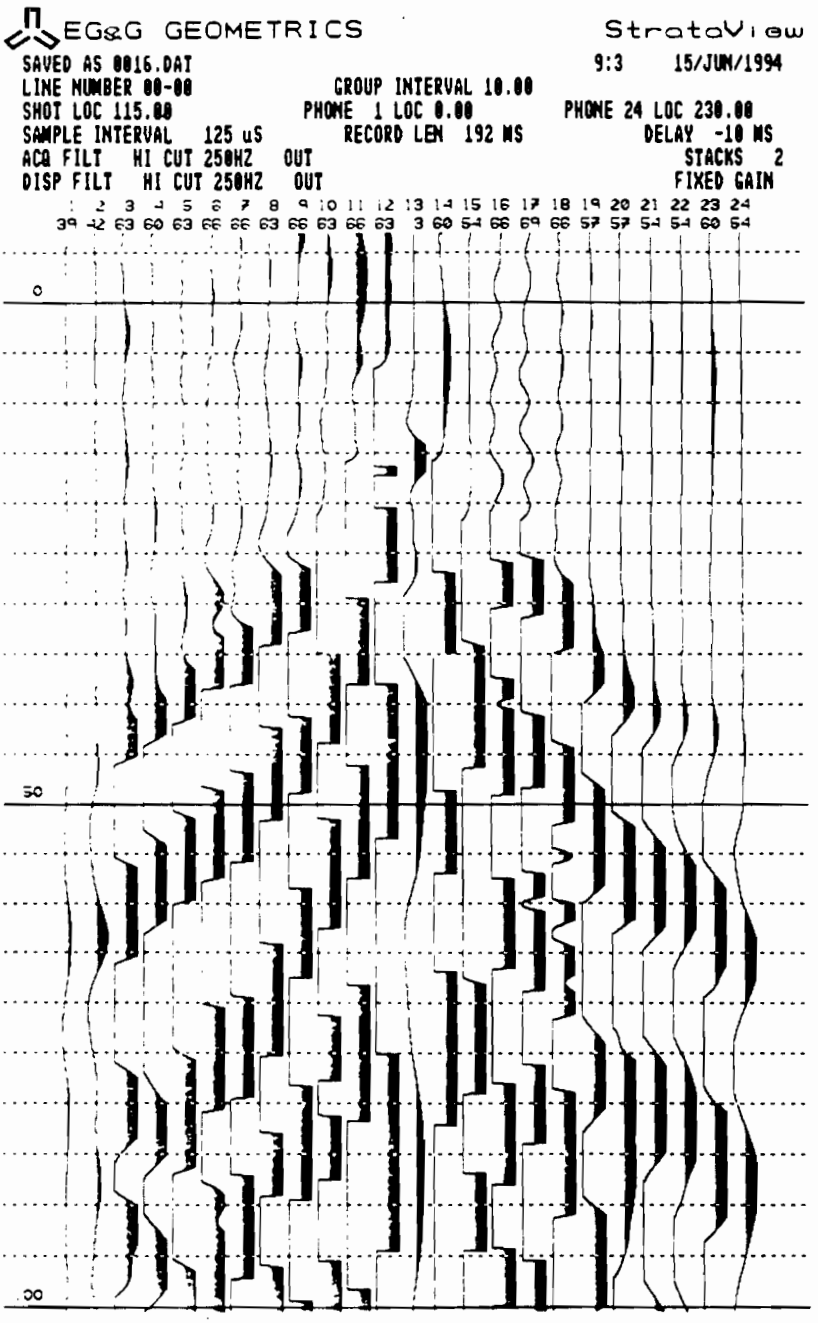
UNSAVED STACKED DATA
LINE NUMBER 00-00
SHOT LOC -5.00
SAMPLE INTERVAL 125 uS
ACQ FILT HI CUT 250HZ OUT
DISP FILT HI CUT 250HZ OUT

18:47 14/JUN/1994
GROUP INTERVAL 10.00
PHONE 1 LOC 0.00
RECORD LEN 192 MS
PHONE 12 LOC 110.00
DELAY -10 MS
STACKS 1
FIXED GAIN



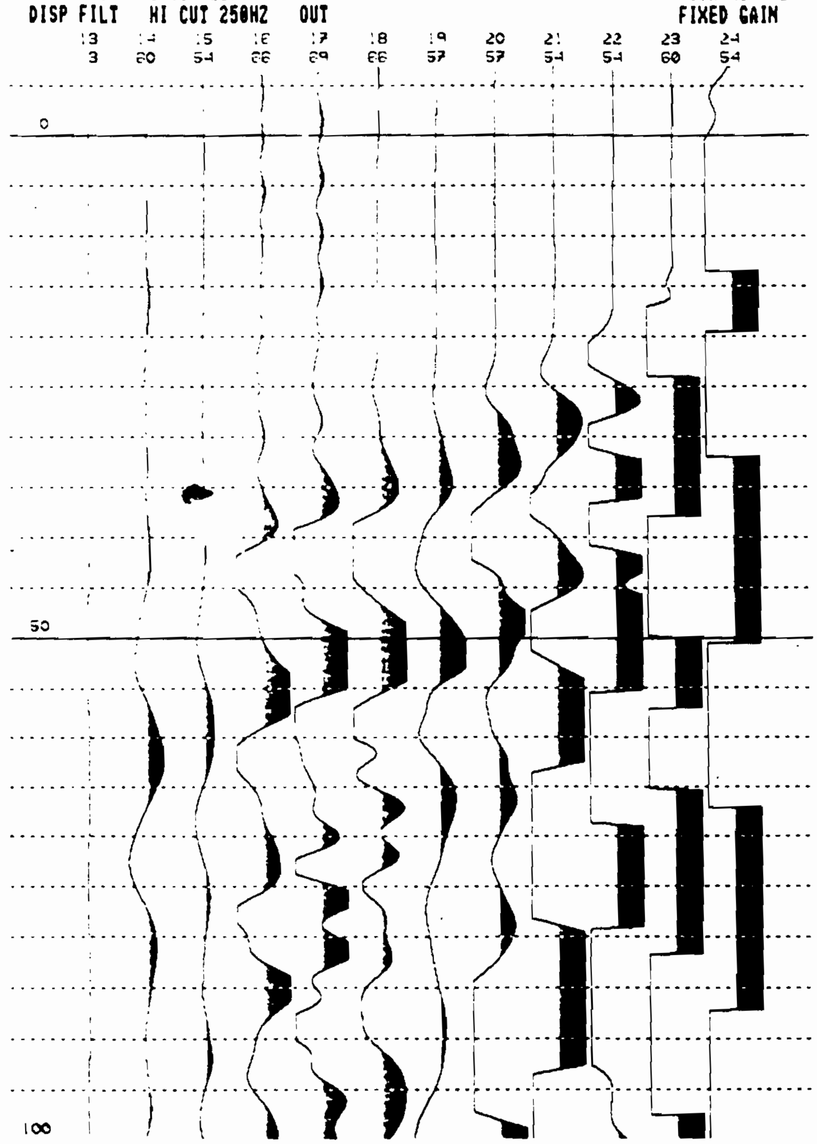
LINE Y=0.0C

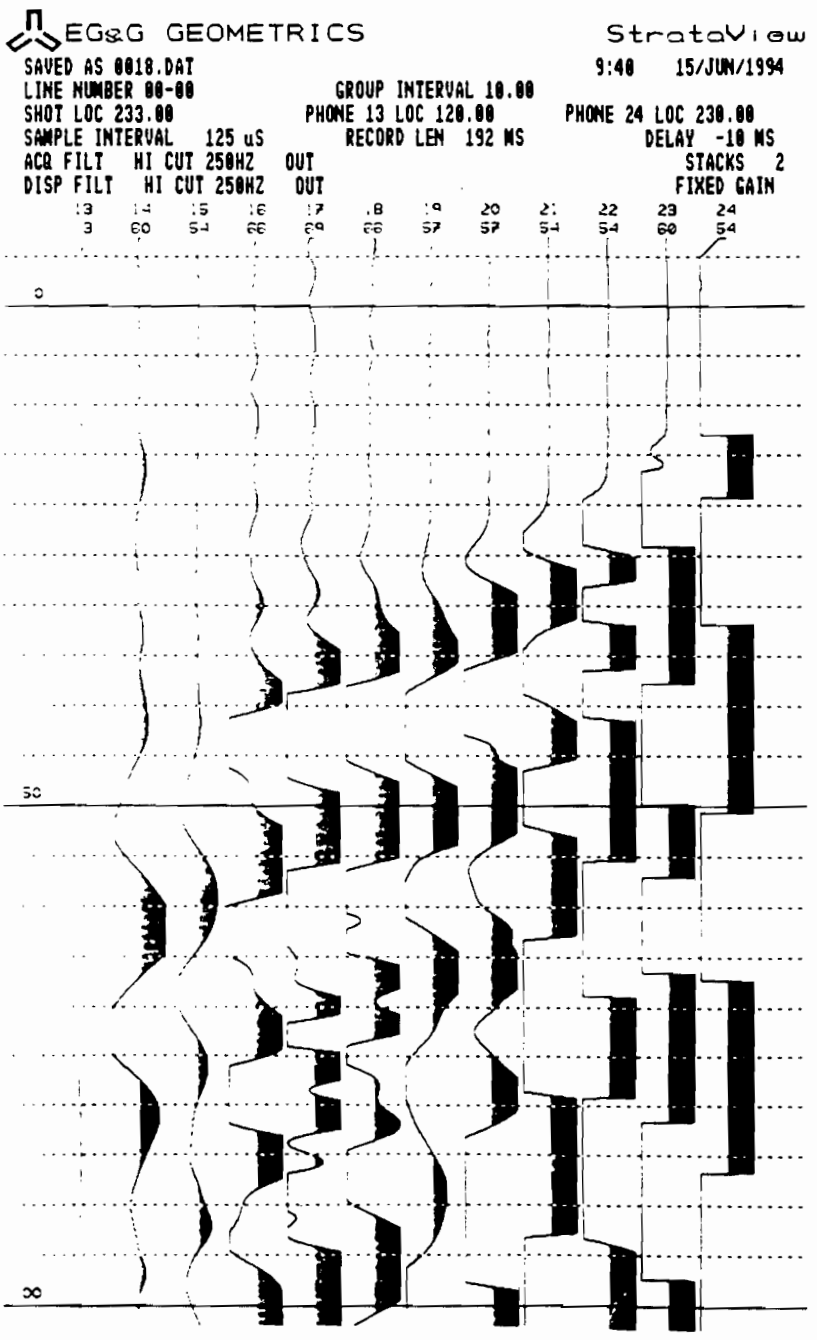
MYLAR



EG&G GEOMETRICS 3018 StrataView

UNSAVED STACKED DATA 9:37 15/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC 233.00 PHONE 13 LOC 120.00 PHONE 24 LOC 230.00
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT STACKS 1
DISP FILT HI CUT 250HZ OUT FIXED GAIN




EG&G GEOMETRICS
StrataView
SAVED AS 0018.DAT
9:40 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 233.00
PHONE 13 LOC 120.00
PHONE 24 LOC 230.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 2
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
13 14 15 16 17 18 19 20 21 22 23 24
3 60 54 66 69 66 57 57 54 54 60 54
0
50
∞

Line 1-0

EG&G GEOMETRICS StrataView

UNSAVED STACKED DATA 00,9 24T 12:58 15/JUN/1994

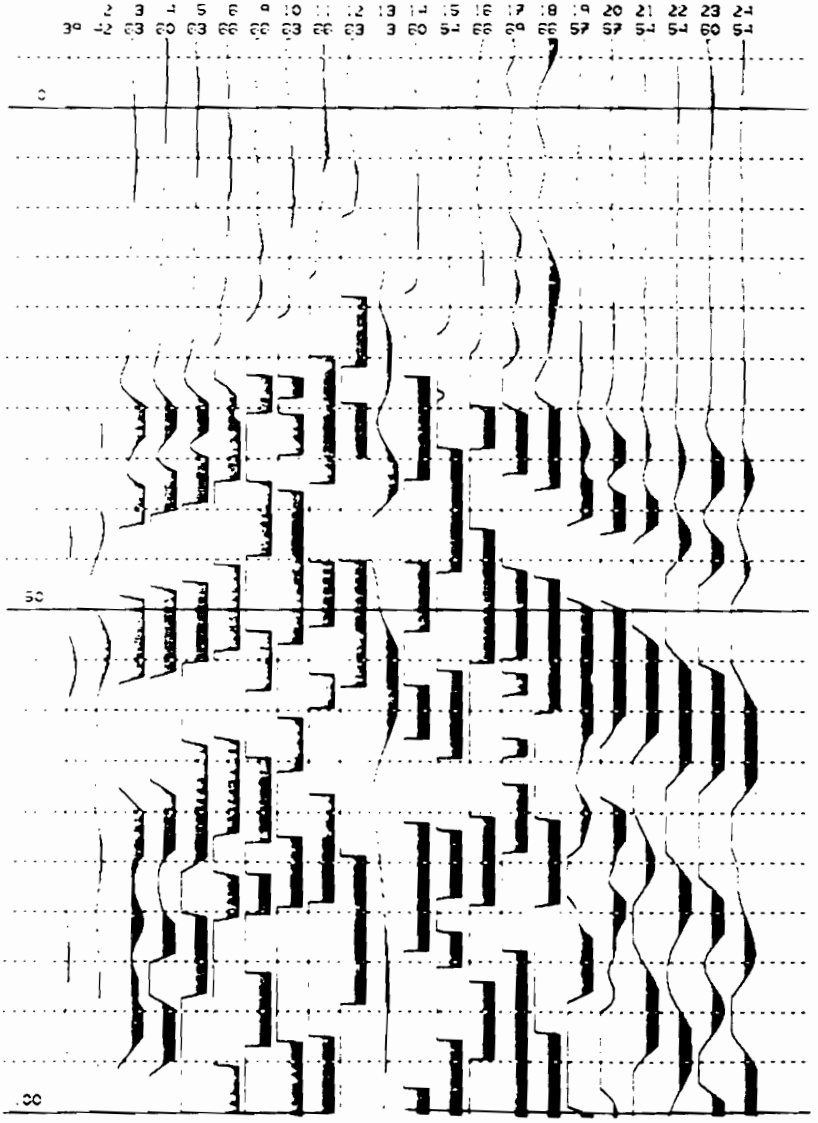
LINE NUMBER 00-00 GROUP INTERVAL 10.00

SHOT LOC 120.00 PHONE 1 LOC 0.00 PHONE 24 LOC 240.00

SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS

ACQ FILT HI CUT 250HZ OUT STACKS 3

DISP FILT HI CUT 250HZ OUT FIXED GAIN



Line Y=10

EG&G GEOMETRICS StrataView

SAVED AS 0021.DAT 13:16 15/JUN/1994

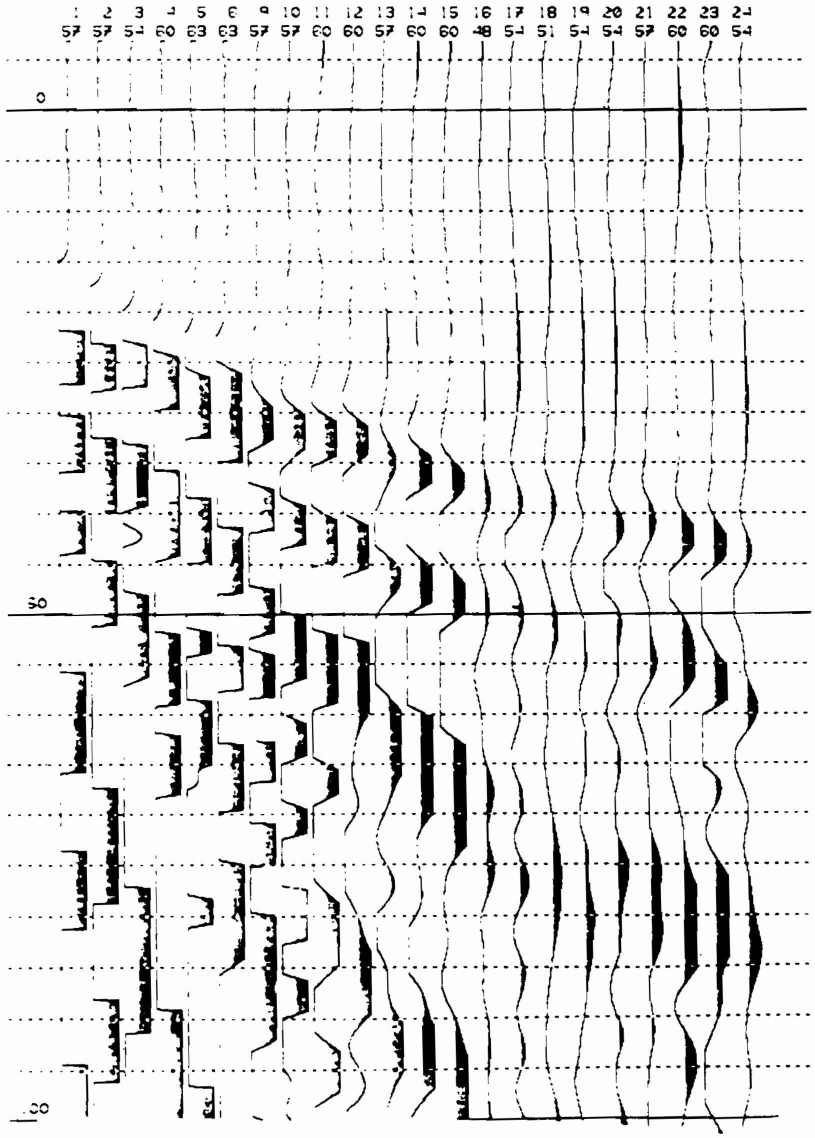
LINE NUMBER 00-00 GROUP INTERVAL 10.00

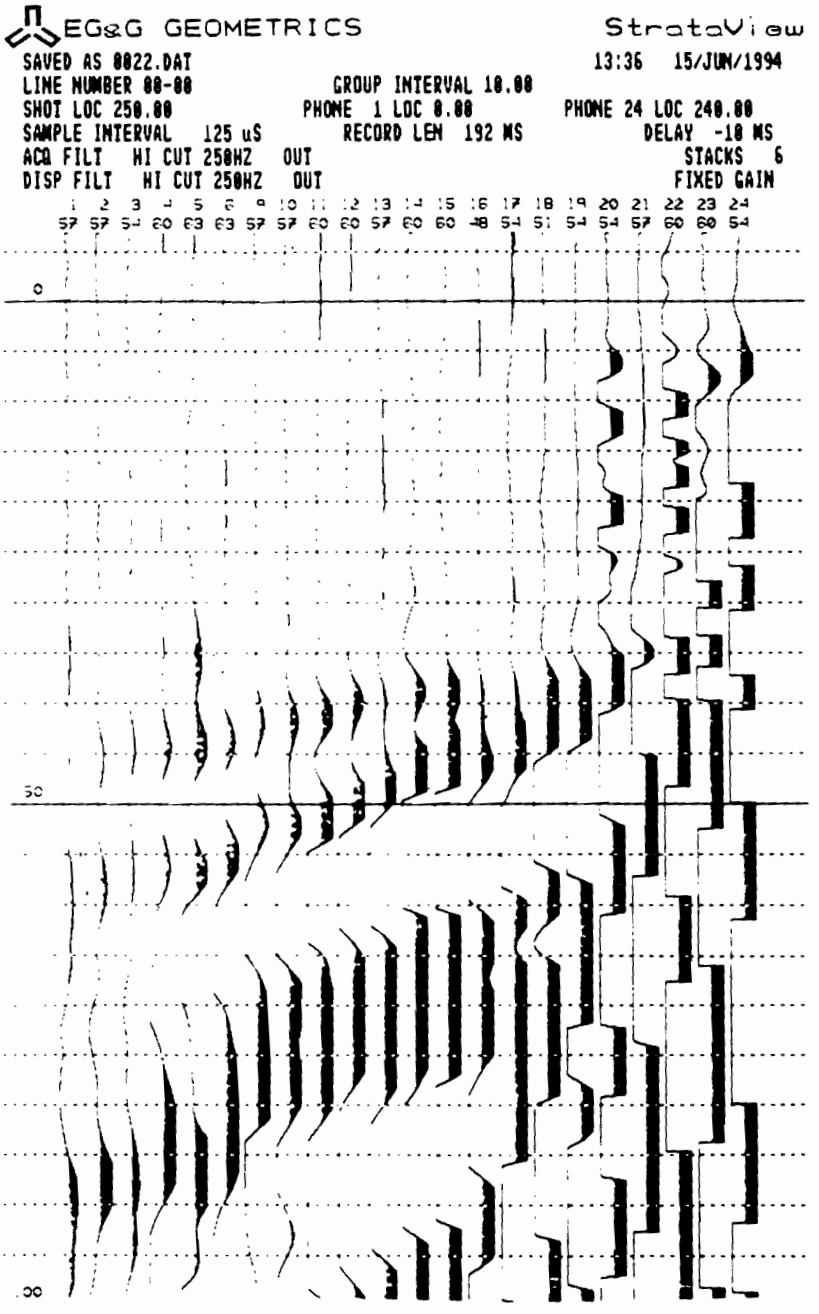
SHOT LOC -20.00 PHONE 1 LOC 0.00 PHONE 24 LOC 240.00

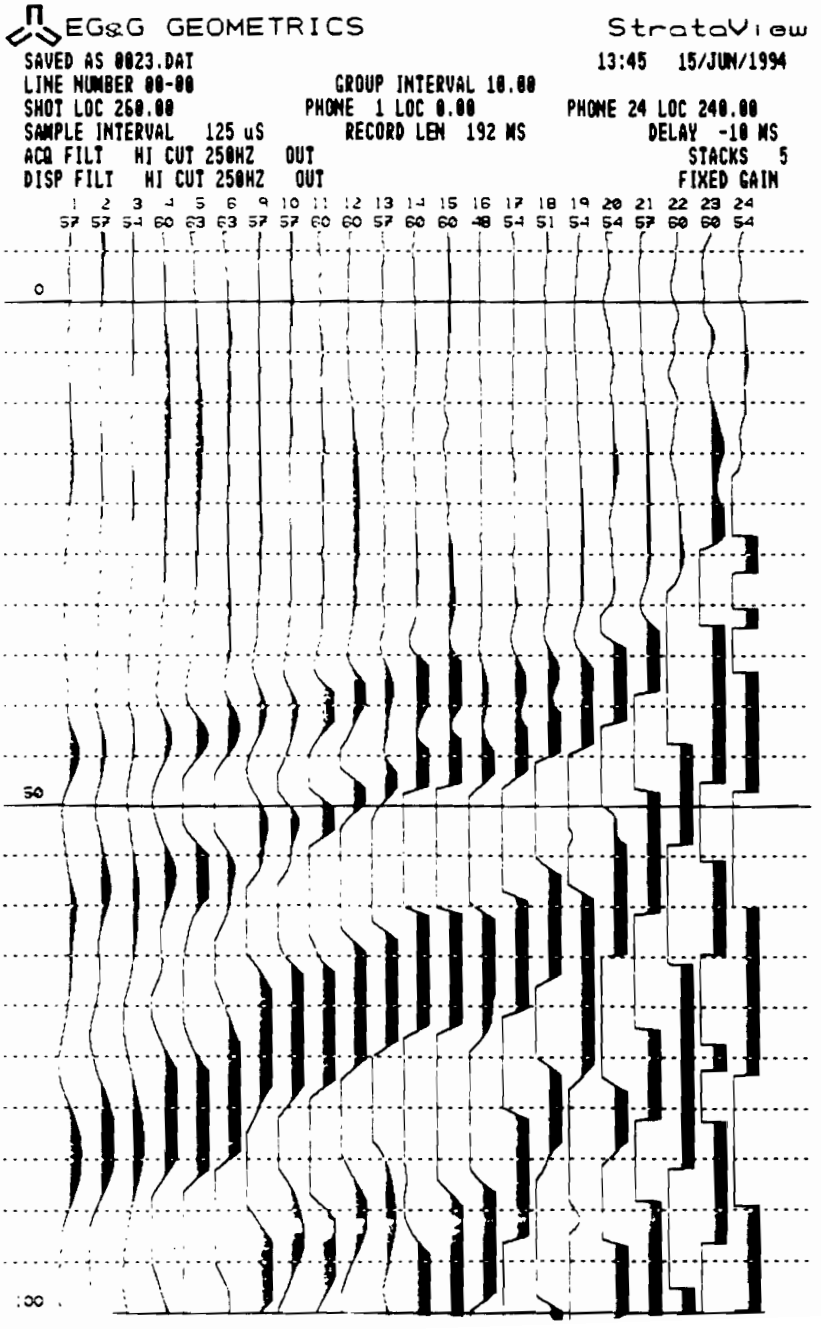
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS

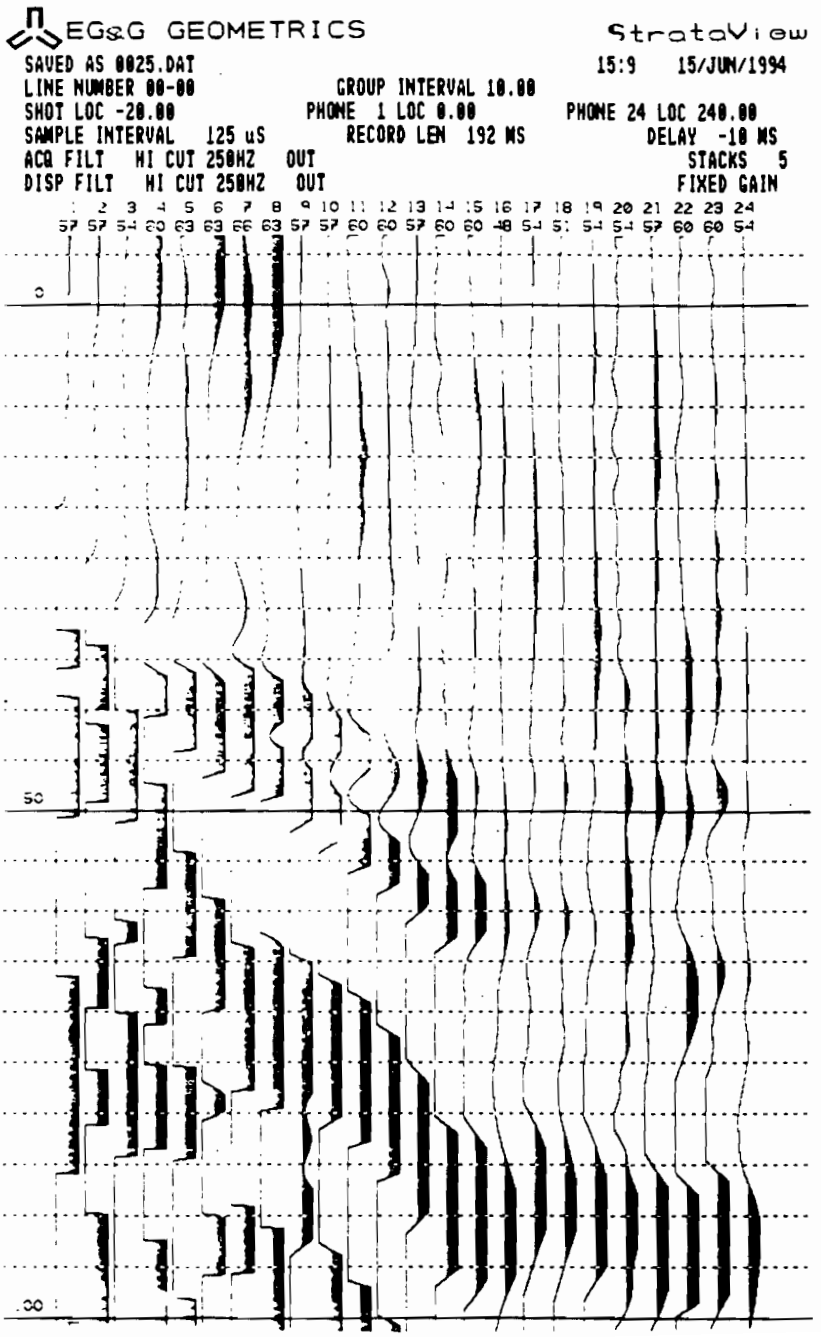
ACQ FILT HI CUT 250HZ OUT STACKS 5

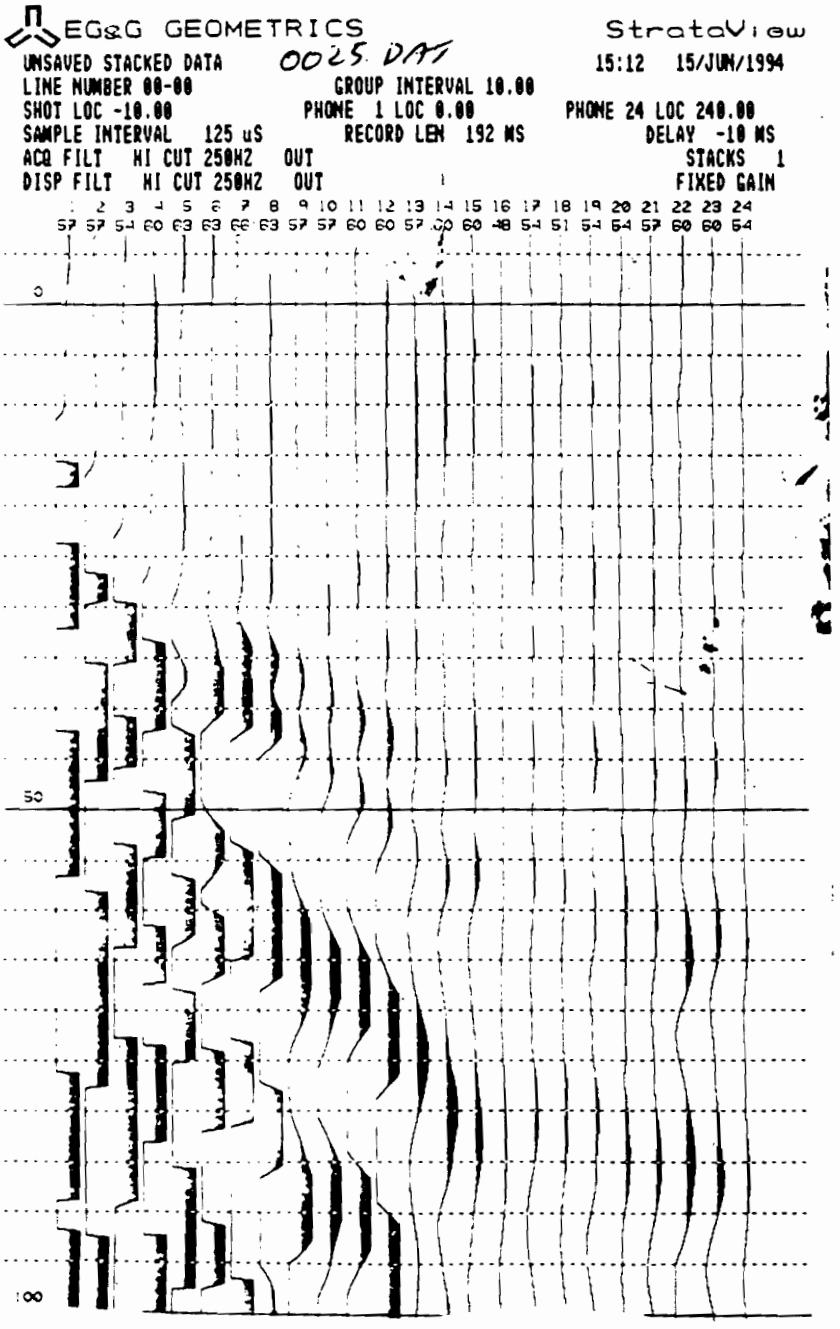
DISP FILT HI CUT 250HZ OUT FIXED GAIN

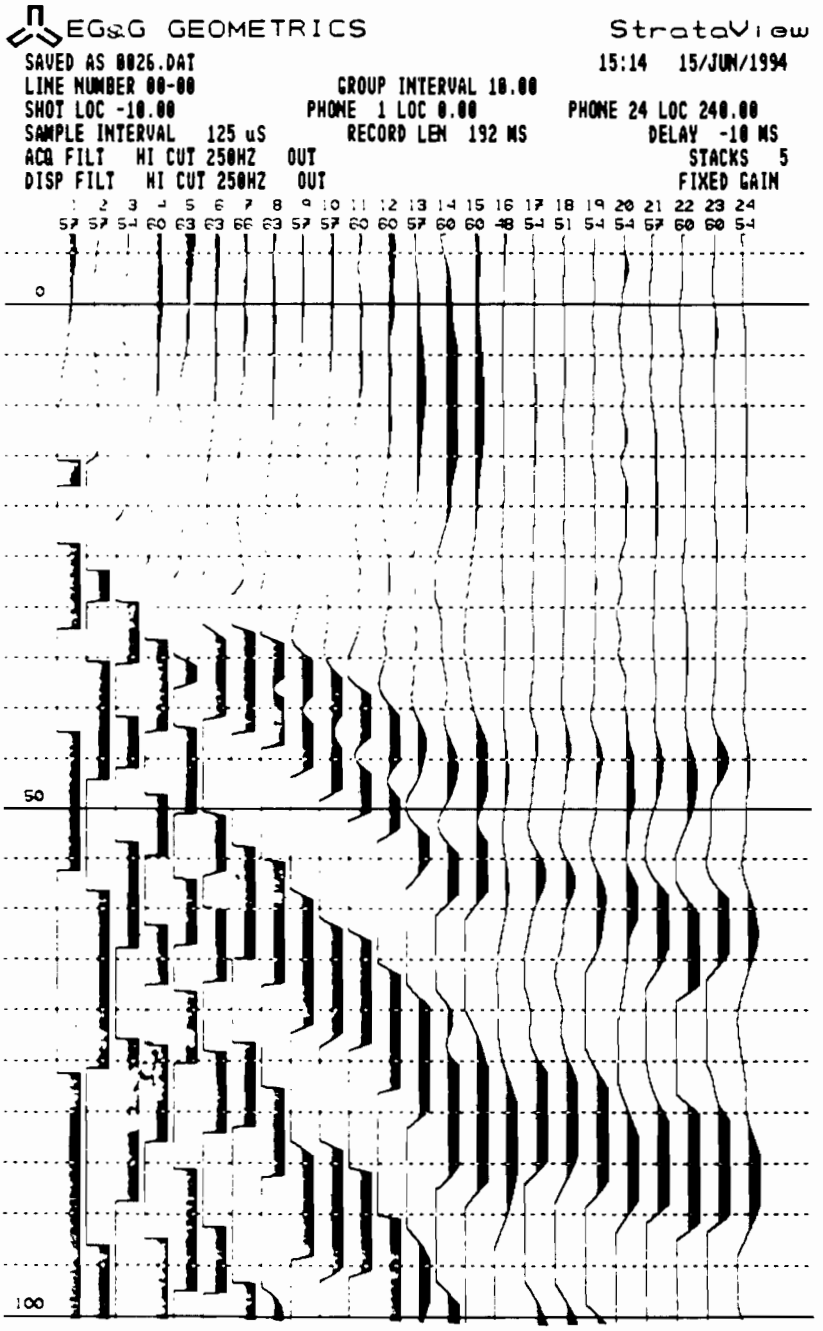



EG&G GEOMETRICS
StrataView
SAVED AS 0822.DAT
13:36 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 250.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 6
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
57 57 54 60 63 63 57 57 60 60 57 60 60 48 54 51 54 54 57 60 60 54
0
50
00

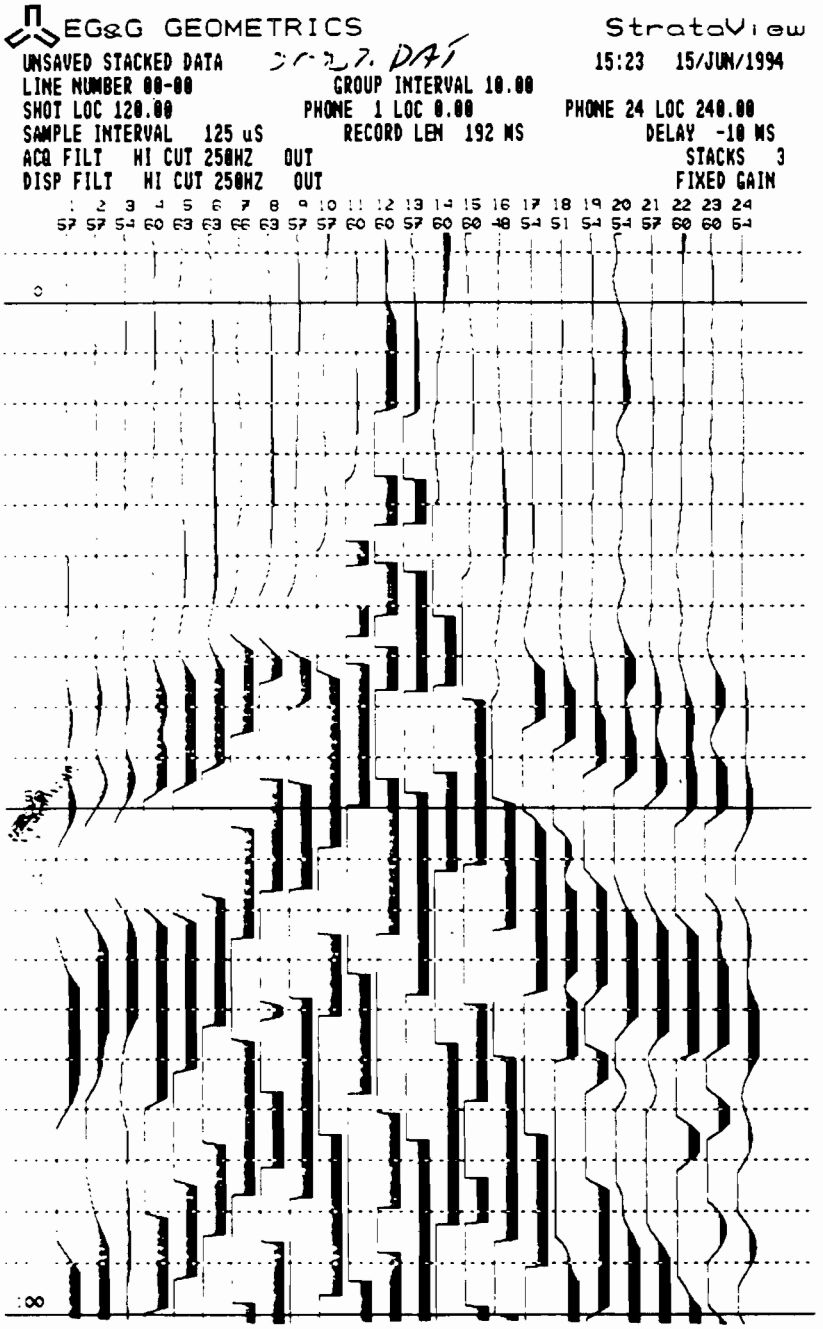

EG&G GEOMETRICS
StrataView
SAVED AS 0023.DAT
13:45 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 260.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 5
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
57 57 54 60 63 63 57 57 60 60 57 60 60 48 54 51 54 54 57 60 60 54
0
50
100


EG&G GEOMETRICS
StrataView
SAVED AS 0025.DAT
15:9 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC -20.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 5
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
57 57 54 60 63 63 66 63 57 57 60 60 57 60 60 48 54 51 54 54 57 60 60 54
0
50
100


EG&G GEOMETRICS
StrataView
UNSAVED STACKED DATA
0025.DAT
15:12 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC -10.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 1
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
57 57 54 60 63 63 66 63 57 57 60 60 57 60 60 48 54 51 54 54 57 60 60 54
0
50
100


EG&G GEOMETRICS
StrataView
SAVED AS 0026.DAT
15:14 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC -10.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 5
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
57 57 54 60 63 63 66 63 57 57 60 60 57 60 60 48 54 51 54 54 57 60 60 54
0
50
100

Line Y-Int


EG&G GEOMETRICS
StrataView
UNSAVED STACKED DATA
15:23 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 120.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 3
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
57 57 54 60 63 63 66 63 57 57 60 60 57 60 60 48 54 51 54 54 57 60 60 54
0
∞

EG&G GEOMETRICS StrataView

UNSAVED STACKED DATA 027.DAT 15:22 15/JUN/1994

LINE NUMBER 00-00 GROUP INTERVAL 10.00

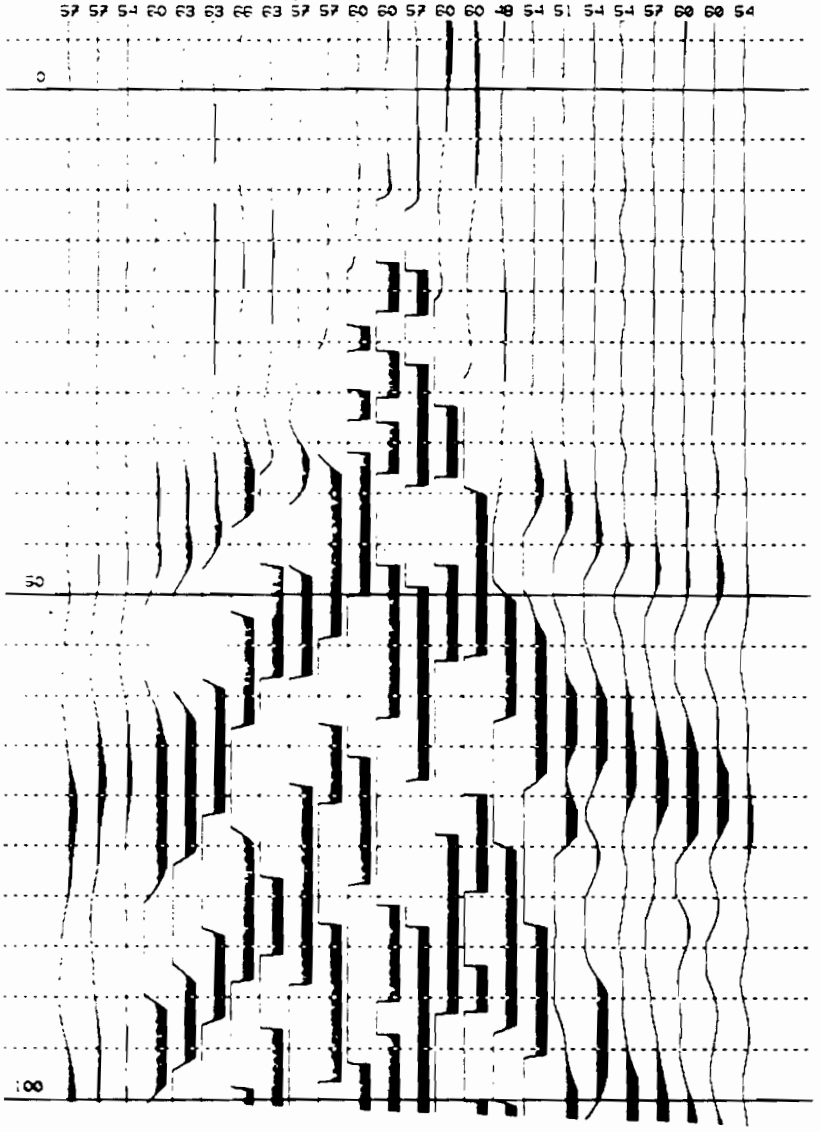
SHOT LOC 120.00 PHONE 1 LOC 0.00 PHONE 24 LOC 240.00

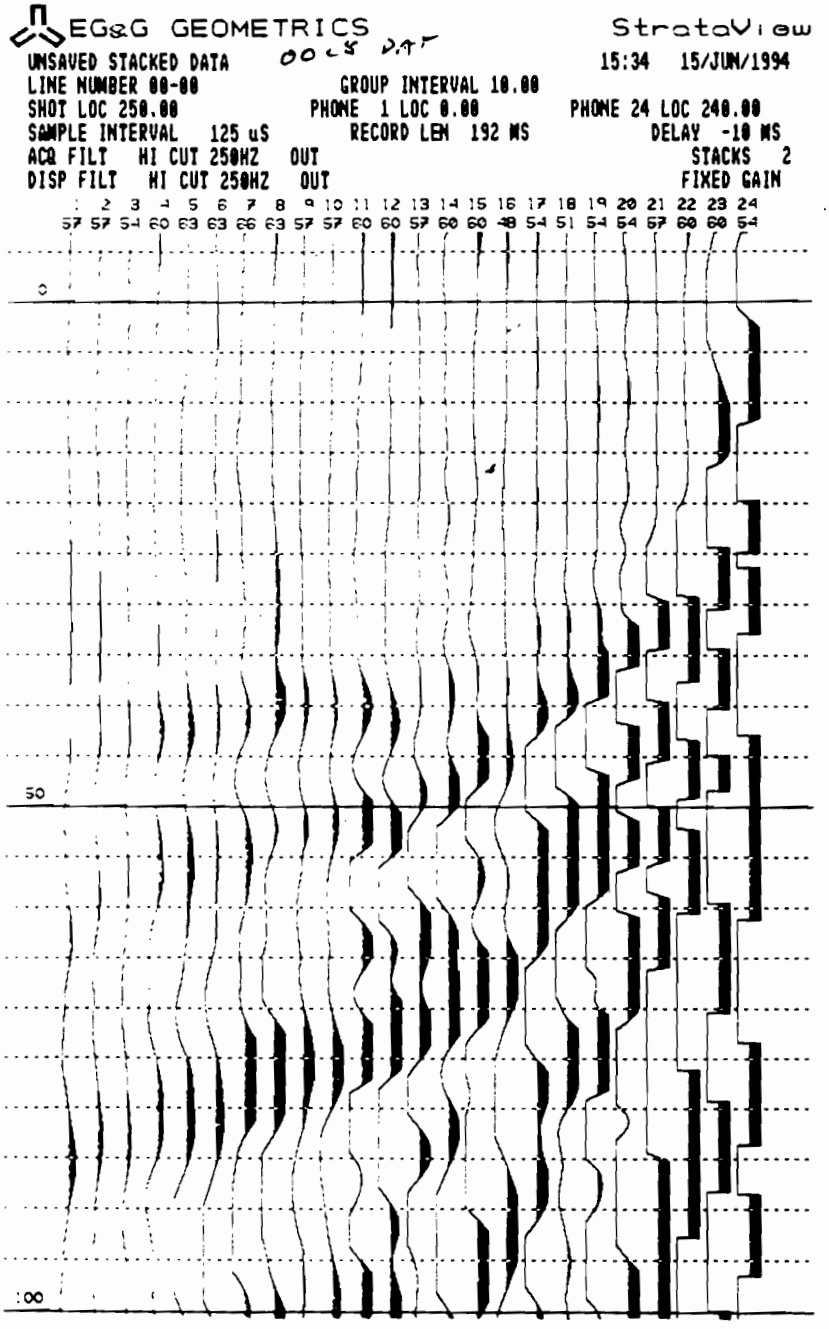
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS

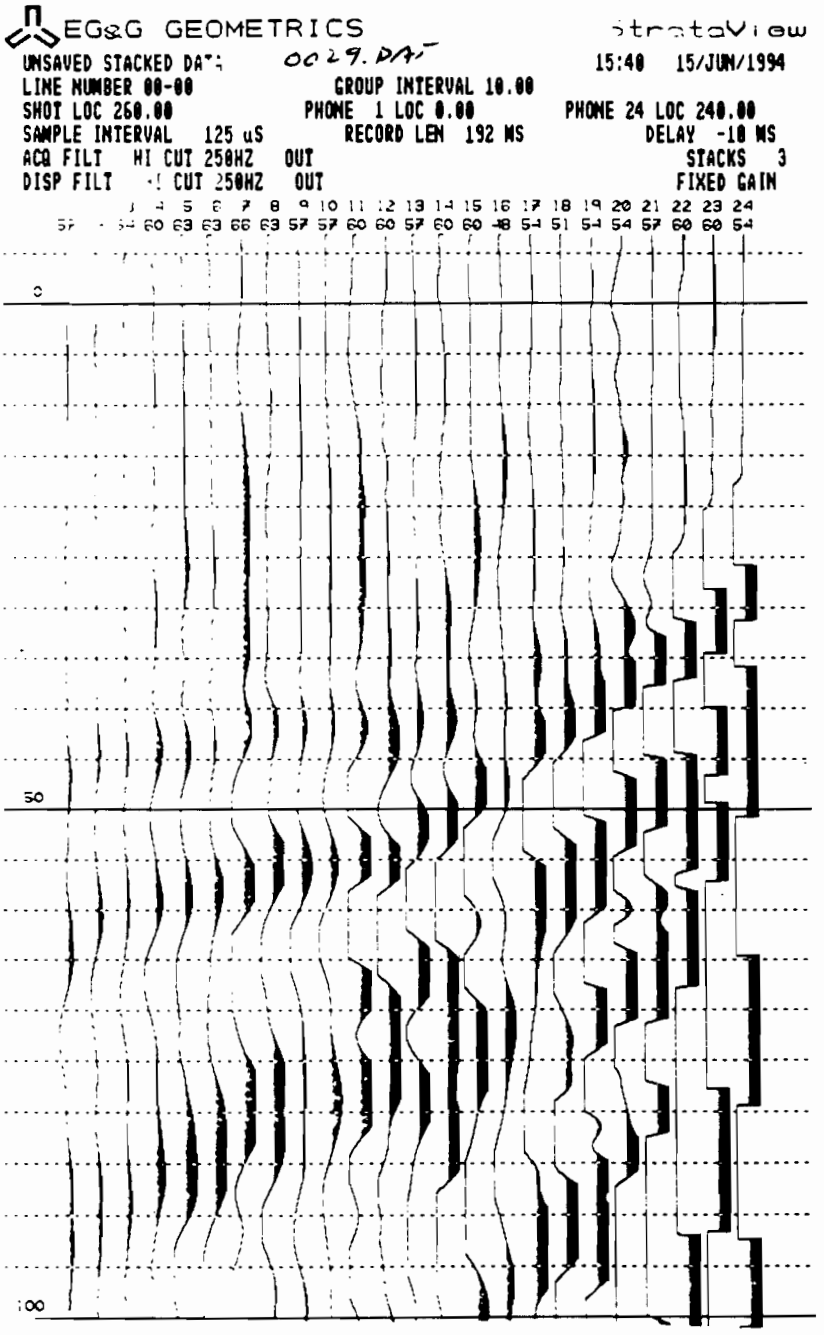
ACQ FILT HI CUT 250HZ OUT STACKS 1

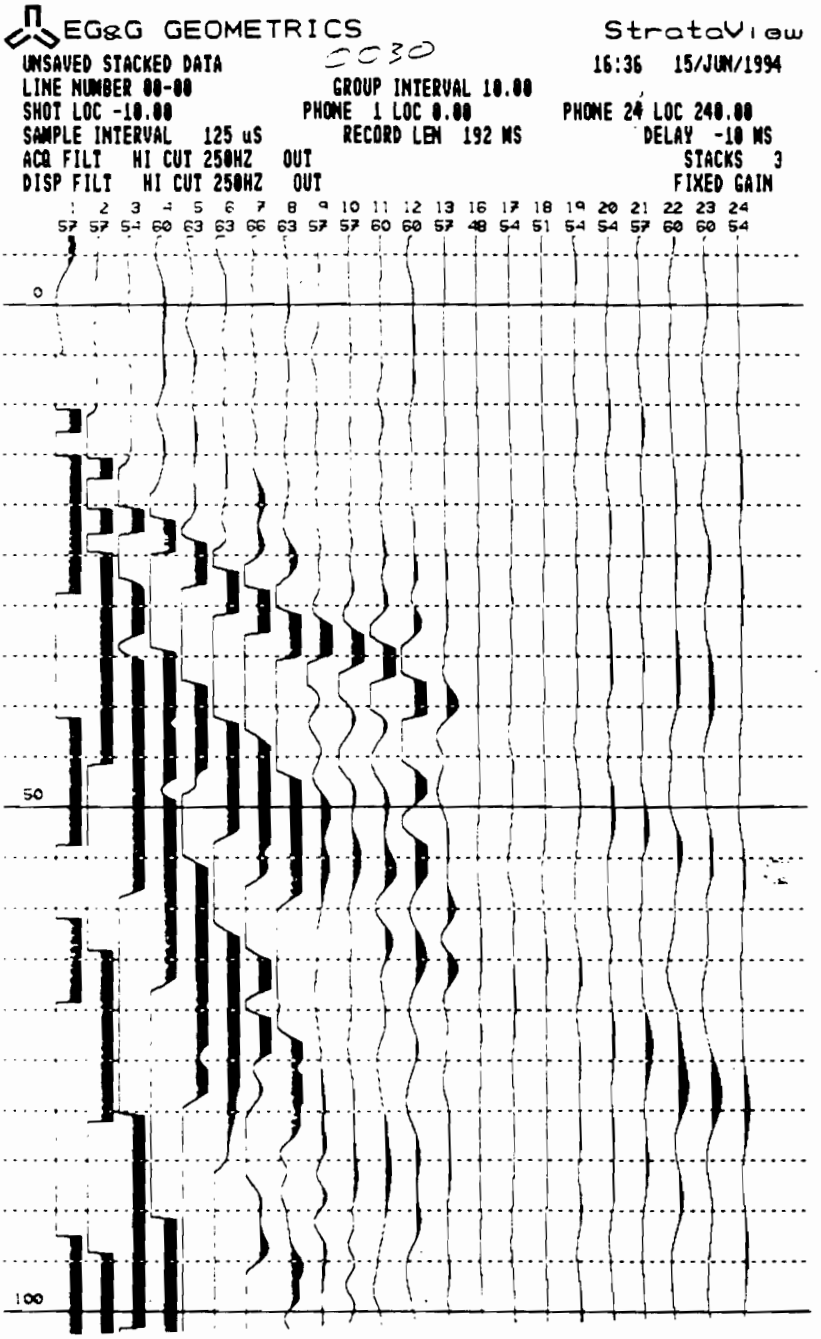
DISP FILT HI CUT 250HZ OUT FIXED GAIN

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
57	57	54	60	63	63	66	63	57	57	60	60	57	60	60	48	54	51	54	54	57	60	60	54



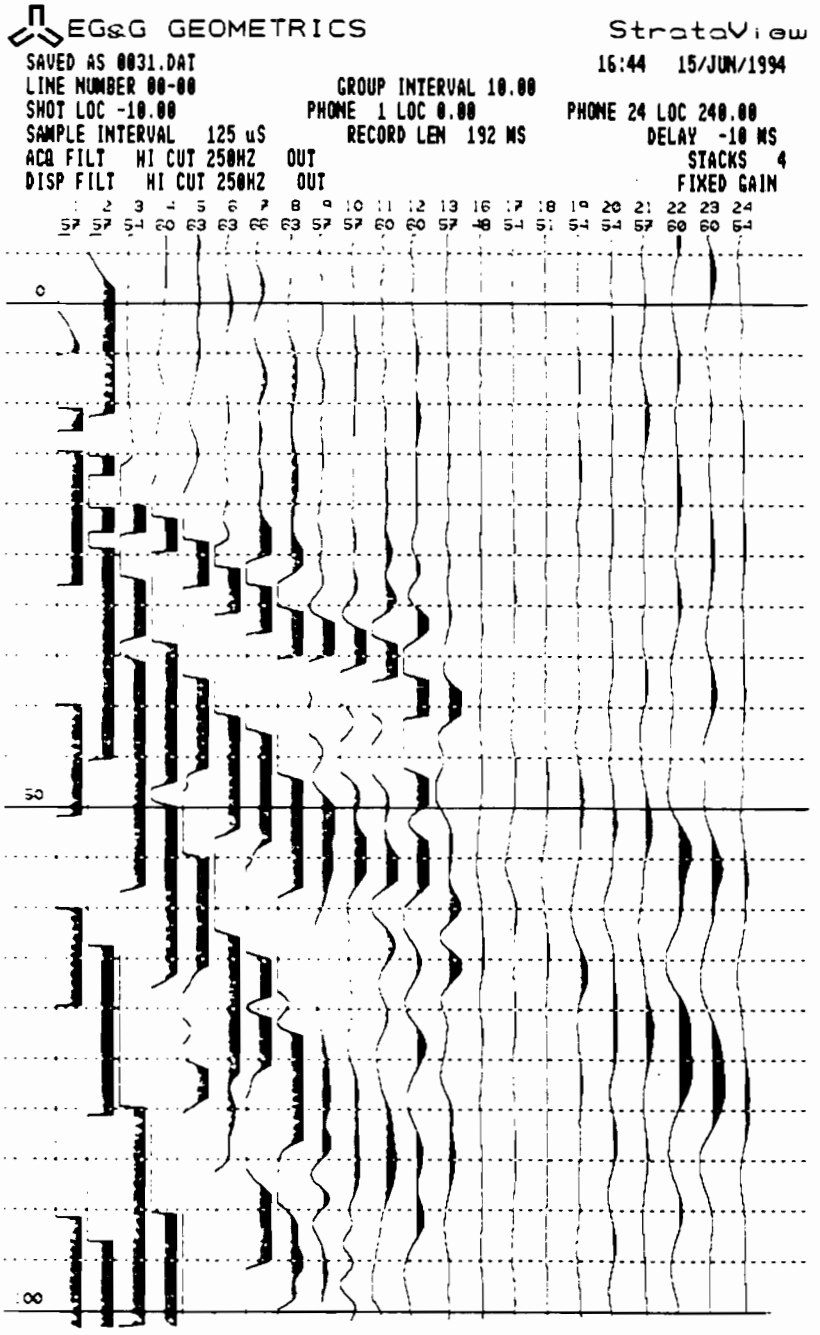

EG&G GEOMETRICS
StrataView
UNSAVED STACKED DATA
15:34 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 250.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 2
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
57 57 54 60 63 63 66 63 57 57 60 60 57 60 60 48 54 51 54 54 57 60 60 54
0
50
100

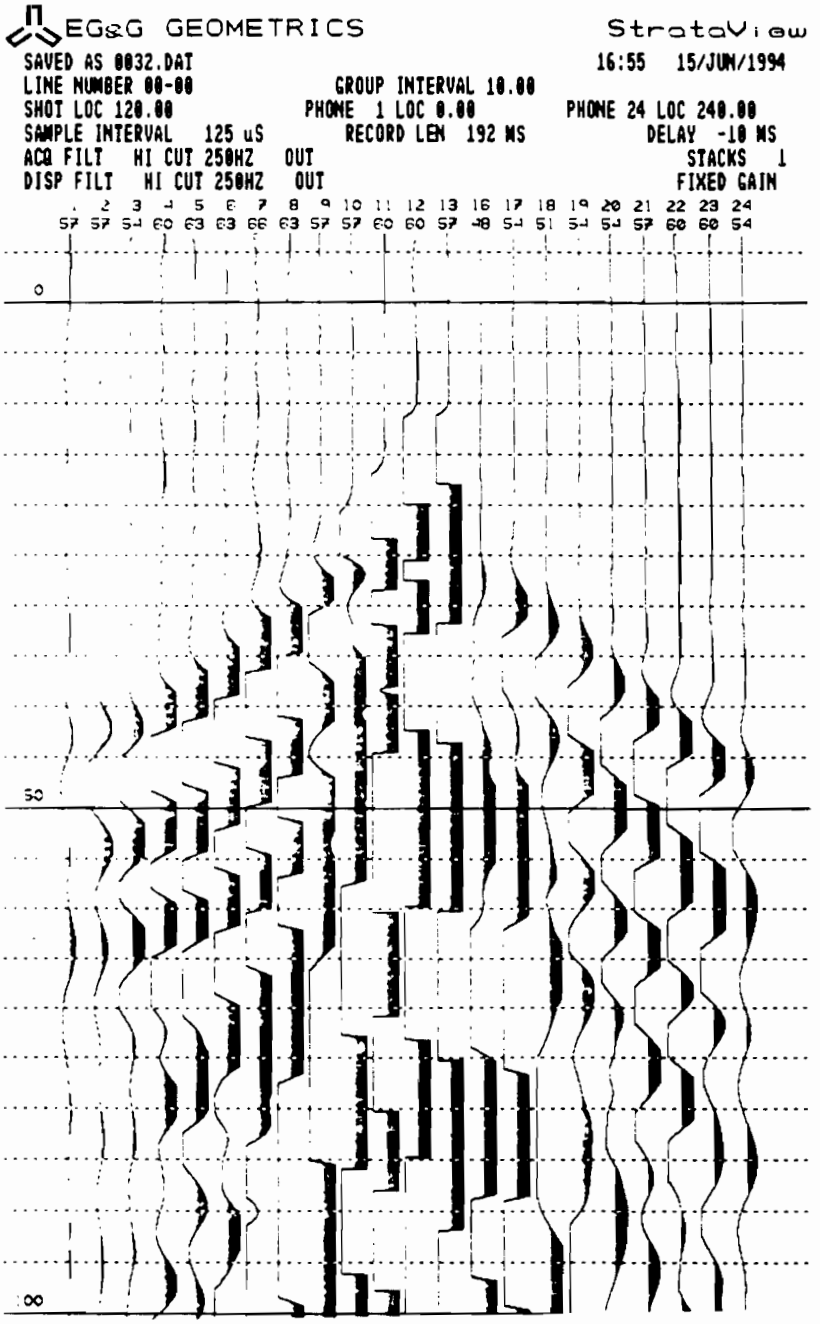

EG&G GEOMETRICS
StrataView
UNSAVED STACKED DATA 0029.DAT
15:40 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 260.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 3
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
57 54 60 63 63 66 63 57 57 60 60 57 60 60 48 54 51 54 54 57 60 60 54
0
50
100

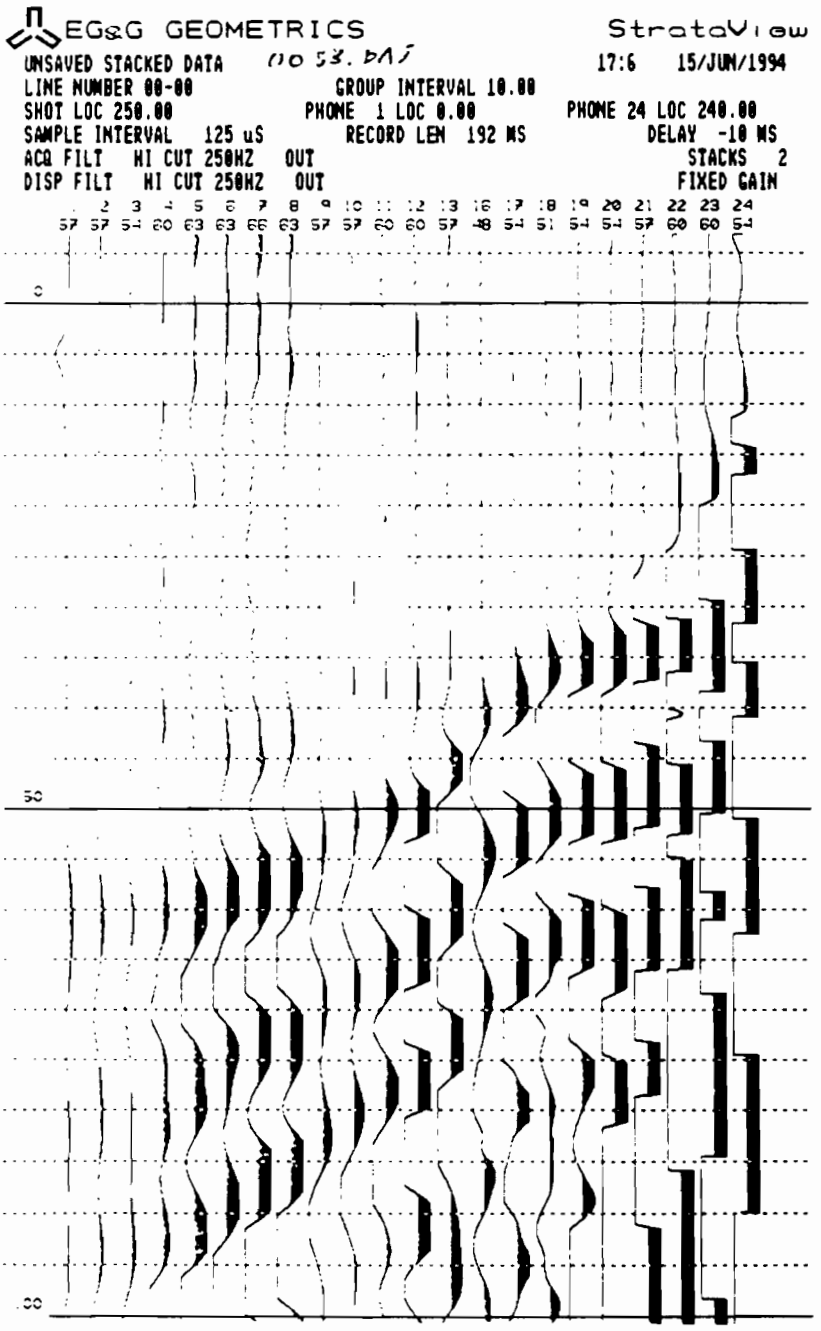

EG&G GEOMETRICS
StrataView
UNSAVED STACKED DATA
2030
16:36 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC -10.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 3
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 16 17 18 19 20 21 22 23 24
57 57 54 60 63 63 66 63 57 57 60 60 57 48 54 51 54 54 57 60 60 54
0
50
100

Forward Shot

Y = 1.0C



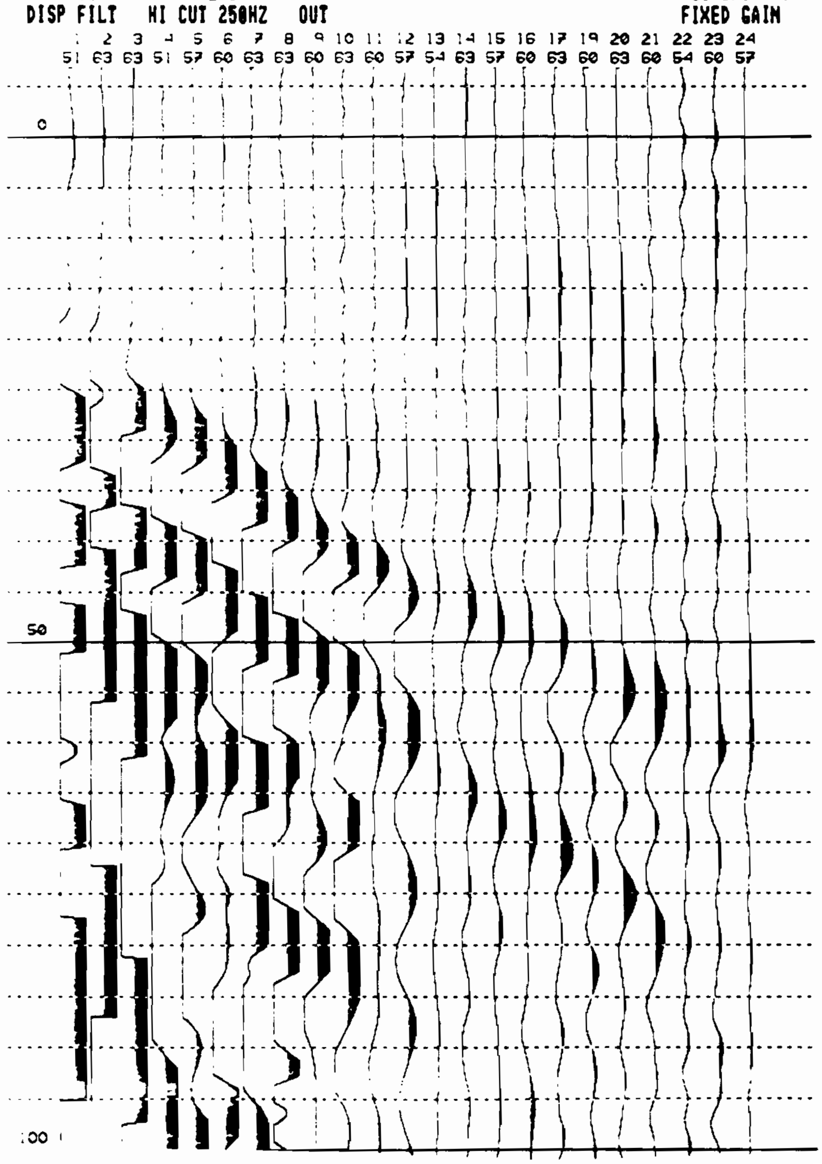

EG&G GEOMETRICS
StrataView
SAVED AS 0032.DAT
16:55 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 120.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 1
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 16 17 18 19 20 21 22 23 24
57 57 54 60 63 63 66 63 57 57 60 60 57 48 54 51 54 54 57 60 60 54
0
50
100

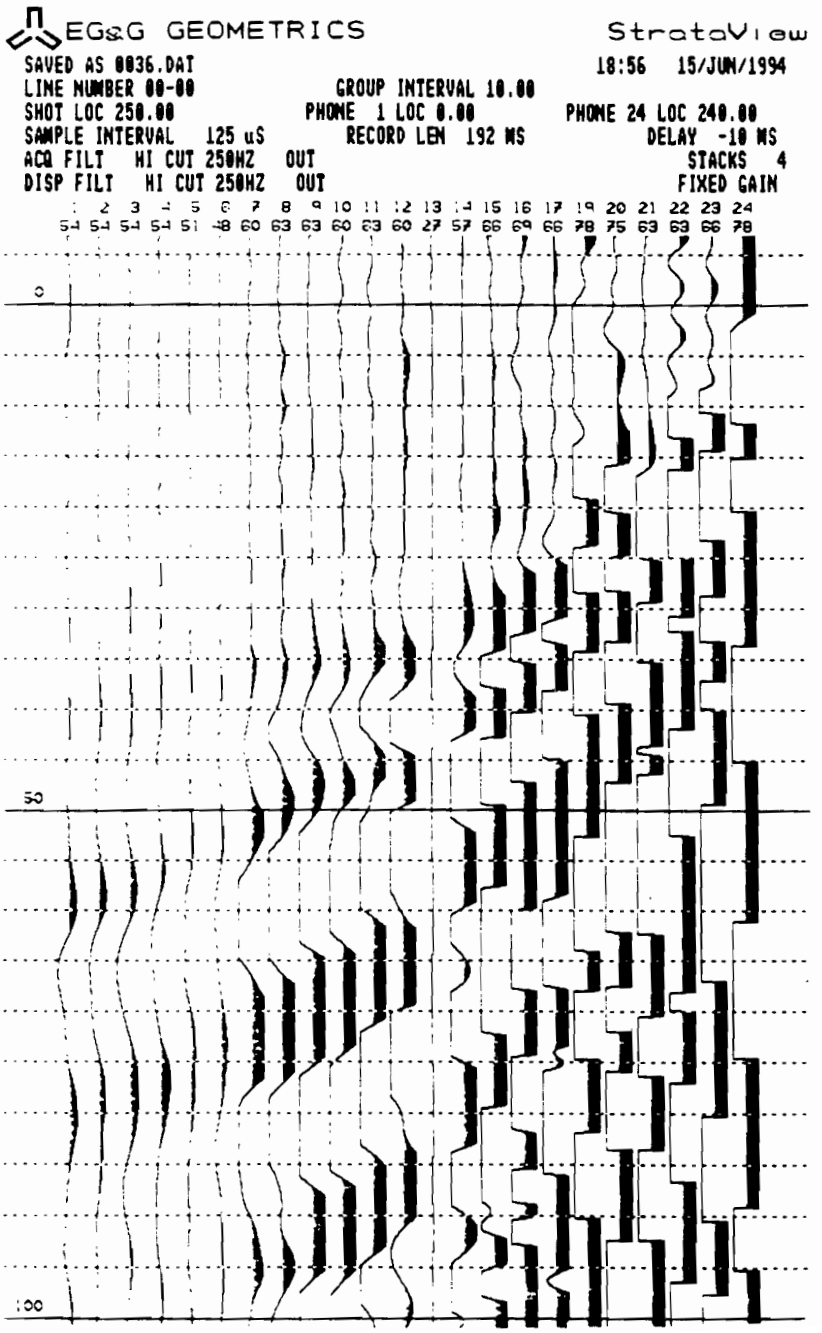

EG&G GEOMETRICS
StrataView
UNSAVED STACKED DATA no 53.DAT
17:6 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 250.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 2
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 16 17 18 19 20 21 22 23 24
57 57 54 60 63 63 66 63 57 57 60 60 57 48 54 51 54 54 57 60 60 54
0
50
00

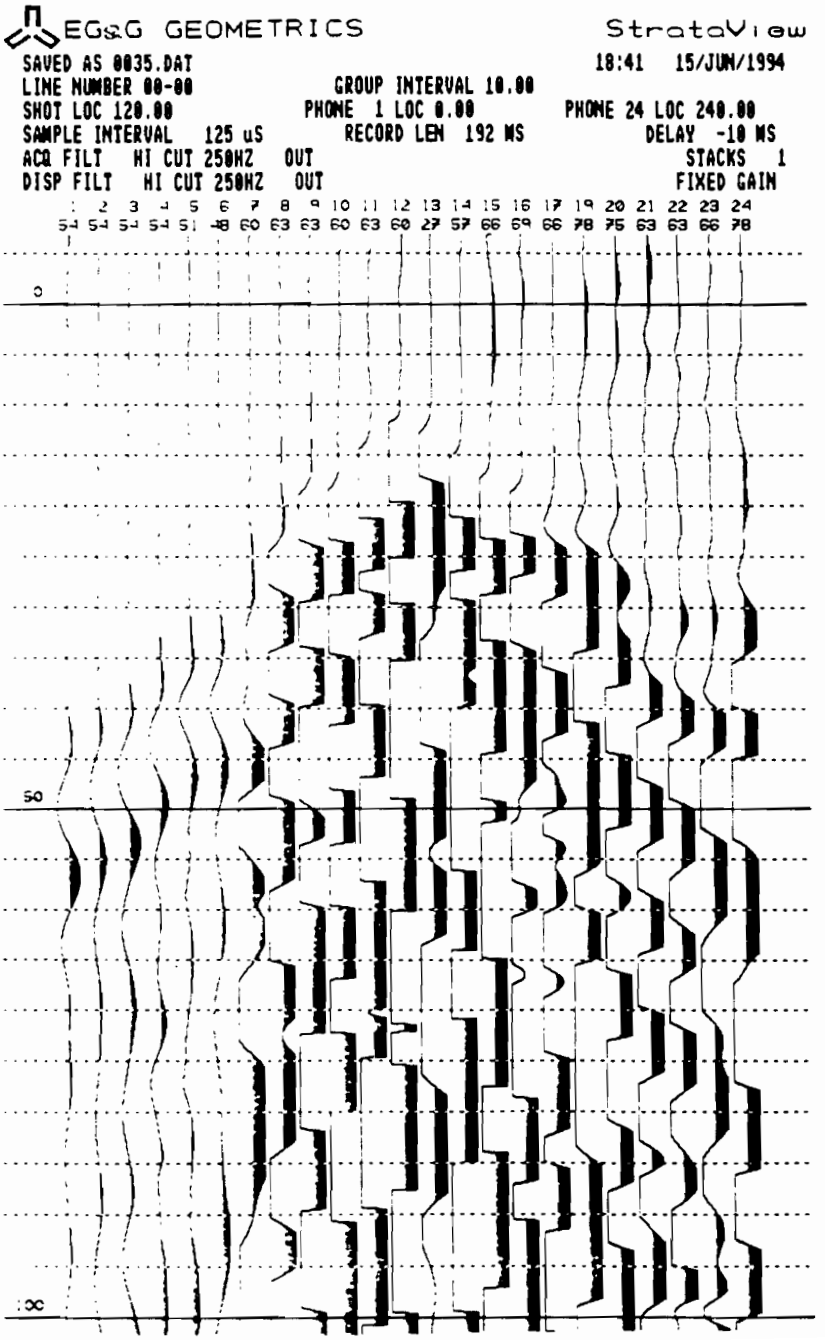
[illegible]
[illegible] Y=2.0F

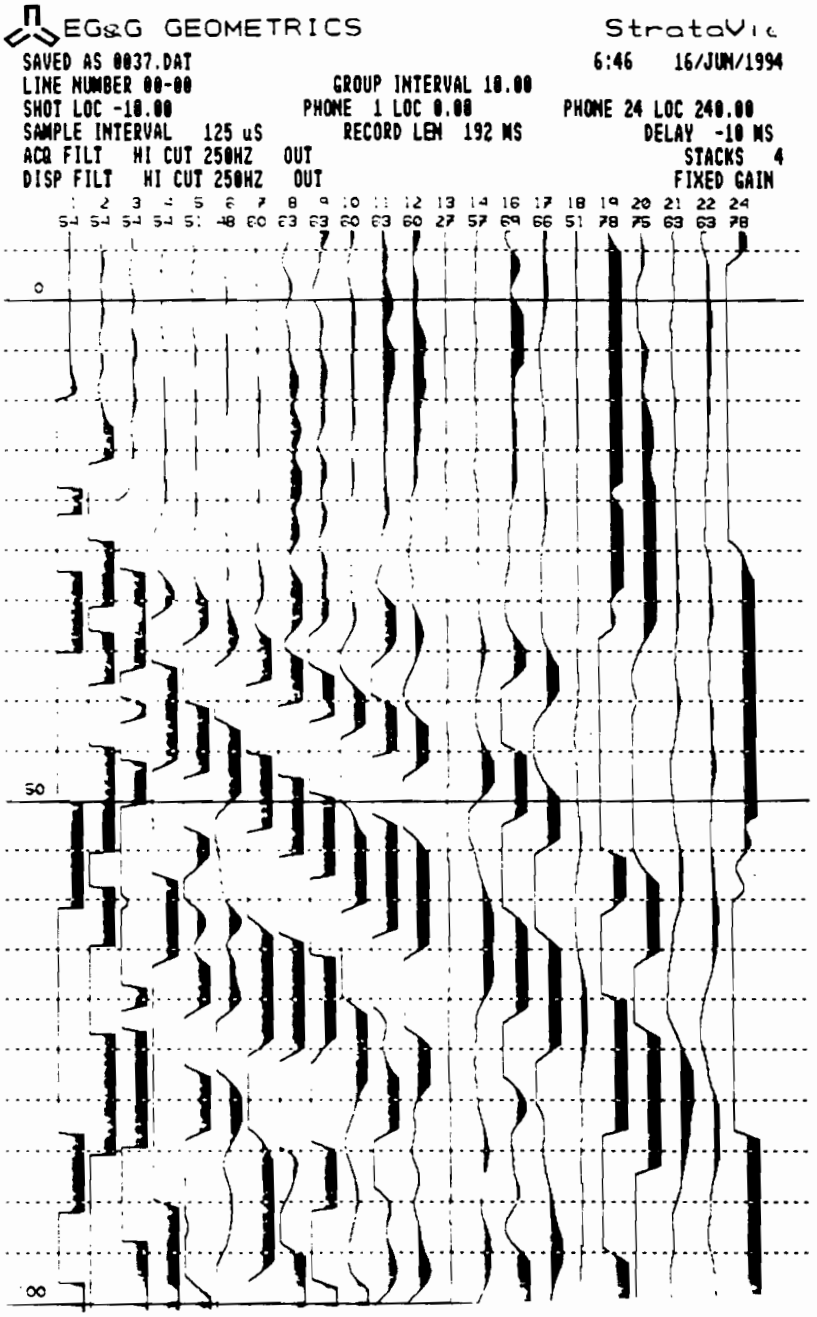
EG&G GEOMETRICS StrataView

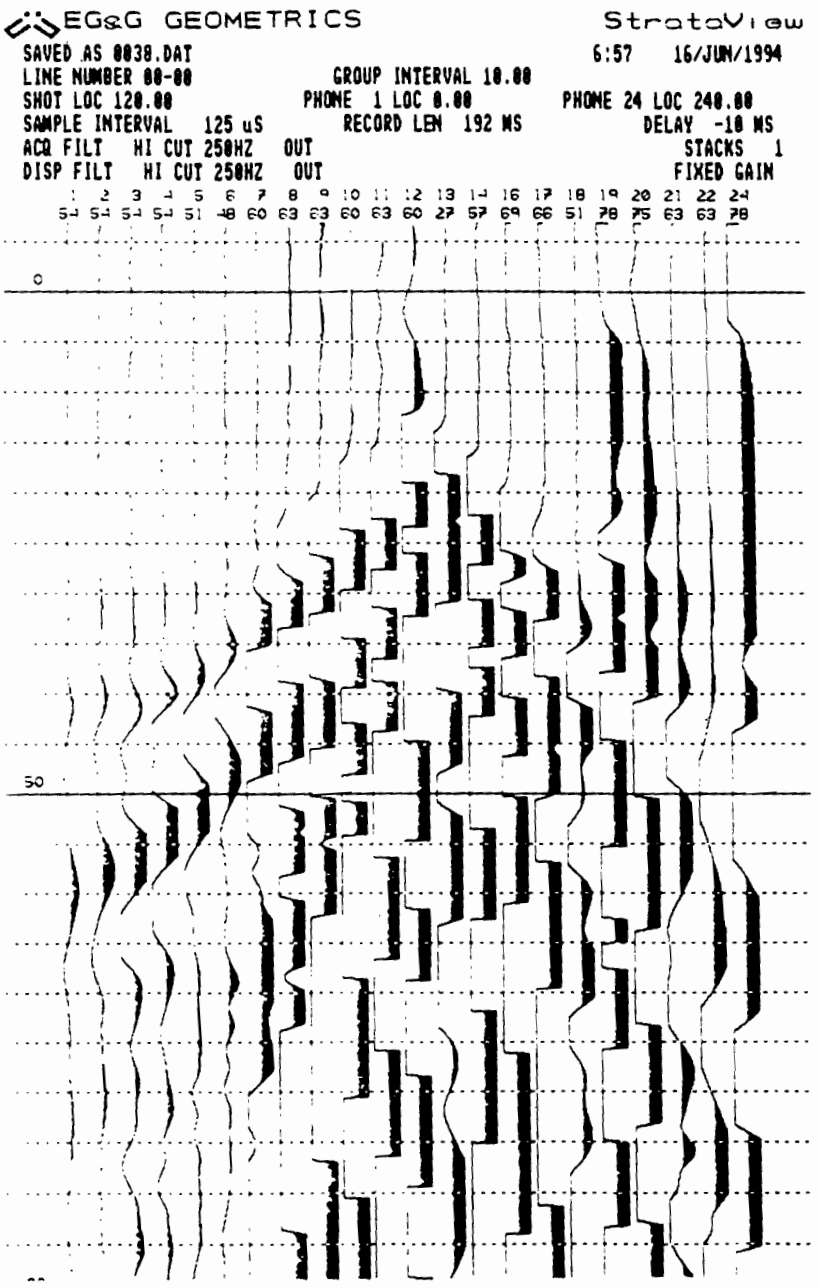
SAVED AS 0034.DAT 10:35 15/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC -20.00 PHONE 1 LOC 0.00 PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT STACKS 3
DISP FILT HI CUT 250HZ OUT FIXED GAIN




EG&G GEOMETRICS
StrataView
SAVED AS 0036.DAT
18:56 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 250.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 4
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 19 20 21 22 23 24
54 54 54 54 51 48 60 63 63 60 63 60 27 57 66 69 66 78 75 63 63 66 78
0
50
100


EG&G GEOMETRICS
StrataView
SAVED AS 0035.DAT
18:41 15/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 120.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 1
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 19 20 21 22 23 24
54 54 54 54 51 48 60 63 63 60 63 60 27 57 66 69 66 78 75 63 63 66 78
0
50
100

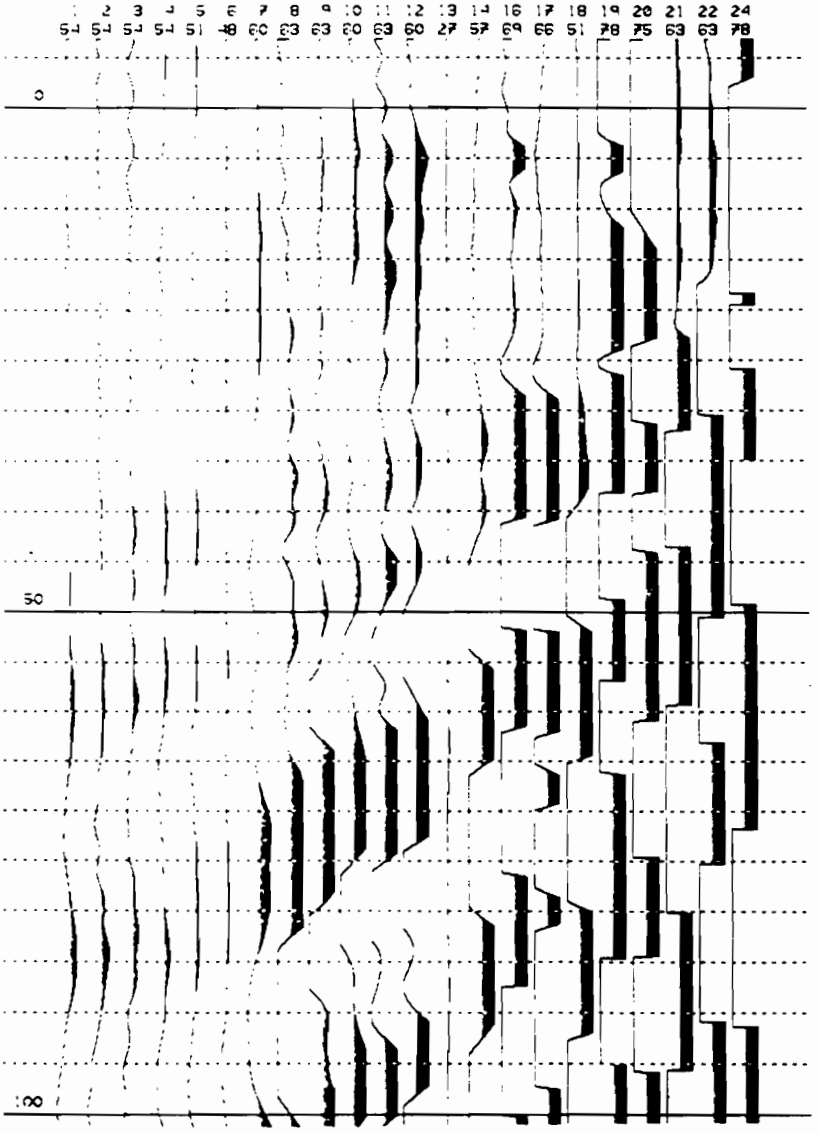

EG&G GEOMETRICS
StrataVi
SAVED AS 0037.DAT
6:46 16/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC -10.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 4
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24
54 54 54 54 51 48 60 63 63 60 63 60 27 57 69 66 51 78 75 63 63 78
0
50
00


EG&G GEOMETRICS
StrataView
SAVED AS 0038.DAT
6:57 16/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 120.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 1
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24
54 54 54 54 51 48 60 63 63 60 63 60 27 57 69 66 51 78 75 63 63 78
0
50

Reverse shot
Line Y=200

EG&G GEOMETRICS StrataView

SAVED AS 0039.DAT 7:15 10 JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC 250.00 PHONE 1 LOC 0.00 PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT STACKS 5
DISP FILT HI CUT 250HZ OUT FIXED GAIN



Found. Test

Line X = 5.0 ft

EG&G GEOMETRICS StrataView

SAVED AS 0040.DAT 8:16 16/JUN/1994

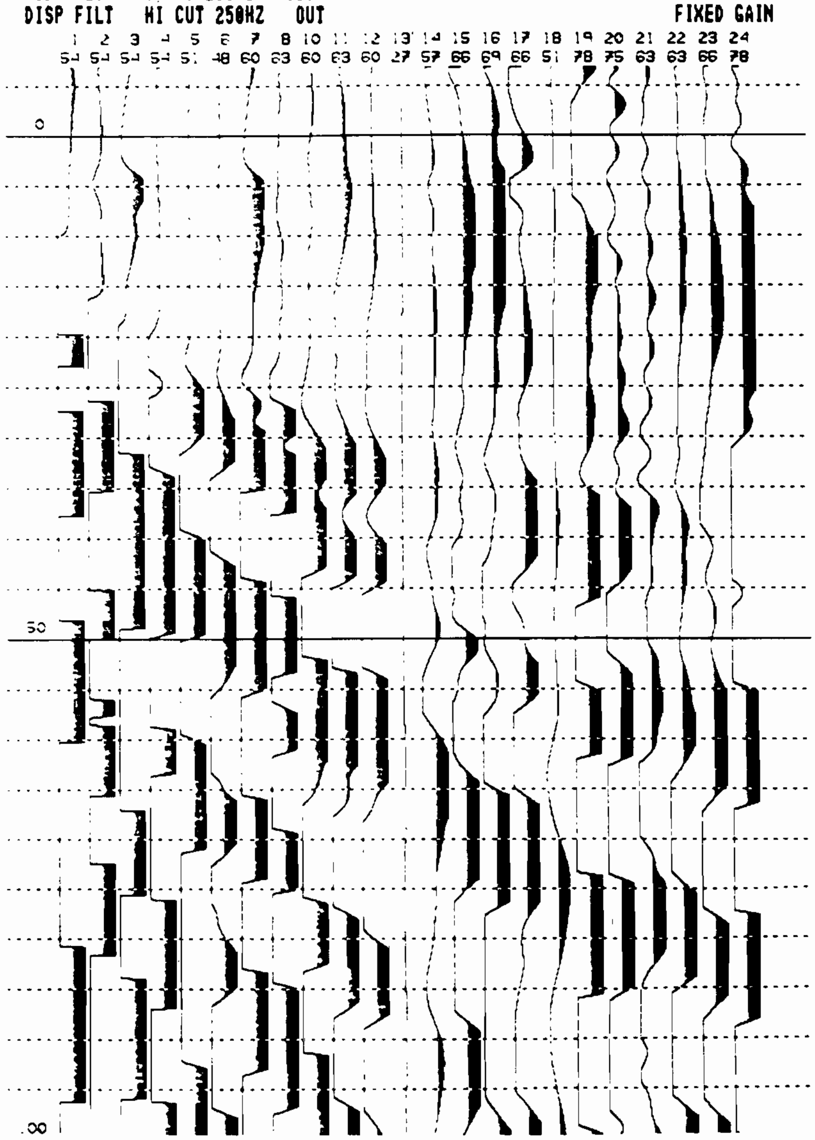
LINE NUMBER 00-00 GROUP INTERVAL 10.00

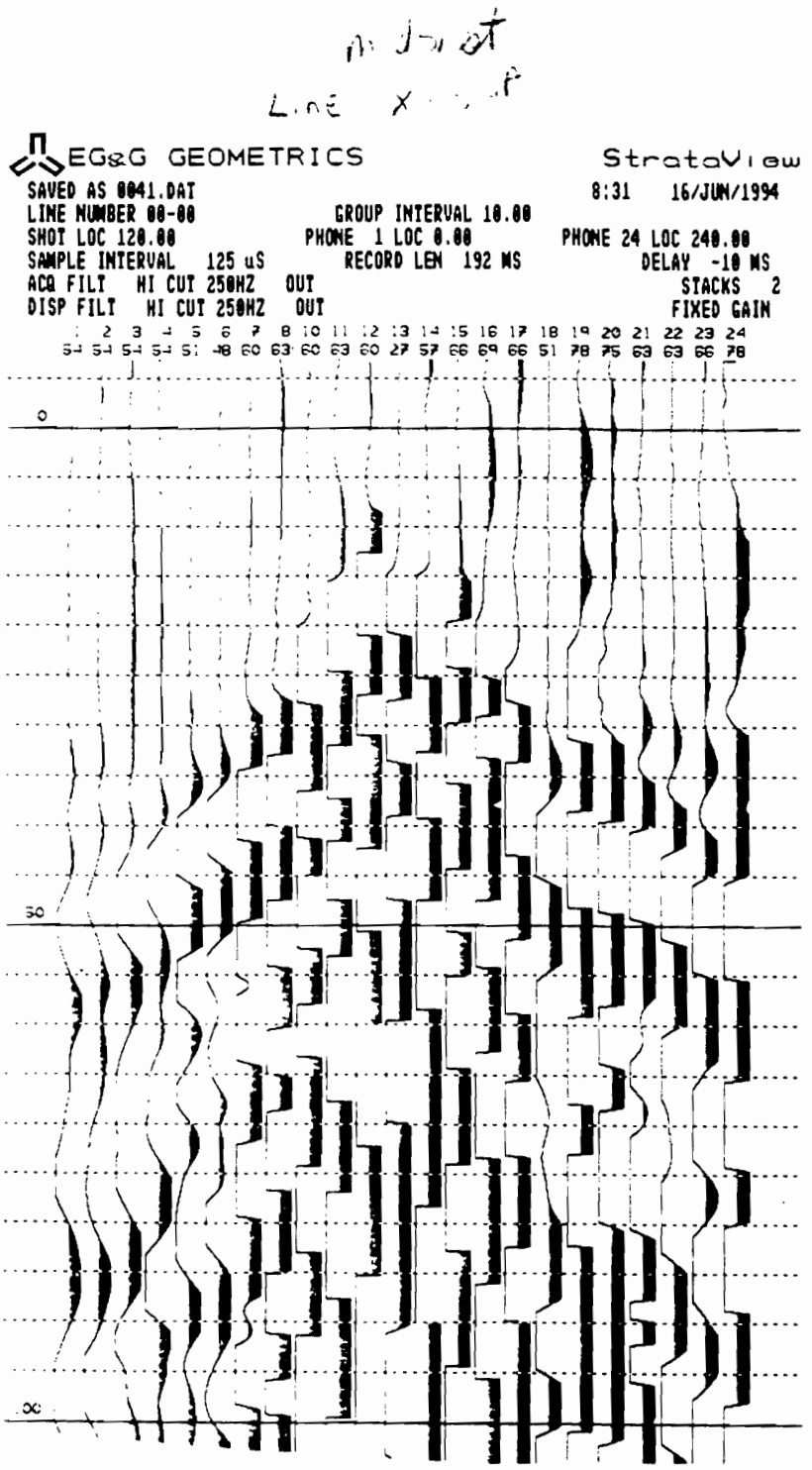
SHOT LOC -10.00 PHONE 1 LOC 0.00 PHONE 24 LOC 240.00

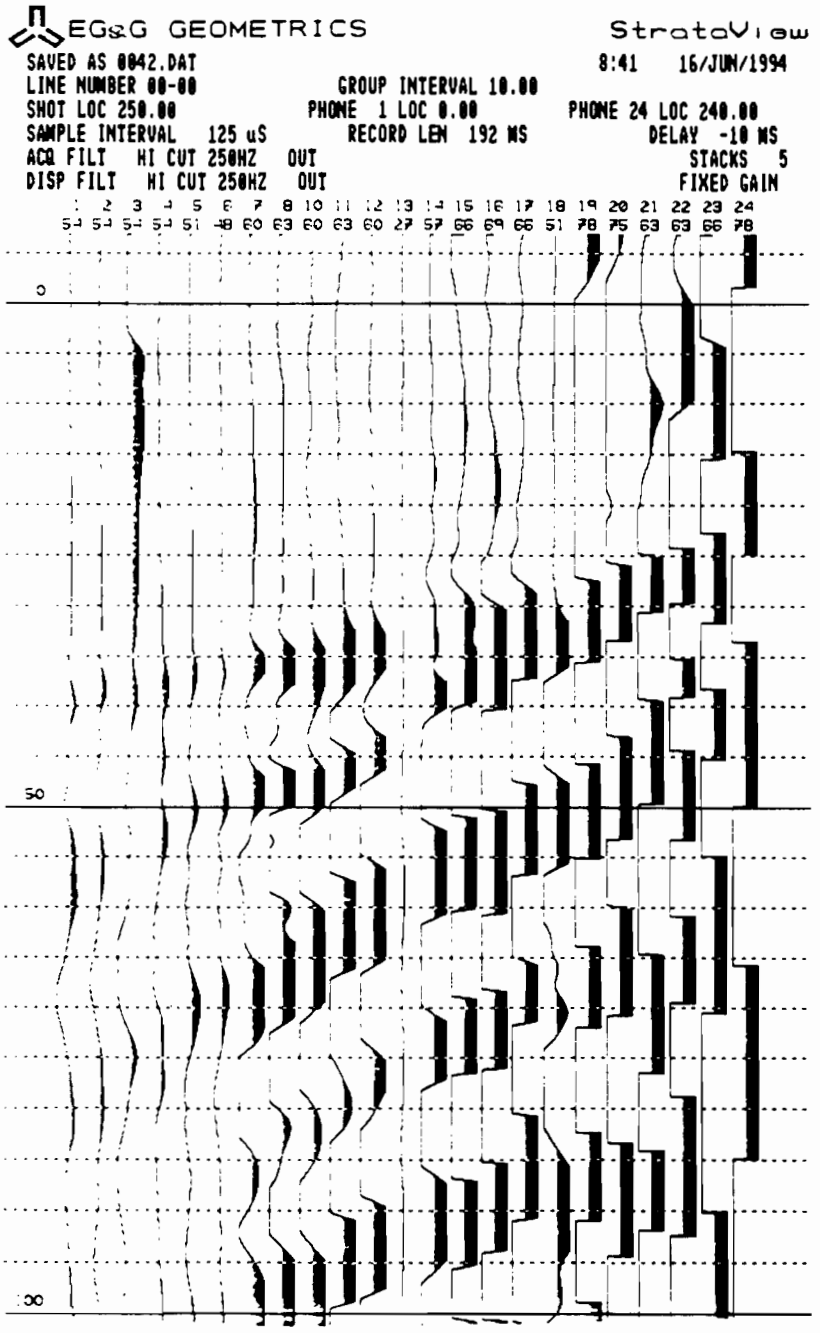
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS

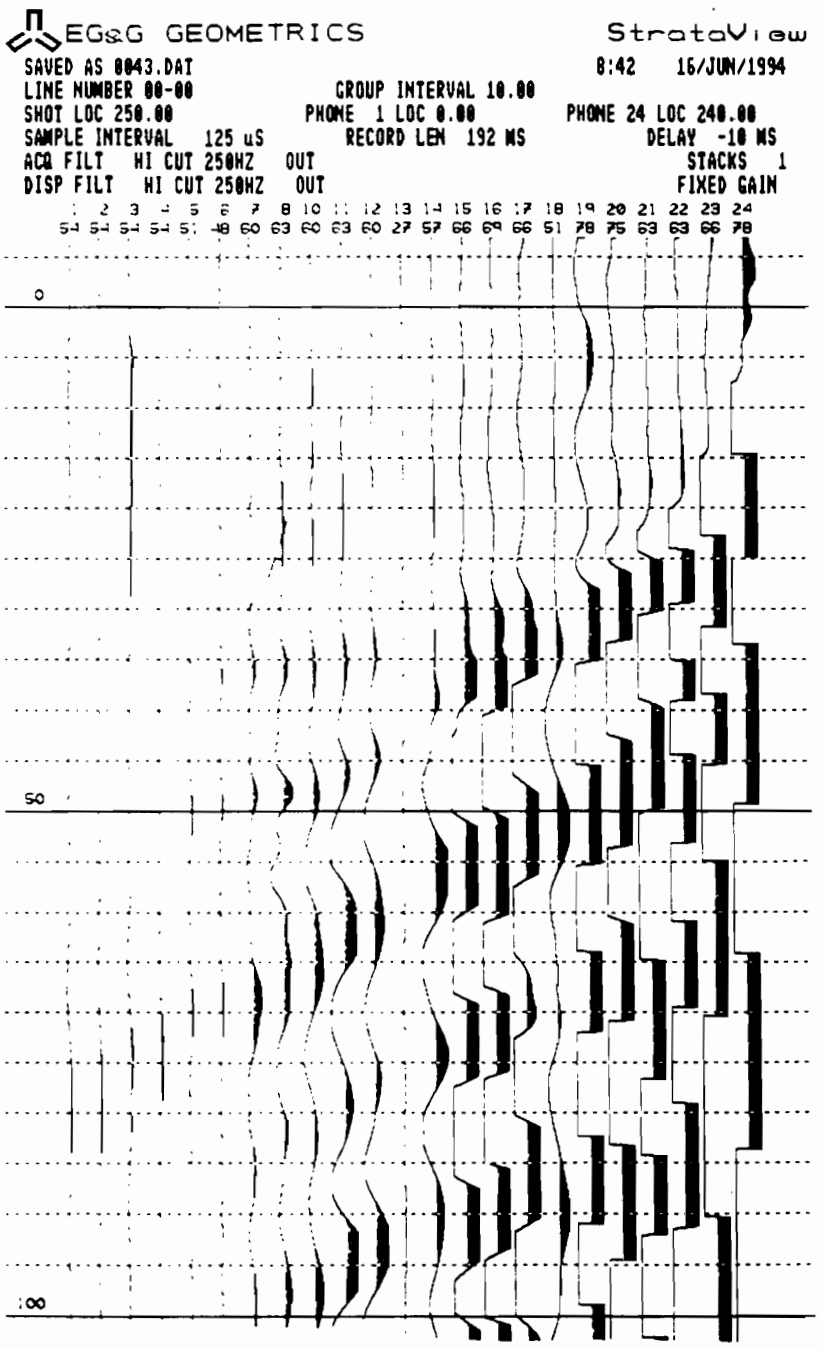
ACQ FILT HI CUT 250HZ OUT STACKS 5

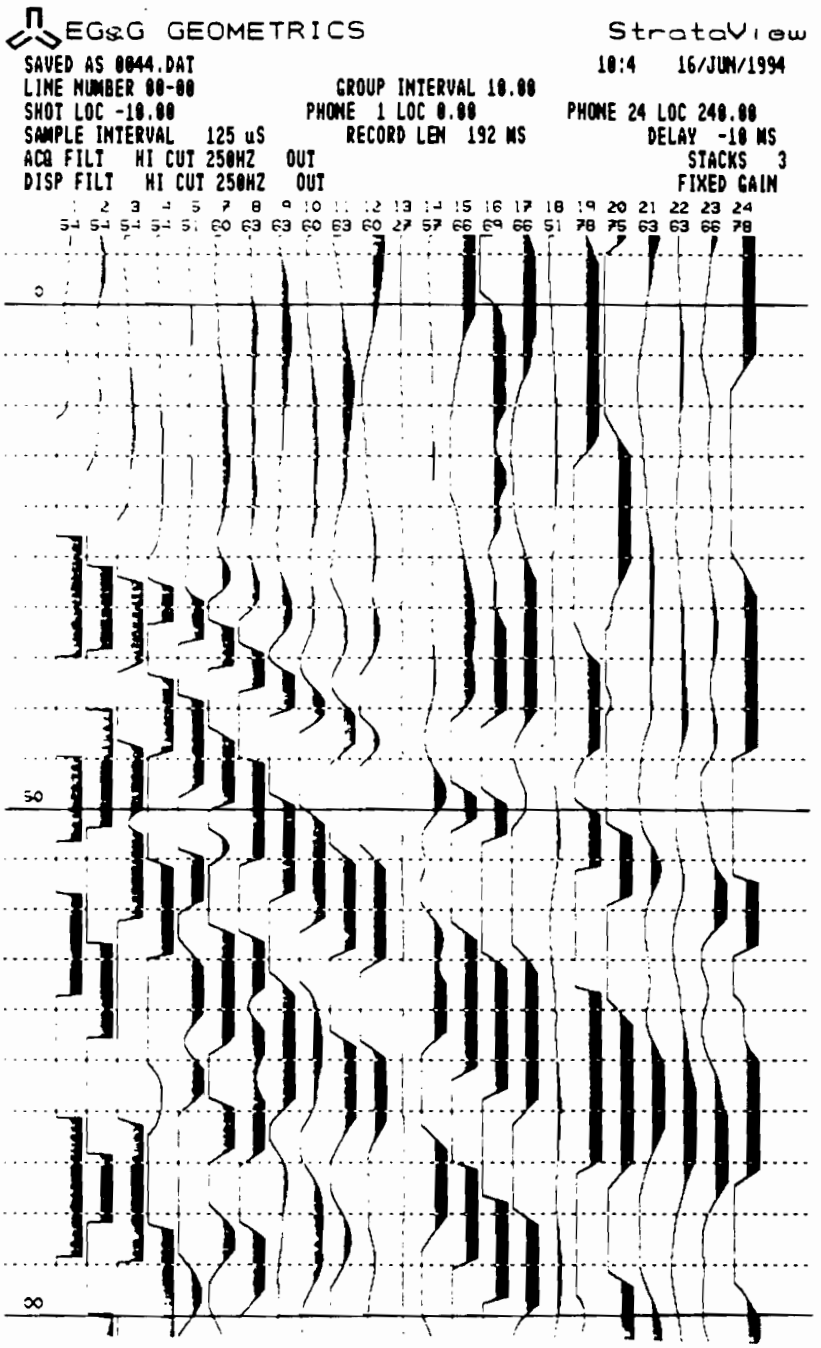
DISP FILT HI CUT 250HZ OUT FIXED GAIN

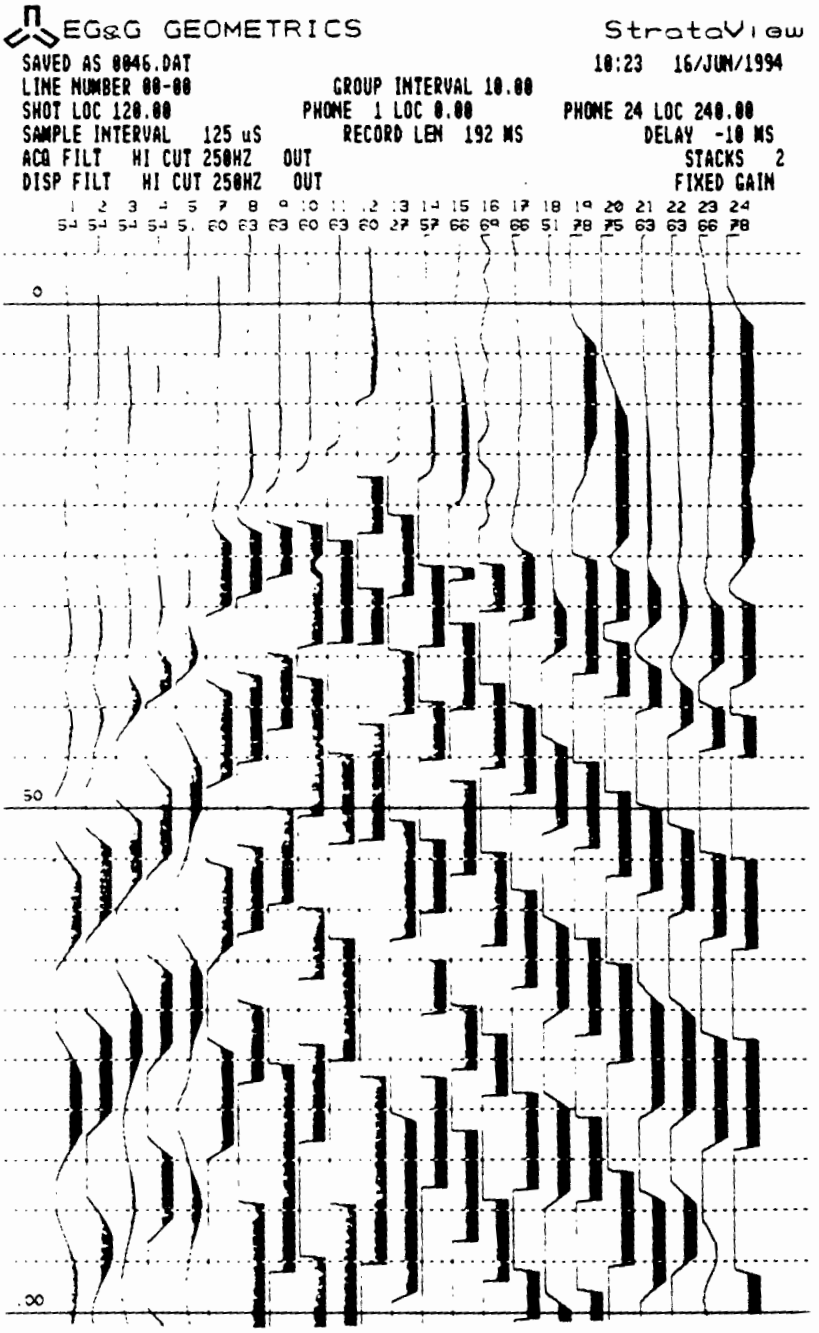



EG&G GEOMETRICS
StrataView
SAVED AS 0041.DAT
8:31 16/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 120.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 2
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
54 54 54 54 51 48 60 63 60 63 60 27 57 66 69 66 51 78 75 63 63 66 78
0
50
100


EG&G GEOMETRICS
StrataView
SAVED AS 0042.DAT
8:41 16/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 250.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 5
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
54 54 54 54 51 48 60 63 60 63 60 27 57 66 69 66 51 78 75 63 63 66 78
0
50
100


EG&G GEOMETRICS
StrataView
SAVED AS 0043.DAT
8:42 16/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 250.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 1
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
54 54 54 54 51 48 60 63 60 63 60 27 57 66 69 66 51 78 75 63 63 66 78
0
50
100

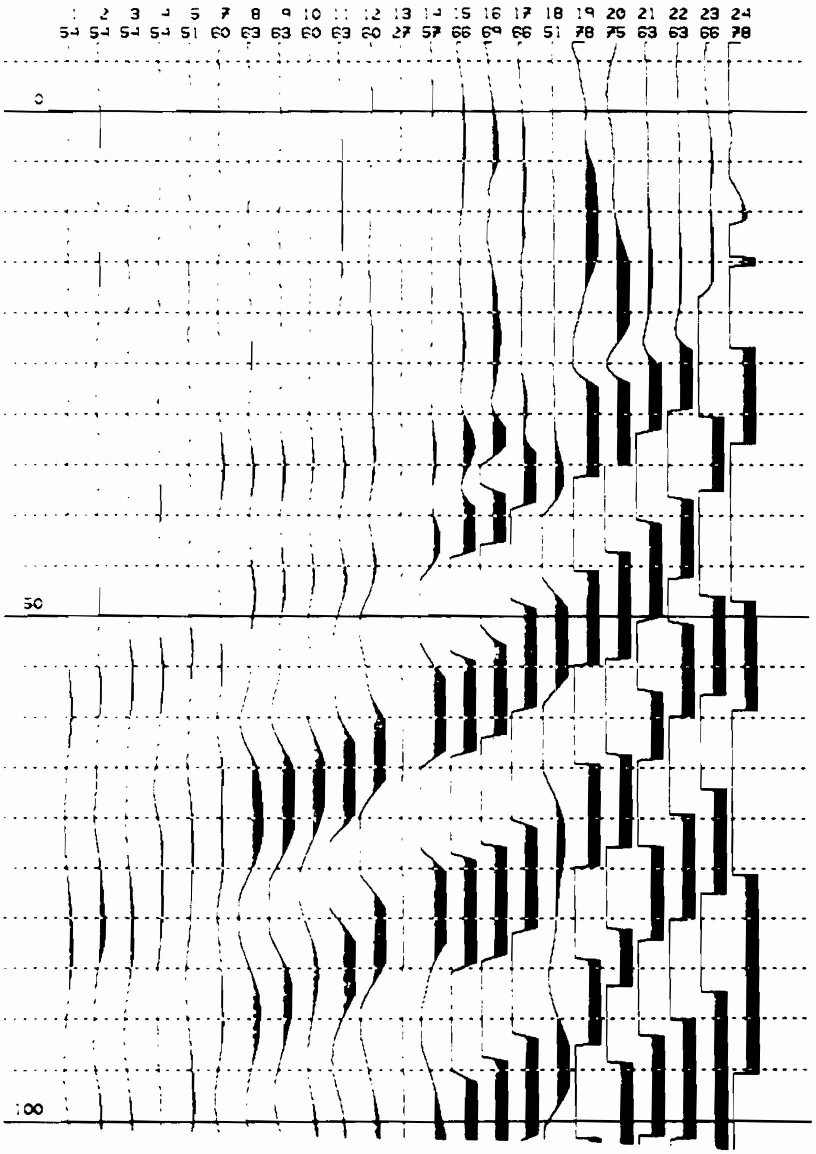

EG&G GEOMETRICS
StrataView
SAVED AS 0044.DAT
10:4 16/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC -10.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 3
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
54 54 54 54 51 60 63 63 60 63 60 27 57 66 69 66 51 78 75 63 63 66 78
0
50
98


EG&G GEOMETRICS
StrataView
SAVED AS 0046.DAT
10:23 16/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 120.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 2
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
54 54 54 54 5. 60 63 63 60 63 60 27 57 66 69 66 51 78 75 63 63 66 78
0
50
.00

[illegible]
X = 6.0 ft

EG&G GEOMETRICS — StrataView

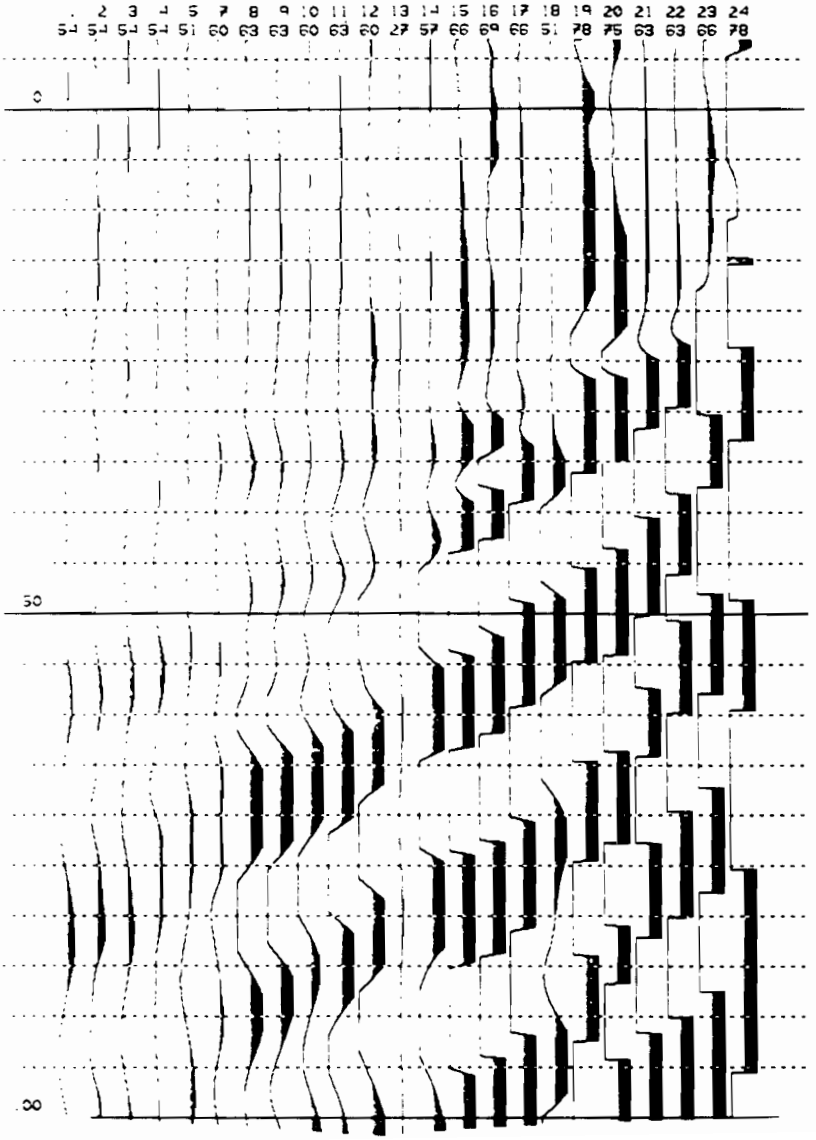
UNSAVED STACKED DATA *0047 ?* 10:35 16/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC 250.00 PHONE 1 LOC 0.00 PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT STACKS 2
DISP FILT HI CUT 250HZ OUT FIXED GAIN



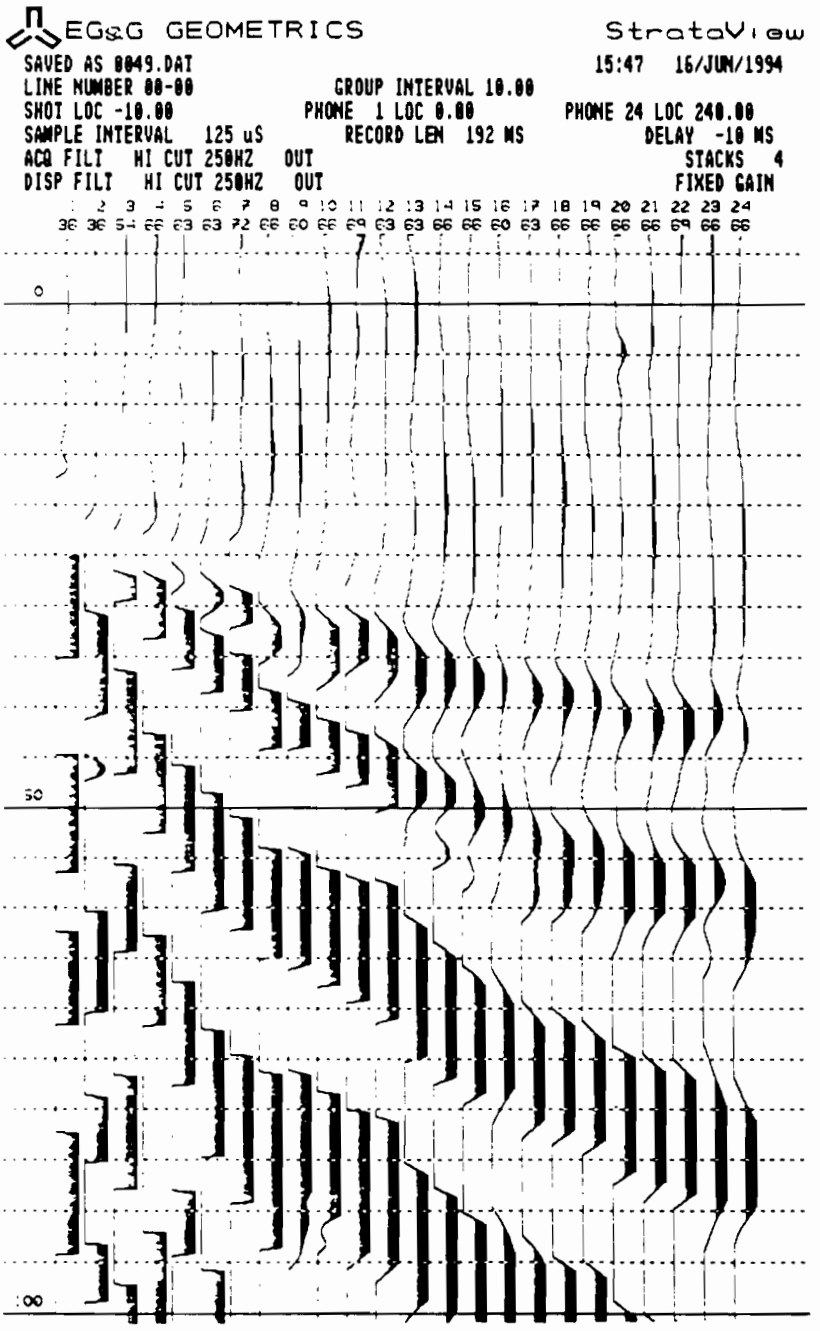
Line

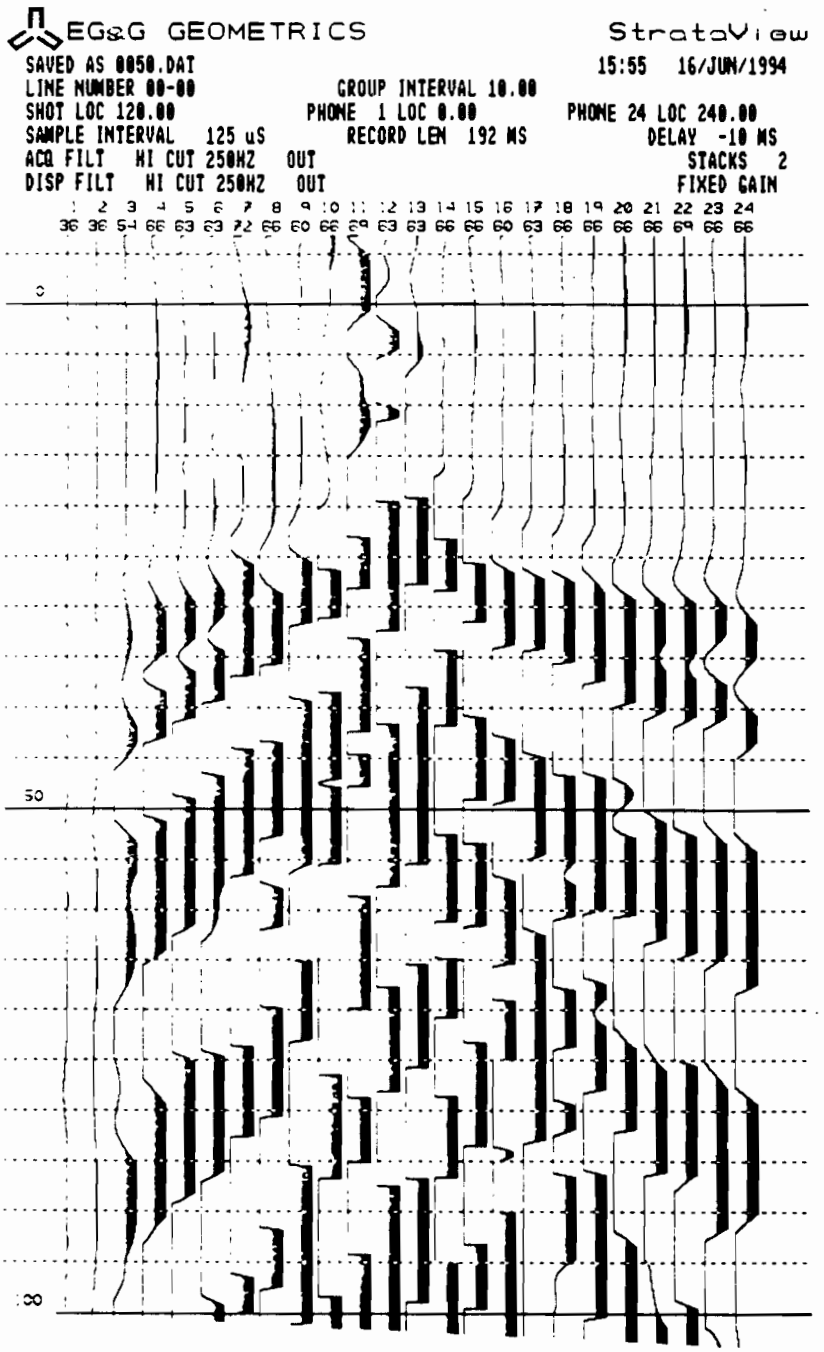
EG&G GEOMETRICS StrataView

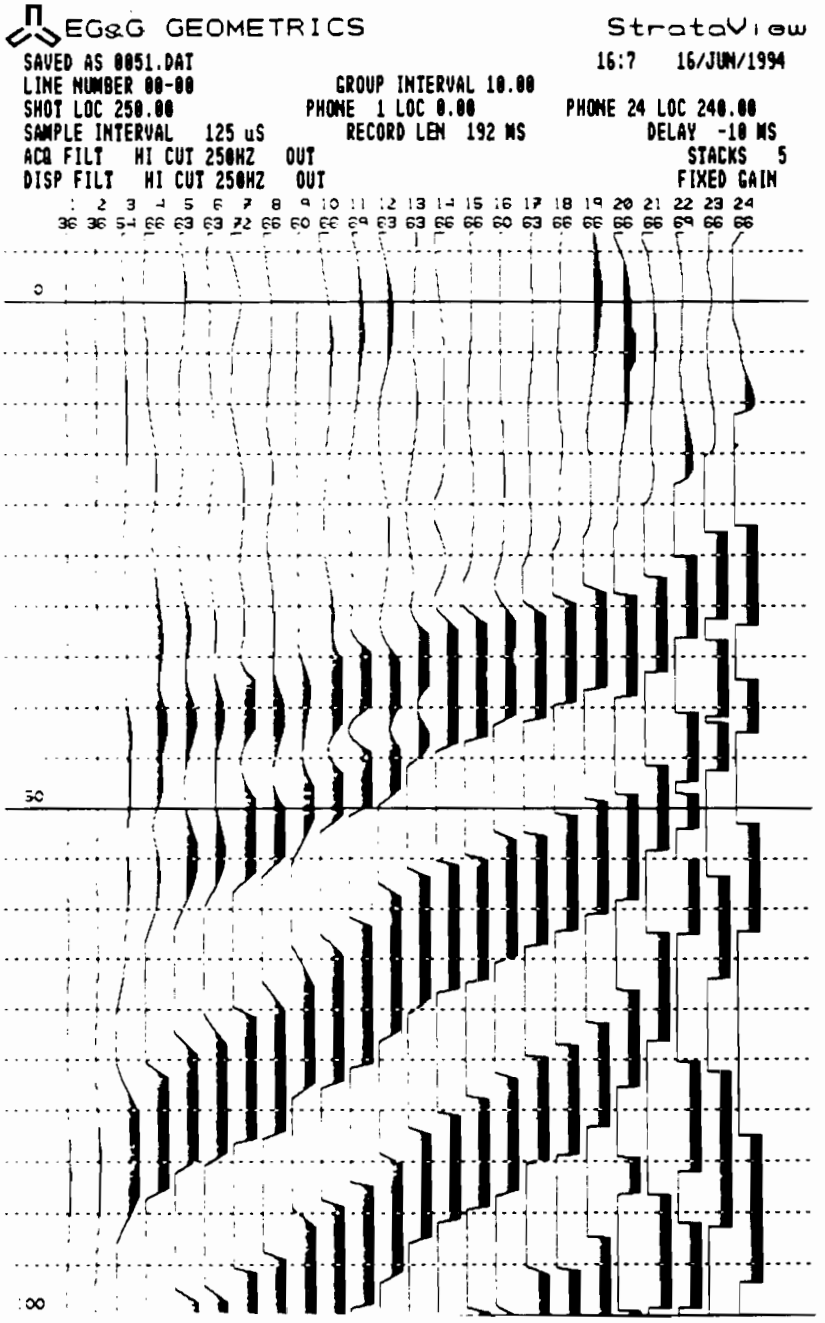
SAVED AS 0048.DAT 10:36 16/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC 250.00 PHONE 1 LOC 0.00 PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT STACKS 3
DISP FILT HI CUT 250HZ OUT FIXED GAIN



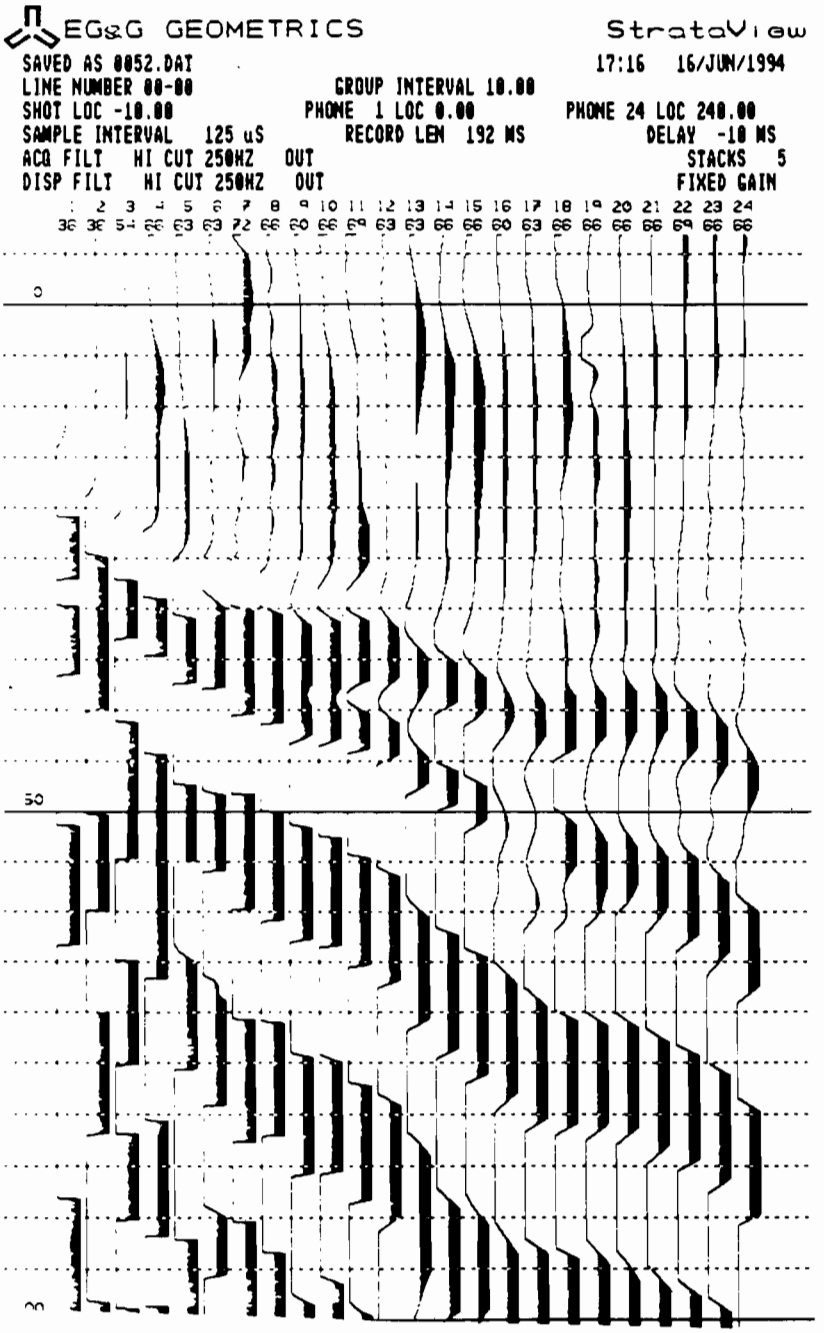
Shot


EG&G GEOMETRICS
StrataView
SAVED AS 0049.DAT
15:47 16/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC -10.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 4
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
36 36 54 66 63 63 72 66 60 66 69 63 63 66 66 60 63 66 66 66 66 69 66 66
0
50
100


EG&G GEOMETRICS
StrataView
SAVED AS 0050.DAT
15:55 16/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 120.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 2
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
36 36 54 66 63 63 72 66 60 66 69 63 63 66 66 60 63 66 66 66 66 69 66 66
0
50
100


EG&G GEOMETRICS
StrataView
SAVED AS 0051.DAT
16:7 16/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 250.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 5
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
36 36 54 66 63 63 72 66 60 66 69 63 63 66 66 60 63 66 66 66 66 69 66 66
0
50
100

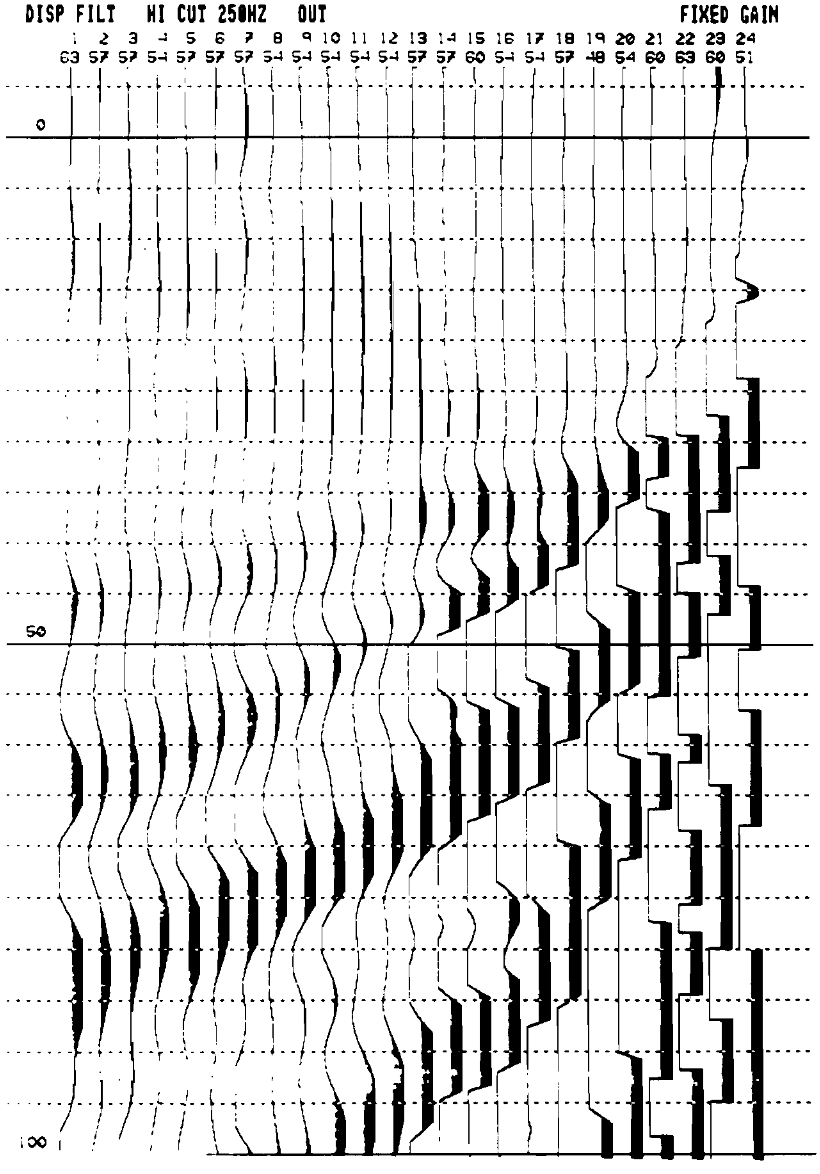
Forward Shot



[illegible] Shot
Line Y=300

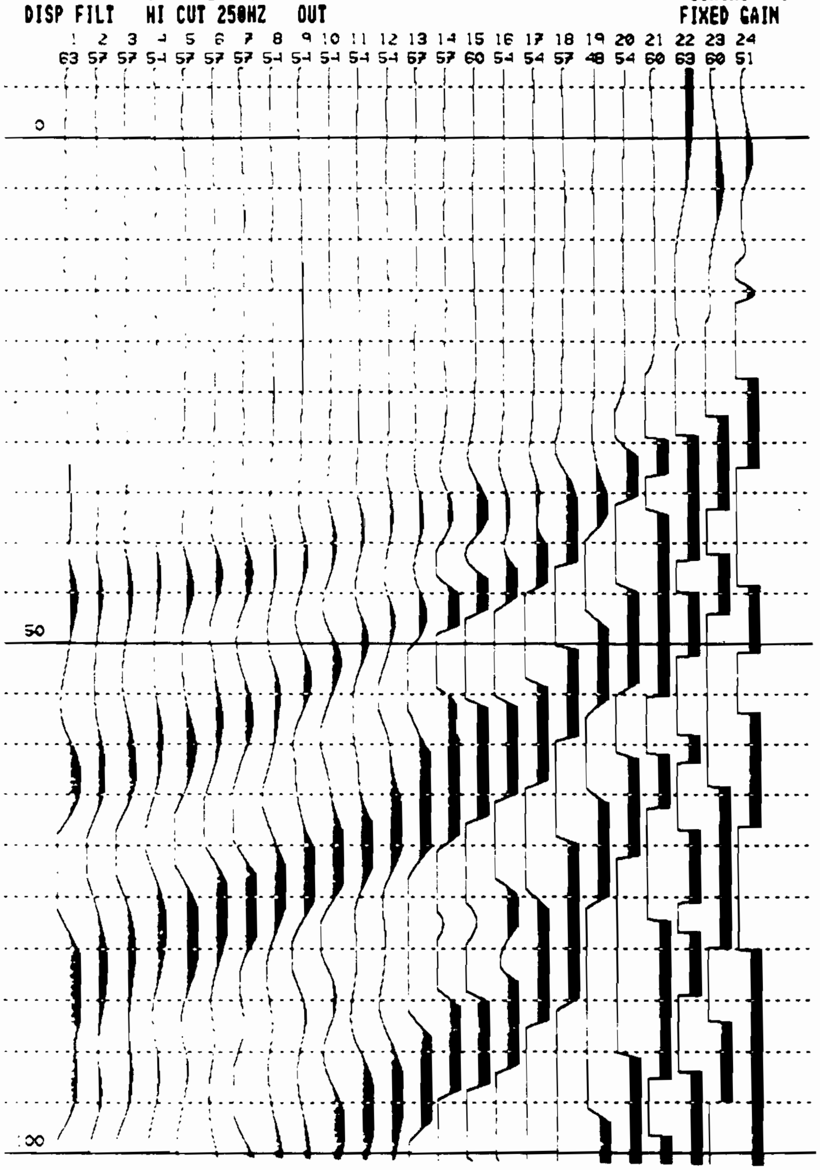
EG&G GEOMETRICS StrataView

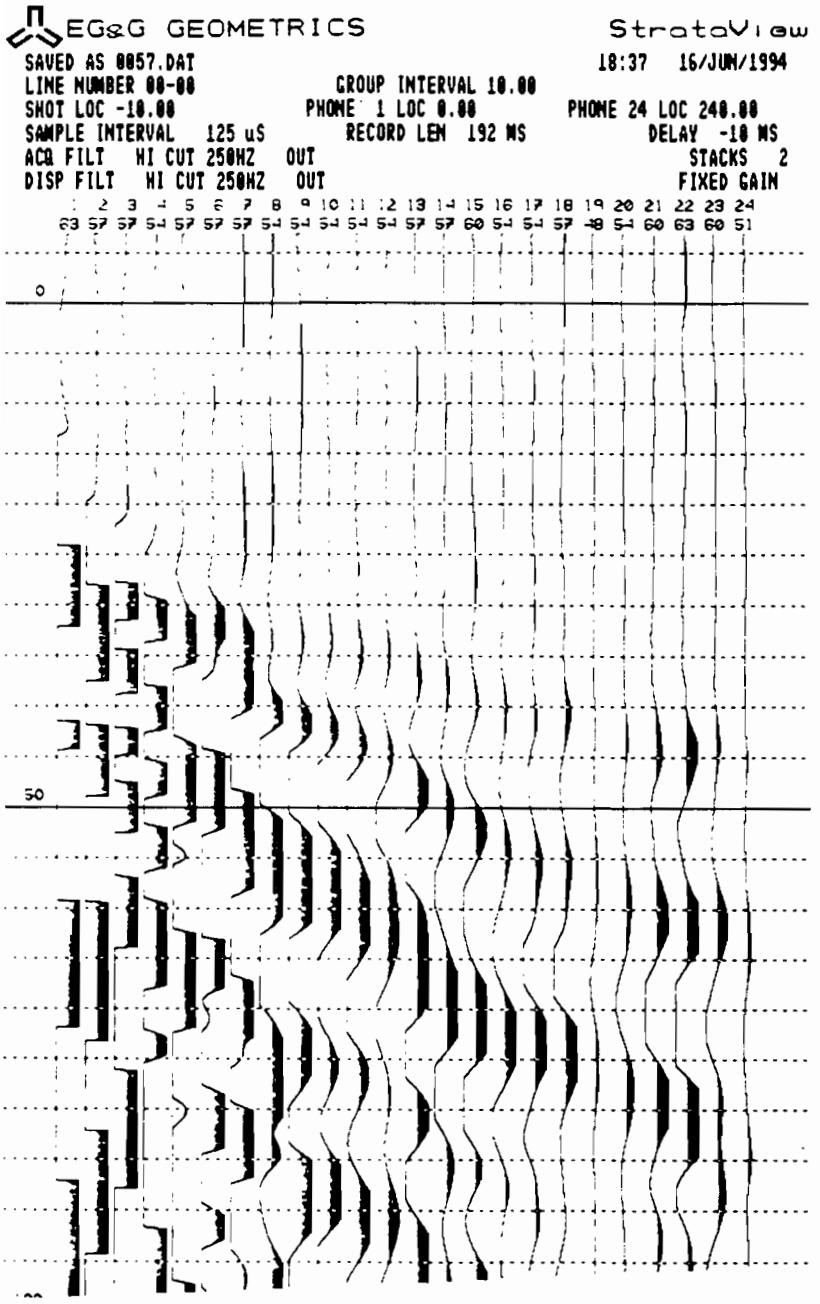
SAVED AS 0055.DAT 17:36 16/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC 250.00 PHONE 1 LOC 0.00 PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT STACKS 3
DISP FILT HI CUT 250HZ OUT FIXED GAIN



EG&G GEOMETRICS StrataView

SAVED AS 0056.DAT 17:38 16/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC 250.00 PHONE 1 LOC 0.00 PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT STACKS 3
DISP FILT HI CUT 250HZ OUT FIXED GAIN




EG&G GEOMETRICS
StrataView
SAVED AS 0057.DAT
18:37 16/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC -10.00
PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 2
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
63 57 57 54 57 57 57 54 54 54 54 54 57 57 60 54 54 57 48 54 60 63 60 51
0
50

Y-3

EG&G GEOMETRICS StrataView

SAVED AS 0059.DAT 18:40 16/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
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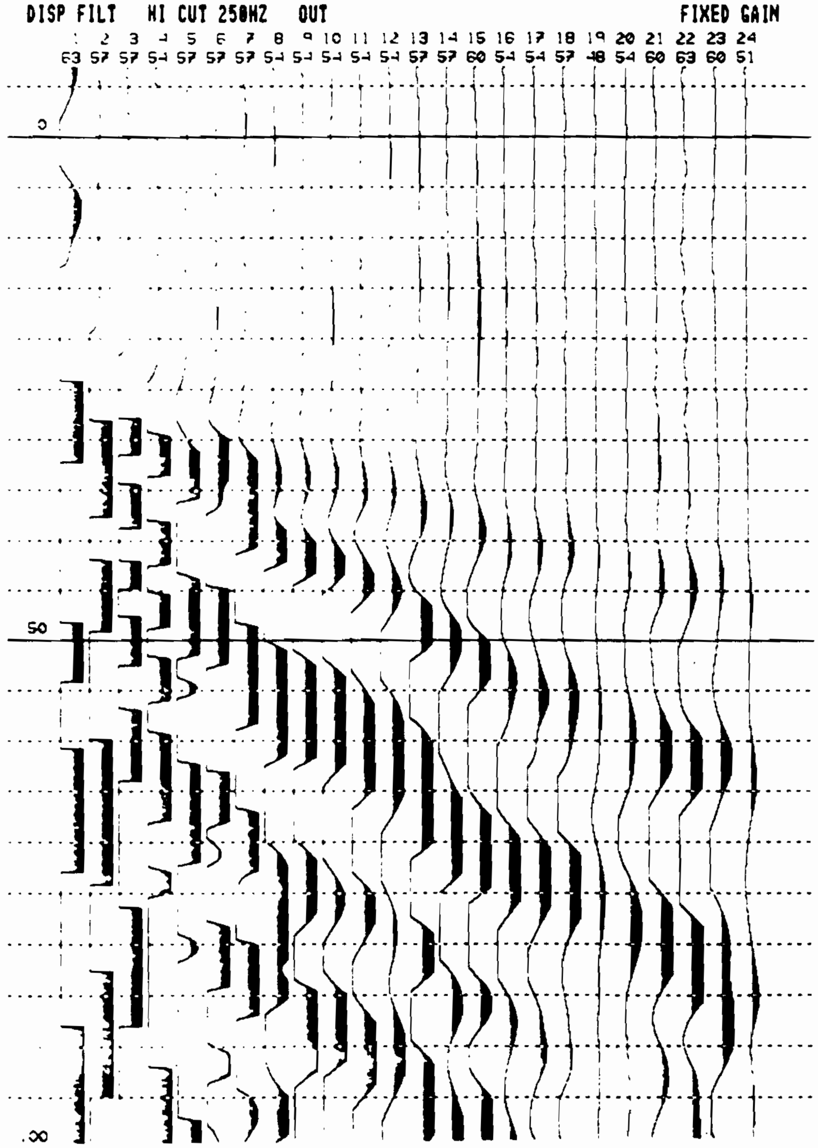

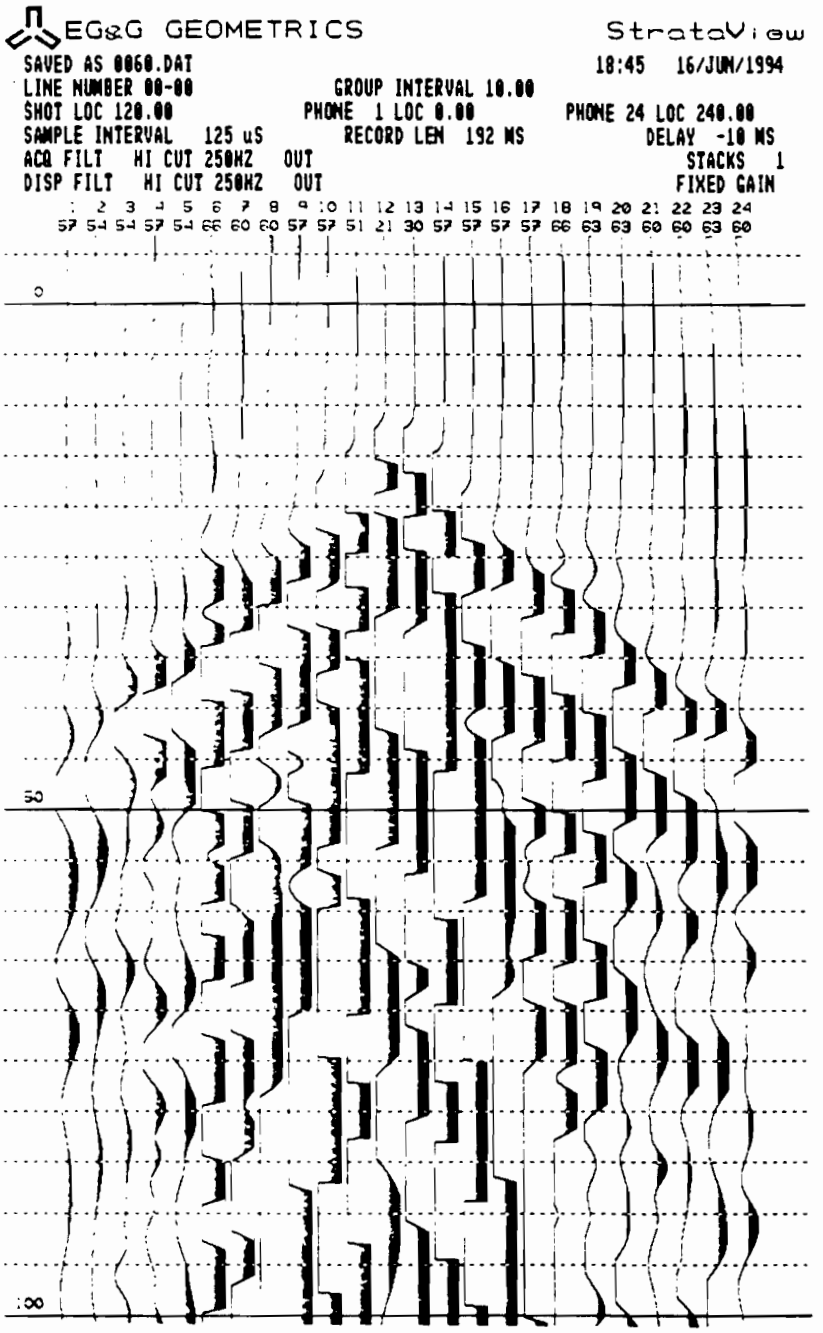
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18:45 16/JUN/1994
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PHONE 24 LOC 240.00
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RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 1
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
57 54 54 57 54 66 60 60 57 57 51 21 30 57 57 57 57 66 63 63 60 60 63 60
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50
100

x = 3.0 r
[illegible]

EG&G GEOMETRICS StrataView

SAVED AS 0067.DAT 7:28 17/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC 200.00 PHONE 1 LOC 0.00 PHONE 20 LOC 190.00
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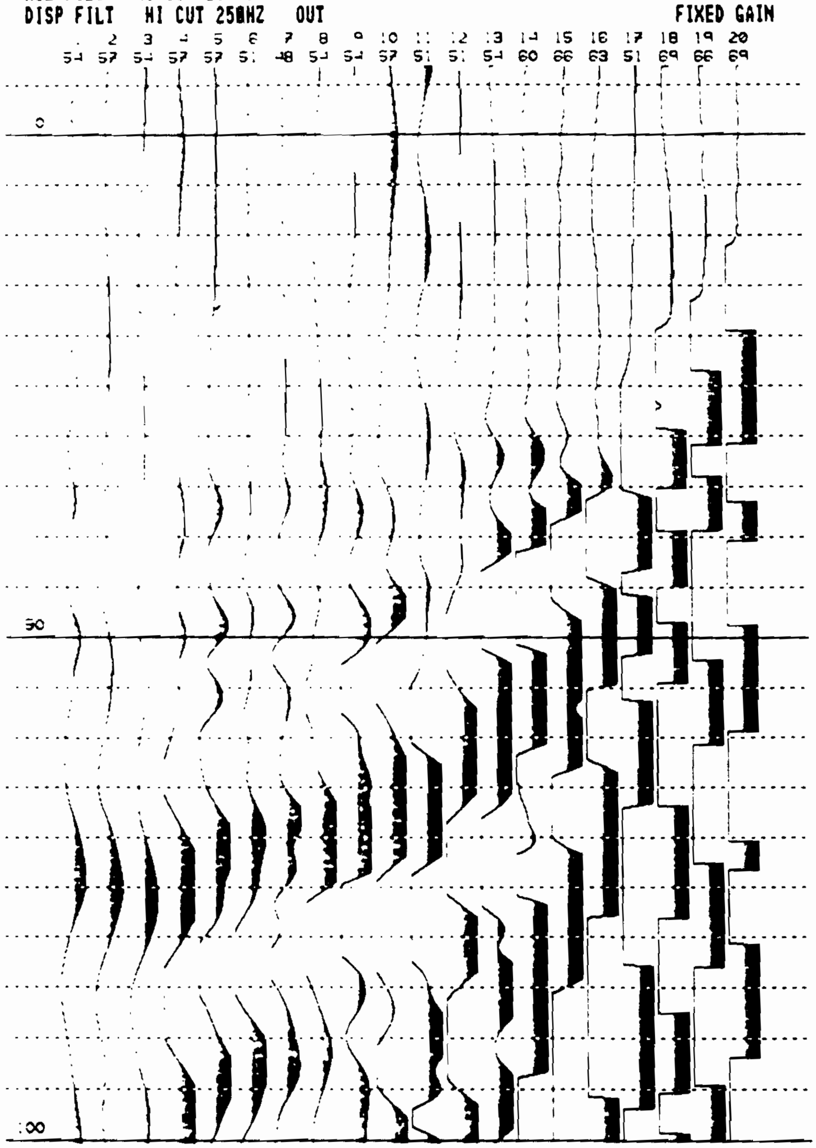
DISP FILT HI CUT 250HZ OUT FIXED GAIN



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EG&G GEOMETRICS   StrataView

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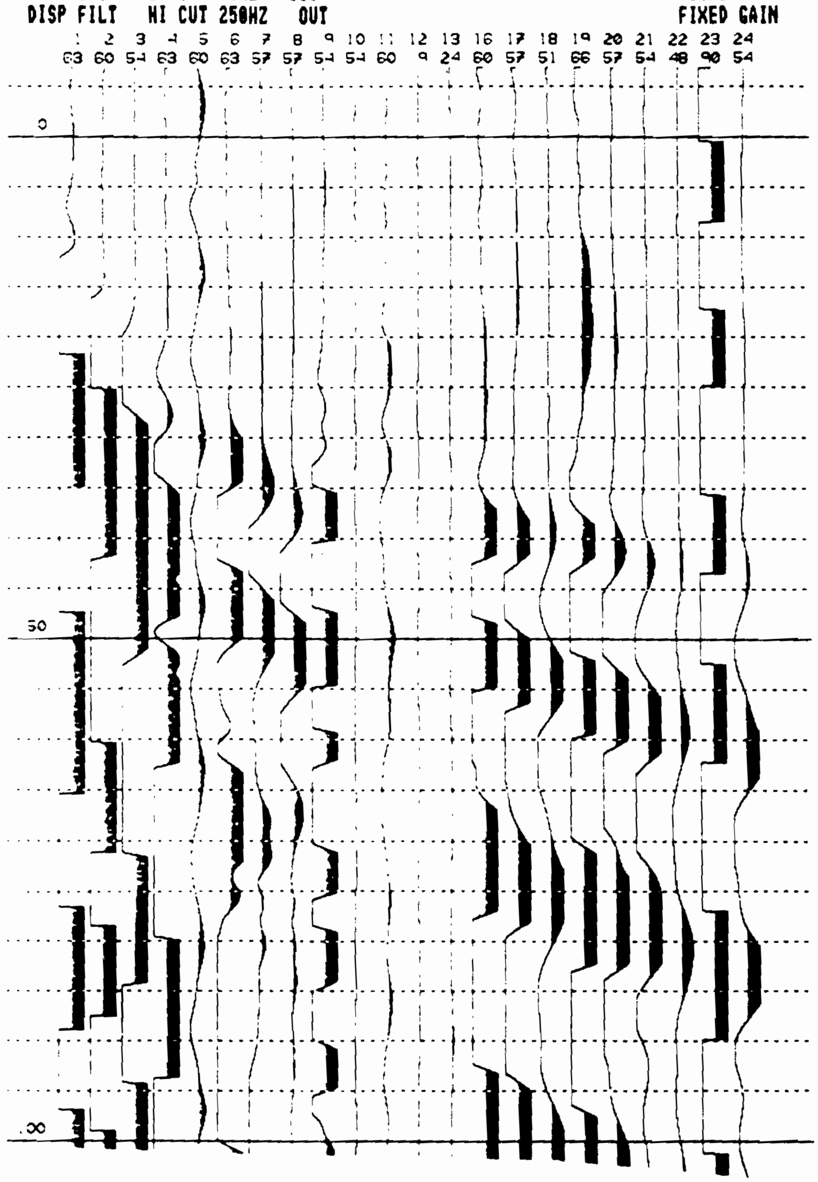
DISP FILT HI CUT 250HZ OUT   FIXED GAIN



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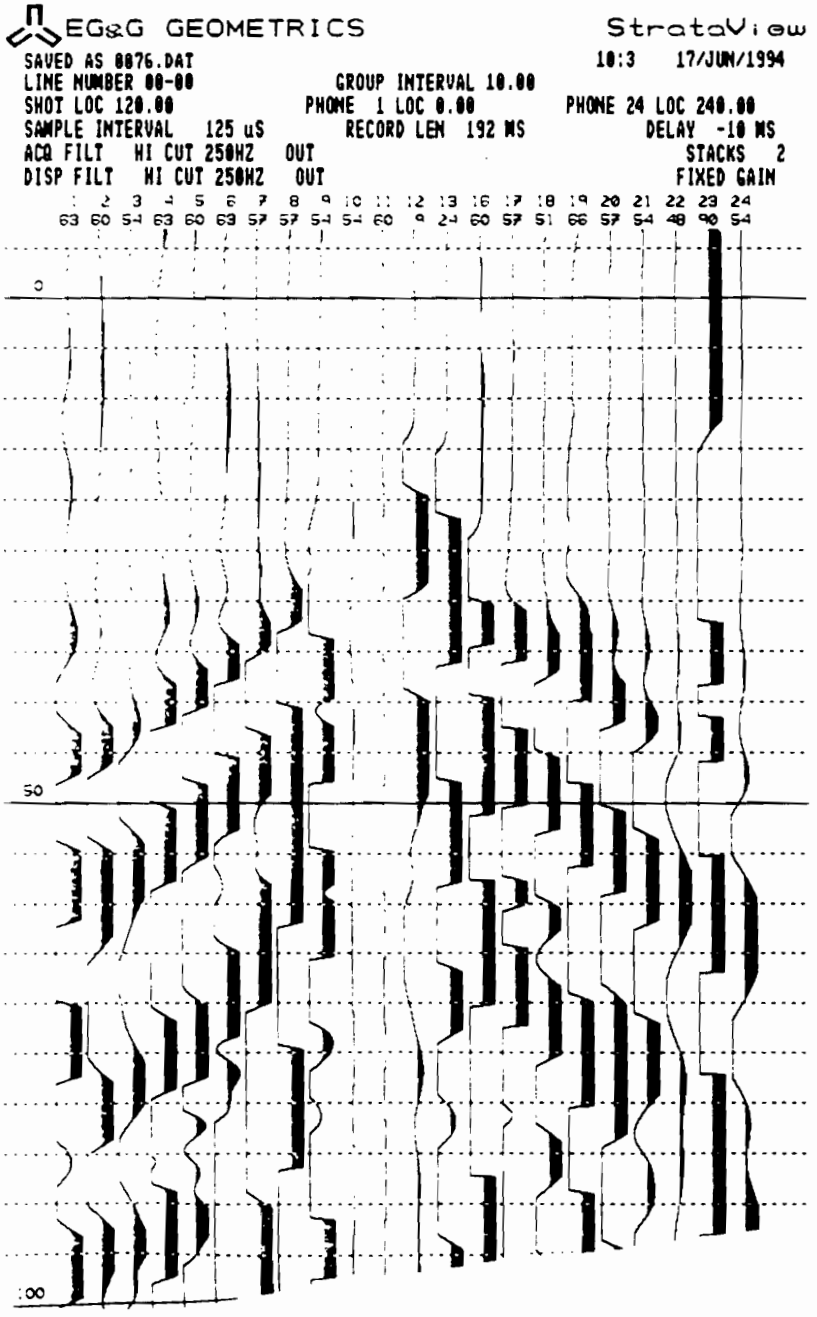
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PHONE 24 LOC 240.00
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RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 2
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
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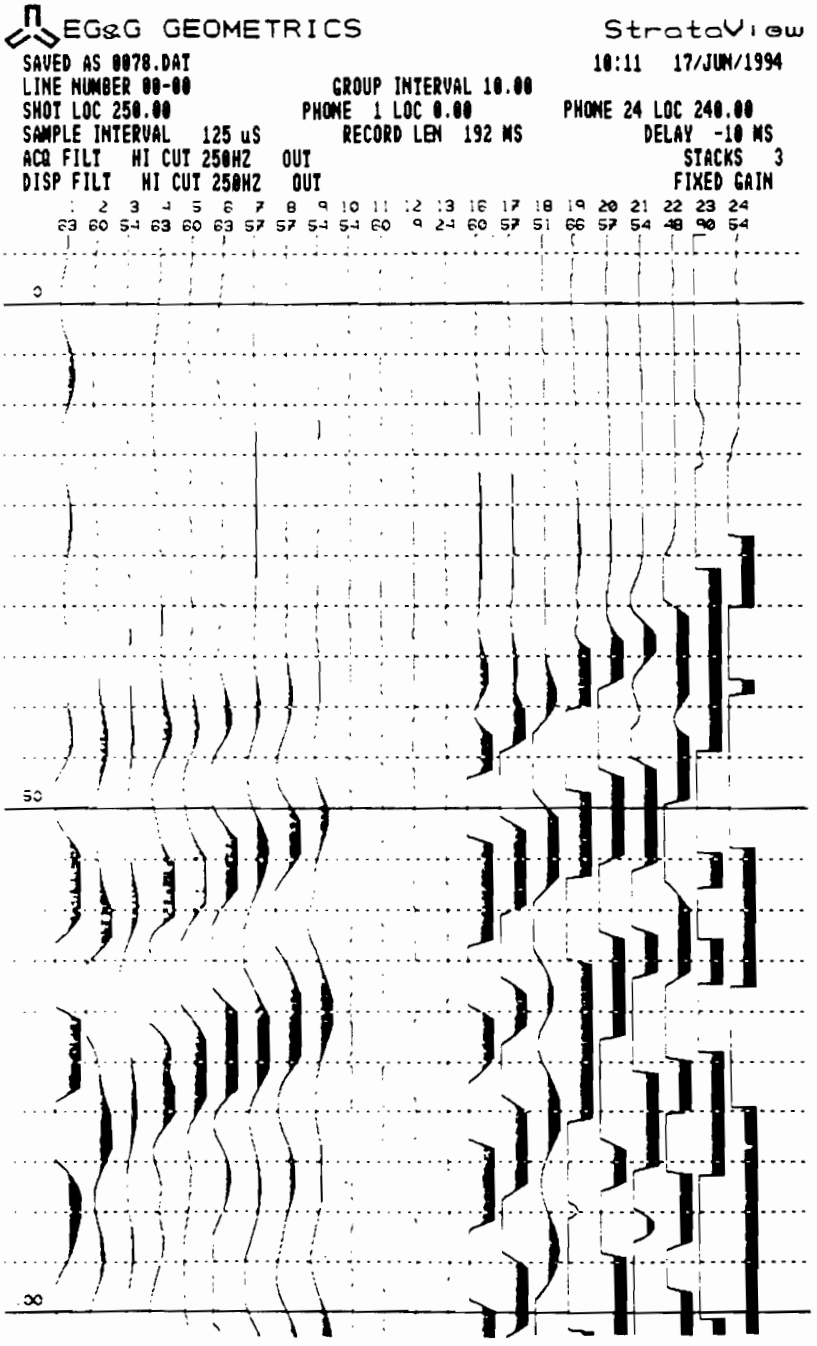
0
50
100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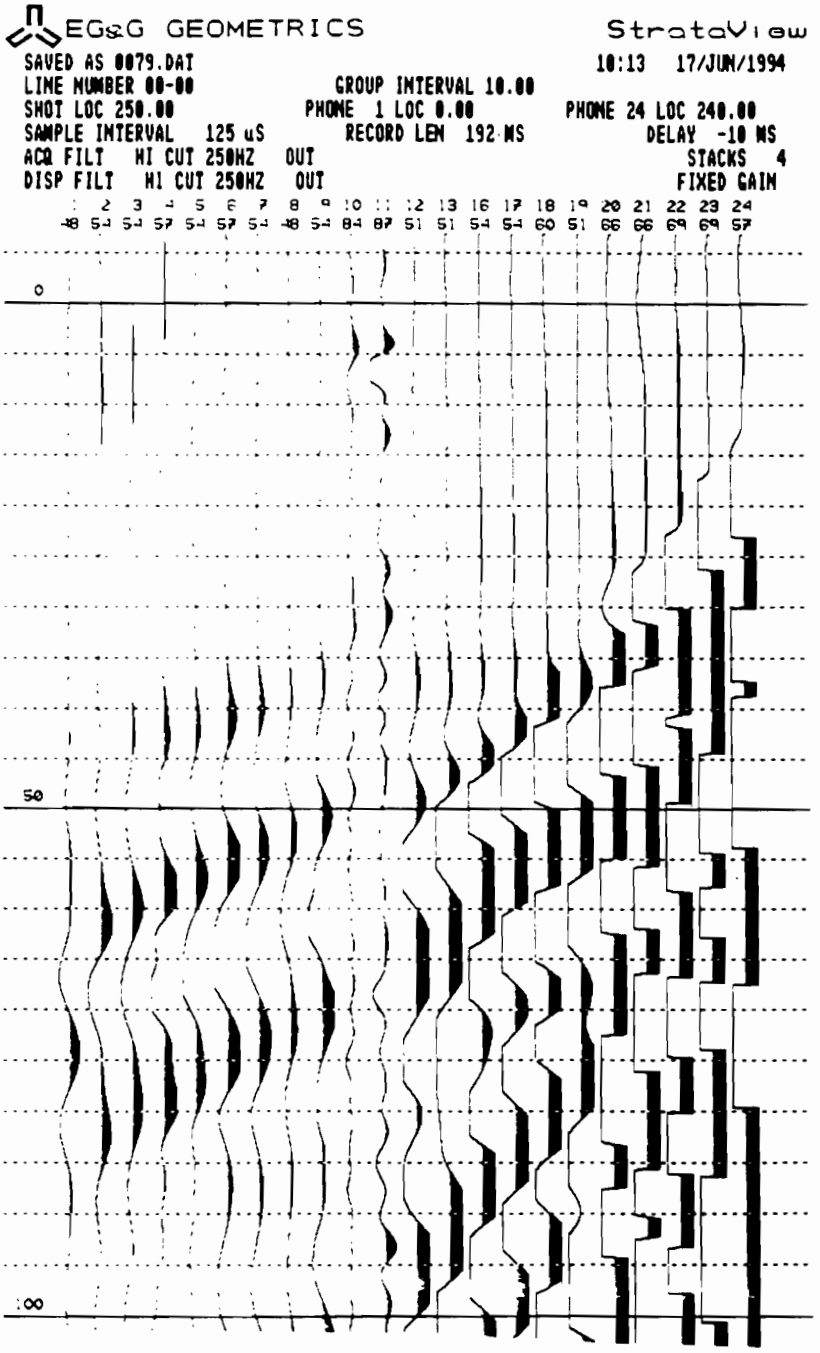
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 3
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 16 17 18 19 20 21 22 23 24
63 60 54 63 60 63 57 57 54 54 60 9 24 60 57 51 66 57 54 48 90 54
0
50
00

L-2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RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 4
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
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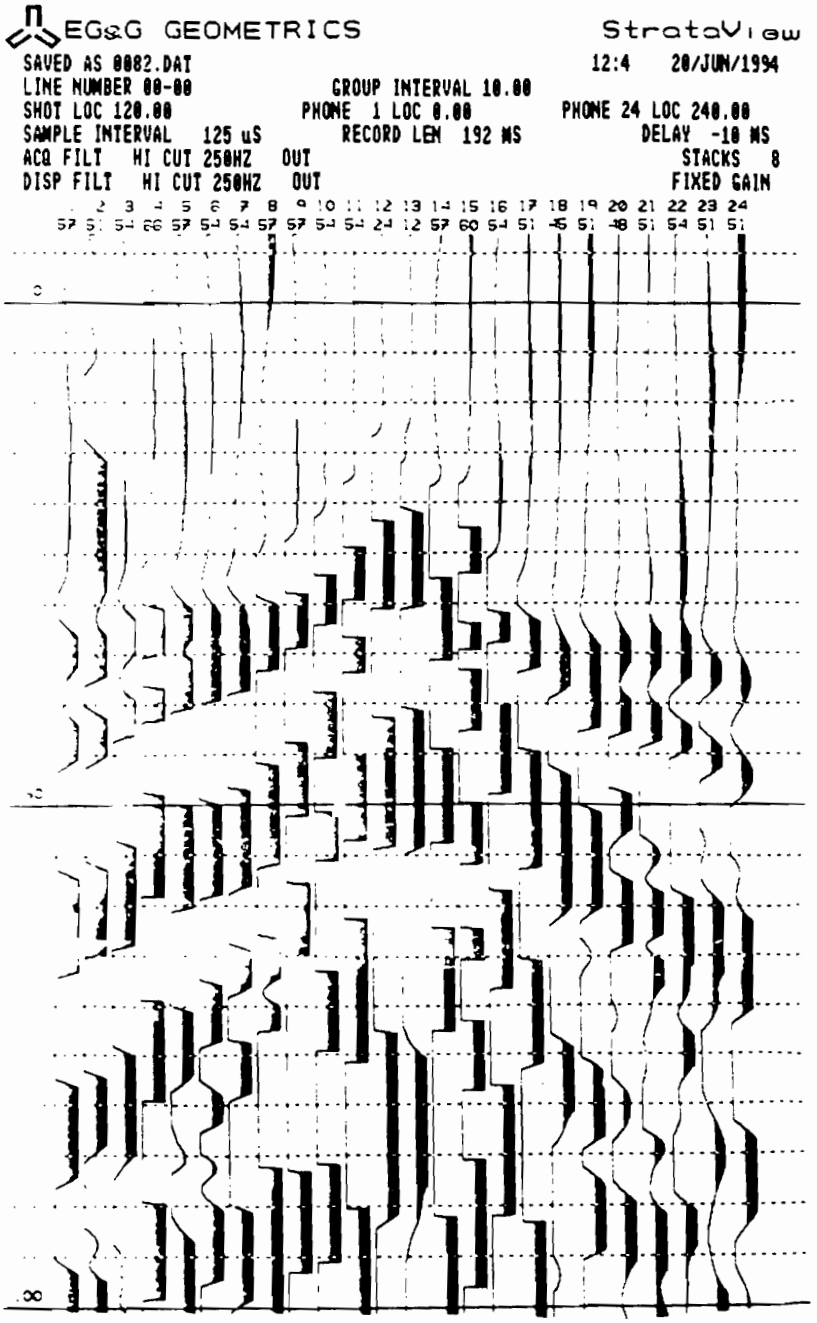
EG&G GEOMETRICS
StrataView
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12:4 20/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
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PHONE 1 LOC 0.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 8
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
57 51 54 66 57 54 54 57 57 54 54 24 12 57 60 54 51 45 51 48 51 54 51 51
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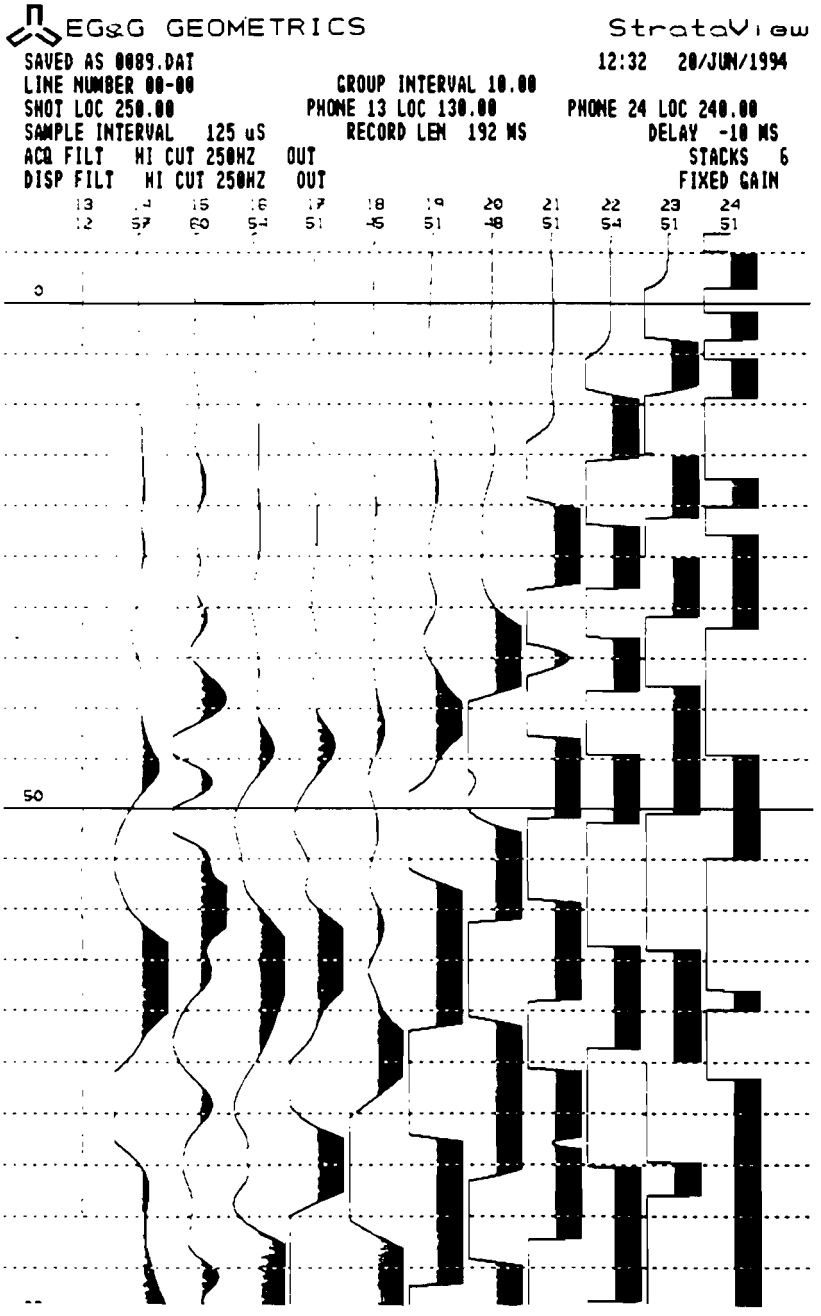
∞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12:32 20/JUN/1994
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GROUP INTERVAL 10.00
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PHONE 13 LOC 130.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 6
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
13 14 15 16 17 18 19 20 21 22 23 24
12 57 60 54 51 45 51 48 51 54 51 51
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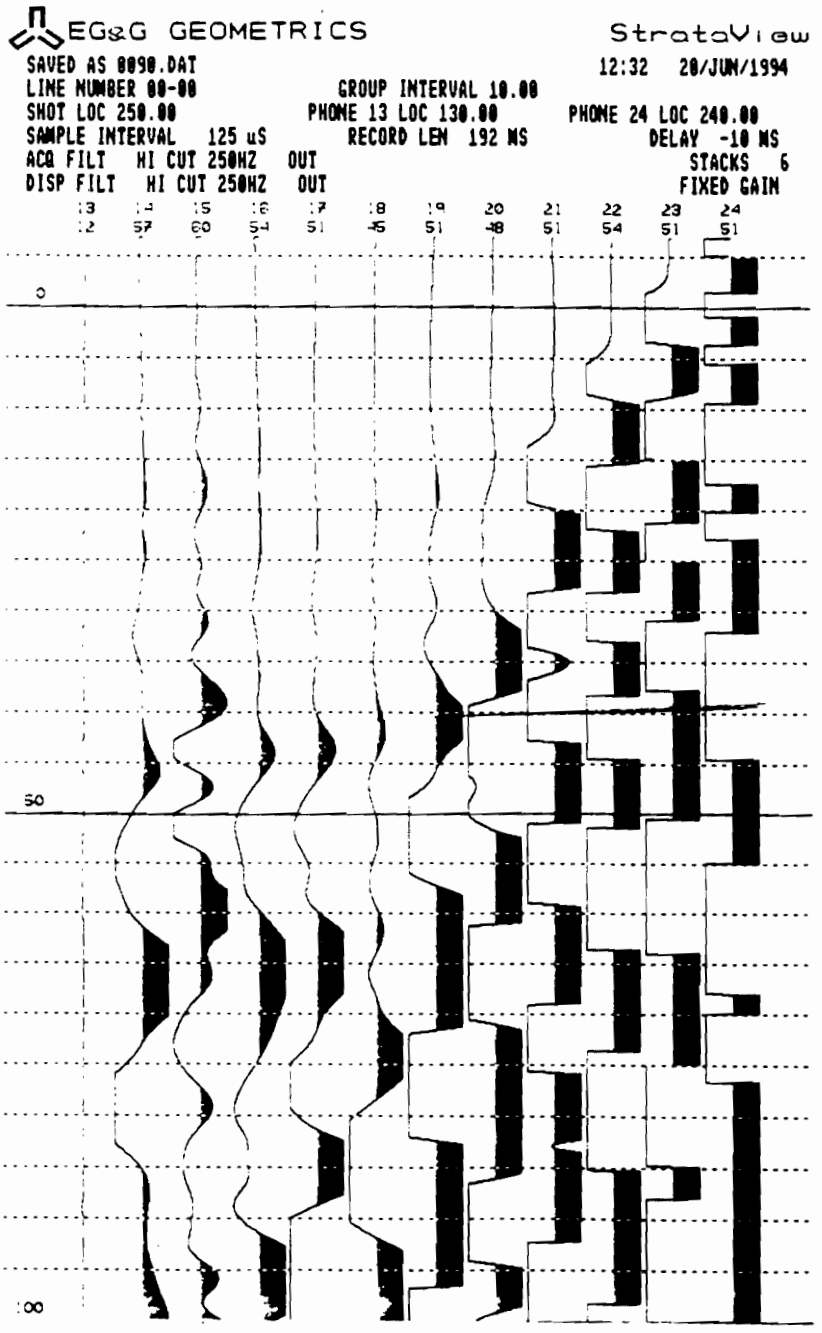
Line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SHOT LOC 250.00
PHONE 13 LOC 130.00
PHONE 24 LOC 240.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 6
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
13 14 15 16 17 18 19 20 21 22 23 24
12 57 60 54 51 45 51 48 51 54 51 51
0
50
100

EG&G GEOMETRICS StrataView

SAVED AS 0091.DAT 16:22 20/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC 120.00 PHONE 1 LOC 0.00 PHONE 12 LOC 110.00
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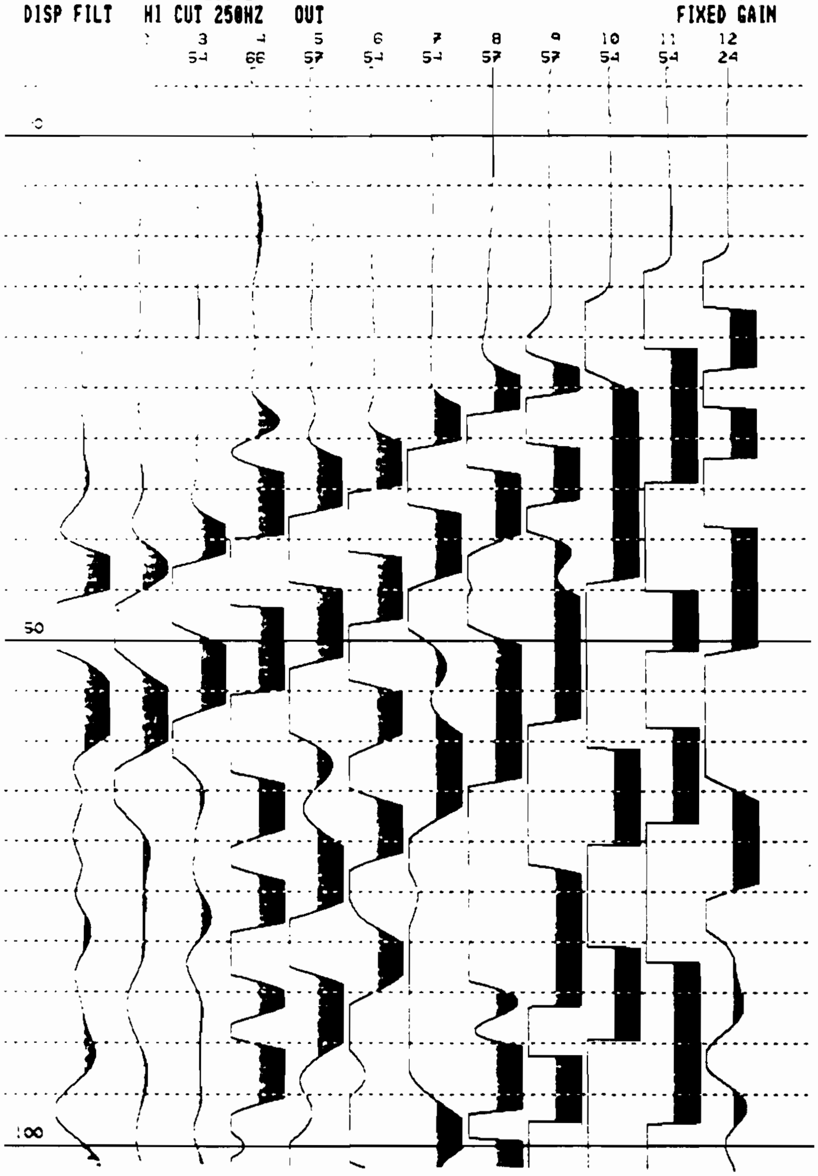
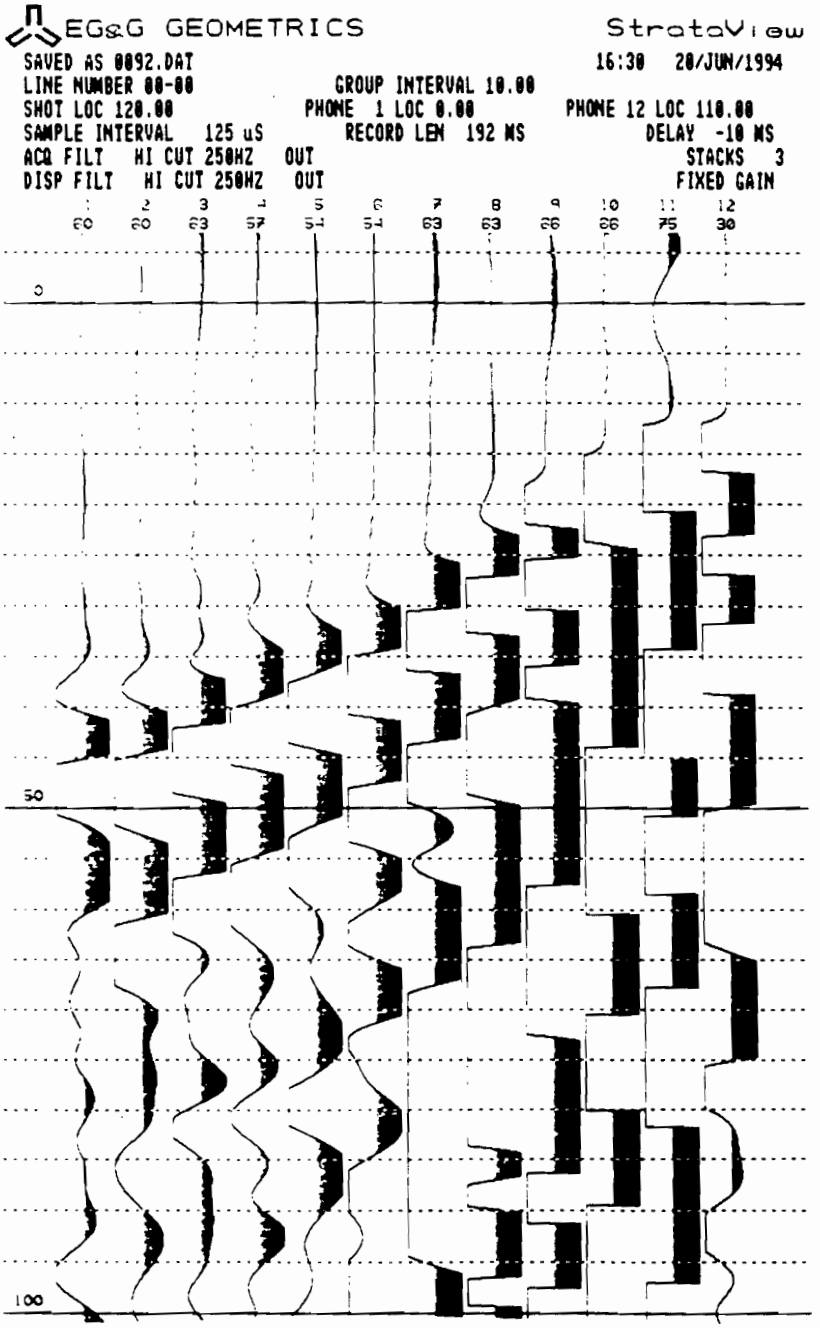
ACQ FILT HI CUT 250HZ OUT STACKS 4
DISP FILT HI CUT 250HZ OUT FIXED GAIN

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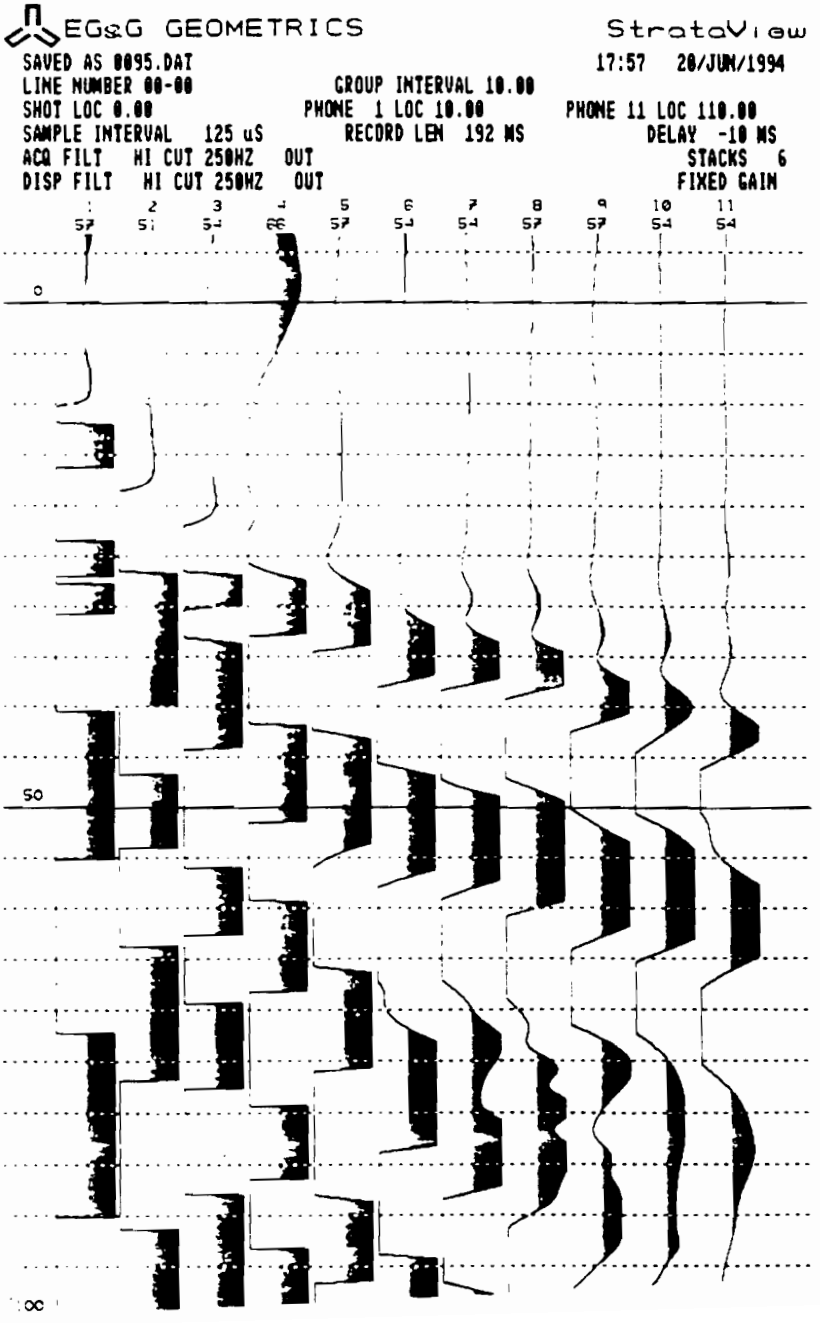
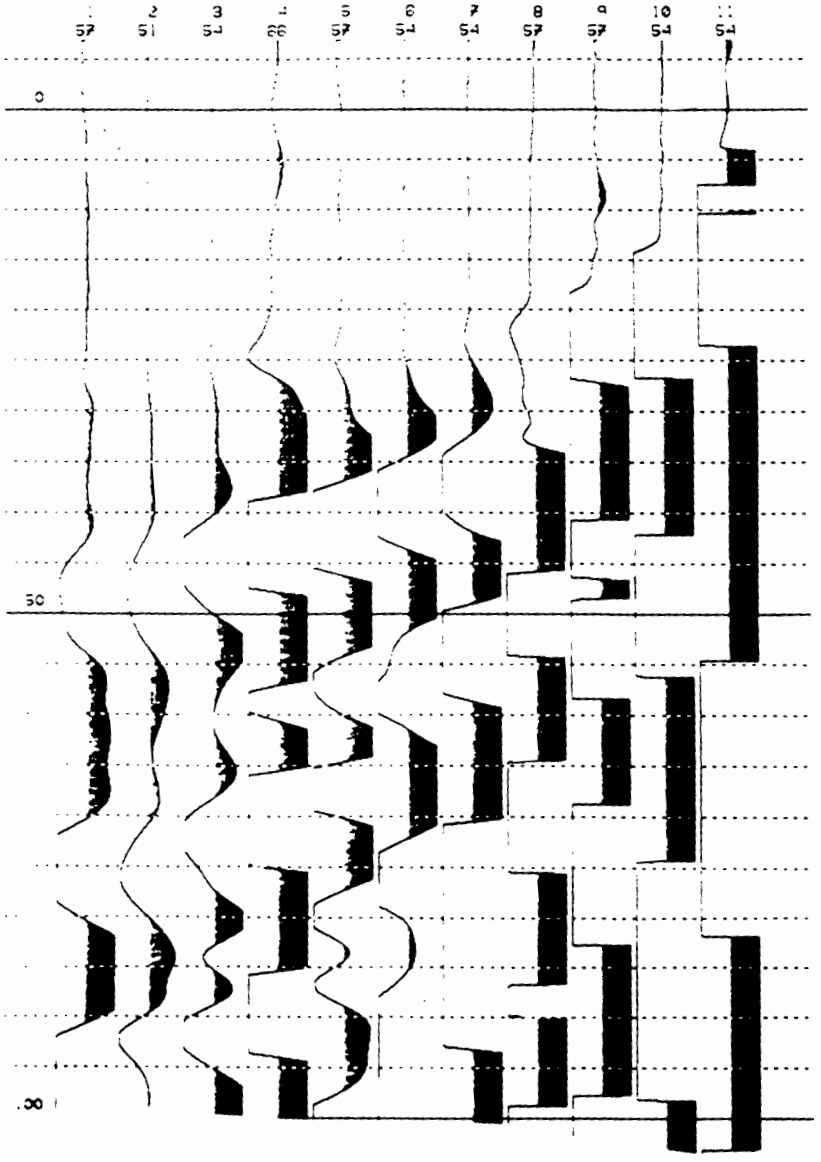
PHONE 1 LOC 0.00
PHONE 12 LOC 110.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 3
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11 12
60 60 63 57 54 54 63 63 66 66 75 30
0
50
100


EG&G GEOMETRICS
StrataView
SAVED AS 0095.DAT
17:57 20/JUN/1994
LINE NUMBER 00-00
GROUP INTERVAL 10.00
SHOT LOC 0.00
PHONE 1 LOC 10.00
PHONE 11 LOC 110.00
SAMPLE INTERVAL 125 uS
RECORD LEN 192 MS
DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT
STACKS 6
DISP FILT HI CUT 250HZ OUT
FIXED GAIN
1 2 3 4 5 6 7 8 9 10 11
0
50
100

Reverse Shot
L... X = 5 015

EG&G GEOMETRICS StrataView

SAVED AS 0094.DAT 17:8 20/JUN/1994
LINE NUMBER 00-00 GROUP INTERVAL 10.00
SHOT LOC 103.00 PHONE 1 LOC 0.00 PHONE 11 LOC 100.00
SAMPLE INTERVAL 125 uS RECORD LEN 192 MS DELAY -10 MS
ACQ FILT HI CUT 250HZ OUT STACKS 5
DISP FILT HI CUT 250HZ OUT FIXED GAIN

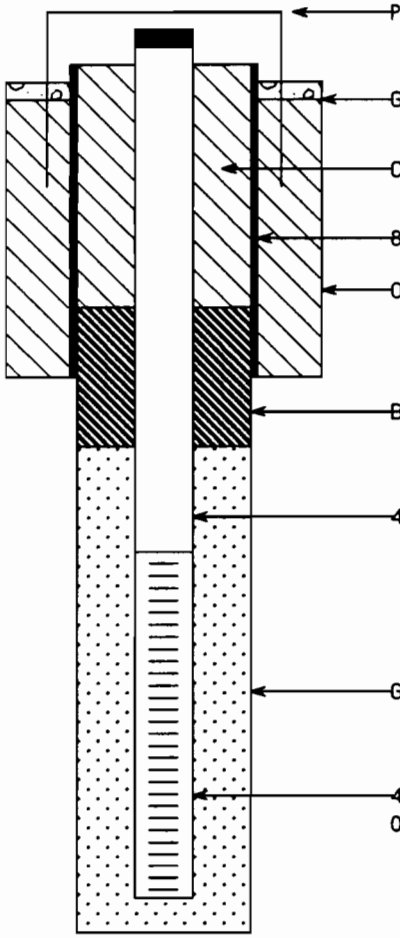


APPENDIX C

MONITORING WELL DIAGRAMS

Well Name MW-1S	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method 12" Hollow Stem Auger & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 28.0 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 594.8 ft mean sea level
Date Installed 7/20/95	Top of Casing Elevation 597.63 ft mean sea level
Geologist Michael Valentino	Depth to Water 16.85 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	+1.0 - 11.0'
8" DIAMETER STEEL CASING	+1.0' - 13.5'
OUTER CEMENT BENTONITE GROUT	0.0' - 13.5'
BENTONITE SEAL	14.4' - 11.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0' - 18.0'
GRAVEL PACK	14.4' - 30.0'
4" DIAMETER STAINLESS STEEL 0.010 SLOT SCREEN	18.0' - 28.0'

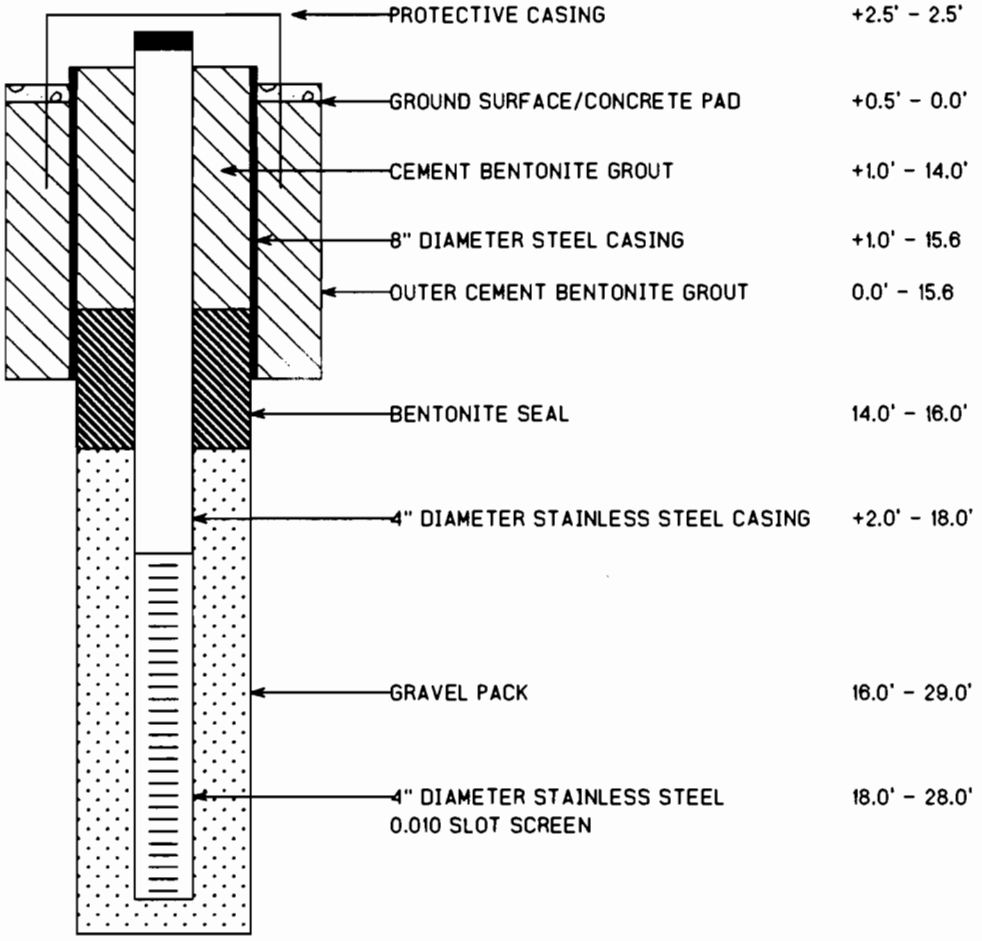
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
SHALLOW MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-2S	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method 12" Hollow Stem Auger & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 28.0 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 594.1 ft mean sea level
Date Installed 7/31/95	Top of Casing Elevation 596.44 ft mean sea level
Geologist Brain Mende	Depth to Water 16.0 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	+1.0' - 14.0'
8" DIAMETER STEEL CASING	+1.0' - 15.6
OUTER CEMENT BENTONITE GROUT	0.0' - 15.6
BENTONITE SEAL	14.0' - 16.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0' - 18.0'
GRAVEL PACK	16.0' - 29.0'
4" DIAMETER STAINLESS STEEL 0.010 SLOT SCREEN	18.0' - 28.0'

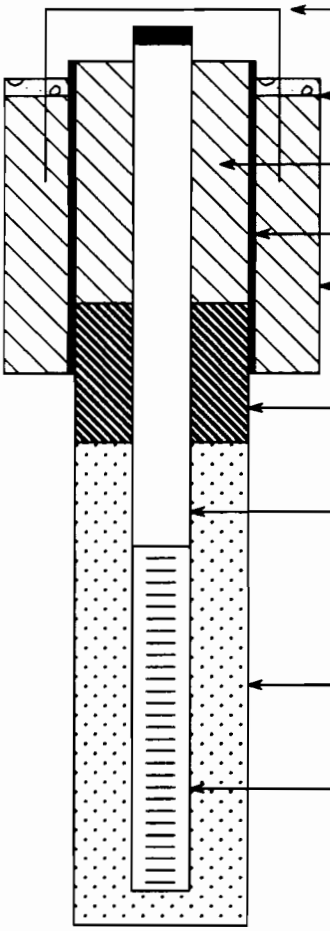
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
SHALLOW MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-3S	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method 12" Hollow Stem Auger & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 28.0 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 594.3 ft mean sea level
Date Installed 8/3/95	Top of Casing Elevation 596.93 ft mean sea level
Geologist Michael Valentino	Depth to Water 16.5 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	+1.0' - 13.5'
8" DIAMETER STEEL CASING	+1.0' - 16.5'
OUTER CEMENT BENTONITE GROUT	0.0' - 16.5'
BENTONITE SEAL	16.0' - 13.5'
4" DIAMETER STAINLESS STEEL CASING	+1.0' - 18.0'
GRAVEL PACK	16.0' - 29.0'
4" DIAMETER STAINLESS STEEL 0.010 SLOT SCREEN	18.0' - 28.0'

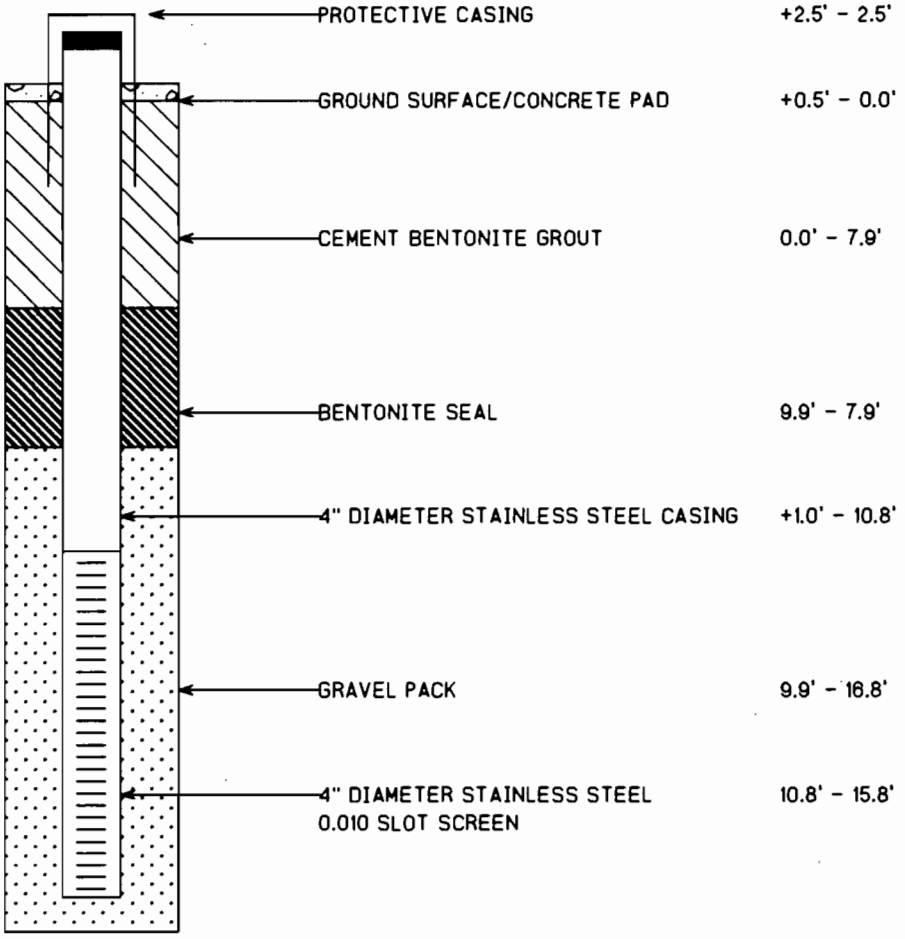
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
SHALLOW MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-30	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method 12" Hollow Stem Auger
Project Forest Glen RI/FS	Total Depth 15.8 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 593.8 ft mean sea level
Date Installed 8/3/95	Top of Casing Elevation 595.91 ft mean sea level
Geologist Michael Valentino	Depth to Water 14.15 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	0.0' - 7.9'
BENTONITE SEAL	9.9' - 7.9'
4" DIAMETER STAINLESS STEEL CASING	+1.0' - 10.8'
GRAVEL PACK	9.9' - 16.8'
4" DIAMETER STAINLESS STEEL 0.010 SLOT SCREEN	10.8' - 15.8'

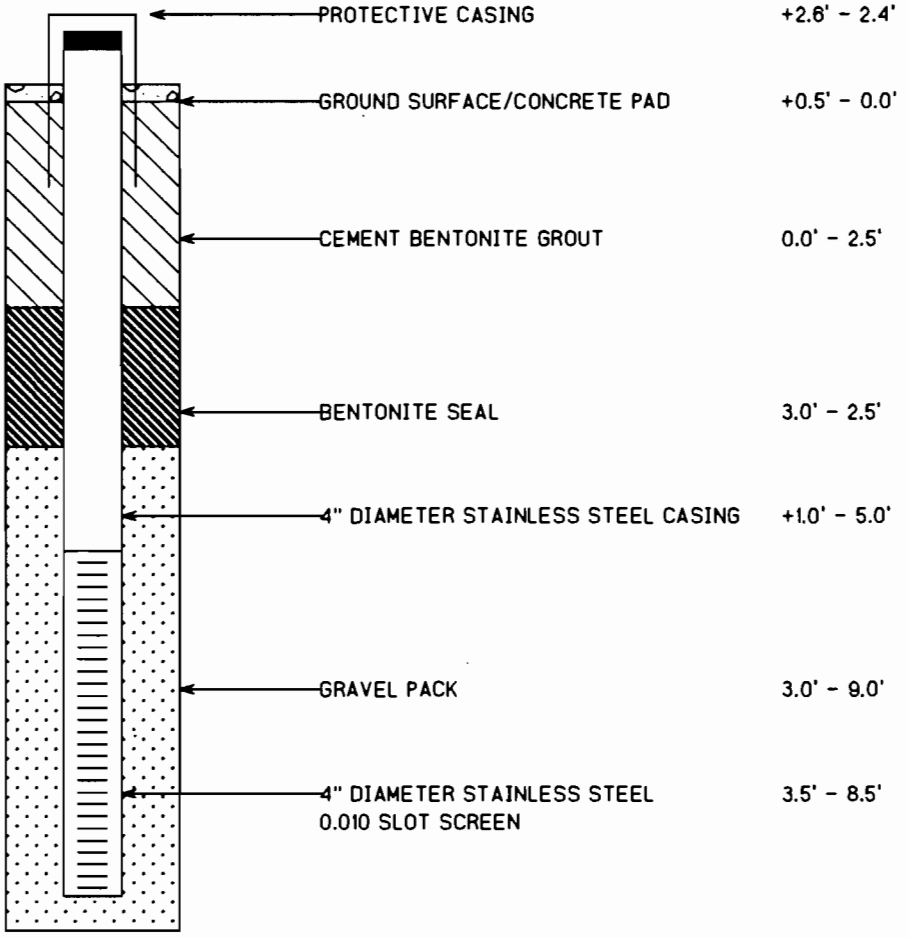
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-3P	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method 12" Hollow Stem Auger
Project Forest Glen RI/FS	Total Depth 8.5 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 594.2 ft mean sea level
Date Installed 8/1/95	Top of Casing Elevation 595.99 ft mean sea level
Geologist Michael Valentino	Depth to Water 7.53 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.6' - 2.4'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	0.0' - 2.5'
BENTONITE SEAL	3.0' - 2.5'
4" DIAMETER STAINLESS STEEL CASING	+1.0' - 5.0'
GRAVEL PACK	3.0' - 9.0'
4" DIAMETER STAINLESS STEEL 0.010 SLOT SCREEN	3.5' - 8.5'

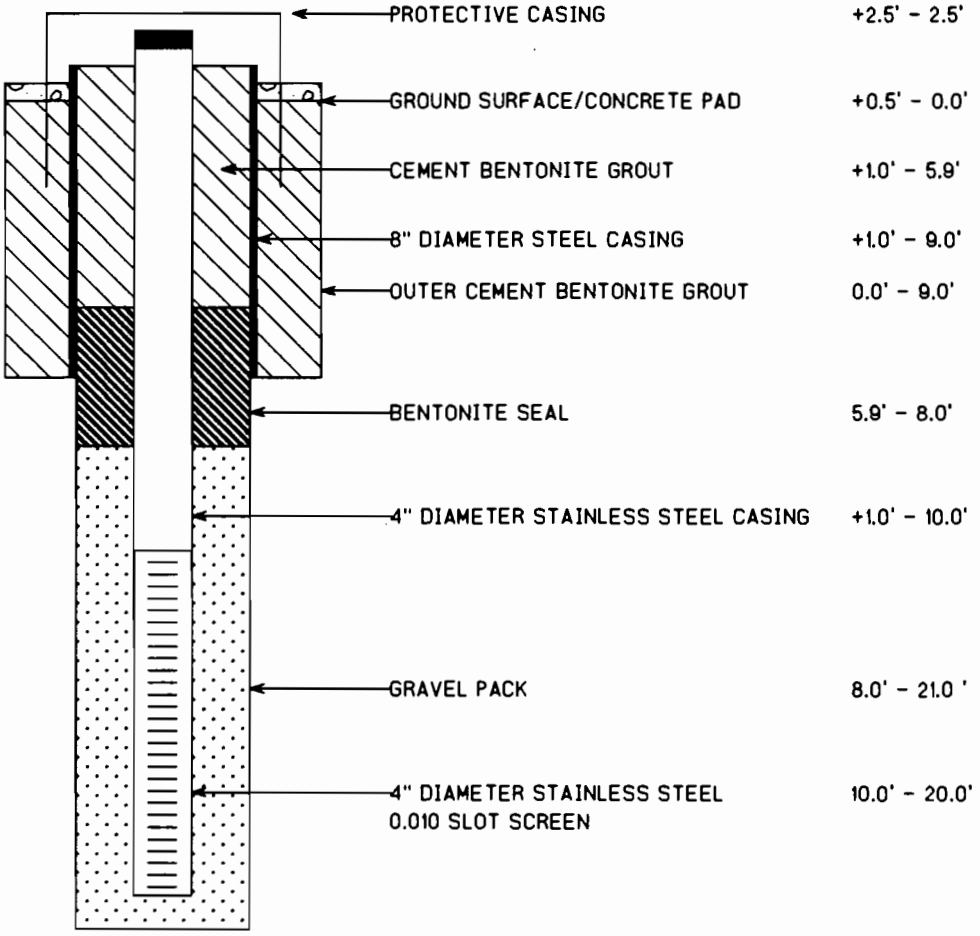
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
PERCHED WATER MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-4S	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method 12" Hollow Stem Auger & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 20.0 ft below ground surface
Location NIAGARA FALLS, N.Y.	Surface Elevation 592.6 ft mean sea level
Date Installed 7/11/95	Top of Casing Elevation 594.6 ft mean sea level
Geologist Michael Valentino	Depth to Water 13.92 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	+1.0' - 5.9'
8" DIAMETER STEEL CASING	+1.0' - 9.0'
OUTER CEMENT BENTONITE GROUT	0.0' - 9.0'
BENTONITE SEAL	5.9' - 8.0'
4" DIAMETER STAINLESS STEEL CASING	+1.0' - 10.0'
GRAVEL PACK	8.0' - 21.0 '
4" DIAMETER STAINLESS STEEL 0.010 SLOT SCREEN	10.0' - 20.0'

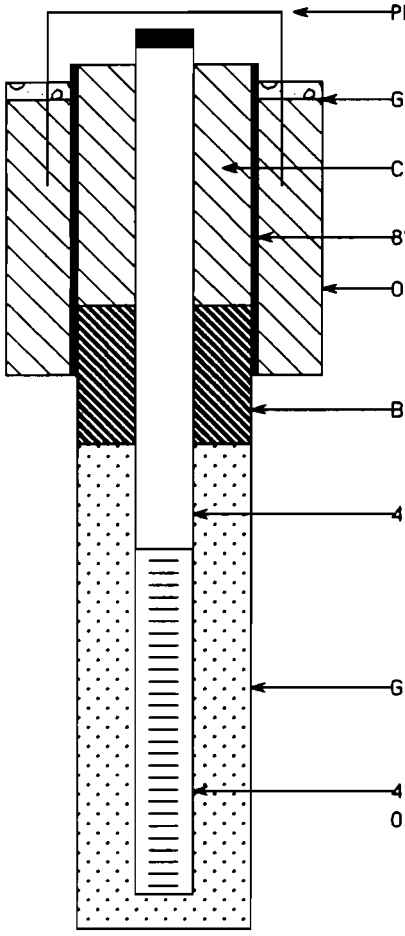
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
SHALLOW MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-5S	Drilling Company SJB,Inc.
Job Number 7720-053	Drill Method 12" Hollow Stem Auger & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 26.0 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 591.2 ft mean sea level
Date Installed 7/26/95	Top of Casing Elevation 593.75 ft mean sea level
Geologist Michael Valentino	Depth to Water 13.85 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	+1.0' - 12.0'
8" DIAMETER STEEL CASING	+1.0' - 15.5
OUTER CEMENT BENTONITE GROUT	0.0' - 15.5
BENTONITE SEAL	12.0' - 14.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0' - 16.0'
GRAVEL PACK	14.0' - 27.0'
4" DIAMETER STAINLESS STEEL 0.010 SLOT SCREEN	16.0' - 26.0'

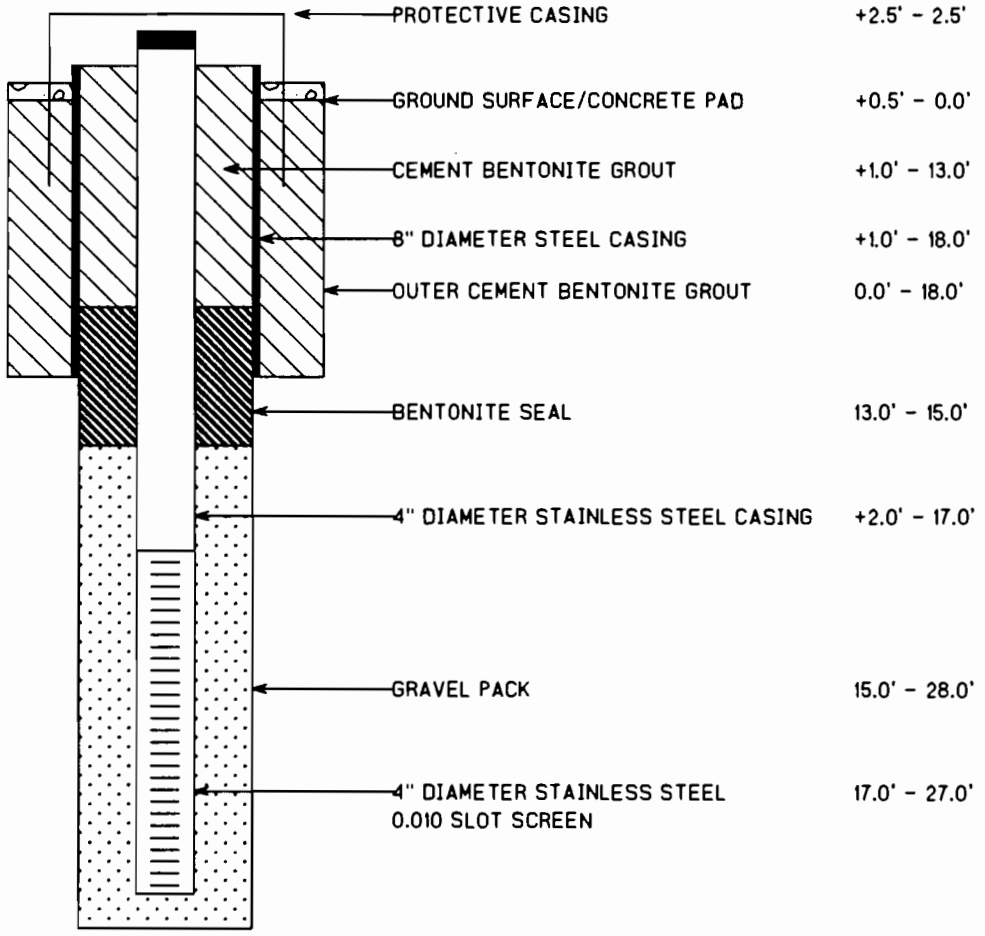
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
SHALLOW MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-6S	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method 12" Hollow Stem Auger & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 27.0 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 594.2 ft mean sea level
Date Installed 7/21/95	Top of Casing Elevation 596.46 ft mean sea level
Geologist Michael Valentino	Depth to Water 15.63 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	+1.0' - 13.0'
8" DIAMETER STEEL CASING	+1.0' - 18.0'
OUTER CEMENT BENTONITE GROUT	0.0' - 18.0'
BENTONITE SEAL	13.0' - 15.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0' - 17.0'
GRAVEL PACK	15.0' - 28.0'
4" DIAMETER STAINLESS STEEL 0.010 SLOT SCREEN	17.0' - 27.0'

NOT TO SCALE

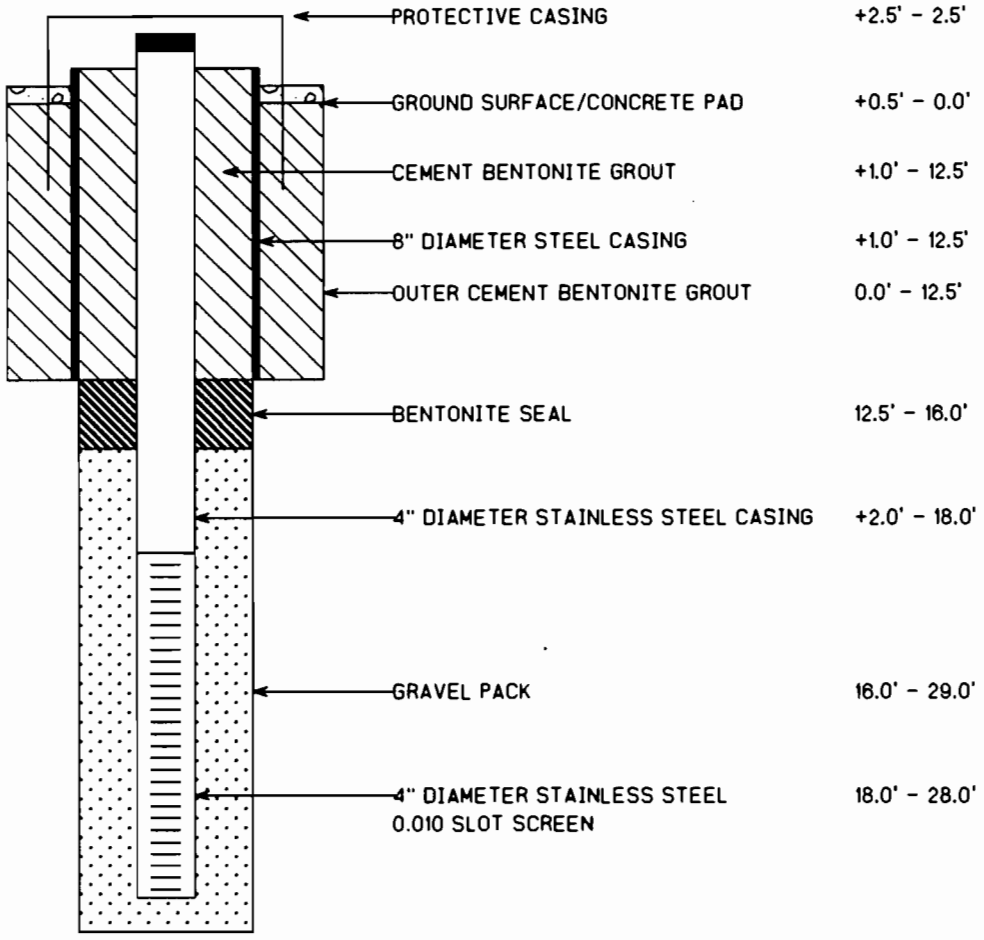
CDM FEDERAL PROGRAMS CORPORATION
SHALLOW MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-7S
Job Number 7720-053
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Installed 8/9/95
Geologist Michael Valentino

Drilling Company SJB Inc.
Drill Method 12" Hollow Stem Auger & 8" Air Rotary
Total Depth 28.0 ft below ground surface
Surface Elevation 593.3 ft mean sea level
Top of Casing Elevation 595.76 ft mean sea level
Depth to Water 9.7 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	+1.0' - 12.5'
8" DIAMETER STEEL CASING	+1.0' - 12.5'
OUTER CEMENT BENTONITE GROUT	0.0' - 12.5'
BENTONITE SEAL	12.5' - 16.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0' - 18.0'
GRAVEL PACK	16.0' - 29.0'
4" DIAMETER STAINLESS STEEL 0.010 SLOT SCREEN	18.0' - 28.0'

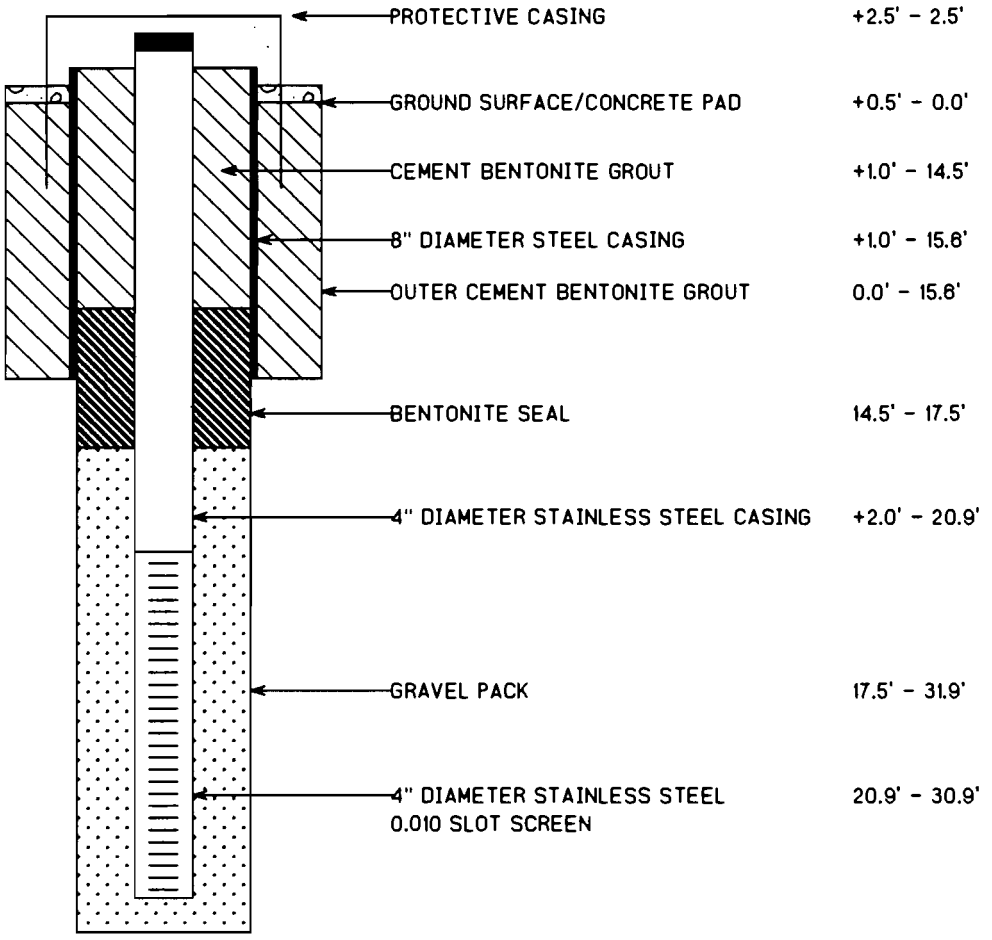
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
SHALLOW MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-8S	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method 12" Hollow Stem Auger & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 30.9 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 593.8 ft mean sea level
Date Installed 08/10/95	Top of Casing Elevation 596.32 ft mean sea level
Geologist Michael Valentino	Depth to Water 15.48 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	+1.0' - 14.5'
8" DIAMETER STEEL CASING	+1.0' - 15.6'
OUTER CEMENT BENTONITE GROUT	0.0' - 15.6'
BENTONITE SEAL	14.5' - 17.5'
4" DIAMETER STAINLESS STEEL CASING	+2.0' - 20.9'
GRAVEL PACK	17.5' - 31.9'
4" DIAMETER STAINLESS STEEL 0.010 SLOT SCREEN	20.9' - 30.9'

NOT TO SCALE

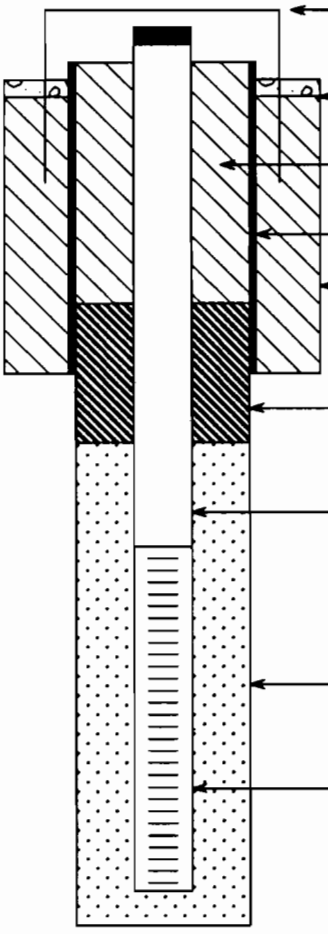
CDM FEDERAL PROGRAMS CORPORATION
SHALLOW MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-9S
Job Number 7720-053
Project Forest Glen
Location Niagara Falls, N.Y.
Date Installed 7/31/95
Geologist Michael Valentino

Drilling Company SJB, Inc
Drill Method 12" Hollow Stem Auger & 8" Air Rotary
Total Depth 25.0 ft below ground surface
Surface Elevation 592.2 ft mean sea level
Top of Casing Elevation 594.80 ft mean sea level
Depth to Water 14.05 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	+1.0' - 10.0'
8" DIAMETER STEEL CASING	+1.0' - 11.8'
OUTER CEMENT BENTONITE GROUT	0.0' - 11.8'
BENTONITE SEAL	10.0' - 13.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0' - 15.0'
GRAVEL PACK	13.0' - 26.0'
4" DIAMETER STAINLESS STEEL 0.010 SLOT SCREEN	15.0' - 25.0'

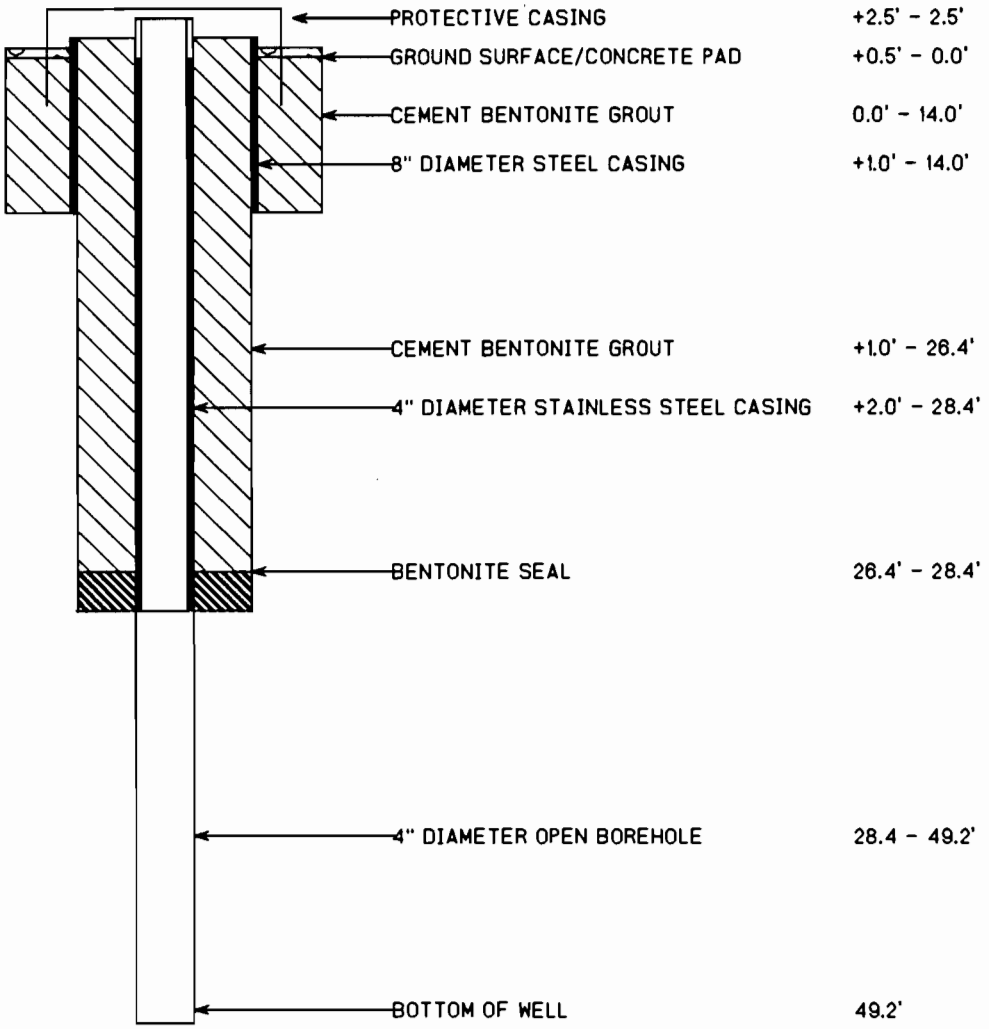
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
SHALLOW MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-1D	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method HQ Core, 12" HSA & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 49.2 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 594.9 ft mean sea level
Date Installed 7/20/95	Top of Casing Elevation 597.05 ft mean sea level
Geologist Michael Valentino	Depth to Water 16.92 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	0.0' - 14.0'
8" DIAMETER STEEL CASING	+1.0' - 14.0'
CEMENT BENTONITE GROUT	+1.0' - 26.4'
4" DIAMETER STAINLESS STEEL CASING	+2.0' - 28.4'
BENTONITE SEAL	26.4' - 28.4'
4" DIAMETER OPEN BOREHOLE	28.4 - 49.2'
BOTTOM OF WELL	49.2'

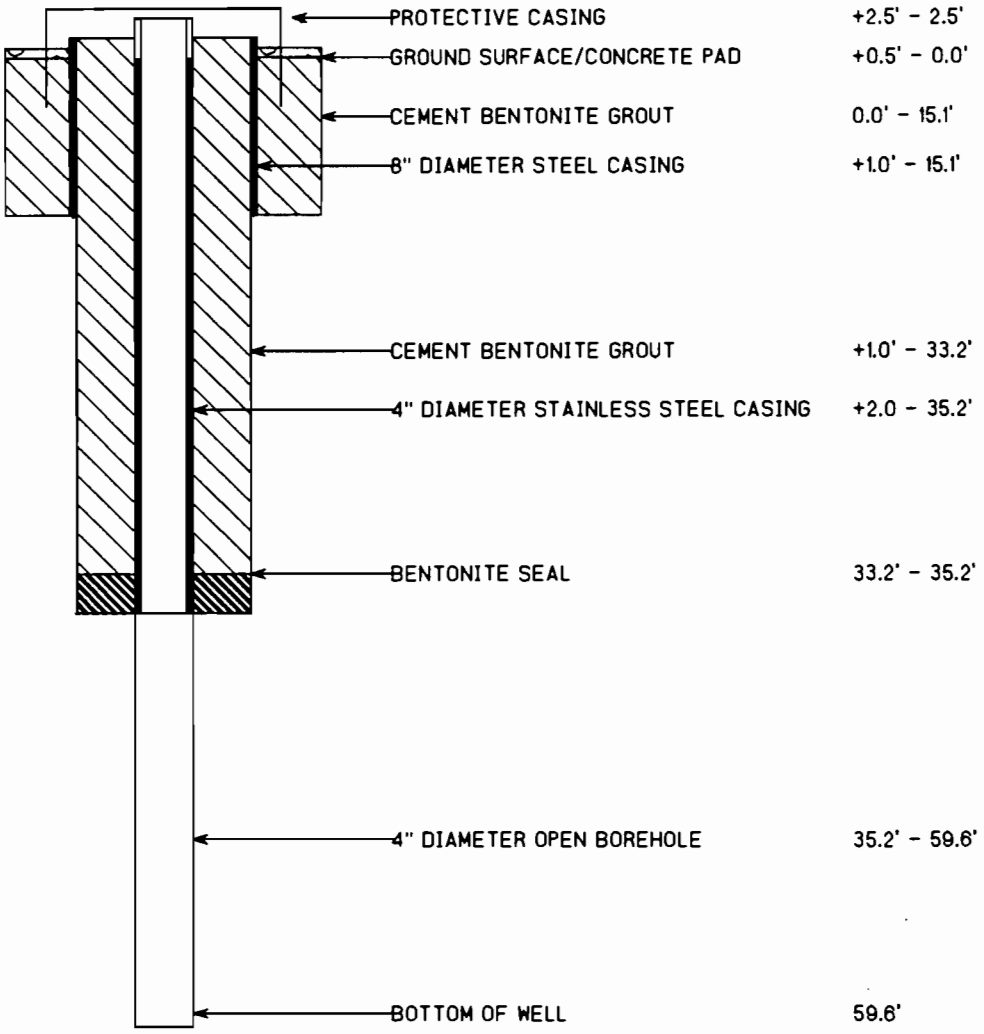
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
DEEP MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-2D	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 59.6 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 594.0 ft mean sea level
Date Installed 7/31/95	Top of Casing Elevation 595.98 ft mean sea level
Geologist Brain Mende	Depth to Water 16.75 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	0.0' - 15.1'
8" DIAMETER STEEL CASING	+1.0' - 15.1'
CEMENT BENTONITE GROUT	+1.0' - 33.2'
4" DIAMETER STAINLESS STEEL CASING	+2.0 - 35.2'
BENTONITE SEAL	33.2' - 35.2'
4" DIAMETER OPEN BOREHOLE	35.2' - 59.6'
BOTTOM OF WELL	59.6'

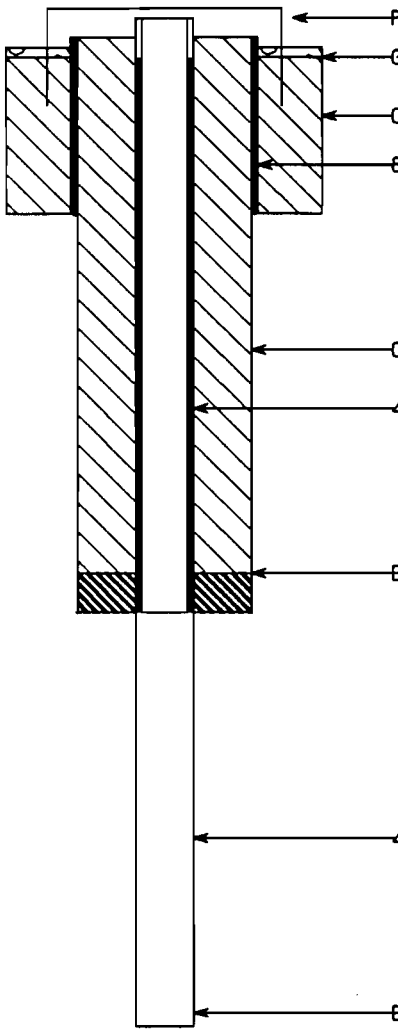
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
DEEP MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-3D	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 49.7 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 594.1 ft mean sea level
Date Installed 8/3/95	Top of Casing Elevation 596.1 ft mean sea level
Geologist Michael Valentino	Depth to Water 16.39 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	0.0' - 16.0'
8" DIAMETER STEEL CASING	+1.0' - 16.0'
CEMENT BENTONITE GROUT	+1.0' - 29.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0 - .31.0'
BENTONITE SEAL	29.0' - 31.0'
4" DIAMETER OPEN BOREHOLE	31.0' - 49.7'
BOTTOM OF WELL	49.7'

NOT TO SCALE

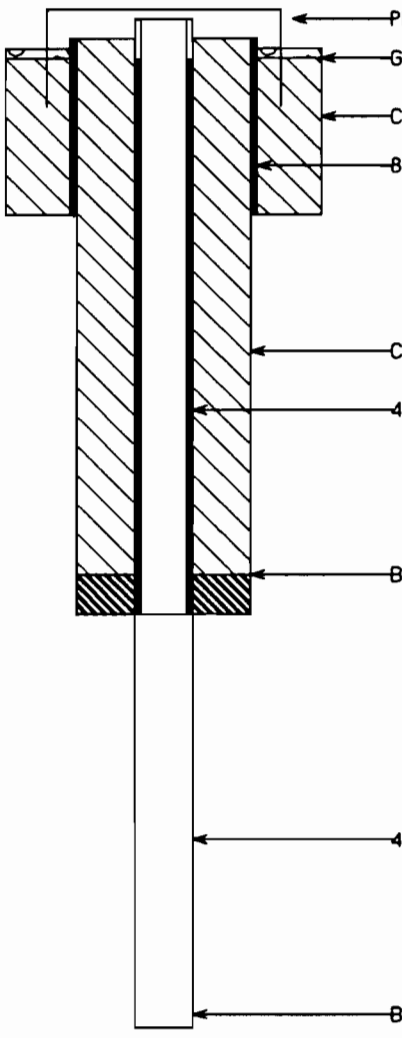
CDM FEDERAL PROGRAMS CORPORATION
DEEP MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-4D
Job Number 7720-053
Project Forest Glen RI/FS
Location NIAGARA FALLS, N.Y.
Date Installed 7/11/95
Geologist Michael Valentino

Drilling Company SJB, Inc.
Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Total Depth 59.3 ft below ground surface
Surface Elevation 592.4 ft mean sea level
Top of Casing Elevation 594.44 ft mean sea level
Depth to Water 15.17 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	0.0' - 9.0'
8" DIAMETER STEEL CASING	+1.0' - 9.0'
CEMENT BENTONITE GROUT	+1.0' - 28.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0 - 30.0'
BENTONITE SEAL	28.0' - 30.0'
4" DIAMETER OPEN BOREHOLE	30.0' - 59.3'
BOTTOM OF WELL	59.3'

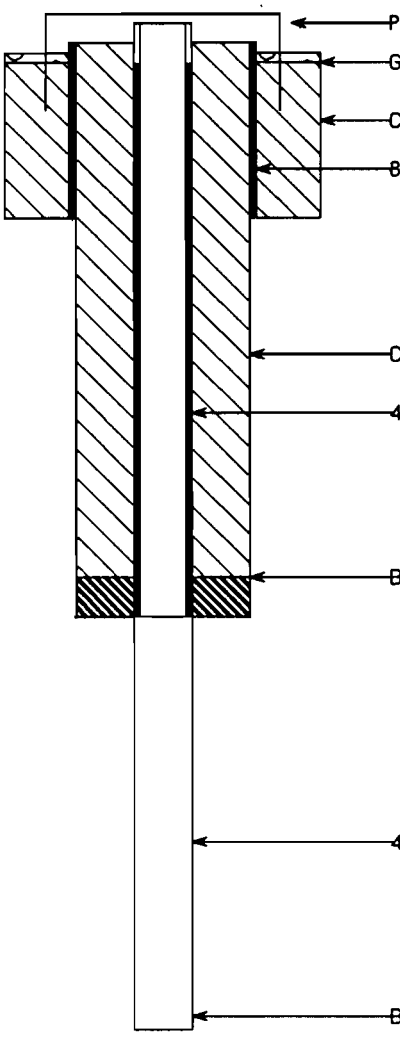
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
DEEP MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-5D	Drilling Company SJB,Inc.
Job Number 7720-053	Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 49.7 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 591.4 ft mean sea level
Date Installed 7/26/95	Top of Casing Elevation 593.34 ft mean sea level
Geologist Michael Valentino	Depth to Water 14.15 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	0.0' - 15.3'
8" DIAMETER STEEL CASING	+1.0' - 15.3'
CEMENT BENTONITE GROUT	+1.0' - 25.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0 - 27.0'
BENTONITE SEAL	25.0' - 27.0'
4" DIAMETER OPEN BOREHOLE	27.0' - 49.7'
BOTTOM OF WELL	49.7'

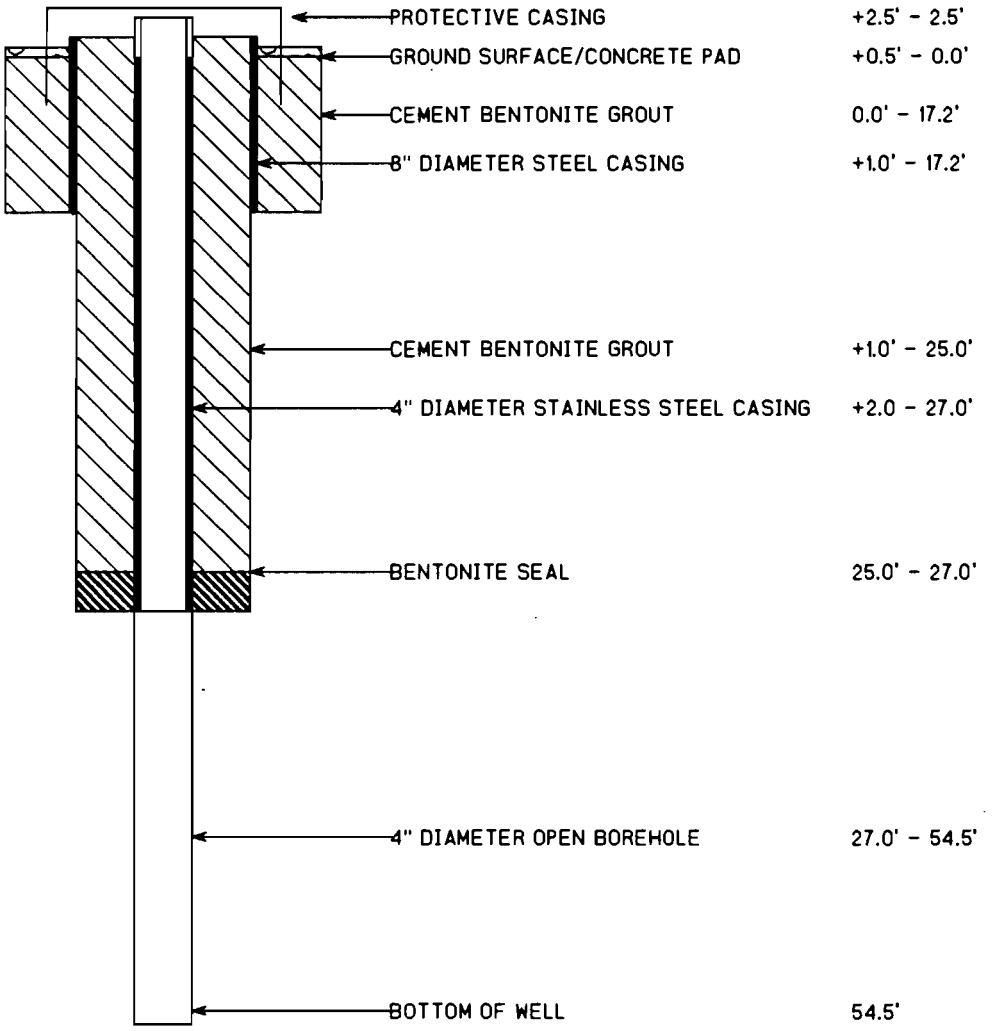
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
DEEP MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-6D	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 54.5 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 593.8 ft mean sea level
Date Installed 7/21/95	Top of Casing Elevation 595.73 ft mean sea level
Geologist Michael Valentino	Depth to Water 16.5 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	0.0' - 17.2'
8" DIAMETER STEEL CASING	+1.0' - 17.2'
CEMENT BENTONITE GROUT	+1.0' - 25.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0 - 27.0'
BENTONITE SEAL	25.0' - 27.0'
4" DIAMETER OPEN BOREHOLE	27.0' - 54.5'
BOTTOM OF WELL	54.5'

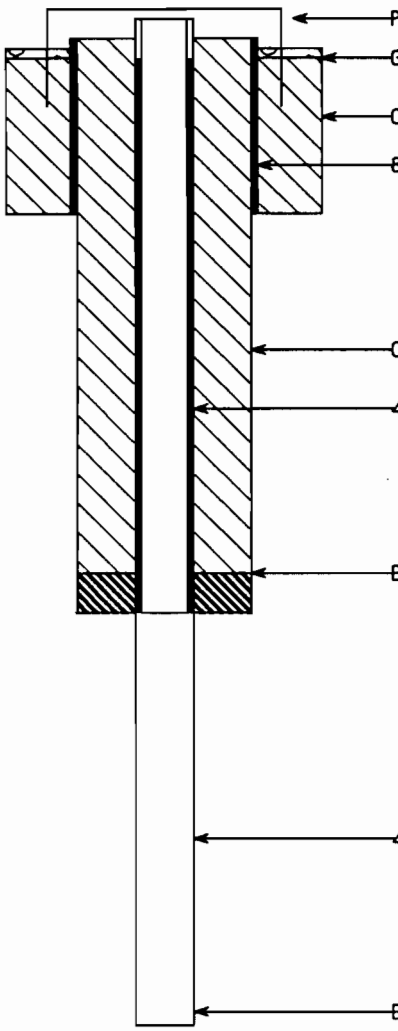
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
DEEP MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-7D	Drilling Company SJB Inc.
Job Number 7720-053	Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 51.0 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 593.2 ft mean sea level
Date Installed 8/9/95	Top of Casing Elevation 595.78 ft mean sea level
Geologist Michael Valentino	Depth to Water 16.18 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	0.0' - 12.5'
8" DIAMETER STEEL CASING	+1.0' - 12.5'
CEMENT BENTONITE GROUT	+1.0' - 29.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0 - 31.0'
BENTONITE SEAL	29.0' - 31.0'
4" DIAMETER OPEN BOREHOLE	31.0' - 51.0'
BOTTOM OF WELL	51.0'

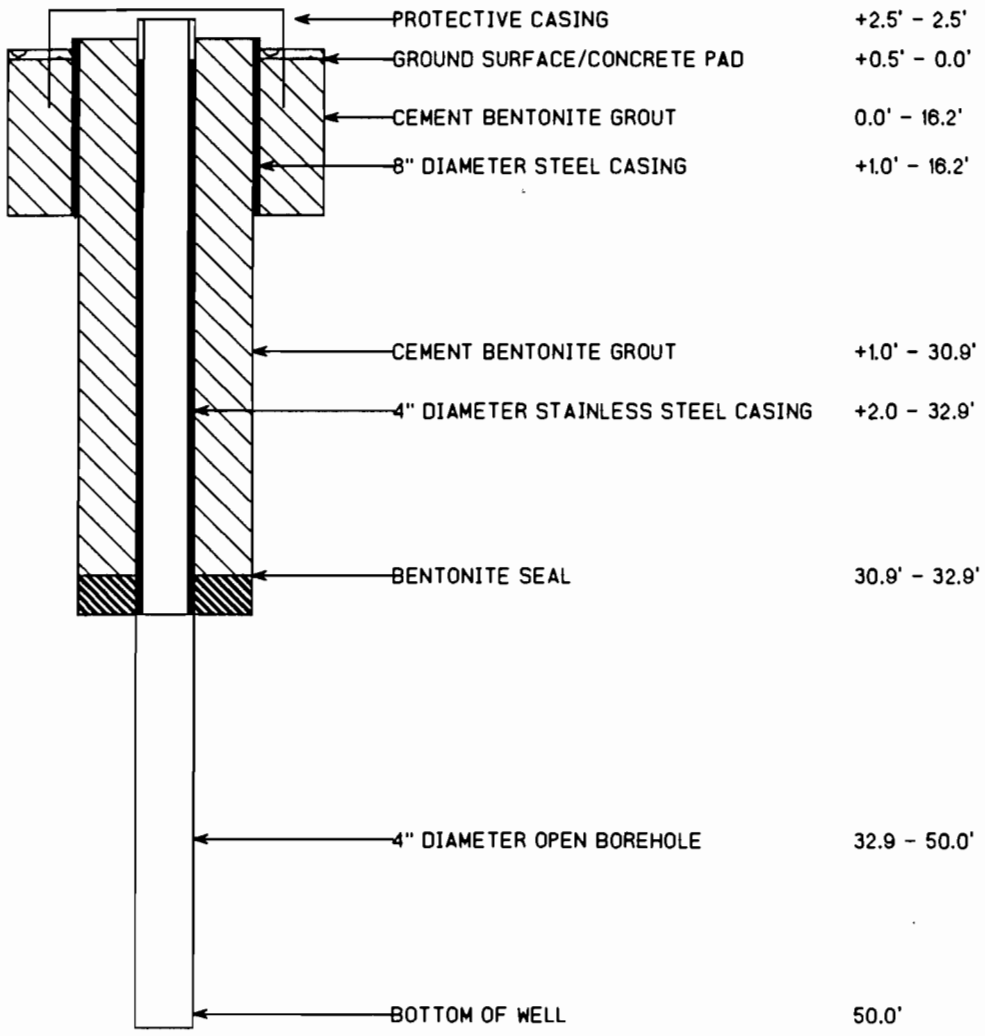
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
DEEP MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-8D	Drilling Company SJB, Inc.
Job Number 7720-053	Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Project Forest Glen RI/FS	Total Depth 50 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 593.8 ft mean sea level
Date Installed 08/10/95	Top of Casing Elevation 595.86 ft mean sea level
Geologist Michael Valentino	Depth to Water 18.46 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	0.0' - 16.2'
8" DIAMETER STEEL CASING	+1.0' - 16.2'
CEMENT BENTONITE GROUT	+1.0' - 30.9'
4" DIAMETER STAINLESS STEEL CASING	+2.0 - 32.9'
BENTONITE SEAL	30.9' - 32.9'
4" DIAMETER OPEN BOREHOLE	32.9 - 50.0'
BOTTOM OF WELL	50.0'

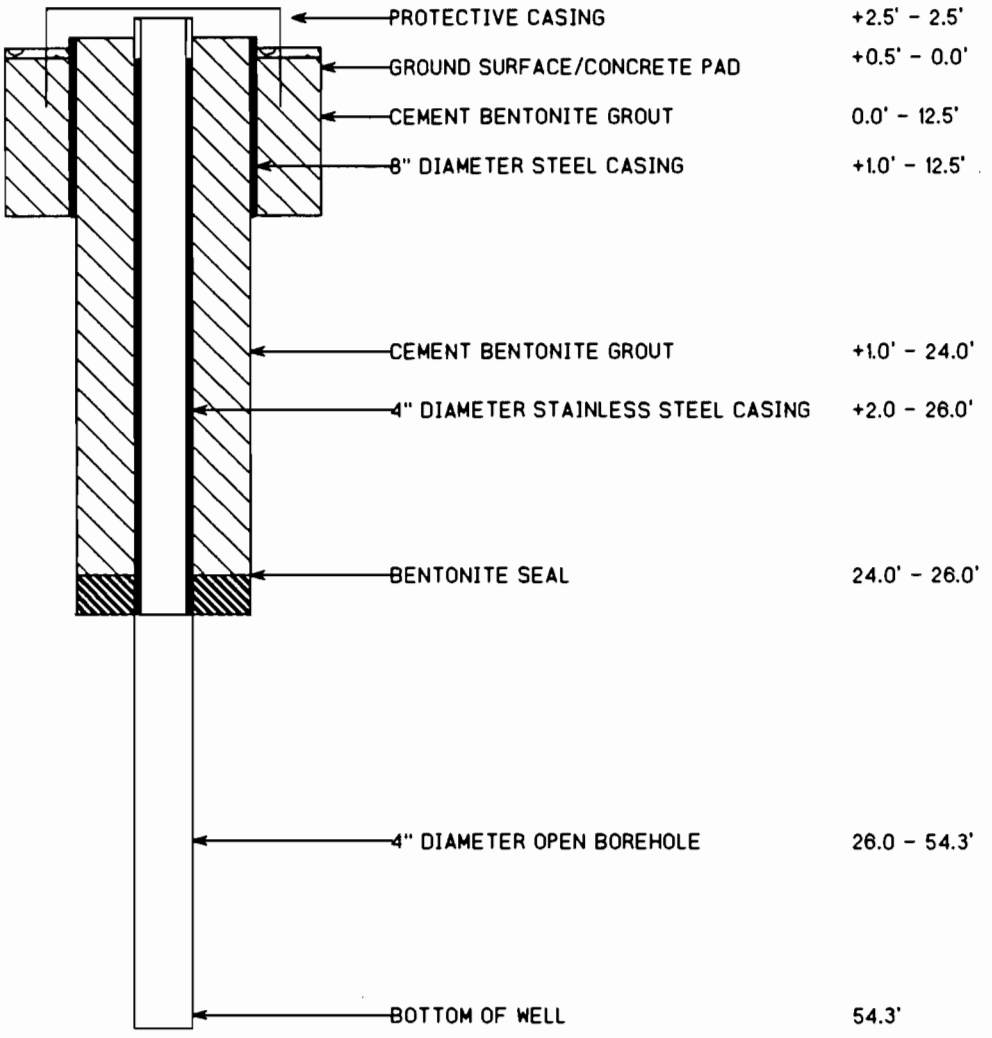
NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
DEEP MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

Well Name MW-9D	Drilling Company SJB, Inc
Job Number 7720-053	Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Project Forest Glen	Total Depth 54.3 ft below ground surface
Location Niagara Falls, N.Y.	Surface Elevation 592.5 ft mean sea level
Date Installed 7/31/95	Top of Casing Elevation 594.31 ft mean sea level
Geologist Michael Valentino	Depth to Water 14.7 ft below TOC - 12/28/95

MONITORING WELL COMPONENTS



	DEPTH INTERVAL
PROTECTIVE CASING	+2.5' - 2.5'
GROUND SURFACE/CONCRETE PAD	+0.5' - 0.0'
CEMENT BENTONITE GROUT	0.0' - 12.5'
8" DIAMETER STEEL CASING	+1.0' - 12.5'
CEMENT BENTONITE GROUT	+1.0' - 24.0'
4" DIAMETER STAINLESS STEEL CASING	+2.0 - 26.0'
BENTONITE SEAL	24.0' - 26.0'
4" DIAMETER OPEN BOREHOLE	26.0 - 54.3'
BOTTOM OF WELL	54.3'

NOT TO SCALE

CDM FEDERAL PROGRAMS CORPORATION
DEEP MONITORING WELL CONSTRUCTION DIAGRAM

FOREST GLEN SITE

APPENDIX D

CORE LOGS

Well Name MW-1D
Job Number 7720-053
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 7/20/95
Geologist Michael Valentino

Drilling Company SJB, Inc.
Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Total Depth 49.17 ft below ground surface (BGS)
Surface Elevation 594.9 ft Mean Sealevel (MSL)
Top of Casing Elevation 597.05 ft MSL
Depth to Water 16.92 ft below top of casing

Depth (ft)	Recovery (%)	RQD (%)	Lithology	Description	Fractures	Notes
10				Overburden to 14.2'BGS.		
20	9.6/10	81		Run #1 14.2' to 24.2' BGS 14.2' to 18.1' dark gray dolomite broken between 14.2' to 14.6', High angle vertical break between 15.5'to 16.1'. From 18.1'to 19.4' increased vertical and horizontal fracturing/breaking. 19.4' to 21.4', some vuggy characteristics and few vertical surface fractures, otherwise competent - At 21.4' broken fine to medium gravels. Vertical fracture from 21.4'to 21.5'. Rest of core is slightly vuggy with a horizonal break at 22.3'.		8" stainless steel casing to 14.2' BGS. Drilling was soft at 18' for 0.5 ft for 0.5 ft at 21' for 0.5 ft.
30	9.0/9.0	70.5		Run #2 24.2' to 33.2' BGS Core is slightly vuggy with apparent horizontal facture at 26.0'. 26.9 to 31.1 Core is more competent with absence of vuggy appearance. 31 to 33 Several horizontal breaks/fractures.		Water loss at 26' to 26.5'. Water returned at 28'. 4" Stainless steel casing set to 28.4'BGS. Lost water again at 29'.
	10.1/10.5	66.7		Run #3 33.2' to 38.9' BGS Dolomite becomes fine grained at 33.2'. Rock is competent except for a few horizontal fractures.		Run started at 29.5' due to offset of core barrel in hole.
40	10/10	68.5		Run #4 38.9' to 49.17' BGS Dark to medium gray with numerous horizontal fractures core is much more vuggy in appearance than previous run. Extensive voids (solution channels) at 41.5' to 41.8'. 41.8' to 45.7'- Horizontal fractures becoming more vuggy at 45.7'to 47.3' with broken rock between 45.7'to 46.4' with one vertical void starting at ~46'to 46.7'		
50				Bottom of hole 49.2' BGS (545.7 ft MSL).		
60						

CDM FEDERAL PROGRAMS CORPORATION
CORE LOG

LEGEND

- OVERBURDEN
- CLAY LAYER
- LOCKPORT DOLOMITE
- LOCKPORT DOLOMITE WITH VUGS
- SHALE LAYER

Well Name MW-2D
Job Number 7720-053
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 7/31/95
Geologist Brian Mende

Drilling Company SJB, Inc.
Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Total Depth 59.6 ft below ground surface (BGS)
Surface Elevation 594.0 ft Mean Sealevel (MSL)
Top of Casing Elevation 595.98 ft MSL
Depth to Water 16.75 ft below top of casing

Depth (ft)	Recovery (%)	RQD (%)	Lithology	Description	Fractures	Notes
10				Overburden to 15.7' BGS.		
				Grout Plug		Grout plug 15.2' to 15.7' BGS. 8" Stainless steel casing to 15.7' BGS.
20	8.2/8.2	94		Run #1 15.7'to 23.9' BGS. Dark gray dolomite.		Started producing water @ 19.0 water production increased w/depth.
	10.3/10.3	88		Run #2 23.9' to 34.2' BGS. Dark gray dolomite, vuggy minor fracturing.		
30						Started to lose water @32.5' bgs water production > 20-30 gpm.
	1/1	0		Run #3 34.2' to 35.2' BGS. Thin dark gray shale layer Dark gray dolomite, highly fractured.		4" Stainless steel casing set to 35.0' BGS.
40	8.1/9.3	66		Run #4 35.2' to 44.5' BGS. Vugs at 35.3' Possible fracture at 39' - calcite at 39.6'. At 41' vugs with crystallization - Bedding fractures increase frequency with depth. Dark gray shale 43-44.5' highly fractured bottom 2.5' RQD = 0%.		
	1.6/1.7	25				At 45.5 lost water. At 46.0 water circulation returns - Core block at 46.2 circulation remains.
				Run #5 44.5' to 46.2' BGS. Vertical fracture at 46'.		
50	8.9/8.9	32.6		Run #6 46.2' to 55.1' BGS. Dark Gray Dolomite. 2 pieces in excess of 1.0' - fractures every 2-3".		
	NA	NA		Run #7 55.1' to 59.6' BGS. Dark Gray Dolomite		
60				Bottom Of Hole 59.6' BGS (534.4 ft MSL).		

CDM FEDERAL PROGRAMS CORPORATION
CORE LOG

LEGEND

- OVERBURDEN
- CLAY LAYER
- LOCKPORT DOLOMITE
- LOCKPORT DOLOMITE WITH VUGS
- SHALE LAYER

Well Name MW-3D
Job Number 7720-053
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 8/3/95
Geologist Michael Valentino

Drilling Company SJB, Inc.
Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Total Depth 49.7 ft below ground surface (BGS)
Surface Elevation 594.1 ft Mean Sealevel (MSL)
Top of Casing Elevation 596.1 ft MSL
Depth to Water 16.39 ft below top of casing

Depth (ft)	Recovery (%)	RQD (%)	Lithology	Description	Fractures	Notes
10				Overburden to 16' BGS.		8" stainles steel casing set to 16.0' BGS
20	7.6/7.6	72.4		Run #1 16' to 23.6' BGS. Dark Gray Dolomite. Very vuggy with gypsum filled vugs from 16' to 17.8' then fine grained dolomite to 21.4' - breaks are horizontal and spaced every 1' to 1.5' until 21.4' - One closed nearly vertical break from 19.8' to 20.4' - highly broken vuggy dolomite from 21.4 to 23.6' breaks every 2" to 3".		Water loss at 22.0'
30	10/10	85		Run #2 23.6'to 33.6' BGS. Dark Gray Dolomite. Vuggy and broken from 23.6' to 25.8' vugs continue to 28.3' with fine grained dolomite layer containing a series of 3 parallel high angle closed breaks from 26.8' to 27.2' - Fairly competent from 25.8' to 29.0' then broken horizontally & vertically to 30.8 - Fairly competent - 1' to 1.5' spaced breaks from 30.8' to 33.6'. Series of 2"-3" spaced breaks from 31.7' to 32.5'.		4" stainless steel casing set to 31.0' BGS
	1.9/2.0	55				Water loss at 36.0'
40	9.3/9.3	45		Run #3 33.6' to 35.6' BGS. Broken dolomite along horizontal fractures - more competent from 34.'5 to 35.6'		
				Run #4 35.6' to 44.9' BGS. Dark Gray Dolomite High angle fracture (horizontal) between 38.0 to 39.5 some vertical fracturing observed at 38.0'. Horizontal fracture at 35.9 to 36.3 appears to be assoc. with water loss. Calcification observed at 39.6 & 40.4 assoc. with horizontal fractures. Highly fractured (1-2 pieces larger than 4") between 41.4' and 44.9 thin shale seams near base of core between 42 & 44.9.		
	5.1/5.1	28				
50				Run #5 44.9' to 50.0' BGS. Dark Gray Dolomite. Highly fractured (horizontal), no pieces larger than 5"-6".		
				Bottom of core at 50.0' BGS. (546.1' MSL)		
60						

CDM FEDERAL PROGRAMS CORPORATION
CORE LOG

LEGEND

- OVERBURDEN
- CLAY LAYER
- LOCKPORT DOLOMITE
- LOCKPORT DOLOMITE WITH VUGS
- SHALE LAYER

Well Name MW-4D
Job Number 7720-053
Project Forest Glen RI/FS
Location NIAGARA FALLS, N.Y.
Date Drilled 7/11/95
Geologist Michael Valentino

Drilling Company SJB, Inc.
Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Total Depth 60.0 ft below ground surface (BGS)
Surface Elevation 592.4 ft Mean Sealevel (MSL)
Top of Casing Elevation 594.44 ft MSL
Depth to Water 15.17 ft below top of casing

Depth (ft)	Recovery (%)	RQD (%)	Lithology	Description	Fractures	Notes
				Overburden to 9.0'.		8" stainless steel casing set to 9.0' BGS
10				Run #1 9 to 22.7 BGS. Highly broken and weathered Dark Gray Dolomite.		Trouble coring in interval from 9' to 22.7' - due to weatherd and broken nature of rock.
20						
	7.2/7.7	72.7		Run #2 22.7' to 30.0' BGS. Broken pieces of dark gray dolomite - vuggy with solution precipitate from 22.7' - 25.5' - Then competent rock from 25.5' to 28.1 - vuggy & precipitate from 25.5 to 27.2. Numerous horizontal breaks from 28.1 to 29.4 then competent to 30' less vuggy horizontal fractures.		
30	3.85/4.3	55.8		Run #3 30.0' to 34.3' BGS. Dark Gray Dolomite from 30-32 then competent rock to bottom of core (for 2.4 feet) - No water loss in fractures.		4" stainless steel casing set to 30.0' BGS
	10/10	59		Run #4 34.3' to 44.3' BGS. Dark gray dolomite numerous horizontal breaks - 2-3" horizontally factured pieces from 37.5 - 39.5 numerous breaks form 41.8 to 43.8 - breaks coated with clay & sand - breaks are low angle breaks - 0 to 20 degrees - vuggy & more precipitate toward bottom - large calcite crystals in break at 42'.		Water loss at 42.0'
40						
	10/10	100		Run #5 44.3' to 54.1' BGS. Competent dark gray dolomite some vugs - very vuggy from 49.6 - 52.1.		
50						
	4.7/5.0	94		Run #6 54.3' to 60.0' BGS. Dark gray competent dolomite - some precipitate - vugs & styolites.		
60				Bottom of core at 60.0' BGS. (532.4' MSL).		

CDM FEDERAL PROGRAMS CORPORATION
CORE LOG

LEGEND

- OVERBURDEN
- CLAY LAYER
- LOCKPORT DOLOMITE
- LOCKPORT DOLOMITE WITH VUGS
- SHALE LAYER

Well Name MW-5D
Job Number 7720-053
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 7/26/95
Geologist Michael Valentino

Drilling Company SJB,Inc.
Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Total Depth 49.7 ft below ground surface (BGS)
Surface Elevation 591.4 ft Mean Sealevel (MSL)
Top of Casing Elevation 593.34 ft MSL
Depth to Water 14.15 ft below top of casing

Depth (ft)	Recovery (%)	RQD (%)	Lithology	Description	Fractures	Notes
				Overburden to 15.3' BGS.		
10						8" stainless steel casing set to 15.3' bgs.
	3.6/4.3	72.1		Run #1 15.3' to 19.6' BGS. Dark Gray Dolomite. High angle fracture at 15.3 ft. - Vuggy to 16.3' then fine grained dolomite to 17.4' - High angle break at 16.9' - Very broken with precipitate and mud at 17.5; - Vugs and precipitate begin again at 17.4' - High angle break at 17.7' - Vertical break from 18.9' to 19.6'.		Water loss at 17.5'.
20	1.8/2.1	76.2				
	2.0/2.0	100				
	3.3/3.3	100		Run #2 19.6' to 21.7' BGS. Gray dolomite with tan precipitate in vugs - vuggy throughout horizontal to low angle breaks every 3'-5' - Styolites evident coal like material in break at 20.2.		4" stainless steel casing set to 27.0' bgs.
30	7.35/7.8	83.9		Run #3 21.7' to 23.7' BGS. Same as above except more competent - One horizontal break at 21.8' - styolite at 22.7'.		
				Run #4 23.7 to 27.0 BGS. Dark Gray Dolomite. Began at 23.7' - very competent rock - vugs end at ~ 24.4 then gray dolomite.		Water loss at 34.7'.
40	9.7/10.0	61		Run #5 27.0' to 34.7' BGS. Fine grained dark gray dolomite - fairly competent with breaks every 1.0 - 1.5' - One broken zone from 28.6' to 29.7' - breaks every 0.3' - some vugs at 30' slightly broken at 34.7'-Precipitate and pitted in breaks at 31.9' and 33.1'.		
	5.0/5.0	100		Run #6 34.7' to 45.0' BGS. Very broken from 36.7' to 39.7' then breaks every foot - becomes vuggy at 38.7'.		
50				Run #7 45.0' to 49.7'BGS. Very competent dark gray dolomite - vuggy to 47.7 - Styolite at 4.3' - less vuggy toward bottom - Horizontal break at 49.3 has black precipitate & pitted on surface		
				Bottom of core at 49.7' BGS. (543.64' MSL)		
60						

CDM FEDERAL PROGRAMS CORPORATION
CORE LOG

LEGEND

- OVERBURDEN
- CLAY LAYER
- LOCKPORT DOLOMITE
- LOCKPORT DOLOMITE WITH VUGS
- SHALE LAYER

Well Name MW-6D
Job Number 7720-053
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 7/21/95
Geologist Michael Valentino

Drilling Company SJB, Inc.
Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Total Depth 54.5 ft below ground surface (BGS)
Surface Elevation 593.8 ft Mean Sealevel (MSL)
Top of Casing Elevation 595.73 ft MSL
Depth to Water 16.5 ft below top of casing

Depth (ft)	Recovery (%)	RQD (%)	Lithology	Description	Fractures	Notes
10				Overburden to 17.2'BGS.		8" stainless steel casing set to 17.2' BGS.
20	6.1/6.1	60.6		Run #1 17.2' to 23.3' BGS. Dark gray dolomite - At 18.2' contains gypsum replacement crystals/ fossils/very vuggy - highly broken from 19.5' - 21.3'. Competent to 23.3'.		Water loss at 19.3'.
30	10/10	82.5		Run #2 23.3' to 33.3' BGS. Dark Gary Dolomite. Competent rock continues down to 27.0' bgs, fossiliferous zone continues to 25.8'. Another fossiliferous zone from 27.7' - 28.7' fine grained dolomite from 25.8' and especially after 28.7'. Dolomite has 13 breaks after 27' - high angle breaks occurred at ~30.1', 31.0', and 32.0'.		4" stainless steel casing set to 27.0' BGS. Run #3 began at 27.2 due to hole offset - 27.2 to 33.5 described during Run #2.
	NA	NA		Run #3 33.3' to 34.5' BGS. Dark Gary Dolomite. Highly broken from 33.5' to 34.5'.		
40	10/10	61		Run #4 34.5' to 44.5' BGS. Gray dolomite with horizontal breaks every 3"-5" from 34.5 to 38.3' then fairly competent - 3 horizontal to low angle breaks from 38.3 to 41.8 then numerous breaks every 1" to 3" from 41.8 to 44 - vuggy from 44 to 44.5 - crystal filled breaks from 44 to 44.5. One high angle closed fracture at 44.3'.		Water loss and hit a void from 46.1' to 46.6' BGS.
50	9.2/10	87		Run #5 44.5' to 54.5' BGS. Dark Gray dolomite - long closed vertical break from 44.8' to 48' then closed high angle break from 50 to 50.5. Another vertical break from 51.9 to 53.3. In addition to the vertical breaks - horizontal breaks occur throughout the run spaced by 1' to 1.5' apart - 2" to 3" spacings from 50.7 to 51.7'.		
60				Bottom of core at 54.5' BGS (541.23' MSL).		

CDM FEDERAL PROGRAMS CORPORATION
CORE LOG

LEGEND

- OVERBURDEN
- CLAY LAYER
- LOCKPORT DOLOMITE
- LOCKPORT DOLOMITE WITH VUGS
- SHALE LAYER

Well Name MW-7D
Job Number 7720-053
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 8/9/95
Geologist Michael Valentino

Drilling Company SJB Inc.
Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Total Depth 51.0 ft below ground surface (BGS)
Surface Elevation 593.2 ft Mean Sealevel (MSL)
Top of Casing Elevation 595.78 ft MSL
Depth to Water 16.18 ft below top of casing

Depth (ft)	Recovery (%)	RQD (%)	Description	Notes
10			Overburden to 12.5' BGS.	8" stainless steel casing set to 12.5' BGS.
	1.1/1.1	86.4	Run #1 12.5' to 13.6' BGS. Gray vuggy dolomite high angle fracture at 13.0' BGS fine grained	
	1.2/1.4	85.7		
20	6.9/7.6	82.9	Run #2 13.6' to 15.0' BGS. Dark Gray Dolomite. Slightly vuggy competent rock then closed vertical fractures to 14.8'.	
	9.45/9.5	99.5	Run #3 15.0' to 22.6' BGS. Gray Dolomite Vertical closed fractures continue to 15.9' then broken zone from 15.9 to 16.9 - A 2" clay seam at 16.9' - 17.1' then competent rock some vugs to 22.6' - closed high angle fracture 19'-20' filled with white precipitate.	
30			Run #4 22.6' to 32.1' BGS. Gray dolomite - vuggy & competent - 2' to 3' pieces, styolites evident in competent pieces.	4" stainless steel casing set to 31.0' BGS.
	7.05/8	67.5	Run #5 32.2' to 39.0' BGS. Dark Gray Dolomite. Set casing - so cored from 31' to 39' fine grained dolomite with horizontal breaks every 0.5' to 1.0' - More broken zones at 31.5-32.0, 34.1 to 35', and at 39' - High angle closed fractures noticed in competent pieces from 32' to 34.2' and 36.4' to 37.8'. Breaks after 34' are pitted and coated with black gray precipitate.	Water loss at 39.0'.
40	4.1/4.1	19.5		
	7.9/7.9	100	Run #6 39.0' to 43.1' BGS. Highly broken dolomite from 39 to 41 BGS - pieces smaller then 1" - 2" - from 41 - 43.1. Pieces more on the order of 3" - 4" - Vuggy from 42' to 42.7 - Vertical fracture from 42.7 to 43.1.	
50			Run #7 43.1' to 51.0' BGS. Dark Gray Dolomite. Slightly vuggy and competent from 43.1 to 44.2' then 3 breaks to 45.9' - High angle break at 45.1 - From 45.9' to 51' very competent rock with two breaks (horizontal) at 47.5 and 49.6.	
60			Bottom of core at 51' BGS (544.78' MSL)	

CDM FEDERAL PROGRAMS CORPORATION
CORE LOG

LEGEND

- OVERBURDEN
- CLAY LAYER
- LOCKPORT DOLOMITE
- LOCKPORT DOLOMITE WITH VUGS
- SHALE LAYER

Well Name MW-8D
Job Number 7720-053
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 08/10/95
eologist Michael Valentino

Drilling Company SJB, Inc.
Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Total Depth 50 ft below ground surface (BGS)
Surface Elevation 593.8 ft Mean Sealevel (MSL)
Top of Casing Elevation 595.86 ft MSL
Depth to Water 18.46 ft below top of casing

Depth (ft)	Recovery (%)	RQD (%)	Lithology	Description	Fractures	Notes
10				Overburden to 16.2'BGS.		
20	7.75/8.5	91		Run #1 16.2' to 24.0' BGS. Medium gray dolomite - very competent over entire run except for horizontal breaks/fractures at 16.6', 21.5' & 22'. Small amount of vuggy appearance at 17.8' to 18.3'.		8" stainless steel casing set to 16.2' BGS.
30	9.7/10	94		Run #2 24.0' to 33.8' BGS. Very competent dolomite with slight vugginess at 27.5' to 29'. Horizontal breaks at 30'seem to explain water loss at this depth.		Water loss at 30.0'.
	5.1/6	33.3		Run #3 33.8' to 38.8' BGS. Gray Dolomite. Highly broken from 34' to 35.3'. Vertical fracture from 34.2 to 34.9 then horizontal to low angle breaks every 2' - 3' to bottom.		4" stainless steel casing set to 32.9' BGS. Water loss at 33.5' Water loss at 35.8'.
40	6.2/6.2	90.3		Run #4 38.8' to 45.0' BGS. Gray Dolomite. 38.8 Small broken pieces (2") from 38.8 to 39.8'. then more competent to 45' - Breaks every 0.7 to 1.5' - crystal filled vugs for last 2 feet - 43-45'.		
50	7.0/7.0	75.7		Run #5 45.0' to 52.0' BGS. Gray Dolomite. Competent to 46.1 then highly broken to 46.6' 1' to 2' pieces then competent to 49.1 - Highly broken from 49.1 to 50.9' A 2" seam of white fine powder (possibly gypsum) observed at 50.0'.		
60				Bottom of core at 52.0' BGS (543.86' MSL).		

CDM FEDERAL PROGRAMS CORPORATION
CORE LOG

LEGEND

- OVERBURDEN
- CLAY LAYER
- LOCKPORT DOLOMITE
- LOCKPORT DOLOMITE WITH VUGS
- SHALE LAYER

Well Name MW-9D
Job Number 7720-053
Project Forest Glen
Location Niagara Falls, N.Y.
Date Drilled 7/31/95
Geologist Michael Valentino

Drilling Company SJB, Inc
Drill Method HQ Conventional Core, 12" & 8" Air Rotary
Total Depth 55.0 ft below ground surface (BGS)
Surface Elevation 592.5 ft Mean Sealevel (MSL)
Top of Casing Elevation 594.31 ft MSL
Depth to Water 14.7 ft below top of casing

Depth (ft)	Recovery (%)	RQD (%)	Description	Notes
			Overburden to 12.5'.	8" stainless steel casing set to 12.5' BGS.
10	1.3/1.3	80.8	Run #1 12.5' to 13.8' BGS. Gray dolomite-competent-one horizontal break at 12.8' then competent to 13.8' - styolite near break at 12.8'.	
	10/10	91	Run #2 13.8' to 23.8' BGS. Very competent gray dolomite with gypsum precipitate and vuggy from 15.3' to 15.6' - breaks at 18.7 to 19.2 competent form 18.7' to 21.0'- Black precipitate along break at 21.0' - vuggy form 21.0' to 23.1' then fine grained dolomite with styolites to 23.8' - Very broken in area from 21.0 to 23.1' many vugs filled with gypsium precipitate. Breaks are all horizontal.	Water loss at 19.0'.
20	5.0/5.0	79		4" stainless steel casing set to 26.0' BGS.
	3.9/3.9	20.5	Run #3 23.8' to 28.8' BGS. Horizontal breaks at 25.1', 26.9' & 27.7'- Very competent in this area - becomes more vuggy with precipitate at 26.6 bgs to bottom of core - large vug at 27.5' - core is highly broken from 27.7 to 28.3 horizontal to low angle breaks - precipitate filled closed vertical fractures begin at 27.8 & continue to bottom of core at 28.8.	
30	7.5/7.5	76.6	Run #4 28.8'to 32.5' BGS. Highly broken gray dolomite - vuggy from 30' to 30.3' - Precipitate of gypsum and yellow minerals at 32.5.	
	7.2/7.2	61.8	Run #5 32.5' to 40.01' BGS. Highly broken from 32.5 to 33.5' then competent to 39.2, vuggy at 36.4' minor amounts of vugs after 36.4 one clear crystal filled vug at 37.8' horizontal breaks every 2'-3' from 39.2 to 40.0.	
40				Water loss at 48.0'.
	7.1/7.8	78.2	Run #6 40.01' to 47.21' BGS. Gray Dolomite. Highly broken from 40.0' - 41.1', horizontal breaks every 0.5 - 1.0' to 44'. One closed vertical fracture from 43.3' to 44.0'. Vertical fracture appears to continue through highly broken area to 45.3, horizontal to low angle breaks every 3'-5' to 47.2, brownish yellow precipitate in vertical fracture at 45.1-45.3.	Driller noted a void from 47.2' to 48.0' BGS.
50				Bottom of core at 55.0' BGS (537.5' MSL).
			Run #7 47.2' to 55.0' BGS. Gray Dolomite. Highly broken and vuggy to 48.4, very competent rock from 48.5 to 55', high angle breaks at 50.9', 52.1' & 53.5, one horizontal break at 54.3.	
60				

CDM FEDERAL PROGRAMS CORPORATION
CORE LOG

LEGEND
OVERBURDEN
CLAY LAYER
LOCKPORT DOLOMITE
LOCKPORT DOLOMITE WITH VUGS
SHALE LAYER

APPENDIX E

DRIVE-POINT BORING LOGS

Boring Name DP-001
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/15/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 591.3 ft Mean Sealevel (MSL)
Total Depth 15.6 ft Below Ground Surface (BGS)
X-Location 388804.34
Y-Location 1133637.10
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	1 3 3 4	0-2	1'/2'	bkg			Top 6" - Asphalt and concrete then gray brown clay with traces of silt - slightly moist and plastic.	
2	SS-2	5 6 10 14	2-4	1.3'/2'	bkg			2.5' Red Brown CLAY - stiff and dry at 2.5 feet.	
4	SS-3	7 19 23 26	4-6	2'/2'	bkg			Same as above - laminated.	
6	SS-4	25 20 18 23	6-8	2'/2'	bkg			Same as above - a few 1/4" diameter drop stones.	
8	SS-5	5 16 19 17	8-10	2'/2'	bkg			CLAY with fine sand partings, becoming moist, some pebbles. 9.3'	
10	SS-6	8 14 18 24	10-12	1'/2'	bkg	■		Red Brown CLAY, some pebbles. Red Brown CLAY, some pebbles, moist.	DP-001
12	SS-7	9 17 19 28	12-14	1.3'/2'	bkg			Red Brown SILTY CLAY, some gravel, and fine-medium-coarse (f-m-c) sand. One 2" diameter pebble at approximately 13.0'.	
14	SS-8	8 11 36 50/2"	14-16	1.5'/2'	bkg			14.0' Gray rock - fractured pieces, some clay - weathered Lockport formation.	
16								Bottom of Boring @ 15.8' BGS (576.2' MSL).	
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-002
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/15/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 592.8 ft Mean Sealevel (MSL)
Total Depth 14.3 ft Below Ground Surface (BGS)
X-Location 388641.27
Y-Location 1133631.17
Depth To Water 8.85 ft BGS
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 4 6 11	0-2	1.6/2	bkg			Top 6" - Top soil with organic material then Gray Brown SILTY CLAY, some organics and trace of gravel, dry.	
2	SS-2	7 12 18 20	2-4	1.7/2	bkg			Brown CLAY, some organics, stiff dry and laminated.	
4	SS-3	8 14 18 26	4-6	1.7/2	bkg			Same as above.	
6	SS-4	40 42 40 35	6-8	2/2	bkg			Same as above but with some gray clay mottling.	
8	SS-5	6 7 12 15	8-10	1.8/2	bkg	■		9.1' CLAY with fine sand and silt, moist until 9.75' then clay and pebbles from 9.8'-10.0'.	DP-002 Water came up to 8.85 below ground surface (bgs) after penetrating bedrock.
10	SS-6	6 8 10 30	10-12	1.5/2	bkg			Gray SILT AND CLAY with trace of fine sand and large pebbles (2" diameter), moist.	
12	SS-7	25 23 25 50/2"	12-14	1.8/2	bkg			Brown clayey SILT with some fine sand and gravel, trace of pebbles and large rock fragments, moist. 14.0'	
14	SS-8	50/4"	14-16	1/2	bkg			Fine to medium SAND, some gravel and fractured pieces of gray rock. Bottom of Boring @ 14.3' BGS (577.7' MSL).	
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-003
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/16/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 593.2 ft Mean Sealevel (MSL)
Total Depth 9.5 ft Below Ground Surface (BGS)
X-Location 388486.00
Y-Location 1133632.06
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 7 11	0-2	.8/1.5	5			Augered 6" then split spooned. Gray Brown SILTY CLAY with rootlets, slightly moist	
2	SS-2	16 25 38 40	2-4	1.5/2	bkg			Brown CLAY, laminated, some gray clay mottling, stiff and dry.	
4	SS-3	12 23 36 39	4-6	2/2	bkg			Same as above, then becoming more red brown after 1.4', stiff and dry.	
6	SS-4	33 39 49 42	6-8	2/2	bkg			Brown CLAY, laminated, stiff and dry.	
8	SS-5	7 12 18 50/1"	8-9.5	2/2	bkg	■		Same as above until 9.0 feet. 9.0' CLAY with some pebbles (1-2" diameter); moist, hit rock at 9.5 feet - possibly a boulder.	DP-003 Took a 2" diameter spoon at 9.5 feet but got little recovery.
10								Bottom of Boring @ 9.5' BGS.	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-004
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/16/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 593.6 ft Mean Sealevel (MSL)
Total Depth 16.4 ft Below Ground Surface (BGS)
X-Location 388383.98
Y-Location 1133630.55
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 12 14 18	0-2	1.8/2	bkg			Top 6" - Dark brown organic rich top soil then Yellow Brown CLAY with some silt; dry and stiff.	
2	SS-2	14 30 30 43	2-4	1.4/2	bkg			Brown CLAY with trace of silt - organic rich, many rootlets; dry, and laminated.	
4	SS-3	14 18 36 37	4-6	2/2	bkg			Brown CLAY with dessicated clay layers, laminated and dry.	
6	SS-4	45 48 50/3"	6-8	1.25/2	bkg			Red Brown CLAY, stiff, silt partings, laminated and dry.	
8	SS-5	6 12 14 21	8-10	2/2	bkg			Same as above.	
10	SS-6	5 9 11 12	10-12	2/2	bkg	■		Same as above	DP-004
								11.9	
12	SS-7	6 9 10 12	12-14	1.1/2	bkg			Brown CLAY, some gravel; moist. Brown CLAY with some gravel and medium to coarse (m-c) sand, large pebble (2" diam.) toward bottom; moist.	
14	SS-8	1 2 10 20	14-16	.7/2	bkg			Same as above - more rock fragments; clay and rock fragments effervesce when exposed to hydrochloric acid.	
16	SS-9	50/4"	16-18	.3/2	bkg			16.0' Rock fragments at bottom and in nose cone - wet. Water level probe sent down but no water located.	
18								Bottom of Boring @ 16.4' BGS.	

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-005
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/18/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 591.5 ft Mean Sealevel (MSL)
Total Depth 13 ft Below Ground Surface (BGS)
X-Location 388812.05
Y-Location 1133802.95
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	5 10 8 14	0-2	1.7/2	bkg			Top soil then Yellow Brown SILTY CLAY with gray clay mottling, some rootlets; moist.	
2	SS-2	16 22 24 41	2-4	1.5/2	bkg			Brown CLAY laminated, some dessicated clay sections, dry; stiff.	
4	SS-3	12 24 50/3"	4-6	2/2	bkg			Red Brown CLAY laminated, numerous zones of crystals in clay, crystals effervesce	
6									
	SS-4	7 11 15 22	7-9	2/2	bkg			Some more crystals then Brown CLAY, laminated with silt partings, stiff, slightly moist.	
8									
	SS-5	6 6 12 20	9-11	2/2	bkg			Red Brown CLAY laminated, stiff, slightly moist until 10.2 feet.	
10								10.2	DP-004
	SS-6	6 8 8 14	11-13	1.2/2	bkg			Red Brown CLAY some fine sand, gravel, and rounded pebbles, moist.	
12								Same as above with rock in nose cone.	
14								Bottom of boring @ 13.0' BGS.	
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

dkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-006
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/17/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 592.4 ft Mean Sealevel (MSL)
Total Depth 14.25 ft Below Ground Surface (BGS)
X-Location 388585.63
Y-Location 1133808.20
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	2 4 6 12	0-2	1.9/2	5			Dark Brown organic-rich top soil becoming very clayey toward bottom; moist.	
2	SS-2	10 18 20 30	2-4	1/2	bkg			2.0 Brown CLAY, laminated, with rootlets and some silt, slightly moist.	
4	SS-3	82 15 22 24	4-6	2/2	bkg			Same as above except sand size crystals found in the silt partings zone from 5.0-6.8 feet.	
6	SS-4	50 50 50/4"	6-8	.9/2	bkg			Brown CLAY, laminated, stiff and dry, rootlets.	
8	SS-5	11 31 37 43	8-10	2/2	bkg	■		Same as above.	
10	SS-6	1 5 9 14	10-12	2/2	bkg			Same as above.	
12	SS-7	10 11 11 13	12-14	2/2	bkg			Same as above until 13.0 feet. 13 Red Brown CLAY, some pebbles, gravel, and fine sand, moist.	DP-006
14	SS-8	50/3"	14-14.25	.5/2	bkg			14 Broken rock in tip.	
16								Bottom of Boring @ 14.25' BGS.	
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-007
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/17/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 591.6 ft Mean Sealevel (MSL)
Total Depth 10.0 ft Below Ground Surface (BGS)
X-Location 388506.25
Y-Location 1133804.95
Depth To Water 6.57 ft BGS
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 6 10 11	0-2	1.25/2	bkg			Top 5" - Dark brown topsoil then Brown SILTY CLAY with rootlets, slightly moist.	
2	SS-2	11 18 15 30	2-4	1.1/2	bkg			Trace of small pebbles; dry.	
4	SS-3	11 19 32 35	4-6	2/2	bkg			Brown clay, laminated, silt partings, stiff and dry.	
6	SS-4	32 35 36 36	6-8	2/2	bkg			Same as above but no silt partings, stiff and dry, some gray clay mottling.	
8	SS-5	7 11 14 13	8-10	2/2	bkg	■		Same as above until 9.6'. 9.6	DP-007 DP-007-GW Hydropunch driven from 9.5' to 12.5' bgs into rock like material. Water came up in augers to 6.57' bgs.
10								Becomes more moist. Bottom of Boring @ 10.0' BGS.	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-008
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/16-17/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 591.2 ft Mean Sealevel (MSL)
Total Depth 15.25 ft Below Ground Surface (BGS)
X-Location 388386.54
Y-Location 1133818.32
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	2 5 11 13	0-2	1.5/2	bkg			Top 0.5'-brown organic rich top soil with roots then Brown SILTY CLAY with rootlets, slightly moist.	
2	SS-2	11 17 25 38	2-4	1.7/2	bkg			Brown CLAY, laminated, stiff and dry, some rootlets.	
4	SS-3	18 20 46 47	4-6	2/2	bkg			Red Brown CLAY, laminated, dry and stiff.	
6	SS-4	34 21 32 32	6-8	2/2	bkg			Brown CLAY, laminated, silty clay from 6.9'-7.4', dry and stiff.	
8	SS-5	7 10 19 23	8-10	2/2	bkg	■		Same as above until 9.1'. 9.1' Red Brown CLAY some gravel, medium to coarse sand, and pebbles, moist.	DP-008
10	SS-6	12 11 12 13	10-12	1/2	bkg			Same as above except more 1/2" diameter rounded pebbles, very moist.	
12	SS-7	8 12 12 13	12-14	1/2	bkg			Same as above. 13.75	
14	SS-8	20 32 50/4"	14-15.25	.5/2	bkg			Fractured gray rock. Same as above - rock in tip.	
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-009
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/18/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 592 ft Mean Sealevel (MSL)
Total Depth 12 ft Below Ground Surface (BGS)
X-Location 388814.56
Y-Location 1133945.69
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 3 7 14	0-2	1.2/2	NR			Brown CLAY with some roots; moist.	
2	SS-2	4 7 11 13	2-4	1.5/2	NR			Brown CLAY, laminated, stiff and dry.	
4	SS-3	11 21 28 31	4-6	2/2	NR			Red Brown CLAY, laminated, gray clay seams, some organic pieces, stiff and dry.	
6	SS-4	4 8 7 9	6-8	2/2	NR			Same as above.	
8	SS-5	4 9 9 15	8-10	2/2	NR	■		Same as above until 9.7. 9.7	DP-009
10	SS-6	1 4 6 7	10-12	.9/2	NR	■		Red Brown CLAY, some pebbles, gravel, and fine sand, moist. large pebble (3" diameter) found in tip. Same as above.	
12								Bottom of Boring @ 12.0' BGS.	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-010
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/21/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 593.2 ft Mean Sealevel (MSL)
Total Depth 13 ft Below Ground Surface (BGS)
X-Location 388666.09
Y-Location 1133958.88
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	1 2 8 14	0-2	1.6/2	NR			Top soil then Yellow Brown SILTY CLAY, slightly moist.	
2	SS-2	12 16 28 28	2-4	0/2	NR			No sample.	
4	SS-3	15 23 40 50	4-6	2/2	NR			Brown CLAY, laminated, stiff and dry.	
6	SS-4	16 18 19 24	7-9	2/2	NR			Red Brown CLAY, laminated, silt partings, some gray clay mottling, stiff and dry.	
8	SS-5	7 9 9 8	9-11	2/2	NR			Same as above except more moist at bottom.	
10	SS-6	7 8 8 7	11-13	2/2	NR	■		11.85'	DP-010
12								Red Brown CLAY, some pebbles, gravels, and trace of fine sand; very moist.	
14								Bottom of Boring @ 13.0' BGS.	
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-011
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/21/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 592.1 ft Mean Sealevel (MSL)
Total Depth 12 ft Below Ground Surface (BGS)
X-Location 388524.64
Y-Location 1133956.37
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 4 6 8	0-2	1.6/2	bkg			Top soil then Brown SILTY CLAY, stiff and dry.	
2	SS-2	14 22 30 35	2-4	1.5/2	bkg			2.0' Brown CLAY, stiff and dry.	
4	SS-3	16 24 28 32	4-6	2/2	bkg			Red Brown CLAY, laminated with silt partings, stiff and dry.	
6	SS-4	40 40 45 43	6-8	2/2	NR			Same as above	
8	SS-5	12 14 14 13	8-10	2/2	NR			Same as above	
10	SS-6	6 5 6 6	10-12	2/2	bkg	■		11.5 Red Brown CLAY, some pebbles, gravel, and fine sand, very moist.	DP-011
12								Bottom of Boring @ 13.0'.	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-012
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/22/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 592.0 ft Mean Sealevel (MSL)
Total Depth 8.25 ft Below Ground Surface (BGS)
X-Location 388818.55
Y-Location 1134123.95
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	2 4 6 12	0-2	1.3/2	bkg			Top soil mixed with Black coal-like FILL material for first 0.5' - small piece of black, formed, plastic like material. 0.5'	
2	SS-2	12 14 23 26	2-4	1.6/2	bkg			Yellow Brown SILTY CLAY, dry. 2.0' Brown CLAY, laminated, silt partings; stiff and dry.	
4	SS-3	12 20 38 26	4-6	2/2	bkg			Red Brown CLAY, laminated, stiff and dry.	
6	SS-4	50 45 38 42	6-8	1.65/2	bkg	■		7.55	DP-012
8	SS-5	50/4"	8-8.25	.25/2	bkg			Red CLAY, some pebbles, gravel, and fine sand; moist. Bottom of Boring @ 8.25' BGS.	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-013
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/22/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 594.1 ft Mean Sealevel (MSL)
Total Depth 13.0 ft Below Ground Surface (BGS)
X-Location 388674.00
Y-Location 1134134.86
Depth To Water 5.7 ft BGS
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	5 4 5 4	0-2	1.5/2	bkg			Top soil mixed with black coal-like FILL.	
2	SS-2	4 6 3 4	2-4	1.7/2	bkg			Black coal-like FILL, some fine sand and clay and pieces of solid black plastic-like material, moist.	DP-013B
4	SS-3	5 3 2 3	4-6	1.35/2	bkg			Same as above; wet	
6	SS-4	6 7 7 7	6-8	1.4/2	bkg			7.0' Black SILTY CLAY, moist, becoming more clay at bottom - organics and roots in this zone.	DP-013-GW Perched water at 5.7 feet, hole open to 7.4 feet.
8	SS-5	5 10 24 38	9-11	2/2	bkg			9.3' Becoming Brown CLAY, stiff and dry at 9.3 feet.	
10	SS-6	22 23 27 30	11-13	2/2	bkg			Same as above except silt partings, laminated - some fine sand in silt partings, stiff and dry. 13.0'	DP-013
12								Bottom of Boring @ 13.0' BGS.	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-014
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/22/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 592.3 ft Mean Sealevel (MSL)
Total Depth 12.0 ft Below Ground Surface (BGS)
X-Location 388546.74
Y-Location 1134130.74
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	26 45 48	0-2	1/2	bkg			First 0.5' - asphalt - then gray sandy gravel FILL.	
2	SS-2	50/4"	2-4	.5/2	bkg			Some gravel FILL - large piece of wood in nose cone - poor recovery.	
4	SS-3	9 4 6 9	4-6	1.5/2	bkg			FILL; plastic mixed with black fine sand and metallic shavings, dry.	
								6.0'	
6	SS-4	14 16 20 25	6-8	2/2	bkg			Gray Black SILTY CLAY, rootlets, minor amounts of white powder from 6.6' to 6.8', dry.	
8	SS-5	7 17 24 21	8-10	2/2	bkg			8'-8.25' - black plastic-like pieces mixed with dark brown sand and pebbles	
								8.25'	
								Brown CLAY, laminated, stiff and dry.	
10	SS-6	7 11 15 14	10-12	2/2	bkg			Red Brown CLAY; laminated.	DP-014
								11.5'	
12								Red brown clay with gravel, pebbles, and sand; very moist.	
								Bottom of Boring @ 12.0' BGS.	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-015
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/23/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 592.3 ft Mean Sealevel (MSL)
Total Depth 11.0 ft Below Ground Surface (BGS)
X-Location 388392.12
Y-Location 1134120.13
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	6 7 10 12	0-2	1/2	NR			Top soil, then Red Brown SILTY CLAY with roots.	
2	SS-2	15 26 43 43	2-4	1.5/2	NR			2.0' Brown CLAY with silt partings, dry and stiff.	
4	SS-3	35 50/4"	4-6	1/2	NR			Same as above.	
6									
	SS-4	26 32 32 16	7-9	2/2	NR			Same as above	
8									
	SS-5	26 17 35 10	9-11	2/2	NR	■			DP-015
10								10.65' Red Brown CLAY, some pebbles, gravel, and fine sand, very moist.	
12								Bottom of Boring @ 12.0' BGS.	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-016
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/22/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 590.9 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 388820.53
Y-Location 1134277.30
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	25 15 40	0-2	.5/2	NR			First 0.5' - asphalt - then gray sandy gravel FILL, dry.	
2	SS-2	15 24 30 25	2-4	1.3/2	.5			2.0' Red Brown CLAY, laminated, dry and stiff.	
4	SS-3	21 36 31 33	4-6	2/2	bkg			Same as above.	
6	SS-4	23 20 23 33	6-8	2/2	bkg	■			DP-016
8								7.5' Red Brown CLAY, some gravel, pebbles, and sand, very moist. Bottom of Boring @ 8.0' BGS.	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-017
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/28/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 594.3 ft Mean Sealevel (MSL)
Total Depth 10.0 ft Below Ground Surface (BGS)
X-Location 388682.50
Y-Location 1134292.45
Depth To Water 6.0 ft BGS
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 13 8 8	0-2	1.5/2	bkg			Top soil changing to black coal-like FILL, some fine sand and black plastic-like material, dry.	
2	SS-2	43 38 24 18	2-4	1.7/2	bkg			Same as above.	DP-017B
4	SS-3	6 4 4 6	4-6	1.5/2	bkg			Same as above.	
6	SS-4	10 12 14 11	6-8	1.6/2	bkg			Same as above except wet. 6.9' Brown SILTY CLAY with roots; moist.	Some perched water at 6', not enough for sample.
8								8.0' Red Brown CLAY, some gray clay mottling, silt partings, stiff and dry.	
	SS-5	4 16 12 11	9-11	1.7/2	bkg			11.0'	DP-017
12								Bottom of Boring @ 11.0' BGS.	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-018
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/28/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 594.4 ft Mean Sealevel (MSL)
Total Depth 12.0 ft Below Ground Surface (BGS)
X-Location 388581.57
Y-Location 1134266.28
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	8 7 10	0-2	.5/2	bkg			First 0.5' - asphalt - then gray sandy gravel FILL, dry.	
2	SS-2	20 16 19 19	2-4	1.5/2	bkg	■		Gray silty clay and fine sand FILL mixed with granules of white powder AT 2.6'. Black coal-like FILL, moist from 2.8' to 4.6'.	DP-018b
4	SS-3	4 7 13 16	4-6	1.8/2	bkg			4.6' Brown CLAY, stiff and dry.	
6	SS-4	21 26 42 20	6-8	2/2	bkg			Red Brown CLAY, laminated with silt partings, stiff and dry, a few pebbles at bottom.	
8	SS-5	12 25 30 30	8-10	2/2	bkg			Same as above except no pebbles.	
10	SS-6	31 20 33 30	10-12	2/2	bkg	■		Same as above except more moist toward bottom.	DP-018
12								Bottom of Boring @ 12.0' BGS.	
14									
16									
18									

COM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-019
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/28/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 590.8 ft Mean Sealevel (MSL)
Total Depth 12.0 ft Below Ground Surface (BGS)
X-Location 388436.32
Y-Location 1134280.55
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	12 14 20 22	0-2	1.5/2	bkg			Brown SILT AND CLAY FILL, organics, some pebbles and black coal-like pieces at bottom half foot.	
2	SS-2	9 9 11 13	2-4	1.6/2	bkg			Brown SILTY CLAY FILL with black coal-like pieces and black staining - pieces of wood.	
4	SS-3	13 13 11 10	4-6	1.0/2	bkg			Brown CLAY FILL with pieces of black plastic-like material. 6.0'	
6	SS-4	4 6 9 13	6-8	1.0/2	bkg			Red Brown CLAY, laminated, stiff and dry.	
8	SS-5	8 11 10 13	8-10	1.0/2	bkg			9.4'	
10	SS-6	6 10 33 31	10-12	1.5/2	bkg	■		Red brown clay with pebbles, gravel, and sand; moist. Same as above but with large pebbles (2-3" diameter), less moist than above.	DP-019
12								Bottom of Boring @ 12.0' BGS.	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-020
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/23/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 591.5 ft Mean Sealevel (MSL)
Total Depth 10.0 ft Below Ground Surface (BGS)
X-Location 388824.04
Y-Location 1134436.10
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	5 4 3 5	0-2	.5/2	bkg			Top soil mixed with 1" of black silty sand, possibly stained then Brown CLAY, stiff. Piece of black plastic-like material observed.	
2	SS-2	3 2 3 3	2-4	.5/2	bkg			Brown CLAY, some black staining	
4	SS-3	3 4 7 12	4-6	2/2	bkg			Gray-brown SILTY CLAY, very soft and moist - organics and pea-sized gravel in clay partings.	
6	SS-4	11 15 14 26	6-8	2/2	bkg			6.6' Brown CLAY, laminated - stiff and hard.	
8	SS-5	8 14 14 14	8-10	2/2	bkg	■		Red Brown CLAY, laminated 9.8'	DP-020
10								Red Brown CLAY some pebbles, gravel, and sand; very moist. Bottom of Boring @ 10.0'.	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-021
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/29/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 594.3 ft Mean Sealevel (MSL)
Total Depth 12 ft Below Ground Surface (BGS)
X-Location 388767.29
Y-Location 1134896.63
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 7 11 18	0-2	1.8/2	bkg			Brown SILTY CLAY, some roots, moist. 2.0'	DP-021-SS
2	SS-2	20 23 33 38	2-4	1.9/2	bkg			Red Brown CLAY, laminated, with brown mottling, some roots, dry.	
4	SS-3	11 20 25 47	4-6	2/2	bkg			Same as above except silt partings, dry and stiff.	
6	SS-4	35 40 38 46	6-8	2/2	bkg			Same as above, becoming brown toward bottom.	
8	SS-5	8 10 12 14	8-10	2/2	bkg			Becoming more moist at bottom - some fine sand and a pebble at bottom.	
10	SS-6	5 6 14 16	10-12	2/2	bkg			11.5' Red brown CLAY some pebbles, gravel, and fine sand, very moist. Bottom of Boring @ 12.0' BGS.	DP-021
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-022
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/29-30/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 595.1 ft Mean Sealevel (MSL)
Total Depth 10 ft Below Ground Surface (BGS)
X-Location 388623.75
Y-Location 1134887.85
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 6 12 8	0-2	1.8/2	bkg			Top soil then Yellow Brown SILTY CLAY, some roots, soft and moist. 2.0'	DP-022-SS
2	SS-2	5 7 11 14	2-4	1.6/2	bkg			Red Brown CLAY, laminated, stiff and dry.	
4	SS-3	15 25 40 53	4-6	2/2	bkg			Same as above except silt partings.	
6	SS-4	7 11 19 22	6-8	2/2	bkg			Same as above. 7.6	
8	SS-5	16 22 31 24	8-10	1.3/2	bkg			Red Brown CLAY becoming soft and moist at 7.6' - some fine sand in nose cone. Red Brown CLAY some pebbles, gravel, and fine, medium to coarse (f-m-c) sand; moist - some gray rock fragments in bottom and in tip.	DP-022
10								Bottom of Boring @ 10.0'	
12									
14									
16									
18									

COM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-023
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/30/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 594.5 ft Mean Sealevel (MSL)
Total Depth 12 ft Below Ground Surface (BGS)
X-Location 388472.85
Y-Location 1134896.51
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 9 12 20	0-2	1.5/2	bkg			Brown SILTY CLAY, some organics, moist.	DP-023-SS
2	SS-2	9 9 11 15	2-4	1/2	bkg			Brown CLAY, stiff and dry, silt partings and gray clay mottling - laminated.	
4	SS-3	12 19 26 38	4-6	2/2	bkg			Same as above, more red brown.	
6	SS-4	40 35 35 36	6-8	2/2	bkg			Same as above, except some fine sand partings - moist in partings.	
8	SS-5	10 17 24 40	8-10	1.3/2	bkg			Red brown CLAY - moist layer at 9.8', then moist to wet in tip. 10.0'	
10	SS-6	6 24 25 22	10-12	1/2	bkg			Red Brown CLAY, some pebbles, gravel, and f-m-c sand, very moist. 12.0'	DP-023
12								Bottom of Boring @ 12.0' BGS.	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-024
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 12/1/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 597.7 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 388764.91
Y-Location 1135189.33
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	6 7 11 12	0-2	1.2/2	bkg			Brown SILTY CLAY becoming all CLAY at bottom, slightly moist. 2.0'	DP-024-SS
2	SS-2	5 7 9 1	2-4	1/2	bkg			Brown CLAY, laminated, stiff and dry, becoming red brown at bottom.	
4	SS-3	14 18 20 21	4-6	2/2	bkg			Red Brown CLAY, laminated, with silt partings stiff and dry.	
6	SS-4	21 22 23 23	6-8	2/2	bkg			Same as above. 7.1	DP-024
8								Red Brown CLAY, some pebbles, gravel, and f-m-c sand, very moist. Bottom of Boring @ 8.0' BGS.	
10									
12									
14									
16									
18									

COM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-025
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/30/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 595.7 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 388626.20
Y-Location 1135041.44
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 5 8 15	0-2	1.7/2	bkg			Brown SILTY CLAY becoming all CLAY at bottom; slightly moist. 2.0'	DP-025-SS
2	SS-2	6 7 9 15	2-4	1.6/2	bkg			Red Brown CLAY with silt partings, stiff and dry.	
4	SS-3	16 20 30 50/1"	4-6	2/2	bkg			Same as above, some sand in bottom 6.0'	
6	SS-4	21 24 24 26	6-8	1.7/2	bkg			Red Brown CLAY, some pebbles, gravel, and f-m-c sand; moist.	DP-025
8								Bottom of Boring @ 8.0' BGS.	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-026
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/30/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 595.5 ft Mean Sealevel (MSL)
Total Depth 11 ft Below Ground Surface (BGS)
X-Location 388475.55
Y-Location 1135042.24
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 6 10 9	0-2	1.7/2	bkg			Brown SILTY CLAY, roots, becoming all CLAY at bottom; dry.	DP-026-SS
2								2.0'	
	SS-2	8 11 15 15	2-4	1.8/2	bkg			Brown CLAY, laminated, silt partings; stiff and dry, drop stone noted.	
4	SS-3	7 23 25 23	4-6	1.6/2	bkg			Same as above except more red brown at bottom.	
6									
	SS-4	11 16 17 19	7-9	2/2	bkg			Same as above, parting at 7.9' contains f-m sand; moist.	
8									
	SS-5	12 16 22 17	9-11	2/2	bkg				DP-026
10								Red Brown CLAY, some pebbles, gravel, and f-m-c sand; very moist.	
12								Bottom of Boring @ 11.0' BGS.	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-027
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 12/1/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 597.7 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 388779.49
Y-Location 1135333.01
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
0	SS-1	4 8 11 17	0-2	1.7/2	bkg			Brown SILTY CLAY, becoming all clay at bottom; slightly moist. 2.0'	DP-027-SS
2	SS-2	5 10 10 15	2-4	1.8/2	bkg			Brown CLAY, laminated, stiff and dry.	
4	SS-3	12 24 28 32	4-6	2/2	bkg			Same as above except more red brown - moist area at 5.7'.	
6	SS-4	28 36 32 28	6-8	2/2	bkg			Same as above. 7.7'	DP-027
8								Red brown CLAY, some pebbles, gravel, and f-m-c sand; very moist. Bottom of Boring @ 8.0' BGS.	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-028
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 12/1/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 596.7 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 388629.43
Y-Location 1135191.56
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 7 12 20	0-2	1.6/2	bkg			Brown SILTY CLAY becoming brown gray CLAY at bottom, slightly moist.	DP-028-SS
								2.0'	
2	SS-2	7 13 15 17	2-4	1/2	bkg			Red Brown CLAY, laminated, stiff and dry.	
4	SS-3	13 18 27 27	4-6	2/2	bkg			Same as above except moist in two silt partings.	
6	SS-4	21 21 36 36	6-8	2/2	bkg			Same as above.	DP-028
								6.65'	
								Red Brown CLAY, some pebbles, gravel, and f-m-c sand, very moist.	
8								Bottom of Boring @ 8.0' BGS.	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-029
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 12/1-2/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 595.8 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 388485.03
Y-Location 1135197.11
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	2 8 10 12	0-2	1.5/2	bkg			Gray organic SILTY CLAY with rootlets. 0.9' Yellow Brown CLAY, moist.	DP-029-SS
2	SS-2	4 7 10 12	2-4	1/2	bkg			brown CLAY, laminated, silt partings, stiff and dry.	
4	SS-3	18 30 37 33	4-6	2/2	bkg			Same as above.	
6	SS-4	30 30 31 23	6-8	2/2	bkg			Same as above. 7.6'	DP-029
8								Red Brown CLAY, some pebbles, gravel, and f-m-c sand, very moist. Bottom of Boring @ 8.0' BGS.	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-030
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 12/1-2/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 595.6 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 388777.70
Y-Location 1135035.67
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	5 8 11 13	0-2	1.5/2	bkg			Dark brown SILTY CLAY becoming brown CLAY; slightly moist for last 0.5'. 2.0'	DP-030-SS
2	SS-2	5 9 12 15	2-4	1/2	bkg			Brown CLAY, laminated, silt partings, stiff and dry.	
4	SS-3	20 30 45 50	4-6	2/2	bkg			Same as above except more red brown - some gray clay mottling.	
6	SS-4	33 28 26 21	6-8	2/2	bkg			Same as above, some fine sand partings at bottom. 8.0'	DP-030
8	SS-5	13 25 30 25	8-10	.4/2	bkg			Red Brown CLAY, some fine sand and a few pebbles, moist.	
10								Bottom of Boring @ 10.0' BGS.	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-031
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 12/1/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 597.4 ft Mean Sealevel (MSL)
Total Depth 12 ft Below Ground Surface (BGS)
X-Location 388628.58
Y-Location 1135338.58
Depth To Water 7.8 Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	2 6 9 15	0-2	1.9/2	bkg			Top soil then Yellow Brown SILTY CLAY, more clay-like at bottom. 2.0'	DP-031-SS
2	SS-2	5 7 10 14	2-4	1.6/2	bkg			Gray Brown CLAY, laminated, stiff and dry.	
4	SS-3	9 20 27 31	4-6	2/2	bkg			Same as above.	
6	SS-4	37 53 53 45	6-8	2/2	bkg			Becoming Red Brown CLAY, silt partings, slightly moist.	
8	SS-5	10 12 15 27	8-10	2/2	bkg			Same as above except with sand, silt and a pebble in nose cone, wet.	DP-031-GW - Water came up to 7'10" bgs.
10	SS-6	15 22 45 50/3"	10-12	2/2	bkg			Red Brown CLAY with pebbles (some rounded some angular), gravel, f-m-c sand; wet. Water in hole. Gray fine grained rock fragment in nose cone.	DP-031
12								Bottom of Boring @ 12.0' BGS.	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-032
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 12/2/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 596.7 ft Mean Sealevel (MSL)
Total Depth 10 ft Below Ground Surface (BGS)
X-Location 388528.70
Y-Location 1135346.09
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 5 12 19	0-2	1.2/2	bkg			Brown organic SILTY CLAY with roots, moist. 2.0'	DP-032-SS
2	SS-2	5 9 11 11	2-4	1/2	bkg			Brown CLAY, laminated, with silt partings, stiff and dry.	
4	SS-3	12 18 30 31	4-6	2/2	bkg			Same as above.	
6	SS-4	45 45 45 35	6-8	2/2	bkg			Becoming Red Brown CLAY.	
8	SS-5	8 10 11 14	8-10	2/2	bkg			Same as above except f-m-c sand in nose cone; moist. 9.7'	DP-032
10								Bottom of Boring @ 10.0' BGS.	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-033
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/29/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 593.2 ft Mean Sealevel (MSL)
Total Depth 12 ft Below Ground Surface (BGS)
X-Location 388683.60
Y-Location 1134443.32
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 4 4 9	0-2	1.2/2	bkg			Top soil then Brown SILTY CLAY with pieces of black coal-like material and white granules, slightly moist and soft.	DP-033-SS
2	SS-2	10 15 20 25	2-4	1/2	bkg			Same as above, very soft but with less black material and white granules - change at 3'.	
								3.0'	
4	SS-3	20 26 40 50	4-6	2/2	bkg			Red Brown CLAY, stiff and dry. Same as above, some rootlets, two black pebbles at bottom, laminated, stiff and dry.	
6	SS-4	45 50 58 54	6-8	2/2	bkg			Same as above.	
8	SS-5	13 12 15 18	8-10	2/2	bkg			Same as above then change at 11.1'.	
10	SS-6	10 12 12 17	10-12	1.4/2	bkg				DP-033
								11.1'	
12								Red Brown CLAY some pebbles gravel, and fine sand, very soft and moist.	
								Bottom of Boring @ 12.0' BGS.	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name DP-034
Project Forest Glen RI/FS
Location Niagara Falls, N.Y.
Date Drilled 11/29/94
Geologist Michael Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 593.0 ft Mean Sealevel (MSL)
Total Depth 10 ft Below Ground Surface (BGS)
X-Location 388559.55
Y-Location 1134444.53
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	30	0-2	1/2	bkg			First 0.5'- asphalt then Gray SAND and SILT with pebbles; dry.	DP-034-SS
		60							
		50							
2	SS-2	45	2-4	0.5/2	bkg			Same as above but mixed with some white and yellow powder and black coal-like material; dry - not enough for sample - pieces of wood and large rock in nose cone.	
		35							
		26							
		20							
4	SS-3	11	4-6	1.5/2	bkg			Same as above.	DP-034B
		9							
		12						Change to Gray SILTY CLAY, Brown CLAY mottling; soft and moist - organic looking.	
		20							
6	SS-4	25	6-8	2/2	bkg			Brown Gray CLAY; stiff and dry.	
		35							
		33							
		35							
8	SS-5	12	8-10	2/2	bkg			Red Brown CLAY.	DP-034
		17							
		19						9.3	
		40						Red Brown CLAY, some pebbles, gravel, and fine sand, very soft and moist.	
10								Bottom of Boring @ 10.0' BGS.	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

APPENDIX F

SOIL BORING LOGS

Boring Name: Berm-1
Project: FOREST GLEN RI/FS
Location: NIAGARA FALLS, NEW YORK
Date Drilled: 06/19/95
Geologist: Mike Valentino
Drilling Method: Hollow Stem Auger 3" Spoons

Surface Elevation: 608.1 ft Mean Sealevel (MSL)
Total Depth: 16 ft Below Ground Surface (BGS)
X-Location: 388422.21
Y-Location: 1135739.58
Depth To Water: Not Encountered
Organic Vapor Instrument: HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	2 2 3 4	0-2	1.4/2	bkg			Reddish Brown Silty Clay FILL; dry.	
2	SS-2	9 7 11 7	2-4	1.6/2	bkg			Same FILL; more gray clay infilling.	
								4.0'	
4	SS-3	4 5 8 7	4-6	1.8/2	bkg			Brown silty clay FILL; some coal-like pieces possibly waste, small pieces of orange resin.	
6	SS-4	5 6 8 7	6-8	1.1/2	bkg			Same FILL; pieces of black material, decomposing wood and white chalky substance.	
8	SS-5	3 2 3 3	8-10	0.9/2	bkg			Same FILL; less black pieces, wood fragments.	
10	SS-6	1 1 2 2	10-12	NR	bkg			Burnt wood chips in tip.	
								12.0'	
12	SS-7	4 6 8 8	12-14	1.8/2	bkg			Reddish Brown and Gray CLAY; stiff.	
14	SS-8	6 11 14 16	14-16	1.8/2	bkg	■		Reddish Brown CLAY; some gray clay infilling; dry & stiff.	Berm-1
								16.0'	
16								Bottom of Boring @ 16.0' BGS (592.1' MSL).	
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name: Berm-2
Project: FOREST GLEN RI/FS
Location: NIAGARA FALLS, NEW YORK
Date Drilled: 06/19/95
Geologist: Mike Valentino
Drilling Method: Hollow Stem Auger 3" Spoons

Surface Elevation: 608.4 ft Mean Sealevel (MSL)
Total Depth: 18 ft Below Ground Surface (BGS)
X-Location: 388417.37
Y-Location: 1135471.96
Depth To Water: Not Encountered
Organic Vapor Instrument: HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 4 2 3	0-2	1.1/2	bkg			Brown Silty Clay FILL; some organics; dry.	
2	SS-2	5 8 8 11	2-4	1.4/2	bkg			Same; FILL. 2.5' Dark Brown Silt and Clay FILL with black pieces, yellow and white powder.	
4	SS-3	4 5 14 24	4-6	1.2/2	bkg			Same; FILL, yellow & white staining dry.	Berm-2A
6	SS-4	7 20 22 10	6-8	NR	bkg			Same: FILL, rock in tip.	
8	SS-5	5 5 7 7	8-10	1.6/2	bkg			Black stained Silty Clay FILL, numerous black pieces and white powder - moist.	Berm-2
10	SS-6	6 11 10 10	10-12	0.9/2	bkg			Same as above.	
12	SS-7	6 6 9 9	12-14	1.4/2	bkg			Black FILL; wet - some perched water - black stained clay & reddish brown clay at bottom - some black pieces. 14.0'	
14	SS-8	3 6 11 17	14-16	0.4/2	bkg			Brown CLAY; moist.	
16	SS-9	11 11 12 14	16-18	1/2	bkg			Reddish Brown CLAY; moist.	
18								Bottom of Boring @ 18.0' (590.4' MSL).	

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name: Berm-3
Project: FOREST GLEN RI/FS
Location: NIAGARA FALLS, NEW YORK
Date Drilled: 06/20/95
Geologist: Mike Valentino
Drilling Method: Hollow Stem Auger 3" Spoons

Surface Elevation: 608.0 ft Mean Sealevel (MSL)
Total Depth: 18 ft Below Ground Surface (BGS)
X-Location: 388418.91
Y-Location: 1135228.29
Depth To Water: Not Encountered
Organic Vapor Instrument:

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 2 5 5	0-2	1.2/2	bkg			Brown Silty Clay FILL; dry.	
2	SS-2	4 8 8 12	2-4	1.4/2	bkg			Same; FILL.	
4	SS-3	8 10 10 9	4-6	1/2	bkg			4.5' Same; FILL - mixed with black pieces and white powder.	
6	SS-4	7 7 7 8	6-8	0.6/2	bkg			Same; FILL, yellow resin piece.	
8	SS-5	7 5 8 8	8-10	0.4/2	bkg			Same; FILL, pebbles, mostly black stained for last 3".	
10	SS-6	N/A	10-12	1.6/2	bkg	■		Same; FILL, black pieces & rock fragments; dry.	Berm - 3A
12	SS-7	8 9 11 11	12-14	0.4/2	bkg			Same; FILL, poor recovery.	
14	SS-8	19 11 15 21	14-16	1.6/2	bkg			14.5' Brown SILTY CLAY; dry, stiff.	
16	SS-9	30 32 43 41	16-18	2/2	bkg	■		Becoming Reddish Brown CLAY with gray infilling dry; stiff.	Berm-3
18								Bottom of Boring @ 18.0' BGS (590.0' MSL).	

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name: Berm-4
Project: FOREST GLEN RI/FS
Location: NIAGARA FALLS, NEW YORK
Date Drilled: 06/20/95
Geologist: Mike Valentino
Drilling Method: Hollow Stem Auger 3" Spoons

Surface Elevation: 607.1 ft Mean Sealevel (MSL)
Total Depth: 16 ft Below Ground Surface (BGS)
X-Location: 388413.60
Y-Location: 1134981.00
Depth To Water: Not Encountered
Organic Vapor Instrument: HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	2 3 3 2	0-2	1.3/2	bkg			Brown SILTY CLAY FILL, some fine gravel - dry.	
2	SS-2	3 3 4 3	2-4	1.3/2	bkg			Same; FILL, higher percentage of reddish brown clay.	
								4.0'	
4	SS-3	13 7 7 6	4-6	1.5/2	bkg			Brown SILTY CLAY FILL with gray mottling - dry.	
6	SS-4	6 6 9 9	6-8	0.9/2	bkg			Brown silty clay with decomposed wood pieces some black staining & fine gravel - soft.	
8	SS-5	3 5 8 11	8-10	1.7/2	bkg			Same; FILL for 1st 0.5' then black pieces & staining to bottom - large diameter pebbles.	
10	SS-6	4 5 8 6	10-12	1.8/2	bkg			Brown SILTY CLAY FILL, black staining 1st 0.3' then black stained clay w/black pieces to bottom - slightly moist.	
12	SS-7	9 9 13 16	12-14	2/2	bkg	■		12.5'	Berm-4
								Becoming Dark Brown SILT AND CLAY, organics - slightly moist.	
14	SS-8	6 8 9 12	14-16	1.8/2	bkg			Reddish Brown CLAY with gray mottling - slightly moist.	
16								Bottom of Boring @ 16.0' BGS (591.1' MSL).	
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name: Berm-5
Project: FOREST GLEN RI/FS
Location: NIAGARA FALLS, NEW YORK
Date Drilled: 06/20/95
Geologist: Mike Valentino
Drilling Method: Hollow Stem Auger 3" Spoons

Surface Elevation: 599.9 ft Mean Sealevel (MSL)
Total Depth: 10 ft Below Ground Surface (BGS)
X-Location: 388411.14
Y-Location: 1134741.38
Depth To Water: Not Encountered
Organic Vapor Instrument: HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 5 5 6	0-2	1.1/2	bkg			Brown SILT AND CLAY FILL, some fine gravel & brick pieces, dry. 2.0'	
2	SS-2	5 7 7 9	2-4	1.4/2	bkg			Brown SILTY CLAY FILL, organics & iron staining, some black staining at bottom, dry.	
4	SS-3	6 9 7 8	4-6	1.4/2	bkg			Same; FILL. 5.0' Reddish Brown CLAY; gray clay mottling, soft, dry.	
6	SS-4	8 8 10 11	6-8	1.6/2	bkg			Same; some organic rootlets in tip.	
8	SS-5	10 13 20 22	8-10	2/2	bkg	■		Reddish Brown SILTY CLAY, gray clay infilling, dry & stiff.	Berm-5
10								Bottom of Boring @ 10.0' BGS (589.9' MSL).	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-01
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/20/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 594.4 ft Mean Sealevel (MSL)
Total Depth 10.2 ft Below Ground Surface (BGS)
X-Location 388561.60
Y-Location 1134857.02
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 5 8 8	0-2	1.6/2	bkg			Brown CLAY,iron staining, stiff & dry.	SB-01SS
2	SS-2	3 5 7 8	2-4	2/2	bkg			2.5' Becoming Reddish Brown SILTY CLAY.	
4	SS-3	6 10 15 15	4-6	2/2	bkg			Reddish Brown SILTY CLAY, numerous silt partings toward bottom.	
6	SS-4	10 20 18 19	6-8	2/2	bkg			Same; softer and more moist specially in tip.	
8	SS-5	6 9 11 13	8-10	2/2	bkg			8.5' Red Brown CLAY, SILT AND SAND, some gravel, wet.	SB-01
10	SS-6	.2/50	10-12	0.2/2	bkg			10.2' Hit rock at 10.2' no water. Bottom of Boring @ 10.2' BGS (584.2' MSL).	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-02
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/21/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger 3" Spoons

Surface Elevation 598.5 ft Mean Sealevel (MSL)
Total Depth 15.6 ft Below Ground Surface (BGS)
X-Location 388458.46
Y-Location 1135600.83
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	6 9 10 7	0-2	0.5/2	bkg			Brown SILTY CLAY, some pebbles, dry.	SB-02SS COMPOSITE 0-4'
2	SS-2	4 7 8 10	2-4	1.1/2	bkg			Reddish Brown SILTY CLAY, some gray clay mottling, dry.	
4	SS-3	3 2 3 3	4-6	0.2/2	bkg			Same. 6.0'	
6	SS-4	3 3 7 10	6-8	0.5/2	bkg			Wet cardboard mixed with FILL - cardboard caught in tip reducing recovery. Moist	Perched Water at 4.7'
8	SS-5	3 4 6 9	8-10	0.4/2	bkg			Wet cardboard blocking tip, water coming in.	
10	SS-6	3 3 4 3	10-12	0.4/2	bkg			Same as above wet.	Driller felt change to harder material at 9.5'.
12	SS-7	4 6 8 6	12-14	NR	bkg			Rock in tip. 14.0'	
14	SS-8	8 10 12 .1/50	14-16	0.6/2	bkg			Red Brown CLAY, SILT, SAND, AND GRAVEL, wet.	
16								Bottom of Boring @ 16.0' BGS (582.5' MSL).	
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-03
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/21/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger 3" Spoons

Surface Elevation 598.6 ft Mean Sealevel (MSL)
Total Depth 14 ft Below Ground Surface (BGS)
X-Location 388479.85
Y-Location 1135811.91
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 7 6 6	0-2	1.6/2	bkg			Brown SILTY CLAY.	SB-03SS
								2.0'	
2	SS-2	5 4 1 6	2-4	1.0/2	bkg			Black stained FILL, clayey.	
4	SS-3	2 2 4 8	4-6	1.1/2	bkg			Same; FILL, except more black pieces (cork) 3" of cardboard in tip, some burnt.	
6	SS-4	4 5 7 5	6-8	0.4/2	bkg			FILL, Cardboard, wet, some burnt.	
8	SS-5	4 5 8 12	8-10	1.0/2	bkg			Same; FILL.	
10	SS-6	7 8 5 12	10-12	0.6/2	bkg			11.5'	
12	SS-7	9 15 27 33	12-14	1.1/2	bkg			Reddish Brown SILTY CLAY.	SB-03
								12.0'	
								Reddish Brown SILTY CLAY, some Sand and Gravel, moist. Two large cobbies present.	
14								Bottom of Boring @ 14.0' BGS (584.6' MSL).	
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-04
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/21/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 592.5 ft Mean Sealevel (MSL)
Total Depth 12 ft Below Ground Surface (BGS)
X-Location 388874.77
Y-Location 1134432.26
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 6 5 4	0-2	2/2	bkg			Brown silty clay. 1.6'	SB-04SS
2	SS-2	4 5 5 5	2-4	1.0/2	bkg			Black stained FILL. Black stained CLAY FILL, black plastic like pieces, Brown clay in tip. 4.0'	
4	SS-3	12 12 14 14	4-6	1.8/2	bkg			Reddish Brown CLAY, organics, slightly moist.	
6	SS-4	17 25 25 24	6-8	2/2	bkg			Brown CLAY, slightly moist, some silt partings.	
8	SS-5	15 12 14 17	8-10	2/2	bkg			Reddish brown clay with gray clay infilling slightly moist. 0.5" wet area at ~9.6' - trace of gravel.	
10	SS-6	15 12 18 21	10-12	1.2/2	bkg			11.7' Reddish Brown CLAY, some Fine Sand and Gravel, moist. Bottom of Boring @ 12.0' BGS (580.5' MSL).	SB-04
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-05
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/22/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 590.9 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 388950.23
Y-Location 1134410.72
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 5 9 11	0-2	1.8/2	bkg			Brown SILTY CLAY; dry, some organics.	SB-05SS
2	SS-2	1 7 7 11	2-4	1.6/2	bkg			Same as above	
4	SS-3	4 4 13 15	4-6	2.0/2	bkg			4.0' Reddish Brown CLAY with some drop stones & silt partings.	
6	SS-4	9 14 14 7	6-8	1.5/2	bkg			Same as above with moist fine to medium sand in tip.	SB-05
8								Bottom of Boring @ 8.0' BGS (582.9' MSL).	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-06
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/22/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger - 3" Split Spoon

Surface Elevation 591.6 ft Mean Sealevel (MSL)
Total Depth 10 ft Below Ground Surface (BGS)
X-Location 389030.54
Y-Location 1134418.83
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 5 7 9	0-2	2/2	bkg			Dark Brown topsoil then Brown SILTY CLAY, dry.	SB-06SS
2	SS-2	3 5 8 12	2-4	1.6/2	bkg			Brown to Reddish Brown SILTY CLAY; dry.	
4	SS-3	10 17 20 33	4-6	2.0/2	bkg			Same as above except numerous silt partings.	
6	SS-4	10 12 14 17	6-8	1.6/2	bkg			Same as above except Fine Sand & Pebbles in tip, moist.	
8	SS-5	10 13 14 18	8-10	1.6/2	bkg			8.0' Reddish Brown CLAY with large rock fragments, silty sand, & gravel.	SB-06
10								Bottom of Boring @ 10.0' BGS (581.6' MSL).	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-07
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/22/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger - 3" Split Spoon

Surface Elevation 592.2 ft Mean Sealevel (MSL)
Total Depth 11.7 ft Below Ground Surface (BGS)
X-Location 388863.61
Y-Location 1134336.90
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 7 15 7	0-2	2/2	bkg			Brown SILTY CLAY 1.0' Black stained FILL with pieces of black shiny chips - dry	SB-07SS SB-20 Dup
2	SS-2	2 2 3 7	2-4	1.8/2	bkg			Same as above then Brown CLAY in tip. 4.0'	
4	SS-3	7 15 16 15	4-6	0.4/2	bkg			Brown CLAY, soft & dry.	
6	SS-4	12 17 20 24	6-8	0.4/2	bkg			Same as above.	
8	SS-5	6 7 7 7	8-10	0.5/2	bkg			9.6'	
10	SS-6	24 26 50/.3	10-11.7	0.4/1.3	bkg			Reddish Brown CLAY AND SILT, some fine to coarse Sand & fine Gravel ;moist. Pieces of dark gray rock in spoon, dry, hit rock at 11.7.	
12								Bottom of Boring @ 11.7' BGS (580.5' MSL).	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name: SB-08
Project: FOREST GLEN RI/FS
Location: NIAGARA FALLS, NEW YORK
Date Drilled: 06/22/95
Geologist: Mike Valentino
Drilling Method: Hollow Stem Auger

Surface Elevation: 591.9 ft Mean Sealevel (MSL)
Total Depth: 10 ft Below Ground Surface (BGS)
X-Location: 388932.92
Y-Location: 1134330.80
Depth To Water: Not Encountered
Organic Vapor Instrument: HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	6 7 8 10	0-2	1.8/2	bkg			Brown SILTY CLAY, dry.	SB-08SS
2	SS-2	15 25 24 29	2-4	2/2	bkg			Reddish Brown SILTY CLAY; dry, stiff.	
4	SS-3	5 11 18 27	4-6	2/2	bkg			Same as above, few rounded drop stones.	
6	SS-4	19 20 23 24	6-8	2/2	bkg			Same as above.	
8	SS-5	4 5 7 9	8-10	2/2	bkg			9.3' Reddish Brown CLAY, SILT, FINE TO COARSE SAND, AND GRAVEL.	SB-08
10								Bottom of Boring @ 10.0' BGS (581.9' MSL).	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-09
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/22/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger - 3" Split Spoon

Surface Elevation 592.6 ft Mean Sealevel (MSL)
Total Depth 9.5 ft Below Ground Surface (BGS)
X-Location 389013.01
Y-Location 1134337.34
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	4 5 9 7	0-2	1.9/2	bkg			Dark Brown topsoil 1st 4" then Brown SILTY CLAY, dry.	SB-09SS
2	SS-2	4 6 5 7	2-4	1.6/2	bkg			Brown SILTY CLAY, dry.	
4	SS-3	9 14 16 25	4-6	2/2	bkg			Brown SILTY CLAY, silt partings; dry.	
6	SS-4	4 6 9 11	6-8	2/2	bkg			Same as above except more fine to coarse sand and trace of gravel in tip; moist.	
8	SS-5	14 10 18	8-10	1.4/2	bkg			Reddish Brown CLAY with fine to coarse sand and fine gravel; moist.	SB-09
10								Bottom of Boring @ 10.0' BGS (582.6' MSL).	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-10
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/26/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 593.0 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 388876.12
Y-Location 1134215.44
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
0	SS-1	5 7 6 6	0.2	2/2	bkg			1st 6" Brown top soil the Black stained FILL.	SB-10SS
2	SS-2	3 4 8 7	2-4	1/2	bkg			Same as above.	
4	SS-3	8 7 5 9	4-6	1.2/2	bkg			5.5'	
6	SS-4	9 10 16 21	6-8	1.5/2	bkg			Stained organic SILTY CLAY. Brown SILTY CLAY; dry.	SB-10
8								Bottom of Boring @ 8.0' BGS (585.0' MSL).	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-11
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/26/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger - 3" Split Spoon

Surface Elevation 591.3 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 389027.66
Y-Location 1134214.39
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 6 9 12	0-2	1.8/2	bkg			Top 6" Brown top soil then Brown SILTY CLAY, dry.	SB-11SS
2	SS-2	3 7 12 18	2-4	1.6/2	bkg			Same as above with gray clay infilling, dry.	
4	SS-3	8 12 17 24	4-6	2/2	bkg			Same as above, some gravel sized drop stones, dry.	
6	SS-4	10 11 12 12	6-8	1.9/2	bkg			Same as above. 7.1' Reddish Brown CLAY AND SILT, some fine to coarse sand & gravel, moist.	
8								Bottom of Boring @ 8.0' BGS (583.3' MSL).	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-12
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/27/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger

Surface Elevation 589.6 ft Mean Sealevel (MSL)
Total Depth 7 ft Below Ground Surface (BGS)
X-Location 389108.10
Y-Location 1134196.76
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	1 1 3 4	0-2	1.6/2	bkg			Dark brown marsh deposits 1st 4" then Brown Gray CLAY with organics; moist.	SB-12SS
2	SS-2	2 4 4 7	2-4	1.5/2	bkg			Reddish brown CLAY with gray clay infilling; dry.	
4	SS-3	3 7 9 10	4-6	2.0/2	bkg			Same as above.	
6	SS-4	10 160 50/0	6-8	1/2	bkg			6.4' CLAY AND SILT, some fine to coarse Sand & Gravel; moist.	SB-12
8								Bottom of Boring @ 8.0' BGS (581.6' MSL).	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-13
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/26/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger - 3" Split Spoon

Surface Elevation 594 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 388882.5
Y-Location 1134145.02
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	13 14 17 8	0-2	2.0/2	bkg			Black Stained FILL, piece of brick in middle, dry.	SB-13SS
2	SS-2	3 4 2 1	2-4	1.5/2	bkg			Same as above - some rusty material in tip, dry.	
4	SS-3	4 10 9 10	4-6	1.8/2	bkg			5.7'	
6	SS-4	10 13 14 14	6-8	1.8/2	bkg			Black stained organic rich CLAY, roots, moist. 6.0' Brown SILTY CLAY, dry.	SB-13
8								Bottom of Boring @ 8.0' BGS (586.0' MSL).	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-14
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/26/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger - 3" Split Spoon

Surface Elevation 594.4 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 388978.33
Y-Location 1134144.44
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	3 6 6 7	0-2	1.6/2	bkg			Black stained FILL; dry.	SB-14SS
2	SS-2	2 2 2 5	2-4	0.4/2	bkg			Same as above except 2" layer of white powder; dry.	
4	SS-3	4 4 4 7	4-6	1.6/2	bkg			5.0' black stained CLAY with organics (roots) & wood pieces; moist.	SB-14A
6	SS-4	8 11 13 15	6-8	2/2	bkg			7.5 Reddish Brown SILTY CLAY, some organics & gray clay infilling; moist.	SB14
8								Bottom of Boring @ 8.0' BGS (586.4' MSL).	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-15
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/27/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger - 3" Split Spoon

Surface Elevation 590.9 ft Mean Sealevel (MSL)
Total Depth 8 ft Below Ground Surface (BGS)
X-Location 389123.44
Y-Location 1134162.08
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	WOH 3 4 7	0-2	2.0/2	bkg			1st 1' Dark Brown organic rich SILTY CLAY, very soft & moist then Brown SILTY CLAY, moist.	SB-15SS SB-23
2	SS-2	3 8 8 12	2-4	1.8/2	bkg			Reddish Brown SILTY CLAY, dry.	
4	SS-3	5 13 18 23	4-6	2.0/2	bkg			Same as above.	
6	SS-4	15 13 14 15	6-8	2/2	bkg				SB-15
8								7.8' CLAY AND SILT, SOME fine to coarse sand & gravel, moist. Bottom of Boring @ 8.0' BGS (582.9' MSL).	
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-16
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/23/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger - 3" Split Spoon

Surface Elevation 592.2 ft Mean Sealevel (MSL)
Total Depth 10 ft Below Ground Surface (BGS)
X-Location 389013.45
Y-Location 1134028.10
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	2 4 7 9	0-2	2.0/2	bkg			1st 1' Dark Brown organic rich SILTY CLAY, very soft & moist then brown SILTY CLAY, moist.	SB-16SS
2	SS-2	4 6 14 16	2-4	1.4/2	bkg			Same as above.	
4	SS-3	8 7 6 8	4-6	2.0/2	bkg			Reddish Brown SILTY CLAY with silt partings.	
6	SS-4	4 6 7 8	6-8	2/2	bkg			Same as above.	
8	SS-5	4 7 9 11	8-10	2/2	bkg			8.0' Reddish Brown CLAY AND SILT, some fine to coarse sand & gravel, moist.	SB-16
10								Bottom of Boring @ 10.0' BGS (582.2' MSL).	
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-17
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/23/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger - 3" Split Spoon

Surface Elevation 592.7 ft Mean Sealevel (MSL)
Total Depth 12 ft Below Ground Surface (BGS)
X-Location 389150.07
Y-Location 1134033.25
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	6 8 10 14	0-2	1.8/2	bkg			Yellow Brown top soil then Brown SILTY CLAY, dry.	SB-17SS
2	SS-2	4 7 11 14	2-4	1.0/2	bkg			Brown SILTY CLAY, dry, stiff.	
4	SS-3		4-6	2.0/2	bkg			Shelby tube of clay.	
6	SS-4	9 10 9 14	6-8	2/2	bkg			Reddish Brown SILTY CLAY, dry, stiff.	
8	SS-5	8 6 9 8	8-10	2/2	bkg			Same as above.	
10	SS-6	4 8 5 4	10-12	1.2/2	bkg			11.0' Reddish Brown CLAY AND SILT, some sand and gravel, moist.	SB-17
12								Bottom of Boring @ 12.0' BGS (580.7' MSL).	
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-18
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/21/95
Geologist Mike Valentino
Drilling Method Hollow Stem Auger - 3" Split Spoon

Surface Elevation 599.2 ft Mean Sealevel (MSL)
Total Depth 14 ft Below Ground Surface (BGS)
X-Location 388451.90
Y-Location 1135887.96
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	12 12 15 7	0-2	1.6/2	bkg			Gray Brown SILTY CLAY, trace of gravel, dry.	SB-18SS
2	SS-2	3 3 4 4	2-4	1.8/2	bkg			Brown SILTY CLAY, trace of gravel, dry. Some iron staining.	
4	SS-3	9 12 15 17	4-6	1/2	bkg			Reddish Brown CLAY with gray clay infilling, dry.	
6	SS-4	14 23 34 40	6-8	2/2	bkg			Brown CLAY, trace of fine gravel, dry.	
8	SS-5	9 11 14 15	8-10	2/2	bkg			Same as above.	
10	SS-6	4 5 6 10	10-12	1/2	bkg			Same as above except more moist.	
12	SS-7	10 10 13 12	12-14	1.8/2	bkg			12.7' Brown CLAY, SILT, AND Fine SAND, some coarse sand & gravel.	SB-18
14								Bottom of Boring @ 14.0' BGS (585.2' MSL).	
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name: SB-Center
Project: FOREST GLEN RI/FS
Location: NIAGARA FALLS, NEW YORK
Date Drilled: 06/26/95
Geologist: Mike Valentino
Drilling Method: Hollow Stem Auger - 3" Split Spoon

Surface Elevation: 594.2 ft Mean Sealevel (MSL)
Total Depth: 6 ft Below Ground Surface (BGS)
X-Location: 388938.34
Y-Location: 1134169.41
Depth To Water: Not Encountered
Organic Vapor Instrument: HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
	SS-1	5 6 7 6	0-2	1.9/2	bkg			Black stained FILL, brick piece, dry.	SB-Center SS
2	SS-2	2 3 3 2	2-4	1.6/2	bkg			Black stained FILL, organics & clay at bottom.	
4	SS-3	4 3 2 14	4-6	2.0/2	bkg				SB-Center
								5.7'	
6								Brown SILTY CLAY, dry.	
								Bottom of Boring @ 6.0' BGS (588.2' MSL).	
8									
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-EXP
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 06/22/95
Geologist Mike Valentino
Drilling Method 3" Split Spoon

Surface Elevation 591.2 ft Mean Sealevel (MSL)
Total Depth 2 ft Below Ground Surface (BGS)
X-Location 388892.84
Y-Location 1134337.68
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
0	SS-1	5 8 11 12	0-2	2/2	bkg			Brown SILTY CLAY.	
2								Bottom of Boring @ 2.0' BGS (589.2' MSL).	
4									
6									
8									
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

Boring Name SB-EXP1
Project FOREST GLEN RI/FS
Location NIAGARA FALLS, NEW YORK
Date Drilled 08/22/95
Geologist Mike Valentino
Drilling Method 3" Split Spoon

Surface Elevation 592.2 ft Mean Sealevel (MSL)
Total Depth 2 ft Below Ground Surface (BGS)
X-Location 388880.00
Y-Location 1134336.02
Depth To Water Not Encountered
Organic Vapor Instrument HNu

Depth Ft (bgs)	Sample Name	Blow Counts Per 6 in.	Sample Interval	Recovery	HNu Reading ppm	Sample Type	Lithology	Description	Analytical Sample Number/Comments
0	SS-1	5 5 6 8	0-2	1.9/2	bkg			Black FILL, carbon like.	SB-07
2								1.7' Brown SILTY CLAY. Bottom of Boring @ 2.0' (590.2' MSL).	
4									
6									
8									
10									
12									
14									
16									
18									

CDM FEDERAL PROGRAMS CORPORATION
SOIL BORING LOG

bkg - Background
NR - No Recovery

LEGEND

- FILL
- BLACK STAINED CLAY
- CLAY
- SILTY CLAY
- CLAY WITH SAND AND GRAVEL
- LOCKPORT DOLOMITE
- SURFACE SOIL SAMPLE
- SOIL SAMPLE
- GROUNDWATER SAMPLE

APPENDIX G

SHELBY TUBE RESULTS

SJB SERVICES, INC.
Contract Drilling and Testing

1951-1 Hamburg Turnpike
Buffalo, NY 14218
Phone: (716) 821-5911
Fax: (716) 821-0163

P.O. BOX 515
New Holland, PA 17557
Phone: (717) 354-7389
Fax: (717) 354-7619

Laboratory Test Report

PROJECT : *FOREST GLEN SUPERFUND - PHASE II*

CLIENT : *CDM FEDERAL PROGRAMS*

DATE : *AUGUST 18, 1995*

PROJECT NO.: SJB-D474
REPORT NO.: LTR-1

SAMPLE INFORMATION :
Sample No. 95-414 was collected from the project site by SJB Services, Inc. on June 26, 1995. Sample is described as a shelby tube of undisturbed material. Tube was identified as SH-2.

ASTM D 4318 : Test Method for Liquid Limit, Plastic limit, and Plasticity Index of Soils

Liquid Limit	Plastic Limit	Plasticity Index
51	25	26

ASTM D-422 : Particle Size Analysis of Soils

Sieve Size	Percent Passing
#10	100.0
#20	99.8
#40	99.3
#100	97.5
#200	96.0

COMPONENT PERCENTAGE

GRAVEL	SAND	SILT	CLAY
0.0 %	4.0 %	33.6 %	62.4 %

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Laboratory Test Report

PROJECT : *FOREST GLEN SUPERFUND - PHASE II*

CLIENT : *CDM FEDERAL PROGRAMS*

DATE : *AUGUST 18, 1995*

PROJECT NO.: SJB-D474
REPORT NO.: LTR-1

ASTM D-5084 : Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a flexible Wall Permeameter

Coefficient of Permeability : 1.2×10^{-8}

ASTM D-2937 : Density of Soil in Place by the Drive-Cylinder Method

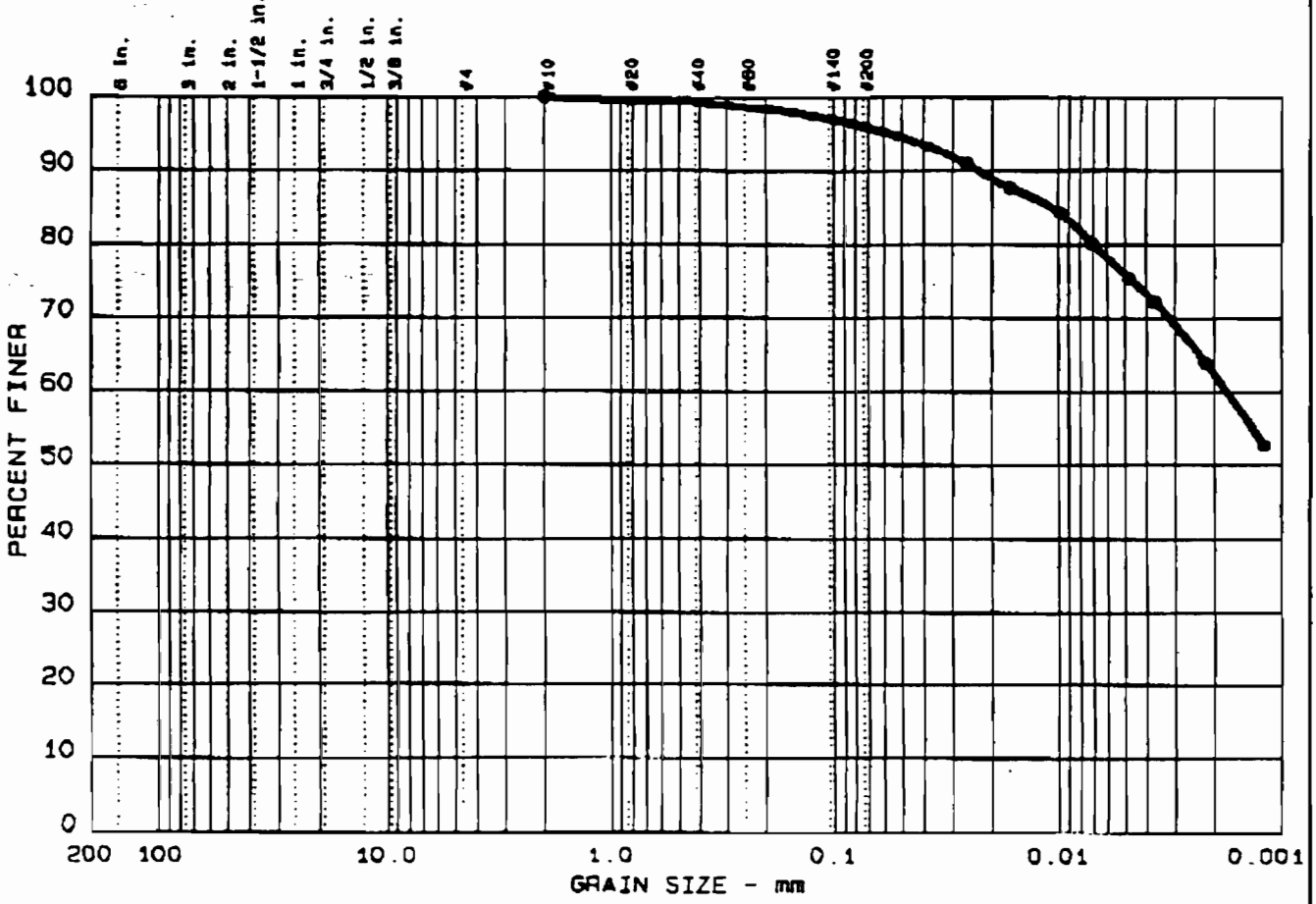
Dry Density : 99.4 pcf
Moisture Content : 25.7 %

SJB Services, Inc.

Paul C. Gregorczyk
Laboratory Manager

Ray J. Kron
Testing Services Manager

PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	0.0	4.0	33.6	62.4		51	25

SIEVE inches size	PERCENT FINER ●		

	GRAIN SIZE
D_{60}	
D_{30}	
D_{10}	

	COEFFICIENTS
C_c	
C_u	

SIEVE number size	PERCENT FINER ●		
10	100.0		

Sample information:
● SH2

Remarks:
LAB ID NO.: 95-670

MALCOLM PIRNIE, INC.

Project No.: 2078-00-3
Project: FOREST GLEN

Date: 8-15-95 Data Sheet No. ____

SJB SERVICES, INC.
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Laboratory Test Report

PROJECT : *FOREST GLEN SUPERFUND - PHASE II*

CLIENT : *CDM FEDERAL PROGRAMS*

DATE : *AUGUST 18, 1995*

PROJECT NO.: SJB-D474
REPORT NO.: LTR-1

SAMPLE INFORMATION :
Sample No. 95-414 was collected from the project site by SJB Services, Inc. on June 26, 1995. Sample is described as a shelby tube of undisturbed material. Tube was identified as SH-2.

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Liquid Limit	Plastic Limit	Plasticity Index
51	25	26

ASTM D-422 : Particle Size Analysis of Soils

Sieve Size	Percent Passing
#10	100.0
#20	99.8
#40	99.3
#100	97.5
#200	96.0

COMPONENT PERCENTAGE

GRAVEL	SAND	SILT	CLAY
0.0 %	4.0 %	33.6 %	62.4 %

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Laboratory Test Report

PROJECT : *FOREST GLEN SUPERFUND - PHASE II*

CLIENT : *CDM FEDERAL PROGRAMS*

DATE : *AUGUST 18, 1995*

PROJECT NO.: SJB-D474
REPORT NO.: LTR-1

ASTM D-5084 : Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a flexible Wall Permeameter

Coefficient of Permeability : 1.2×10^{-8}

ASTM D-2937 : Density of Soil in Place by the Drive-Cylinder Method

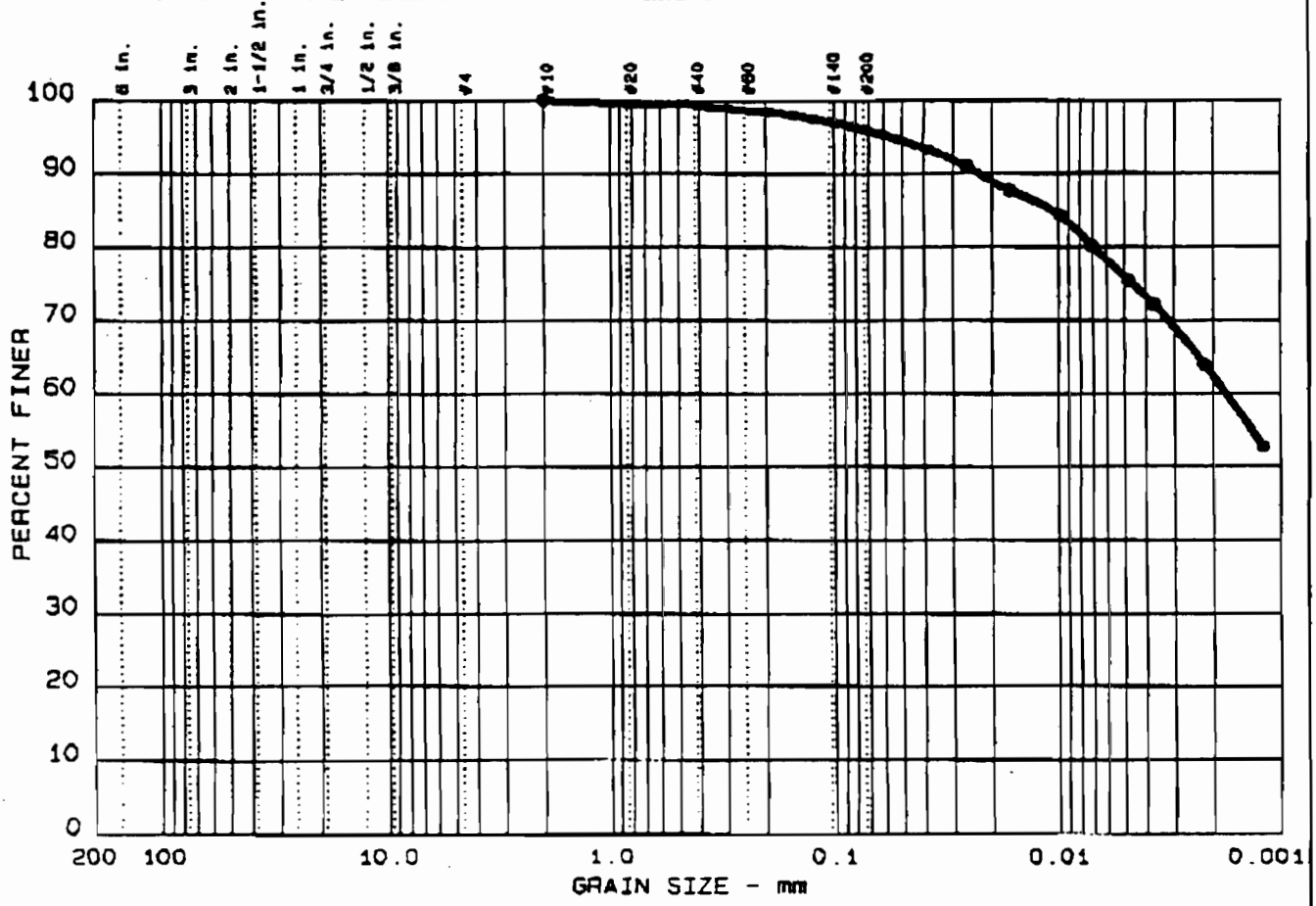
Dry Density : 99.4 pcf
Moisture Content : 25.7 %

SJB Services, Inc.

Paul C. Gregorczyk
Laboratory Manager

Ray J. Kron
Testing Services Manager

PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	0.0	4.0	33.6	62.4		51	25

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60} D_{30} D_{10}			
	COEFFICIENTS		
C_c C_u			

SIEVE number size	PERCENT FINER ●		
10	100.0		

Sample information:
● SH2

Remarks:
LAB ID NO.: 95-670

MALCOLM PIRNIE, INC.

Project No.: 2078-00-3
Project: FOREST GLEN
Date: 8-15-95 Data Sheet No. ____

SJB SERVICES, INC.
Contract Drilling and Testing

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Fax: (717) 354-7619

Laboratory Test Report

PROJECT : *FOREST GLEN SUPERFUND - PHASE II*

CLIENT : *CDM FEDERAL PROGRAMS*

DATE : *AUGUST 18, 1995*

PROJECT NO.: SJB-D474
REPORT NO.: LTR-2

SAMPLE INFORMATION :
Sample No. 95-415 was collected from the project site by SJB Services, Inc. on June 26, 1995. Sample is described as a shelby tube of undisturbed material. Tube was identified as SB-17.

ASTM D 4318 : Test Method for Liquid Limit, Plastic limit, and Plasticity Index of Soils

Liquid Limit	Plastic Limit	Plasticity Index
49	25	24

ASTM D-422 : Particle Size Analysis of Soils

Sieve Size	Percent Passing
#10	100.0
#20	99.0
#40	98.0
#100	96.0
#200	95.0

COMPONENT PERCENTAGE

GRAVEL	SAND	SILT	CLAY
0.0 %	5.0 %	35.7 %	59.3 %

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Fax: (717) 354-7619

Laboratory Test Report

PROJECT : *FOREST GLEN SUPERFUND - PHASE II*

CLIENT : *CDM FEDERAL PROGRAMS*

DATE : *AUGUST 18, 1995*

PROJECT NO.: SJB-D474
REPORT NO.: LTR-2

ASTM D-5084 : Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a flexible Wall Permeameter

Coefficient of Permeability : 1.0×10^{-8}

ASTM D-2937 : Density of Soil in Place by the Drive-Cylinder Method

Dry Density : 96.0 pcf
Moisture Content : 26.1 %

==========

SJB Services, Inc.

Paul C. Gregorczyk
Laboratory Manager

Ray J. Kron
Testing Services Manager

SJB SERVICES, INC.
Contract Drilling and Testing

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Permeability Test Results

PROJECT : **FOREST GLEN SUPERFUND - PHASE II**

CLIENT : **CDM FEDERAL PROGRAMS**

PROJECT NO.: SJB-D474 **REPORT NO.: LTR-2**

==========

ASTM D-5084 : Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a flexible Wall Permeameter

SAMPLE NO. : 95-415 **DATE SAMPLED :** 6/26/95
LOCATION : Shelby Tube SB-17

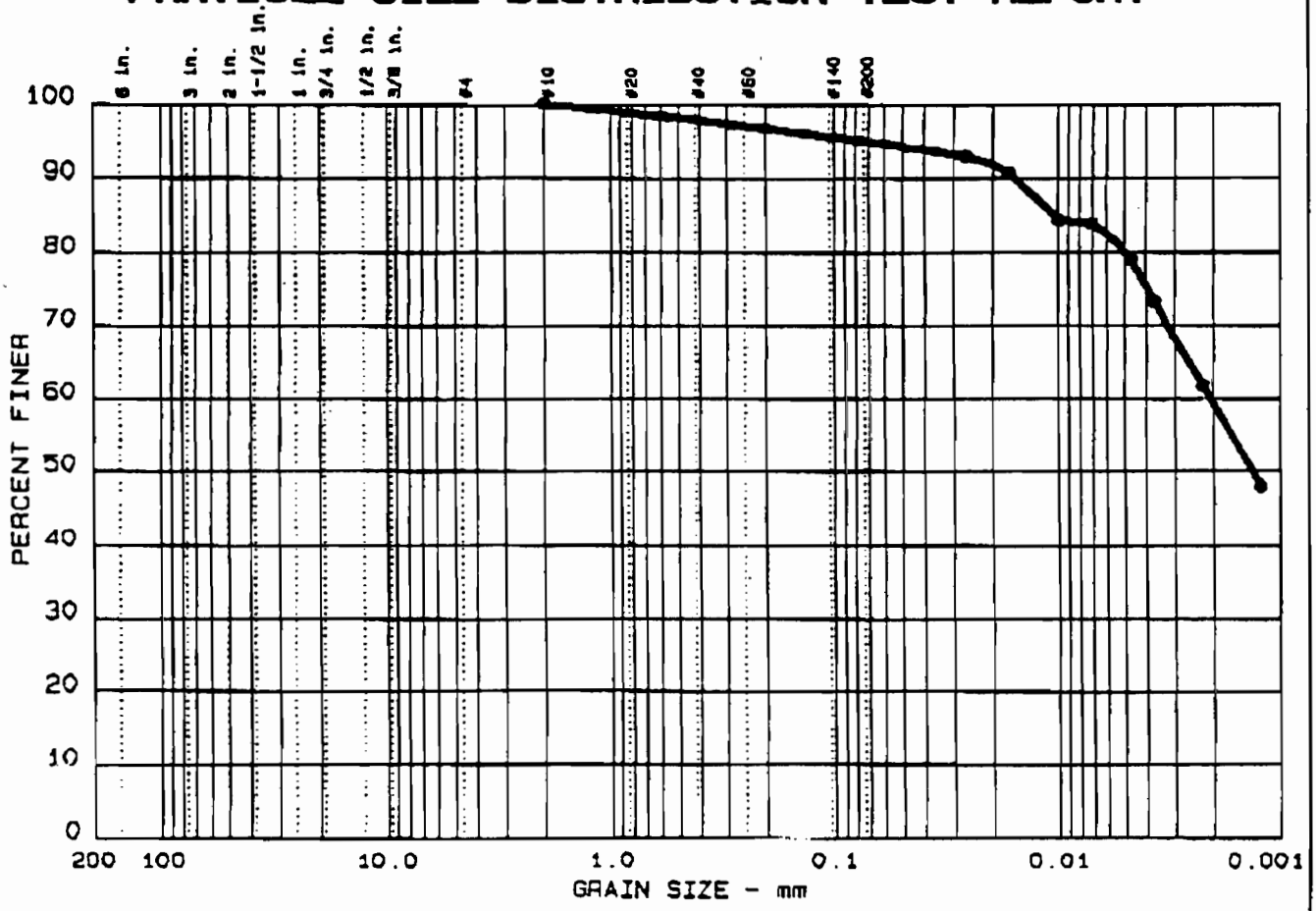
SAMPLE PARAMETERS		INITIAL	FINAL
Height	(in)	2.63	2.59
Diameter	(in)	2.82	2.85
Wet Density	(pcf)	121.1	123.2
Moisture Content	(%)	26.1	28.4
Optimum Moisture Content	(%)	na	na
Dry Density	(pcf)	96.0	94.0
Percent Compaction	(%)	na	
Saturation	(%)	97.0	

TEST PARAMETERS	
Test Type :	UNDISTURBED
	FALLING HEAD
Head Pressure (psi)	84.6
Back Pressure (psi)	80.2
Chamber Pressure (psi)	88
Fluid	DEAIRED WATER
Permeation Time (days)	4

TEST RESULTS

Coefficient of Permeability, K = 1.0×10^{-8}

PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	0.0	5.0	35.7	59.3		49	24

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60} D_{30} D_{10}			
	COEFFICIENTS		
C_C C_U			

SIEVE number size	PERCENT FINER ●		
10	100.0		

Sample information:
● SB-17

Remarks:
LAB ID NO.: 95-671

MALCOLM PIRNIE, INC.

Project No.: 2078-00-3
Project: FOREST GLEN

Date: 8-15-95 Data Sheet No. ——

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Contract Drilling and Testing

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Laboratory Test Report

PROJECT : *FOREST GLEN SUPERFUND - PHASE II*

CLIENT : *CDM FEDERAL PROGRAMS*

DATE : *AUGUST 18, 1995*

PROJECT NO.: SJB-D474
REPORT NO.: LTR-2

SAMPLE INFORMATION :
Sample No. 95-415 was collected from the project site by SJB Services, Inc. on June 26, 1995. Sample is described as a shelby tube of undisturbed material. Tube was identified as SB-17.

ASTM D 4318 : Test Method for Liquid Limit, Plastic limit, and Plasticity Index of Soils

Liquid Limit	Plastic Limit	Plasticity Index
49	25	24

ASTM D-422 : Particle Size Analysis of Soils

Sieve Size	Percent Passing
#10	100.0
#20	99.0
#40	98.0
#100	96.0
#200	95.0

COMPONENT PERCENTAGE			
GRAVEL	SAND	SILT	CLAY
0.0 %	5.0 %	35.7 %	59.3 %

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Laboratory Test Report

PROJECT : *FOREST GLEN SUPERFUND - PHASE II*

CLIENT : *CDM FEDERAL PROGRAMS*

DATE : *AUGUST 18, 1995*

PROJECT NO.: SJB-D474
REPORT NO.: LTR-2
PAGE 2 OF 2

ASTM D-5084 : Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a flexible Wall Permeameter

Coefficient of Permeability : 1.0×10^{-8}

ASTM D-2937 : Density of Soil in Place by the Drive-Cylinder Method

Dry Density : 96.0 pcf
Moisture Content : 26.1 %

==========

SJB Services, Inc.

Paul C. Gregorczyk
Laboratory Manager

Ray J. Kron
Testing Services Manager

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Contract Drilling and Testing

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Permeability Test Results

PROJECT : FOREST GLEN SUPERFUND - PHASE II

CLIENT : CDM FEDERAL PROGRAMS

PROJECT NO.: SJB-D474 **REPORT NO.: LTR-2**

==========

ASTM D-5084 : Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a flexible Wall Permeameter

SAMPLE NO. : 95-415 **DATE SAMPLED :** 6/26/95
LOCATION : Shelby Tube SB-17

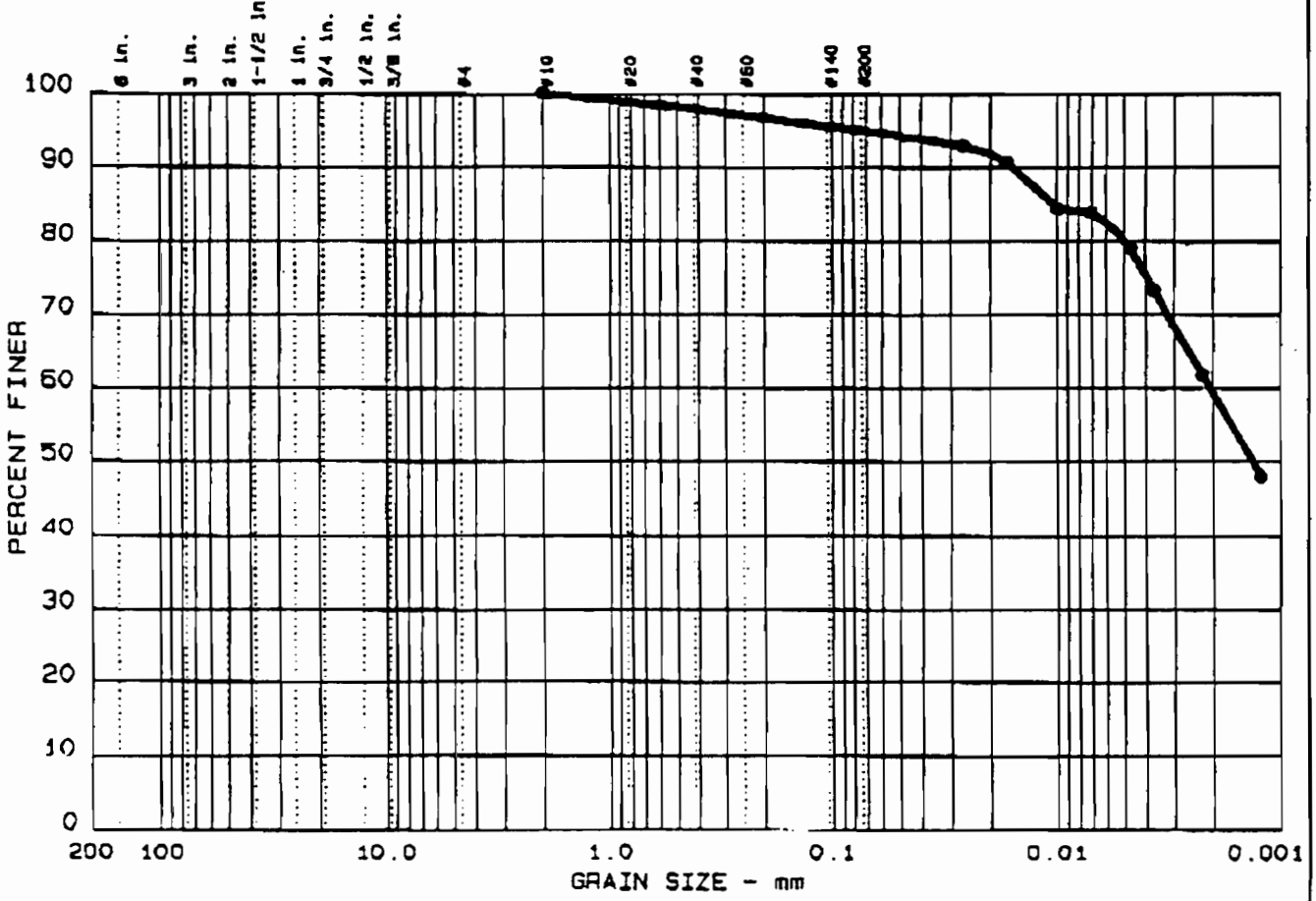
SAMPLE PARAMETERS		INITIAL	FINAL
Height	(in)	2.63	2.59
Diameter	(in)	2.82	2.85
Wet Density	(pcf)	121.1	123.2
Moisture Content	(%)	26.1	28.4
Optimum Moisture Content	(%)	na	na
Dry Density	(pcf)	96.0	94.0
Percent Compaction	(%)	na	
Saturation	(%)	97.0	

TEST PARAMETERS	
Test Type :	UNDISTURBED
	FALLING HEAD
Head Pressure (psi)	84.6
Back Pressure (psi)	80.2
Chamber Pressure (psi)	88
Fluid	DEAIRED WATER
Permeation Time (days)	4

TEST RESULTS

Coefficient of Permeability, K = 1.0×10^{-8}

PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	0.0	5.0	35.7	59.3		49	24

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60} D_{30} D_{10}			
	COEFFICIENTS		
C_C C_U			

SIEVE number size	PERCENT FINER ●		
10	100.0		

Sample information:
● SB-17

Remarks:
LAB ID NO.: 95-671

MALCOLM PIRNIE, INC.

Project No.: 2078-00-3
Project: FOREST GLEN

Date: 8-15-95 Data Sheet No. ____

APPENDIX H

TEST PIT LOGS

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG
Test Pit No. TP01

Depth (in feet)	Description	HNU Readings (ppm)
0	Brown top soil to 3 feet BGS.	Background readind at 1ppm
2		
	Black stained moist greyish green clay mixed staining with	NRAB
4	cardboard black plastic/coal like pieces, wire, construction debris, asphalt fiber board	
	to 5 feet BGS. Perched water encountered @ 5 feet BGS.	NRAB
6	Bottom of Test Pit @ 5 feet BGS.	
8		
10		

Date: 6/12/95
Field Supervisor: M. Valentino/P. Philip
Sample Depth: ~0-4' BGS
CLP Identification: BGX 25/MBTF 25
Sample Description: Moist black stained clay
Final Test Pit Configuration & Depth: 50' long by 5 feet (deepest point) in depth.
Photographs (See photograph log for additional information): See logbook
Groundwater Encountered:? 10 to 15 feet
Additional Notes: Waste material noted first 35 feet of horizontal extent. Last of horizontal extent appears to be "clean". Perched clay water encountered in test pit.

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG Test Pit No. TP02		
Depth (in feet)	Description	HNU Readings (ppm)
0	Brown top soil to 1 feet BGS.	Background 1ppm
2	Reddish brown clay to 5 feet BGS.	NRAB
4		
	Bottom of Test Pit @ 5 feet BGS.	NRAB
6		
8		
10		

Date and Time: 6/12/95
Field Supervisor: M. Valentino/P. Philip
Sample Depth: ~0-5' BGS
CLP Identification: BG x 26/MBTF 25
Sample Description: Reddish brown clay
Final Test Pit Configuration & Depth: 50' long by 5' (deepest point) in depth.
Photographs (See photograph log for additional information): See logbook.
Groundwater Encountered:? No
Additional Notes: No visible signs of waste/fill - entire horizontal extent appeared "clean"..

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG
Test Pit No. TP03

Depth (in feet)	Description	HNU Readings (ppm)
0	Brown top soil to 2 feet BGS	Background reading at 1ppm
2	Reddish brown clay to 5 feet BGS	NRAB
4		
	Reddish Brown Clay moist to 6 feet	NRAB
6	Fill material consisting of cardboard, wire, burnt boxes food service boxes, styrofoam, and plastic. Stained wet clay with grayish black staining. Perched water noted at 6.5 feet BGS.	
	Bottom of Test Pit @ 6.5 feet BGS.	NRAB
8		
10		

Date : 6/13/95
Field Supervisor: M. Valentino/P. Philip
Sample Depth: 5-5' - 6.0' BGS
CLP Identification: BGX 27/MBTF 27
Sample Description: Stained Clay
Final Test Pit Configuration & Depth: 50' long 6.5' (deepest point) in depth
Photographs (See photograph log for additional information): See logbook.
Groundwater Encountered:? Perched Water encountered
Additional Notes: Fill mater encountered throughout horizontal length of test pit. Fill mateiral encountered under approximately at 5' of clay. Did not determine vertical extent of fill. Appeared to contain newer waste material than waste material observed in TP01. Waste in TP03 to be less decayed.

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG
Test Pit No. TP04

Depth (in feet)	Description	HNU Readings (ppm)
0	Sandy top soil - Brick fragments to 2 feet BGS.	Background reading at 1ppm
2	Reddish brown, dry stiff clay to 8 feet BGS.	NRAB
4		
6		
8	Reddish brown laminated clay - Bottom of Test Pit @ 8 feet BGS.	NRAB
10		

Date: 6/13/95
Field Supervisor: M. Valentino
Sample Depth: At 4-6' BGS
CLP Identification: BGX 29/MBTF 29
Sample Description: Reddish Brown Dry Clay
Final Test Pit Configuration & Depth: 50' long by 8' (deepest point) in depth
Photographs (See photograph log for additional information): See logbook
Groundwater Encountered:? No
Additional Notes: No visible signs of waste/fill - entire horizontal extent appeared "clean".

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG
Test Pit No. TP05

Depth (in feet)	Description	HNU Readings (ppm)
0	"Clean" brown top soil to 1 feet BGS.	Background reading at 1ppm
	Grayish clay to 2 feet BGS.	NRAB
2	Reddish brown dry clay to 6 feet BGS.	NRAB
4		
6	Bottom of Test Pit @ 6 feet BGS.	NRAB
8		
10		

Date: 6/13/95
Field Supervisor: M. Valentino/P. Philip
Sample Depth: 0-6' BGS
CLP Identification: BGX/MBTF 30
Sample Description: Mixture of grayish/brown reddish clay brown top soil
Final Test Pit Configuration & Depth: 50' long by at 6' (deepest point) in depth.
Photographs (See photograph log for additional information): See logbook.
Groundwater Encountered:? No
Additional Notes: No visible signs of waste/fill. Entire horizontal extent appeared "clean".

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG
Test Pit No. TP06

Depth (in feet)	Description	HNU Readings (ppm)
0	Top soil brown to 2 feet BGS.	Background reading at 1ppm
2	Grayish clay to 4 feet BGS.	NRAB
4	Reddish brown clay to 6 feet BGS.	NRAB
6	Bottom of Test Pit @ 6 feet BGS.	NRAB
8		
10		

Date: 6/14/95
Field Supervisor: M. Valentino/P. Philip
Sample Depth: 2-5' BGS
CLP Identification: BFX 31/MBTF 31
Sample Description: Mix of red and gray clay
Final Test Pit Configuration & Depth: 50' long by 6' (deepest point) in depth
Photographs (See photograph log for additional information): See logbook
Groundwater Encountered:? No
Additional Notes: No visible signs of waste/fill. Entire horizonatal extent appeared "clean".

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG
Test Pit No. TP07

Depth (in feet)	Description	HNU Readings (ppm)
0	Top soil brown to 2 feet BGS.	Background reading at 1 ppm.
2	Gray clay to 3 feet BGS.	NRAB
	Reddish brown clay to 6 feet BGS.	
4		
6	Bottom of Test Pit @ 6 feet BGS.	NRAB
8		
10		

Date: 6/14/95
Field Supervisor: M. Valentino/P. Philip
Sample Depth: 0-6' BGS
CLP Identification: BGX/MBTF 33
Sample Description: Mix of gray and red clay some top soil brown.
Final Test Pit Configuration & Depth: 50' long by 6' (deepest point) in depth.
Photographs (See photograph log for additional information): See logbook.
Groundwater Encountered:? No
Additional Notes: No visible signs of waste/fill entire horizontal entent appeared "clean".

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG
Test Pit No. TP08

Depth (in feet)	Description	HNU Readings (ppm)
0	Brown topsoil with metal pieces to 2 feet BGS then.	NRAB
2	Gray clay mixed with brown clay to 4 feet BGS.	NRAB
4	Red clay at bottom stiff & dry to 6 feet BGS.	NRAB
6	Bottomm of Test Pit @ 6 feet BGS.	NRAB
8		
10		

Date: 6/14/95
Field Supervisor: M. Valentino/P. Philip
Sample Depth: 0-4' BGS
CLP Identification: BGX 34/MBFT 34 (Dup) BGX 35/MBTF 35
Sample Description: Red and gray clay mixed with small black pieces & some staining.
Final Test Pit Configuration & Depth: 50' long - 6' (deepest point) in depth.
Photographs (See photograph log for additional information): See logbook.
Groundwater Encountered:? No
Additional Notes: 1st 10' of horizontal extent noted to contain construction material, scrap metal, and concrete. Remaining at 40' noted to contain little fill material

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG
Test Pit No. TP09

Depth (in feet)	Description	HNU Readings
0	Brown topsoil with some black stained soil mixed with black plastic like pieces	Background Reading at 1 ppm
	to 2 feet BGS.	
2	Reddish brown clay to 5 feet BGS.	NRAB
4		
5	Cobble with reddish brown clay at 5 feet BGS.	NRAB
6	Bedrock at 6 feet BGS. Bottom of Test Pit @ 6 feet BGS.	NRAB
8		
10		

Date: 6/15/95
Field Supervisor: M. Valentino/P. Phillip
Sample Depth: 0-2' BGS
CLP Identification: BGX 36/NBFT 36
Sample Description: Brown topsoil black stained clay.
Final Test Pit Configuration & Depth: 50' long by 6' (deepest point) in depth.
Photographs (See photograph log for additional information): See logbook.
Groundwater Encountered:? No
Additional Notes: Black staining/pieces limited to surface soil (upper 1 feet) in last 10' of excavation (towards northern end). Bedrock encountered at 6 feet BGS.

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG
Test Pit No. TP-10

Depth (in feet)	Description	HNU Readings (ppm)
0	Brown top soil mixed with few black pieces to 2 feet BGS.	NRAB
2	Reddish brown clay to 5 feet BGS.	NRAB
4		
	Bedrock encountered between 5 and 6 feet BGS.	NRAB
6	Bottom of Test Pit @ 6 feet BGS.	NRAB
8		
10		

Date: 6/15/95
Field Supervisor: M. Valentino/P. Philip
Sample Depth: 0-4' BGS
CLP Identification: BGX 37/MBFT 37
Sample Description: Brown topsoil mixed with red brown clay and some black plastic like pieces.
Final Test Pit Configuration & Depth: 50' long by 6' (deepest point) in depth
Photographs (See photograph log for additional information): See logbook.
Groundwater Encountered:? No
Additional Notes: Limited black pieces noted in surface soil - Horizontal extent of test pit noted to be "clean".

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG
Test Pit No. TPEXP

Depth (in feet)	Description	HNU Readings (ppm)
0	Black stained topsoil and brown clay to 2 feet BGS.	Background reading at 1 ppm
2	Brown clay mixed with gray clay to 6 feet BGS.	NRAB
4		
6	Reddish brown clay. Bottom of Test Pit @ 6 feet BGS.	NRAB
8		
10		

Date: 6/14/95
Field Supervisor: M. Valentino/P. Philip
Sample Depth: 0-4' BGS
CLP Identification: BGX 38/MBFT 38
Sample Description: Dark brown stained top soil mixed with black plastic like pieces.
Final Test Pit Configuration & Depth: 50' long by 6' (deepest point) in depth.
Photographs (See photograph log for additional information): See logbook.
Groundwater Encountered:? No
Additional Notes: Black staining/black plastic pieces only noted in 1st 10 feet (horizontal extent) of test pit. The remaining 50 feet was noted to be "clean".

FOREST GLEN SITE
NIAGARA FALLS, NEW YORK
FIELD DATA COLLECTION ACTIVITIES

TEST PIT LOG
Test Pit No. TPEXP2

Depth (in feet)	Description	HNU Readings (ppm)
0	Brown top soil with some black staining noted in top 0.5' mixed with black plastic - like pieces to 2 feet BGS.	Background reading at 1 ppm.
2	Brown clay to 4.5 feet BGS.	NRAB
4		
	Red brown clay - Bottom of Test Pit @ 4.5 feet BGS.	NRAB
6		
8		
10		

Date and Time: 6/15/95
Field Supervisor: M. Valentino/P. Philip
Sample Depth: No Sample taken.
CLP Identification: No sample taken.
Sample Description:
Final Test Pit Configuration & Depth: 50' long by 4.5' (deep point) in depth.
Photographs (See photograph log for additional information): See logbook.
Groundwater Encountered:? No
Additional Notes: Black staining and black plastic pieces noted 20' from starting point - Localized staining/black pieces noted in test pit 50' from starting point (southern end).

APPENDIX I

WELL SAMPLING SHEETS

Round 1

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-15
DEPTH OF WELL (TD): 29.45'
DEPTH TO WATER (DTW): 19.2'
CASING DIAMETER: 4"
PURGE METHOD: Sub. pump

SAMPLE DATE: 9/11/95
SAMPLERS: R. Sau. II, J. Igbinoweka
WEATHER CONDITIONS: Sunny, 75°F
PUMP RATE: 4gpm
WELL CONDITION: Good
HNU READINGS: 1ppm (blkg).

TD(29.45) - DTW(19.2) X 0.66* = 6.8 gal (ONE WELL VOLUME) -TO

6.8 gal (ONE WELL VOLUME) X 3 (THREE VOLUMES) = 20 gal (**PURGE VOLUMES)

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1202	8	Clear	5.83	4000 UmHos	13°C	
1204	16	Clear	6.23	3600 UmHos	11°C	
1206	24	Clear	6.52	3400 UmHos	11°C	
1208	32	Clear	6.66	3300 UmHos	11°C	
1210	40	Clear	6.72	3200 UmHos	11°C	—

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____ 3 1l
TCL VOCs_____ 2 40ml
TCL Extractables_____ 4 1l
TAL Metals_____ 1l HNO3
TAL Cyanide_____ 1l NaOH
TOC_____

BOD_____ 2 1l poly
TKN_____
Ammonia_____ 1l poly H2SO4
Nitrate/Nitrite_____
COD_____
TDS_____ - 1l poly.

NOTES: 250ml H2SO4

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-10
DEPTH OF WELL (TD): 51.2
DEPTH TO WATER (DTW): 19.15
CASING DIAMETER: 4"
PURGE METHOD: SUB. pump

SAMPLE DATE: 9/11/95
SAMPLERS: R. Savill, J. Igbinewekz
WEATHER CONDITIONS: Sun, 80°F
PUMP RATE: 4 gpm
WELL CONDITION: Good
HNU READINGS: 3.5 ppm

TD(51.2) - DTW(19.15) X 0.66* = 21.2
ONE WELL VOLUME

21.2 X 3 = 63.5
ONE WELL VOLUME THREE VOLUMES **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1445	24	clear	7.30	2600 UMHOS	13.5°C	
1451	48	clear	7.07	1400 UMHOS	12.0°C	
1457	72	clear	7.02	1400 UMHOS	11.5°C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-25
DEPTH OF WELL (TD): 29.65'
DEPTH TO WATER (DTW): 18.55'
CASING DIAMETER: 4"
PURGE METHOD: Bailer

SAMPLE DATE: 9/11/95
SAMPLERS: Mark Klitzke & Sharon Burney
WEATHER CONDITIONS: Clear Sky 75°F
PUMP RATE: N/A
WELL CONDITION: Excellent
HNU READINGS: 0.0 ppm above Bkgd of 1.2 ppm.

TD(29.65) - DTW(18.55) X 0.66* = 7.33 / ONE WELL VOLUME

7.33 / ONE WELL VOLUME X 3 / THREE VOLUMES = 21.99 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1440	7 gallons	silty gray water	6.60	1100 umhos	12.6°C	
1454	8 gallons	slightly silty water	6.69	1,000 umhos	11.2°C	
1505	15 gallons	clear water	6.62	1,000 umhos	10.6°C	
1522	22 gallons	clear water	6.59	1,000 umhos	10.5°C	
						Sampled @ 1525

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-20
DEPTH OF WELL (TD): 61.8'
DEPTH TO WATER (DTW): 18.9'
CASING DIAMETER: 4"
PURGE METHOD: Sub pump

SAMPLE DATE: 9/12/95
SAMPLERS: R. Sa...ij
WEATHER CONDITIONS: Sun - 70°C
PUMP RATE: 5 gpm
WELL CONDITION: good
HNU READINGS: 1 ppm at well head - 20-30 ppm in drum (Purge water)

TD(61.8') - DTW(18.9') X 0.66* = 28.3 gal / ONE WELL VOLUME

28.3 gal / ONE WELL VOLUME X 3 / THREE VOLUMES = 85 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
0836	30	Slightly Cloudy	6.30	1250 UMHOS	11°C	phenol odor
0842	60	Slightly Cloudy	6.36	1250 UMHOS	10°C	Phenol odor
0848	90	Slightly Cloudy	6.30	1250 UMHOS	10.5°C	Phenol odor

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-35
DEPTH OF WELL (TD): 30.0'
DEPTH TO WATER (DTW): 19.0'
CASING DIAMETER: 4"
PURGE METHOD: SUB. pump

SAMPLE DATE: 9/13/95
SAMPLERS: R.S. JI
WEATHER CONDITIONS: Sun, 73°F
PUMP RATE: 3gpm
WELL CONDITION: good
HNU READINGS: 1-2 ppm

TD(30.0) - DTW(19.0') X 0.66* = 7.2 gal / ONE WELL VOLUME

7.2 gal / ONE WELL VOLUME X 3 / THREE VOLUMES = 22 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1348	9	Clear	5.77	1075 umhos	13.0°C	
1351	18	Clear	5.71	1100 umhos	12.5°C	
1354	27	Clear	5.70	1150 umhos	12.75°C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-30
DEPTH OF WELL (TD): 51.7
DEPTH TO WATER (DTW): 18.75
CASING DIAMETER: 4"
PURGE METHOD: sub pump

SAMPLE DATE: 9/13/95
SAMPLERS: RS, JJ
WEATHER CONDITIONS: partly cloudy, rain, 70°F
PUMP RATE: 5 gpm
WELL CONDITION: good
HNU READINGS: 1-2 ppm

TD(51.7) - DTW(18.75) X 0.66* = 21.7 gal / ONE WELL VOLUME

21.7 gal / ONE WELL VOLUME X 3 / THREE VOLUMES = 65 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1145	25	Clear	5.67	1000 µm/hos	12.0°C	
1150	50	Clear	5.71	1100 µm/hos	12.0°C	
1155	75		5.70	1100 µm/hos	12.0°C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-30
DEPTH OF WELL (TD): 17.88'
DEPTH TO WATER (DTW): 16.75'
CASING DIAMETER: 4"
PURGE METHOD: bailer

SAMPLE DATE: 9/13/95
SAMPLERS: Sharon Audrey / Mark Klitzke
WEATHER CONDITIONS: Scattered Showers Temp 65°F
PUMP RATE: —
WELL CONDITION: good
HNU READINGS: Background

TD(17.88) - DTW(16.75) X 0.66* = 0.75 / ONE WELL VOLUME

0.75 / ONE WELL VOLUME X 3 / THREE VOLUMES = 2.25 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
0942	1	Slightly silty	8.43	2420 µmhos	14.5°C	1 gallon was purged for sample
						Well bailed dry

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics \
TCL VOCs \
TCL Extractables_____
TAL Metals \
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES: 0910 Sample MW 30 collected

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-3P
DEPTH OF WELL (TD): 10.25'
DEPTH TO WATER (DTW): 7.95'
CASING DIAMETER: 4"
PURGE METHOD: Bailer

SAMPLE DATE: 9/13/95
SAMPLERS: Sharon Budney / Mark Klitzke
WEATHER CONDITIONS: Scattered showers Temp. 65°F
PUMP RATE: —
WELL CONDITION: good
HNU READINGS: background

TD(10.25) - DTW(7.95) X 0.66* = 1.52 / ONE WELL VOLUME

1.52 / ONE WELL VOLUME X 3 / THREE VOLUMES = 4.56 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
0925	2.5	Silty Grey	6.88	1370 µmhos	15.7°C	
0935	3.5	Silty Grey	7.97	1452 µmhos	15.8°C	Well is drying up
						Well bailed dry
						at 3.5 gallons
						Plus 1 gallon for sample

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics \
TCL VOCs \
TCL Extractables_____
TAL Metals \
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES: 0910 Sample MW 3P collected

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-45
DEPTH OF WELL (TD): 21.70'
DEPTH TO WATER (DTW): 16.63'
CASING DIAMETER: 4"
PURGE METHOD: Bailer

SAMPLE DATE: 9/12/95
SAMPLERS: Sharon Budney / Mark Klitzke
WEATHER CONDITIONS: Mostly Clear Breezy Temp 76°
PUMP RATE: -
WELL CONDITION: good
HNU READINGS: 0.7 ppm which is background

TD(21.70) - DTW(16.63) X 0.66* = 3.35 / ONE WELL VOLUME

3.35 / ONE WELL VOLUME X 3 / THREE VOLUMES = 10.05 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
0823	1	Very Turbid Brown	7.36	1340 µMHOS	12.6°C	
0829	3.5	Very Turbid Brown	7.33	1280 µMHOS	11.8°C	
0837	7.0	Very Turbid Brown	7.32	1220 µMHOS	11.6°C	Recharge is slow.
0853	10.5	Very Turbid Brown	7.27	1210 µMHOS	11.8°C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ↘
TCL VOCs ↘
TCL Extractables ↘
TAL Metals ↘
TAL Cyanide ↘
TOC ↘

BOD ↘
TKN ↘
Ammonia ↘
Nitrate/Nitrite ↘
COD ↘
TDS ↘

NOTES: Sample time 0900

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-40
DEPTH OF WELL (TD): 61.8
DEPTH TO WATER (DTW): 17.1
CASING DIAMETER: 4"
PURGE METHOD: Sub. pump

SAMPLE DATE: 9/12
SAMPLERS: PS - JI
WEATHER CONDITIONS: Sun, 75°F
PUMP RATE: 6 gpm
WELL CONDITION: good
HNU READINGS: apparent head

TD(61.8) - DTW(17.1) X 0.66* = 29.5 gal
ONE WELL VOLUME

29.5 gal X 3 = 84.x 90 gal
ONE WELL VOLUME THREE VOLUMES **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1505	30	Clear	6.53	1100 umhos	12.0 °C	
1510	60	Clear	6.54	1100 umhos	12.0 °C	
1515	90	Clear	6.54	1100 umhos	12.0 °C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-55
DEPTH OF WELL (TD): 27.40'
DEPTH TO WATER (DTW): 16.13'
CASING DIAMETER: 4"
PURGE METHOD: bailer

SAMPLE DATE: 9/12/95
SAMPLERS: Sharon Budney / Mark Klitzke
WEATHER CONDITIONS: Clear Temp 70°F
PUMP RATE: -
WELL CONDITION: good
HNU READINGS: 1.0 ppm at wellhead
1.7 ppm background

TD(27.40) - DTW(16.13) X 0.66* = 7.77 / ONE WELL VOLUME

7.77 / ONE WELL VOLUME X 3 / THREE VOLUMES = 23.31 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1035	1.5	Slightly silty gray	7.48	1280 µMHOS	13.4°C	
1047	7.5	Silty gray	7.48	1280 µMHOS	13.0°C	
1104	15.5	Silty gray	7.35	1290 µMHOS	13.0°C	
1120	24	Slightly silty gray	7.19	118 µMHOS	12.8°C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES:
Sample collected 1130

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-5D
DEPTH OF WELL (TD): 51.45'
DEPTH TO WATER (DTW): 16.21'
CASING DIAMETER: 4"
PURGE METHOD: Pump

SAMPLE DATE: 9/13/95
SAMPLERS: Sharon Burney / Mark Nitzke
WEATHER CONDITIONS: Cloudy Temp 65°F
PUMP RATE: 4.3 gallons / minute
WELL CONDITION: Good
HNU READINGS: Background

TD(~~54'~~ 51.45') - DTW(16.21') X 0.66* = 23.23 / ONE WELL VOLUME

23.23 / ONE WELL VOLUME X 3 / THREE VOLUMES = 69.69 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1102	8	Slightly Silty	9.04	1330 µMHOS	11.7°C	
1106	23	Clearing	8.95	1220 µMHOS	11.4°C	
1111	47	Clear	8.91	1230 µMHOS	11.9°C	
1117	70	Clear	8.87	1220 µMHOS	11.8°C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics \
TCL VOCs \
TCL Extractables \
TAL Metals \
TAL Cyanide \
TOC \

BOD \
TKN \
Ammonia \
Nitrate/Nitrite \
COD \
TDS \

NOTES: MS/MSD for CLP Parameters
Collected Sample at 11:35

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN MW-65
WELL NUMBER: ~~MW-65~~
DEPTH OF WELL (TD): 29.00'
DEPTH TO WATER (DTW): 18.75
CASING DIAMETER: 4"
PURGE METHOD: Bailer

SAMPLE DATE: 9/12/95
SAMPLERS: Sharon Bursey Mark Klitzke
WEATHER CONDITIONS: Partly cloudy Temp 75°F
PUMP RATE: —
WELL CONDITION: Good
HNU READINGS: Background

TD(29.00) - DTW(18.75) X 0.66* = 6.765 ONE WELL VOLUME

6.765 ONE WELL VOLUME X ~~20.295~~ 3 (9/12/95) THREE VOLUMES = 20.295 **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1340	2	grey turbid	11.07	775 umhos	13.1°C	
1354	7	↓ ↓	11.01	650 umhos	12.0°C	
1408	14	clear	10.34	600 umhos	12.4°C	
1430	21	clear	9.76	600 ↓	11.7°C	
						~~1450~~ 1430 sample time MK 9/12/95

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-6D
DEPTH OF WELL (TD): 55.65'
DEPTH TO WATER (DTW): 18.56'
CASING DIAMETER: 4"
PURGE METHOD: 2" pump

SAMPLE DATE: 9/13/95
SAMPLERS: Sharon Budney/Mark Klitzke
WEATHER CONDITIONS: Partly cloudy/very windy Temp 70°F
PUMP RATE: 6 gpm
WELL CONDITION: good
HNU READINGS: Background (0.7 ppm)

TD(55.65') - DTW(18.56') X 0.66* = 24.48
ONE WELL VOLUME

24.48 X 3 = 73.44
ONE WELL VOLUME THREE VOLUMES **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1417	10	Silty	9.04	1150 µMHOS	13.6°C	
1420	25	Slightly silty	9.09	1070 µMHOS	12.7°C	
1424	50	Clearing	8.99	1110 µMHOS	11.9°C	
1429	75	Clear	8.96	1100 µMHOS	11.9°C	
1432	Shut off pump.					

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓
BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES:

1500 collected MW-6D and Duplicate MW-10S

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-75
DEPTH OF WELL (TD): 28.8
DEPTH TO WATER (DTW): 12.3
CASING DIAMETER: 4"
PURGE METHOD: Sub pump

SAMPLE DATE: 9/12/95
SAMPLERS: R. Savill, J. Igbinewekha
WEATHER CONDITIONS: Sun, 75
PUMP RATE: 3 gpm
WELL CONDITION: Good
HNU READINGS: 2-3 at head

TD(28.8) - DTW(12.3) X 0.66* = 10.9 ≈ 11
ONE WELL VOLUME

11 gal X 3 = 33 gal
ONE WELL VOLUME THREE VOLUMES **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1039	12	Clear	6.13	650 umhos	13.5 °C	
1043	24	Clear	6.26	650 umhos	13.5 °C	
1047	36	Clear, [illegible]	6.32	650 umhos	14.0 °C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-070
DEPTH OF WELL (TD): 53.0
DEPTH TO WATER (DTW): 19.0
CASING DIAMETER: 4"
PURGE METHOD: SUB pump

SAMPLE DATE: 9/12/95
SAMPLERS: R. Sauvé II; J. Igbineweka
WEATHER CONDITIONS: P Cloudy, 73°F
PUMP RATE: 5 gpm
WELL CONDITION: good
HNU READINGS: 11pm

TD(53.0) - DTW(19.0) X 0.66* = 22.4 gal / ONE WELL VOLUME

22.4 gal / ONE WELL VOLUME X 3 / THREE VOLUMES = 67 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1220	25	Cloudy	6.96	1250 µmhos	13.0°C	
1225	50	Cloudy	6.72	1200 µmhos	12.5°C	
1230	75	Slightly Cloudy	6.61	1200 µmhos	12.3°C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

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FOREST GLEN
WELL NUMBER: MW-85
DEPTH OF WELL (TD): 32.60
DEPTH TO WATER (DTW): 15.70
CASING DIAMETER: 4"
PURGE METHOD: Sub pump

SAMPLE DATE: 9/13/95
SAMPLERS: RS, JI
WEATHER CONDITIONS: Rain - 70°F
PUMP RATE: 3 gpm
WELL CONDITION: Good
HNU READINGS: 1.2 ppm

TD(32.6) - DTW(15.7) X 0.66* = 11 gal / ONE WELL VOLUME

11 gal / ONE WELL VOLUME X 3 / THREE VOLUMES = 33 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
0829	12	Clear	6.38	525 Umhos	12.75°C	
0833	24	Clear	6.01	525 Umhos	12.75°C	
0837	36	Slightly Cloudy	5.95	550 Umhos	12.50°C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

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FOREST GLEN
WELL NUMBER: MW-80
DEPTH OF WELL (TD): 52.0
DEPTH TO WATER (DTW): 18.1
CASING DIAMETER: 4"
PURGE METHOD: sub. pump

SAMPLE DATE: 9/13/95
SAMPLERS: KS, JI
WEATHER CONDITIONS: P. cloudy - 70°F
PUMP RATE: 5 gpm
WELL CONDITION: good
HNU READINGS: 1-2 ppm

TD(52.0) - DTW(18.1) X 0.66* = 22.4 gal / ONE WELL VOLUME

22.4 gal / ONE WELL VOLUME X 3 / THREE VOLUMES = 67 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1305	25	Slightly Cloudy	5.55	1200 Um/Hos	12.0°C	
1305	50	Slightly Cloudy	5.55	1260 Um/Hos	12.0°C	
1310	75	Slightly Cloudy	5.56	1200 Um/Hos	12.0°C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

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FOREST GLEN
WELL NUMBER: MW-95
DEPTH OF WELL (TD): 27.00'
DEPTH TO WATER (DTW): 10.25'
CASING DIAMETER: 4"
PURGE METHOD: Bailer

SAMPLE DATE: 9/11/95
SAMPLERS: S Budney + Mark Klitzke
WEATHER CONDITIONS: Clear - Temp 70°F
PUMP RATE:
WELL CONDITION: good
HNU READINGS: Background

TD(27.00') - DTW(10.25') X 0.66* = 11.055
ONE WELL VOLUME

11.055 X 3 = 33.165
ONE WELL VOLUME THREE VOLUMES **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
11:38	2	Turbid - very	7.14	740 µMHOS	11.8°C	
11:57	11	Slightly Turbid	6.32	780 µMHOS	11.6°C	
12:~~38~~ 17	22	Slightly Turbid	6.30	800 µMHOS	11.3°C	
12:38	33	Clear	6.34	800 µMHOS	11.5°C	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs ↘
TCL Extractables ↘
TAL Metals ↘
TAL Cyanide ↘
TOC ↘

BOD ↘
TKN ↘
Ammonia ↘
Nitrate/Nitrite ↘
COD ↘
TDS ↘

NOTES:

Spillan

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-9D
DEPTH OF WELL (TD): 56.3
DEPTH TO WATER (DTW): 17.08'
CASING DIAMETER: 4"
PURGE METHOD: Sub. Pump

SAMPLE DATE: 9/11/95
SAMPLERS: R. Sau.11; Joe Igbinoweka
WEATHER CONDITIONS: Sun, 80°F
PUMP RATE: 5 gpm
WELL CONDITION: good
HNU READINGS: 5 ppm

TD(56.3') - DTW(17.08') X 0.66* = 26 gal / ONE WELL VOLUME

26 gal / ONE WELL VOLUME X 3 / THREE VOLUMES = 78 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1636	30	clear-sl. cloudy	7.80	1150 µmHos	11° C	Odor
1642	60	clear-sl. cloudy	7.70	1150 µmHos	10° C	odor
1648	90	clear-sl. cloudy	7.63	1150 µmHos	10° C	odor

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

Rev 2

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FOREST GLEN
WELL NUMBER: mw 15
DEPTH OF WELL (TD): 30.5'
DEPTH TO WATER (DTW): 17.2
CASING DIAMETER: 4"
PURGE METHOD: Submersible pump

SAMPLE DATE: 11/13/95
SAMPLERS: Jim Ronic, Scott Kirchner
WEATHER CONDITIONS: overcast, Flurries, brr
PUMP RATE: ±4.5 gal
WELL CONDITION: good
HNU READINGS: none taken

TD(30.5') - DTW(17.2) X 0.66* = 8.8 / ONE WELL VOLUME

8.8 / ONE WELL VOLUME X 4 / THREE VOLUMES = 35.2 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH***	Conductivity	Temp.	Comments
1102	8.8	cloudy		1800	11°C	
1105	17.6	cloudy		1900	11°C	
1108	26.4	clearer silt		1600	13°C	
1111	35.2	clearer silt		1600	13.5°C	←

*** pH meter not functioning

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES:

Used 1 drum for purge water

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FOREST GLEN
WELL NUMBER: MW-1D
DEPTH OF WELL (TD): 53.5
DEPTH TO WATER (DTW): 13.2
CASING DIAMETER: 4"
PURGE METHOD: Submersable pump

SAMPLE DATE: 11/13/95
SAMPLERS: Scott Kirchner, Jim Romic
WEATHER CONDITIONS: overcast, Flurries, brrrr
PUMP RATE: ≈ 4 gal/min
WELL CONDITION: Good
HNU READINGS: None taken

TD(53.5) - DTW(13.2) X 0.66* = 26.5 / ONE WELL VOLUME

26.5 / ONE WELL VOLUME X 3 / THREE VOLUMES = 79.5 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH***	Conductivity	Temp.	Comments
210	30	Clear 1.5 gal		1200	12 °C	
213	55	Clear 1.5 gal		1200	12 °C	
217	85	Clear 1.5 gal		1200	12 °C	

*** pH meter not functioning

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES:

Used 2 Drums for purge water.

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FOREST GLEN
WELL NUMBER: MW-25
DEPTH OF WELL (TD): 30.0'
DEPTH TO WATER (DTW): 12.22'
CASING DIAMETER:
PURGE METHOD:

SAMPLE DATE: 11/15/95
SAMPLERS: AH + SM
WEATHER CONDITIONS: snowy 32°F
PUMP RATE:
WELL CONDITION:
HNU READINGS:

TD(30.0') - DTW(12.22') X 0.66* = 11.73 gal (ONE WELL VOLUME)

11.73 gal (ONE WELL VOLUME) X 3 (THREE VOLUMES) = 35.2 gal **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1051	11.73	Turbid	7.5	920	9.0	
1055	35.2	"	7.51	870	8.9	
1101	58.6	Clear	7.16	970	9.4	5 volumes were purged because of the length of time needed to get to the meters and get readings

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

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FOREST GLEN
WELL NUMBER: MW2D
DEPTH OF WELL (TD): 61.6'
DEPTH TO WATER (DTW): 12.75'
CASING DIAMETER:
PURGE METHOD:

SAMPLE DATE: 11/15/95
SAMPLERS: AH + SM
WEATHER CONDITIONS: Snowy 32°F
PUMP RATE:
WELL CONDITION:
HNU READINGS:

TD(61.6') - DTW(12.75') X 0.66* = 32.24 gal
ONE WELL VOLUME

32.24 gal X 3 = 96.72 gal
ONE WELL VOLUME THREE VOLUMES **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1313		Start Pump				
1319	32.24	cloudy sulfur odor	7.13	990	8.7	
1325	64.48	"	6.96	1020	9.0	
1331	96.72	"	6.95	1000	8.8	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

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FOREST GLEN
WELL NUMBER: MW 3S
DEPTH OF WELL (TD): 30.0'
DEPTH TO WATER (DTW): 12.95'
CASING DIAMETER:
PURGE METHOD:

SAMPLE DATE: 11/14/95
SAMPLERS: AH + SM
WEATHER CONDITIONS: clear 32°
PUMP RATE:
WELL CONDITION:
HNU READINGS:

TD(30.0) - DTW(12.95) X 0.66* = 11.25 gal (ONE WELL VOLUME)

11.25 gal (ONE WELL VOLUME) X 3 (THREE VOLUMES) = 33.76 **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
0921	0	Start Pump	7.79	~~600~~ SM		
0923	11.25	clear	~~7.46~~ SM	600	9.5	
0935	22.50	"	7.46	600	10.2	
0938	33.75	"	7.30	610	9.9	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES: Stopped pumping in between first and second volumes due to problems with generator
MW3S was also sampled as 10S for a duplicate sampling.

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FOREST GLEN
WELL NUMBER: MW 3D
DEPTH OF WELL (TD): 51.7'
DEPTH TO WATER (DTW): 12.83'
CASING DIAMETER:
PURGE METHOD:

SAMPLE DATE: 11/16/95
SAMPLERS: AH + SM
WEATHER CONDITIONS: clear 31°F
PUMP RATE:
WELL CONDITION:
HNU READINGS:

TD(51.7') - DTW(12.83') X 0.66* = 25.65 gal / ONE WELL VOLUME

25.65 / ONE WELL VOLUME X 3 / THREE VOLUMES = 75.96 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	Temp pH SM	Conductivity	pH Temp SM	Comments
0954	0	Start Pump				
0958	25.65	turbid brown/yellow	9.7	650	7.10	
1002	51.30	cloudy	10.0	690	7.05	
1006	75.96	"	10.2	700	7.02	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES:

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FOREST GLEN
WELL NUMBER: MW 3P
DEPTH OF WELL (TD): 10.5
DEPTH TO WATER (DTW): ~~17~~ 8.81
CASING DIAMETER: 4"
PURGE METHOD: Hand Bailed

SAMPLE DATE: 11/16/95
SAMPLERS: Scott Kirchner Jim Romig
WEATHER CONDITIONS: Overcast / sunny
PUMP RATE: —
WELL CONDITION: Good
HNU READINGS: None

TD(10.5) - DTW(~~17~~) X 0.66* = ~~4.9~~ 1.12 / ONE WELL VOLUME

~~4.8~~ 1.12 / ONE WELL VOLUME X 3 / THREE VOLUMES = 3.36 ~~14.4~~ ~~1.12~~ / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
No	Reading taken	just	purged	3 volumes &		
Sampled	since this	is a	purged	water	well	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC —

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES:

~~Take~~ Took 3 well volumes and sample

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FOREST GLEN
WELL NUMBER: MW 30
DEPTH OF WELL (TD): 17.8
DEPTH TO WATER (DTW): ~~10.7~~ 13.6
CASING DIAMETER: 4"
PURGE METHOD: ~~Submersible pump~~ hand bailing

SAMPLE DATE: 11/15/95
SAMPLERS: Scott Kirchner
WEATHER CONDITIONS: Overcast Sunny 64°
PUMP RATE: —
WELL CONDITION: Good
HNU READINGS: None

TD(17.8) - DTW(13.6) X 0.66* = 2.77 / ONE WELL VOLUME

2.77 / ONE WELL VOLUME X 3 / THREE VOLUMES = 8.31 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1350	Sampled well	Clear	Not Taken			

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ____
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES: Sampled well though it would bail dry. After Samples taken ~~water~~ water remained in well - bailed dry approximately 8 gallons.

Did not take any reading was not expected to be purging well.

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW 30B
DEPTH OF WELL (TD): 17.9
DEPTH TO WATER (DTW): 15.9
CASING DIAMETER: 4"
PURGE METHOD: hand Bailed 11/15/95

SAMPLE DATE: 11/16
SAMPLERS: Scott Kirchner, Jim Rennig
WEATHER CONDITIONS: overcast / snowing
PUMP RATE: —
WELL CONDITION: Good
HNU READINGS: None

TD( ) - DTW( ) X 0.66* = See 11/15/95
ONE WELL VOLUME

ONE WELL VOLUME X THREE VOLUMES = See 11/15/95
**PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
Did not	purge,	collected	recharge			

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:
went Back to sample TCL/TAL, well not recharged enough to sample for all parameters

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-4-S
DEPTH OF WELL (TD): 22.0'
DEPTH TO WATER (DTW): 11.20'
CASING DIAMETER: 4"
PURGE METHOD: Submersible Pump

SAMPLE DATE: 11/13/95
SAMPLERS: GPH, SM
WEATHER CONDITIONS: Cloudy, cold 35°F
PUMP RATE:
WELL CONDITION:
HNU READINGS:

TD(22.0) - DTW(11.20) X 0.66* = 7.13 gal / ONE WELL VOLUME

7.13 gal / ONE WELL VOLUME X _____ / THREE VOLUMES = 21.38 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1200	7 gal	Brown, turbid	6.82	1300 umhos	10.3	
1215	14 gal	" "	6.93	1650 umhos	11.1	
1230	23 gal	" "	6.82	1500	10.3	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD
TDS ✓

NOTES:
Collected sample at 1300

Lost Bailer in well

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-4D
DEPTH OF WELL (TD): 61.3'
DEPTH TO WATER (DTW): 11.90
CASING DIAMETER: 4"
PURGE METHOD: Submers. pump

SAMPLE DATE: 11/13/95
SAMPLERS: AH, SM
WEATHER CONDITIONS: Cloudy cold 35°F
PUMP RATE:
WELL CONDITION:
HNU READINGS:

TD(61.30') - DTW(11.90) X 0.66* = 32.6 gal
ONE WELL VOLUME

32.6 X ~~97~~ = 97.8 gallons
ONE WELL VOLUME THREE VOLUMES **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1527	32	turbid then clearer, silt fine	6.78	1000	9.9	
1533	32	"	6.81	900	8.5	
1540	32	"	6.78	990	9.5	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD
TDS ✓

NOTES:
Collected sample at 1555

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-55
DEPTH OF WELL (TD): 28'
DEPTH TO WATER (DTW): 10.39'
CASING DIAMETER: 4"
PURGE METHOD: Submersible Pump

SAMPLE DATE: 11/14/95
SAMPLERS: AH, SM
WEATHER CONDITIONS:
PUMP RATE:
WELL CONDITION:
HNU READINGS:

TD(28') - DTW(10.39) X 0.66* = 11.6 gal / ONE WELL VOLUME

11.6 gal / ONE WELL VOLUME X _____ / THREE VOLUMES = 34.8 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
0912	1	Clear	7.15	800	10.3	
0924	2	Clear	6.75	890	10.8	
0933	3	Clear	6.51	820	10.4	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-5D
DEPTH OF WELL (TD): 51.7'
DEPTH TO WATER (DTW): 10.77'
CASING DIAMETER: 4"
PURGE METHOD: Submers. Pump

SAMPLE DATE: 11/14/95
SAMPLERS: ~~AH~~, SM
WEATHER CONDITIONS:
PUMP RATE:
WELL CONDITION:
HNU READINGS:

TD(51.7) - DTW(10.77) X 0.66* = 27.0 gal / ONE WELL VOLUME

27.0 gal / ONE WELL VOLUME X _____ / THREE VOLUMES = 81.0 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
Start 0948		clear	~~6.62~~			
0953	1	clear	~~6.62~~ 6.60	980	10.3	
1006	2	clear	6.60	950	10.1	
1012	3	clear	6.62	940	10.2	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW-6S
DEPTH OF WELL (TD): 29.0'
DEPTH TO WATER (DTW): 12.41'
CASING DIAMETER:
PURGE METHOD:

SAMPLE DATE: 11/14/95
SAMPLERS: AH + SM
WEATHER CONDITIONS: rainy 35°F
PUMP RATE:
WELL CONDITION:
HNU READINGS:

TD(29.0) - DTW(12.41) X 0.66* = 10.95 gal / ONE WELL VOLUME

10.95 gal / ONE WELL VOLUME X 3 / THREE VOLUMES = 32.85 gal / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1214		Started Pump				
1216	10.95	Clear	7.28	300	10.1	
1218	21.90	"	7.20	400	10.5	
1220	32.85	"	7.15	500	9.6	
1225	43.70	"	7.10	500	9.9	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN MW-
WELL NUMBER: 6D
DEPTH OF WELL (TD): 56.5'
DEPTH TO WATER (DTW): 13.14'
CASING DIAMETER:
PURGE METHOD:

SAMPLE DATE: 11/14/95
SAMPLERS: AH & SM SM
WEATHER CONDITIONS: ~~clear~~ rainy 37°
PUMP RATE:
WELL CONDITION:
HNU READINGS:

TD(56.5) - DTW(13.14) X 0.66* = 28.62 gal
ONE WELL VOLUME

28.62 gal X 3 = 85.85 gal
ONE WELL VOLUME THREE VOLUMES **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1415		Start Purge				
1429 SM	28.62	Cloudy	7.13	890	10.2	
1425	57.24	Cloudy	6.84	870	9.8	
1431	85.85	"	6.7	870	9~~0~~.8	
					SM 11/14/95	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics_____
TCL VOCs_____
TCL Extractables_____
TAL Metals_____
TAL Cyanide_____
TOC_____

BOD_____
TKN_____
Ammonia_____
Nitrate/Nitrite_____
COD_____
TDS_____

NOTES:

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW75
DEPTH OF WELL (TD): 29.8
DEPTH TO WATER (DTW): 6.7
CASING DIAMETER: 4"
PURGE METHOD: Submersable

SAMPLE DATE: 11/13/95
SAMPLERS: Jim Romic, Scott Kirchner
WEATHER CONDITIONS: overcast, Breezy, flurries
PUMP RATE: 5 gal/min
WELL CONDITION: Good
HNU READINGS: Not Taken

TD(29.8) - DTW(6.7) X 0.66* = 15.2 / ONE WELL VOLUME

15.2 / ONE WELL VOLUME X 3 / THREE VOLUMES = 45.6 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH***	Conductivity	Temp.	Comments
1602	15.2	Clear 1.4ft Sediment		250	12°C	
1605	30.4	Clear 1.4ft Sediment		300	13°C	
1604	45.6	Clear 1.4ft Sediment		300	13°C	

*** pH meter not functioning

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES:

Used 1 drum for purge water.

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW7D
DEPTH OF WELL (TD): 54.7
DEPTH TO WATER (DTW): 12.6
CASING DIAMETER: 4"
PURGE METHOD: Submersable well

SAMPLE DATE: 11/14/95
SAMPLERS: Scott Kirchner & Jim Romig
WEATHER CONDITIONS: overcast, raining (misty)
PUMP RATE: ≈ 5 gal/min
WELL CONDITION: Good
HNU READINGS: No Reading "0"

TD(54.7) - DTW(12.6) X 0.66* = 27.7 / ONE WELL VOLUME

27.7 / ONE WELL VOLUME X 3 / THREE VOLUMES = 83.1 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH***	Conductivity	Temp.	Comments
912	27	See Comments		1000	10°C	Slightly Cloudy
917	55	↓		1000	11°C	Clearer
924	83	↓		1000	11°C	Clear

*** No pH meter
*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓
BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES: USE 2 Drums for purge water
Slight sulfur smell

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW85
DEPTH OF WELL (TD): 34.1
DEPTH TO WATER (DTW): 12.2
CASING DIAMETER: 4"
PURGE METHOD: Submersible pump

SAMPLE DATE: 11/14/95
SAMPLERS: Scott Fairchild, Jim Ronig
WEATHER CONDITIONS: overcast, rainy
PUMP RATE: 5 gal/min
WELL CONDITION: Good
HNU READINGS: 13.5 (background 4.3)

TD(34.1) - DTW(12.2) X 0.66* = 14.5 / ONE WELL VOLUME

14.5 / ONE WELL VOLUME X 3 / THREE VOLUMES = 43.5 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1126	14.5	Clear	6.63	400	11.6	MS/MSD
1142	29	Slightly cloudy	6.10	420	11.2	
1216	43.5	Slightly cloudy	6.05	450	11.1	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES: 1) MS/MSD taken at this well.
2) Used 1 Drum for purge water
3) Could not get pump far enough down well had to bail to 3rd well volume.

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW 8D
DEPTH OF WELL (TD): 56.5
DEPTH TO WATER (DTW): 14.8
CASING DIAMETER: 4"
PURGE METHOD: Submersable pump

SAMPLE DATE: 11/14/95
SAMPLERS: Scott Kirchner, Jim Ramig
WEATHER CONDITIONS: overcast, rainy
PUMP RATE: ~~5 gal/min~~ 5+gal/min as 11/14/95
WELL CONDITION: Good
HNU READINGS: "0"

TD(56.5) - DTW(14.8) X 0.66* = 27.5 ONE WELL VOLUME

27.5 ONE WELL VOLUME X 3 THREE VOLUMES = 82.5 **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1503	27.5	cloudy	8.26	1000	10.9	
1508	55	Clearer	7.91	980	11.4	
1513	82.5	Clearer	7.97	1052	11.0	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES: Used 2 Drums for purge water
Strong Sulfur type smell to well and drum No HNu reading

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW 95
DEPTH OF WELL (TD): 27.0
DEPTH TO WATER (DTW): 10.6
CASING DIAMETER: 4"
PURGE METHOD: Submersible pump

SAMPLE DATE: 11/15/95
SAMPLERS: Scott Richardson, Jim Romeo
WEATHER CONDITIONS: Overcast snowing
PUMP RATE: 4 gal/min 6"+
WELL CONDITION: Good
HNU READINGS: None poor weather

TD(27.0) - DTW(10.6) X 0.66* = 10.8
ONE WELL VOLUME

10.8 X 4 = 43.2
ONE WELL VOLUME THREE VOLUMES **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1154	12	Slightly Cloudy	6.85	650	10.5	
1157	24	Same	6.56	700	9.0	
1200	36	Clearer	6.49	800	9.0	
1203	48	Clear	6.43	800	9.0	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES: pH indicated low buffering
1 Std 1 drum for purge water

CDM FEDERAL PROGRAMS CORPORATION

FOREST GLEN
WELL NUMBER: MW 90
DEPTH OF WELL (TD): 56.3
DEPTH TO WATER (DTW): 10.8
CASING DIAMETER: 4"
PURGE METHOD: Submersible pump

SAMPLE DATE: 11/15/95
SAMPLERS: Scott Kirchner, Jim Romig
WEATHER CONDITIONS: Overcast snow 6"+ snowing
PUMP RATE: 5 gal/min
WELL CONDITION: Good
HNU READINGS: None Bad weather

TD(56.3) - DTW(10.8) X 0.66* = 30.0 / ONE WELL VOLUME

30.0 / ONE WELL VOLUME X 3 / THREE VOLUMES = 90 / **PURGE VOLUMES

Time	Gallons Purged	Purge Water Description	pH	Conductivity	Temp.	Comments
1045	~~30~~ ~~82~~	Slightly cloudy	8.82	900	11.0	
1052	60	Same	6.46	880	11.0	
1055	90	Clearer	6.43	820	11.0	

*Conversion factor for four inch diameter wells - 0.66 gallons of water in 1 linear foot of water.

**A minimum of three well volumes will be purged. Purging will continue until readings stabilize within 10 percent or five well volumes have been removed.

WELL SAMPLED FOR:

Targeted Organics ✓
TCL VOCs ✓
TCL Extractables ✓
TAL Metals ✓
TAL Cyanide ✓
TOC ✓

BOD ✓
TKN ✓
Ammonia ✓
Nitrate/Nitrite ✓
COD ✓
TDS ✓

NOTES: Used 2 Drums for Purge water

APPENDIX J

WETLAND DELINEATION DATA

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen/053-2130 Sample Location 1
Site Location Niagara Falls, NY Community Type meadow/field
Date 4/25/95 Samplers Nancy Zygmont & Cornell Rosiu

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
Herbs	Red osier dogwood/Cornus stolonifera	FACW+
	Late goldenrod/Solidago gigantea	FACW
	Wild strawberry/Fragaria canadensis	FACU
	moss - not identified to genus and species	
	Oxeye daisy/Chrysanthemum leucanthemum	Not given FAC

Percent of species that are OBL, FACW, and/or FAC 75% Other indicators ———
Is the hydrophytic vegetation criterion met? Yes Rationale >50% OBL, FACW, and/or FAC

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
0-1"	5 GY 4/1 matrix, 5 GY 6/1 mottle	gley
1-4"	10 YR 4/2 matrix, 10 YR 5/6 mottle	
4-14"	10 YR 4/2 matrix, 10 YR 5/4 mottle, 10 R 4/8 mottle	

Soil types, as mapped by SCS Odessa (0-2% slope) w/ possible Lakemont inclusions
On hydric soil list? Lakemont is
Is the hydric soil criterion met? Yes Rationale Matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? Not at surface
Depth to saturated soil 7 inches
Field evidence of surface inundation/soil saturation ———
Is the wetland hydrology criterion met? Yes Rationale Saturated within 12 inches

COMMENTS Palustrine broad-leaved deciduous scrub-shrub wetland

Is the plant community a wetland? Yes
Rationale All 3 criteria are met.

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen / 053-2L3U Sample Location 4
Site Location Niagara Falls, NY Community Type Woodland
Date 4/25/95 Samplers Nancy Zygmont & Connell Rosiu

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
Trees	Black ash / Fraxinus nigra	FACW
Sapling/Shrubs-	Black ash / Fraxinus nigra	FACW
Herbs-	rush-garlic / Allium sibiricum	FAC
	moneywort / Lysimachia nummularia	OBL
	large-leaved avens / Geum macrophyllum	FACW

Percent of species that are OBL, FACW, and/or FAC 100% Other indicators
Is the hydrophytic vegetation criterion met? Yes Rationale >50% of dominants FAC, FACW, and/or OBL

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
0-17"	Gleyed N 3/0	Organic A horizon
17-20"	10 YR 3/1 matrix 10 YR 4/2 mottles	mottled + gleyed

Soil types, as mapped by SCS Odessa (0-2% slope) w/possible Lakemont inclusions
On hydric soil list? Yes, as Lakemont is in depressions
Is the hydric soil criterion met? Yes Rationale Matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? (inundated nearby – within meandering stream)
Depth to saturated soil 5 inches
Field evidence of surface inundation/soil saturation Water-stained leaves, some drift lines
Is the wetland hydrology criterion met? Yes Rationale Saturated w/in 12 inches

COMMENTS Palustrine forested broad-leaved deciduous wetland

Is the plant community a wetland? Yes
Rationale All 3 criteria are met

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen/053-2L30 Sample Location 5
Site Location Niagara Falls, NY Community Type Woodland
Date 4/24/95 Samplers Nancy Zygmont & Connell Rosiu

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
Trees	Big shellbark hickory/Carya laciniosa	FAC
	White oak/Quercus alba	FACU-
	~~Black~~ Green ash/Fraxinus ~~nigra~~ pennsylvanica	FACW
Shrubs	Black ash/Fraxinus nigra	FACW
	Purple-fruited chokeberry/Aronia atropurpurea	FACW
	gray dogwood/Cornus racemosa	FAC
Herbs	~~bare~~ Moneywort/Lysimachia nummularia	OBL

Percent of species that are OBL, FACW, and/or FAC 78.5% Other indicators —
Is the hydrophytic vegetation criterion met? Yes Rationale >50% OBL, FACW, and/or FAC

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
0-8"		organic A horizon
8-12"	5YR 3/2 matrix 7.5 YR 5/8 mottle	mottled/no gleying

Soil types, as mapped by SCS Odessa w/ Lakemont inclusions in drainages (0-2% slopes)
On hydric soil list? Lakemont is
Is the hydric soil criterion met? Yes Rationale matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? yes, nearby (w/in ~~5~~ 8 ft NZ) all sides (varies-4 inches)
Depth to saturated soil ~~3.5~~ 8 inches
Field evidence of surface inundation/soil saturation stained leaves, appears to have drainage
Is the wetland hydrology criterion met? Yes Rationale Saturated w/in 12 inches pattern

COMMENTS Palustrine forested broad-leaved deciduous wetland

Is the plant community a wetland? Yes
Rationale All three criteria are met

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen/053-213U Sample Location 7
Site Location Niagara Falls, NY Community Type Woodland
Date 4/24/93 Samplers Nancy Zygmont & Connell Rosiu

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
Trees	American beech/Fagus grandifolia	FACU
	White Oak / Quercus alba	FACU-
	black ash/Fraxinus nigra	FACW
Shrubs	Purple-fruited chokeberry/Aronia atropurpurea	FACW
	red maple/Acer rubrum	FAC
	American beech/Fagus grandifolia	FACU
herbs	Trout lily/Erythronium americanum	FAC
	Running strawberry bush/Evonymus obovatus	FAC

Percent of species that are OBL, FACW, and/or FAC >60% Other indicators shallow roots - beech + red mapl
Is the hydrophytic vegetation criterion met? Yes Rationale >50% OBL, FACW, and/or FAC

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
0-8"		Organic A horizon
8-14"	10YR 4/2	
14-18"	10YR 6/2 matrix 10YR 6/8 mottle	mottle/no gleying

Soil types, as mapped by SCS Odessa (0-2% slopes) w/possible Lakemont inclusions
On hydric soil list? Lakemont is
Is the hydric soil criterion met? Yes Rationale Matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? Standing water w/in 30ft radius in small pocket depressions (approx. 1 inch)
Depth to saturated soil 7 inches
Field evidence of surface inundation/soil saturation
Is the wetland hydrology criterion met? Yes Rationale Saturated w/in 12 inches

COMMENTS Palustrine forested broad-leaved deciduous wetland

Is the plant community a wetland? Yes
Rationale all 3 criteria met

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen/053-2130 Sample Location 8
Site Location Niagara Falls, NY Community Type Meadow/field (S/S
Date 4/25/93 Samplers Nancy Zygmont

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
~~Shrubs~~	Gray dogwood/Cornus racemosa	FAC
Herbs	Knapweed (black or brown)/Centaurea (nigra or ~~brunella~~ NR jacea)	FAC
	Bird's-foot trefoil/Lotus corniculatus	FACU-
	Late goldenrod/Solidago gigantea	FACW
	Yellow avens/Geum aleppicum ~~var. strictum~~	FAC
	moss - not identified by genus + species	NR Not given

Percent of species that are OBL, FACW, and/or FAC 80% Other indicators ———
Is the hydrophytic vegetation criterion met? Yes Rationale >50% OBL, FACW, and/or FAC

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
0-1/2"		organic A horizon
1/2-4"	10YR 4/1 matrix	
	10YR 5/6 mottle	mottled, no gley
4-19"	10YR 4/2 streaked clay	clay, silt + a little sand

Soil types, as mapped by SCS Odessa (0-2% slopes) w/possible Lakemont inclusions
On hydric soil list? Lakemont is
Is the hydric soil criterion met? Yes Rationale Matrix Chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? Not at surface
Depth to saturated soil 6 inches ———
Field evidence of surface inundation/soil saturation ———
Is the wetland hydrology criterion met? Yes Rationale Saturated within 12 inches

COMMENTS Palustrine broad-leaved deciduous scrub-shrub wetland

Is the plant community a wetland? Yes
Rationale All 3 criteria are met

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen/053-2130 Sample Location 9
Site Location Niagara Falls, NY Community Type Woodland
Date 4/24/95 Samplers Nancy Zygmont & Connell Rosiu

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
Trees	American beech/Fagus grandifolia	FACU
	Black ash/Fraxinus nigra	FACW
	Red Maple/Acer rubrum	FAC
Shrubs	Purple-fruited chokeberry/Aronia atropurpurea	FACW
	Black ash/Fraxinus nigra	FACW
	American beech/Fagus grandifolia	FACU
Herbs	Meadow buttercup/Ranunculus acris	FAC+

Percent of species that are OBL, FACW, and/or FAC >70% Other indicators —
Is the hydrophytic vegetation criterion met? Yes Rationale >50% OBL, FACW, and/or FAC

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
0-13"	—	Organic A horizon
13-17"	2.5Y 3/2 matrix 10YR 5/8 mottle	mottled w/no gleying

Soil types, as mapped by SCS Odessa (0-2% slope) w/possible Lakemont inclusions in depressions/drainages
On hydric soil list? Lakemont is
Is the hydric soil criterion met? Yes Rationale Matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? Standing water in depressions/drainages
Depth to saturated soil ~~Lakemont is~~ 5 inches
Field evidence of surface inundation/soil saturation Shallow rooting of beech and maple
Is the wetland hydrology criterion met? Yes Rationale ~~Matrix chroma of 2 or less in~~ Saturated w/in 12 inches

COMMENTS Palustrine forested broad-leaved deciduous wetland

Is the plant community a wetland? Yes
Rationale All 3 criteria met

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen/053-2130 Sample Location 10 (new)
Site Location Niagara Falls, NY Community Type Woodland
Date 4/24/95 Samplers Nancy Zygmont & Cornell Rosiu

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
Trees	Black ash/Fraxinus nigra	FACW
	Green ash/Fraxinus pennsylvanica	FACW
	Red maple/Acer rubrum	FAC
	Hophornbeam/Ostrya virginiana	FACU-
also shrub	American beech/Fagus grandifolia	FACU
shrubs	Purple-fruited chokeberry/Aronia atropurpurea	FACW
	Red maple/Acer rubrum	FAC
	Black ash/Fraxinus nigra	FACW
	Hophornbeam/Ostrya virginiana	FACU

Percent of species that are OBL, FACW, and/or FAC 60% Other indicators
Is the hydrophytic vegetation criterion met? Yes Rationale >50% OBL, FACW, and/or FAC

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
0-6"		Organic A horizon
6-18"	7.5YR 4/1 matrix 10YR 6/8 mottle	mottled w/no gleying

Soil types, as mapped by SCS Odessa (0-2% slopes) w/possible Lakemont inclusions
On hydric soil list? Lakemont is
Is the hydric soil criterion met? Yes Rationale Matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? Standing water w/in 8 feet in small depressions (approx. 1 inch)
Depth to saturated soil 7 inches
Field evidence of surface inundation/soil saturation
Is the wetland hydrology criterion met? Yes Rationale Saturated w/in 12 inches

COMMENTS Palustrine forested broad-leaved deciduous wetland

Is the plant community a wetland? Yes
Rationale All 3 criteria are met.

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

175 ft. N of S border + 100 ft. E of T mark Drive

WA Name/No. Forest Glen / 053-2230
Sample Location ~~#~~ 11 (new)
Site Location Niagara Falls, NY
Community Type Woodland
Date 4/24/95
Samplers Nancy Zygmont + Connell Rosiu

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
Trees	Chestnut Oak/Quercus prinus	FAC
	Big shellbark hickory/Carya laciniosa	FAC
	Red maple / Acer rubrum	FAC
Shrubs	Purple-fruited chokeberry / Aronia atro-purpurea	FACW
	Red maple / Acer rubrum	FAC
	Black ash / Fraxinus nigra	FACW
Herbs	Yellow avens / Geum aleppicum ~~var. strictum~~ NZ	FAC

Percent of species that are OBL, FACW, and/or FAC 100% Other indicators ______

Is the hydrophytic vegetation criterion met? yes Rationale >50% OBL, FACW, and/or FAC

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
0 - 8"		Organic A horizon
8 - 17"	7.5 YR 4/1 matrix 10 YR 6/8 mottle	mottled w/no gleying

Soil types, as mapped by SCS Odessa (0-2%) slopes w/possible Lakemont inclusions

On hydric soil list? Lakemont is

Is the hydric soil criterion met? yes Rationale Matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? Standing water w/in 8 feet (about 1 inch deep)

Depth to saturated soil 7 inches

Field evidence of surface inundation/soil saturation ______

Is the wetland hydrology criterion met? Yes Rationale Saturated w/in 12 inches

COMMENTS Palustrine ~~broad~~ NZ forested broad-leaved deciduous wetland.

Is the plant community a wetland? Yes

Rationale All 3 criteria are met.

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen / 053-2430 Sample Location 12 (new)
Site Location Niagara Falls, NY Community Type Woodland
Date 4/24/95 Samplers Nancy Zygmont & Connell Rosiu

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
Trees	American beech / Fagus grandiflia	FACU
	Basswood / Tilia americana	FAC
	Ironwood / Carpinus caroliniana	FAC
	Bigshellbark Hickory / Carya laciniosa	FAC
	Green ash / Fraxinus pennsylvanica	FACW
Shrubs	Purple-fruited chokeberry / Aronia atropurpurea	FACW
	Bigshellbark hickory / Carya laciniosa	FAC
	Black Ash / Fraxinus nigra	FACW
	Hop hornbeam / Ostrya virginiana	FACU-
	American beech / Fagus grandifolia	

Percent of species that are OBL, FACW, and/or FAC ~~70%~~ Other indicators
Is the hydrophytic vegetation criterion met? Yes Rationale >50% OBL, FACW, and/or FAC

SOILS

	Approximate Depth	Munsell Chart Value/Chroma	Description
Rep. 1	0-14"	2.5 YR 3/2 matrix	Organic A horizon
	14-18"	2.5 YR 5/4 mottle	mottled / No gleying
Rep. 2	0-14"	10 YR 4/2 matrix	Organic A horizon
	14-18"	10 YR 3/1 mottle	mottled / no gleying

Soil types, as mapped by SCS Odessa (0-2 slope) w/possible Lakemont inclusions
On hydric soil list? Lakemont is
Is the hydric soil criterion met? Yes Rationale Matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? Standing water in depressions nearby (~1 inch)
Depth to saturated soil 6 inches
Field evidence of surface inundation/soil saturation
Is the wetland hydrology criterion met? Yes Rationale Saturated w/in 12 inches

COMMENTS Palustrine forested broad-leaved deciduous wetland

Is the plant community a wetland? Yes
Rationale All 3 criteria are met

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen /053-213U Sample Location 13 (new)
Site Location Niagara Falls, NY Community Type meadow/field
Date 4/25/95 Samplers Nancy Zygmont

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
~~Shrubs~~ NZ Herbs	Gray dogwood/Cornus racemosa	FAC
	Blue (or false) vervain/Verbena hastata	FACW+
	moss - not identified by genus + species	Not given
	Queene Anne's lace/Daucus carota	FAC
~~Frag~~ NZ	Wild strawberry/Fragaria canadensis	FACU

Percent of species that are OBL, FACW, and/or FAC 75% Other indicators ———
Is the hydrophytic vegetation criterion met? Yes Rationale >50% OBL, FACW, and/or FAC

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
0 - 1/2"		Organic A horizon
1/2 - 4"	10 YR 4/1 matrix 10 YR 5/6 mottle	
4 - 19"	10 YR 4/2 streaked clay	

Soil types, as mapped by SCS Odessa (0-2% slope) w/possible Lakemont inclusions
On hydric soil list? Lakemont is
Is the hydric soil criterion met? Yes Rationale Matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? Not at Surface
Depth to saturated soil 7 inches
Field evidence of surface inundation/soil saturation ———
Is the wetland hydrology criterion met? Yes Rationale Saturated with 12 inches

COMMENTS Palustrine broad-leaved deciduous scrub-shrub wetland

Is the plant community a wetland? Yes
Rationale All 3 criteria are met

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen / 053-243U Sample Location 14 (new)
Site Location Niagara Falls, NY Community Type meadow/field
Date 4/25/95 Samplers Nancy Zygmont & Cornell Rosiu

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
Herbs	Red Osier dogwood / Cornus stolonifera	FACW+
	Knapweed (black or brown) / Centaurea (nigra or jacea)	FAC
	Blue (or false) verrain / Verbena hastata	FACW+
	moss - not identified by genus+species	Not given
	wild strawberry / Fragaria canadensis	FACU

Percent of species that are OBL, FACW, and/or FAC 75% Other indicators ____
Is the hydrophytic vegetation criterion met? Yes Rationale >50% OBL, FACW, and/or FAC

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
C-15"	5 GY 4/1 matrix 10 YR 4/4 mottle	} Concretions
15-19"	10YR 4/2 matrix 10 R 4/6 mottle	Mottling, no gleying

Soil types, as mapped by SCS Odessa (C-2 % slope) w/possible Lakemont inclusions
On hydric soil list? Lakemont is
Is the hydric soil criterion met? Yes Rationale Matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? Standing water in drainageway about 12 feet to NE (approx. 1/2 inch)
Depth to saturated soil approx 5 inches
Field evidence of surface inundation/soil saturation ____
Is the wetland hydrology criterion met? Yes Rationale Saturated within 12 inches

COMMENTS Palustrine broad-leaved deciduous scrub-shrub wetland

Is the plant community a wetland? Yes
Rationale All 3 criteria are met

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen/053-2630 Sample Location 15 (new)
Site Location Niagara Falls, NY Community Type meadow/field
Date 4/25/95 Samplers Nancy Zygmont & Connell Roslu

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
Herbs	Gray dogwood/Cornus racemosa	FAC
	Knapweed (black or brown)/Centaurea (nigra or jacea)	FAC
	Canada goldenrod/Solidago canadensis	FACU
	Blue (or false) vervain/Verbena hastata	FACW+
	Oxeye daisy/Chrysanthemum leucanthemum	FAC

Percent of species that are OBL, FACW, and/or FAC 80% Other indicators —
Is the hydrophytic vegetation criterion met? Yes Rationale >50% OBL, FACW, and/or FAC

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
0-3"	5GY 4/1 gley matrix	
	10YR 5/6 mottle	(slight)
3-10"	5GY 4/1 gleying	
10-17"	10YR 4/2 matrix 2 concretions	

Soil types, as mapped by SCS 10R 4/6 mottle 5 Odessa (0-2% slope) w/possible Lakemont inclusions
On hydric soil list? Lakemont is
Is the hydric soil criterion met? Yes Rationale Matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? Not at surface
Depth to saturated soil 6 inches
Field evidence of surface inundation/soil saturation —
Is the wetland hydrology criterion met? Yes Rationale Saturated within 12 inches

COMMENTS Palustrine broad-leaved deciduous scrub-shrub wetland

Is the plant community a wetland? Yes
Rationale All 3 criteria are met

ROUTINE ONSITE WETLAND DETERMINATION DATA FORM

WA Name/No. Forest Glen/053-2430 Sample Location 16 (new)
Site Location Niagara Falls, NY Community Type meadow/field
Date 4/25/95 Samplers Nancy Zygmont + Cornell Rosiu

VEGETATION

List 3 dominant species per stratum - 5 if only 1 or 2 strata.

Stratum	Common Name/Scientific Name	Indicator Status
Herbs	Gray dogwood/Cornus racemosa	FAC
	Late goldenrod/Solidago gigantea	FACW
	Bladder campion/Silene cucubalus	FAC
	grass - not identified by genus + species	
	Wild strawberry/Fragaria canadensis	Not given FACU

Percent of species that are OBL, FACW, and/or FAC 75% Other indicators ———
Is the hydrophytic vegetation criterion met? Yes Rationale >50% OBL, FACW, and/or FAC

SOILS

Approximate Depth	Munsell Chart Value/Chroma	Description
0-1"		organic A horizon
1-10"	10YR 4/1 matrix 10YR 5/8 mottle	
10-15"	10YR 4/2 (no mottle)	

Soil types, as mapped by SCS Odessa (0-2% slope) w/possible Lakemont inclusions
On hydric soil list? Lakemont is
Is the hydric soil criterion met? Yes Rationale Matrix chroma of 2 or less in mottled soils

HYDROLOGY

Is ground surface inundated/saturated (depth)? Not at surface
Depth to saturated soil 7 inches
Field evidence of surface inundation/soil saturation ———
Is the wetland hydrology criterion met? Yes Rationale Saturated within 12 inches

COMMENTS Palustrine broad-leaved deciduous scrub-shrub wetland

Is the plant community a wetland? Yes
Rationale All 3 criteria are met

ATYPICAL SITUATION DATA FORM

WA Name/No. Forest Glen/053-2130 Sample Location Soil boring loc. SB-13

Site Location Approximately 125ft. S of Edgewood Drive + Approx. 50ft. E of T Mark Drive Community Type Forested

Date Recompiled 4/2/96 Samplers N. Zygmont, C. Rosiu

VEGETATION

1. Type of Alteration: Vegetation removed for placement of fill material
2. Effect on vegetation: Appearance of early successional and upland species
3. Previous Vegetation: No information on previous vegetation at this location. Aerial photo from 1966 shows area cleared.
4. Hydrophytic vegetation? Yes_____ No ✓

SOILS

1. Type of alteration: Original soil replaced by about 6 feet of fill material
2. Effect on soils: Original soil removed
3. Previous soils: No information for previous soils at this location
4. Hydric soils? Yes_____ No ✓

HYDROLOGY

1. Type of alteration: Approximately 6 feet of fill placed in area where ~~of excavated~~ original soils were excavated
2. Effect on hydrology: Area is slightly raised over adjacent soil surface (by 1-2 feet)
3. Previous hydrology: No information on previous hydrology for this location
4. Wetland hydrology? Yes_____ No ✓

ATYPICAL SITUATION DATA FORM

WA Name/No. Forest Glen/053-2L3U Sample Location Soil boring loc. SB-14
Site Location Approximately 125ft. S of Edgewood Drive and 175 ft. E of T Mark Drive Community Type Forested
Date Recompiled 4/2/96 Samplers N. Zygmont, C. Rosiu

VEGETATION

1. Type of Alteration: Vegetation removed for placement of fill material
2. Effect on vegetation: Appearance of early successional and upland species
3. Previous Vegetation: No information on previous vegetation at this location. Aerial photo from 1966 shows area cleared.
4. Hydrophytic vegetation? Yes_____ No ✓

SOILS

1. Type of alteration: Original soil replaced by about 5 feet of fill material
2. Effect on soils: Original soil removed
3. Previous soils: No information for previous soils at this location
4. Hydric soils? Yes_____ No ✓

HYDROLOGY

1. Type of alteration: Approximately 5 feet of fill placed in area of excavated original soils
2. Effect on hydrology: Area is slightly raised over adjacent soil surface (by 1-2 feet)
3. Previous hydrology: No information on previous hydrology for this location
4. Wetland hydrology? Yes_____ No ✓

ATYPICAL SITUATION DATA FORM

WA Name/No. Forest Glen/053-230 Sample Location Soil boring loc. SB-10

Site Location Approx. 50 ft E of T Mark Drive and 50 ft. S of Edgewood Drive Community Type Forested

Date Recompiled 4/2/96 Samplers N. Zygmont, C. Rosiu

VEGETATION

1. Type of Alteration: Vegetation removed for placement of fill material
2. Effect on vegetation: Appearance of early successional and upland species
3. Previous Vegetation: No information on previous vegetation at this location. Aerial photo from 1966 shows area cleared
4. Hydrophytic vegetation? Yes_____ No ↘

SOILS

1. Type of alteration: Original soil replaced by about 6 feet of fill material
2. Effect on soils: Original soil removed
3. Previous soils: No information for previous soils at this location
4. Hydric soils? Yes_____ No ↘

HYDROLOGY

1. Type of alteration: Approximately 6 feet of fill placed in area of excavated original soils
2. Effect on hydrology: Area is slightly raised over adjacent soil surface (by 1-2 feet)
3. Previous hydrology: No information on previous hydrology for this location
4. Wetland hydrology? Yes_____ No ↘

ATYPICAL SITUATION DATA FORM

WA Name/No. Forest Glen/053-2L3U Sample Location Ecological Location #6 Soil boring Location SBCENTER

Site Location Approx. 100 ft. S of Edgewood Drive + 120 ft. E of T Mark Drive Community Type Forested

Date Recompiled 4/2/96 Samplers N. Zygmont, C. Rosiu

VEGETATION

1. Type of Alteration: Vegetation removed ~~for~~ placement of fill material at location
2. Effect on vegetation: Appearance of early successional and upland species
3. Previous Vegetation: No information on previous vegetation at this location. Aerial photo from 1966 shows area cleared.
4. Hydrophytic vegetation? Yes_____ No ↘

SOILS

1. Type of alteration: Original soil replaced by about 6 feet of fill material
2. Effect on soils: Original soil removed
3. Previous soils: No information for previous soils at this location
4. Hydric soils? Yes_____ No ↘

HYDROLOGY

1. Type of alteration: Approximately 6 feet of fill placed in area of excavated original soils
2. Effect on hydrology: Area is raised slightly (1-2 feet) over the adjacent soil surface (to ~~soil~~ south of location)
3. Previous hydrology: No information on previous hydrology for this location
4. Wetland hydrology? Yes_____ No ↘

ATYPICAL SITUATION DATA FORM

WA Name/No. Forest Glen/053-2130 Sample Location Soil boring loc. Berm-1

Site Location Approx. 250 ft. N of Berm-2 location Community Type Scrub-shrub

Date Recompiled 4/2/96 Samplers N. Zygmont, C. Rosiu

VEGETATION

1. Type of Alteration: Vegetation removed or covered by placement of fill

2. Effect on vegetation: Appearance of early successional and upland species

3. Previous Vegetation: In 1966 aerial photograph, previous vegetation appears to be field species (forbs ~~or possibly small shrubs~~) NZ NZ

4. Hydrophytic vegetation? Yes_____ No ↘

SOILS

1. Type of alteration: Approximately 12 feet of fill (Fill appears to be mixed with some native soil)

2. Effect on soils: Original soil buried

3. Previous soils: Original soil encountered at approximately 12 feet below current soil surface

4. Hydric soils? Yes_____ No ↘

HYDROLOGY

1. Type of alteration: 12 feet of fill material placed on original soil

2. Effect on hydrology: Area no longer saturated

3. Previous hydrology: ~~No~~ NZ Berm not present in 1966 aerial photograph. In that photo, berm area appears flat (as rest of the northern aspect)

4. Wetland hydrology? Yes_____ No ↘

ATYPICAL SITUATION DATA FORM

WA Name/No. Forest Glen/053-213U Sample Location Soil boring loc. Berm-3

Site Location Approx. 250 ft. N of Berm-3 location Community Type Scrub-shrub

Date Recompiled 4/2/96 Samplers N. Zygmont, C. Rosiv

VEGETATION

1. Type of Alteration: Vegetation removed or covered by placement of fill
2. Effect on vegetation: Appearance of early successional and upland species
3. Previous Vegetation: In 1966 aerial photograph, previous vegetation appears to consist of forbs
4. Hydrophytic vegetation? Yes _____ No ✓

SOILS

1. Type of alteration: Approx. 14 feet of fill (Fill appears to be mixed with some native soil)
2. Effect on soils: Original soil buried
3. Previous soils: Original soil encountered at approximately 14 feet below current soil surface.
4. Hydric soils? Yes _____ No _____

HYDROLOGY

1. Type of alteration: 14 feet of fill material placed on original soil
2. Effect on hydrology: Area no longer saturated
3. Previous hydrology: In 1966 aerial photograph (prior to berm construction) location appears to be flat (like the rest of the northern aspect)
4. Wetland hydrology? Yes _____ No ✓

ATYPICAL SITUATION DATA FORM

WA Name/No. Forest Glen/053-2L3U Sample Location Soil boring loc. Berm-3

Site Location Approx. 250ft. N of Berm-7 location Community Type Scrub-shrub

Date Recompiled 4/2/96 Samplers N. Zygmont, C. Rosiu

VEGETATION

1. Type of Alteration: Vegetation removed or covered by placement of fill
2. Effect on vegetation: Appearance of early successional and upland species
3. Previous Vegetation: In 1966 aerial photograph, previous vegetation appears to consist of forbs
4. Hydrophytic vegetation? Yes_____ No ✓

SOILS

1. Type of alteration: Approximately 14 feet of fill (Fill ~~from 0 to 5 feet~~ appears to be mixed with some native soil)
2. Effect on soils: Original soil buried
3. Previous soils: Original soil encountered at approximately 14 feet below current soil surface
4. Hydric soils? Yes_____ No ✓

HYDROLOGY

1. Type of alteration: 14 feet of fill material placed on original soil
2. Effect on hydrology: Area no longer saturated
3. Previous hydrology: In 1966 aerial photograph (prior to berm construction) location appears flat (as the rest of the northern aspect)
4. Wetland hydrology? Yes_____ No ✓

ATYPICAL SITUATION DATA FORM

WA Name/No. Forest Glen/053-213U Sample Location Soil boring location Berm-4

Site Location Approx. 250 ft. N of Berm-5 location Community Type Scrub-shrub

Date Recompiled 4/2/96 Samplers N. Zygmont, C. Rosiu

VEGETATION

1. Type of Alteration: Vegetation removed or covered by placement of fill
2. Effect on vegetation: Appearance of early successional and upland species
3. Previous Vegetation: In 1966 aerial photograph, previous vegetation appears to consist of forbs
4. Hydrophytic vegetation? Yes_____ No ↘

SOILS

1. Type of alteration: Approximately 13 feet of fill (Fill appears to be mixed with some native soil)
2. Effect on soils: Original soil buried
3. Previous soils: Original soil encountered at approximately 14 feet below current soil surface
4. Hydric soils? Yes_____ No ↘

HYDROLOGY

1. Type of alteration: 13 feet of fill material placed on original soil
2. Effect on hydrology: Area no longer saturated
3. Previous hydrology: In 1966 aerial photograph (prior to berm construction) location appears flat (as the rest of the northern aspect)
4. Wetland hydrology? Yes_____ No ↘

ATYPICAL SITUATION DATA FORM

WA Name/No. Forest Glen/053-2L3U Sample Location Soil boring location Berm-E

Site Location Western border of site + Approx. 175 ft. N of E Gill Creek Community Type Scrub-shrub

Date Recompiled 4/2/96 Samplers N. Zygmont, C. Rosiv

VEGETATION

1. Type of Alteration: Vegetation removed or covered by placement of fill
2. Effect on vegetation: Appearance of early successional and upland species
3. Previous Vegetation: In 1966 aerial photograph, previous vegetation appears to consist of forbs
4. Hydrophytic vegetation? Yes_____ No ✓

SOILS

1. Type of alteration: Approximately 5 feet of fill. (Fill appears to have some native soil mixed in with it)
2. Effect on soils: Original soil buried
3. Previous soils: Original soil encountered at approximately 5 feet below current soil surface
4. Hydric soils? Yes_____ No ✓

HYDROLOGY

1. Type of alteration: 5 feet of fill material placed on original soil ~~surface~~
2. Effect on hydrology: Area no longer saturated
3. Previous hydrology: In a 1966 aerial photograph (prior to berm construction) location appears flat (as the rest of the northern aspect)
4. Wetland hydrology? Yes_____ No ✓

APPENDIX K

FULL ANALYTICAL DATA RESULTS

SAMPLE ANALYSIS QUALIFIERS

Organic Qualifiers:

U - Compound was analyzed for but not detected. The associated numerical value is the sample quantitation.

J - Estimated data due to exceeded quality control criteria.

N - Presumptive evidence of a compound.

P - The difference for detected concentration of a pesticide/Aroclor target analyte is greater than 25% between the two GC columns.

C - Identification of pesticide results was confirmed by GC/MS.

B - Analyte is found in the associated blank and in the sample.

E - Compound concentration exceeds the calibration range of the GC/MS instrument for that specific analysis.

D - Compound is identified at a secondary dilution factor.

A - TIC is suspected aldol - condensation product.

R - Data is rejected due to exceeded quality control criteria.

Inorganic Qualifiers:

B - Reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Analyte was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference.

M - Duplicate injection precision not met.

N - Sample recovery is 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.

R - Data is rejected.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

AOC1 - BERM
SUBSURFACE SOIL DATA

SAMPLE NAME		BERM1	BERM2	BERM2A	BERM3	BERM3A	BERM4
SAMPLE DATE		06/19/95	06/19/95	06/19/95	06/20/95	06/20/95	06/20/95
TEXT 001							
SAMPLE DEPTH		14.00 - 16.00'	8.00 - 10.00'	4.00 - 6.00'	16.00 - 18.00'	10.00 - 12.00'	12.00 - 14.00'
Conventinal Parameters							
pH	units	8.50	7.90	7.80	7.80	8.40	8.10
SULFIDE	mg/kg						
TOTAL ORGANIC CARBON	mg/kg	12,400.00	95,800.00	16,300.00	13,900.00	56,200.00	40,500.00
TOTAL SOLIDS	%	83.60	85.50	86.20	82.20	84.60	79.70
TOTAL SOILDS (EXTENDED)	%						
ALKALINITY	mg/l						
AMMONIA	mg/l						
BOD	mg/l						
COD	mg/l						
TOTAL DISSOLVD SOLIDS	mg/l						
HARDNESS	mg/l						
NITRATE/NITRITE	mg/l						
TOTAL KJELDAHL NITROGEN	mg/l						

SAMPLE NAME		BERM5
SAMPLE DATE		06/20/95
TEXT 001		
SAMPLE DEPTH		6.00 - 8.00'
Conventinal Parameters		
pH	units	8.30
SULFIDE	mg/kg	
TOTAL ORGANIC CARBON	mg/kg	42,700.00
TOTAL SOLIDS	%	79.30
TOTAL SOILDS (EXTENDED)	%	
ALKALINITY	mg/l	
AMMONIA	mg/l	
BOD	mg/l	
COD	mg/l	
TOTAL DISSOLVD SOLIDS	mg/l	
HARDNESS	mg/l	
NITRATE/NITRITE	mg/l	
TOTAL KJELDAHL NITROGEN	mg/l	

SAMPLE NAME		BERM1	BERM2	BERM2A	BERM3	BERM3A	BERM4
SAMPLE DATE		06/19/95	06/19/95	06/19/95	06/20/95	06/20/95	06/20/95
TEXT 001							
SAMPLE DEPTH		14.00 - 16.00'	8.00 - 10.00'	4.00 - 6.00'	16.00 - 18.00'	10.00 - 12.00'	12.00 - 14.00'
Grain Analysis							
GRAVEL	%	0.00 J	14.00 J	6.40 J	1.10 J	12.60 J	7.10 J
SAND (A) COARSE	%	0.30	10.10	8.30	0.70	22.20	2.60
SAND (B) MEDIUM	%	0.40	5.00	3.60	0.20	11.60	1.20
SAND (C) FINE	%	1.40 J	11.80 J	9.30 J	0.70 J	13.80 J	4.00 J
SAND (D) FINE	%	0.60 J	3.00 J	2.50 J	0.30 J	1.10 J	1.60 J
SILTS/CLAYS (<0.075 MM)	%						
SILT (A)	%	20.60 J	19.10 J	12.70 J	0.00 J	0.00 J	1.30 J
SILT (B)	%	12.80	14.80	12.40	12.40	5.90	20.70
CLAY	%	20.80	11.00	3.10	16.00	8.10	17.60
COLLOIDS	%	43.20 J	11.10 J	41.80 J	61.50 J	24.70 J	43.90 J
TOTALS FOR GROUP		100.10	99.90	100.10	92.90	100.00	100.00

SAMPLE NAME		BERM5	
SAMPLE DATE		06/20/95	
TEXT 001			
SAMPLE DEPTH		6.00 - 8.00'	
Grain Analysis			
GRAVEL	%	0.00	J
SAND (A) COARSE	%	1.40	
SAND (B) MEDIUM	%	0.80	
SAND (C) FINE	%	2.90	J
SAND (D) FINE	%	1.10	J
SILTS/CLAYS (<0.075 MM)	%		
SILT (A)	%	19.60	J
SILT (B)	%	22.00	
CLAY	%	21.40	
COLLOIDS	%	30.80	J
TOTALS FOR GROUP		100.00	

SAMPLE NAME		BERM1	BERM2	BERM2A	BERM3	BERM3A	BERM4
SAMPLE DATE		06/19/95	06/19/95	06/19/95	06/20/95	06/20/95	06/20/95
TEXT 001							
SAMPLE DEPTH		14.00 - 16.00'	8.00 - 10.00'	4.00 - 6.00'	16.00 - 18.00'	10.00 - 12.00'	12.00 - 14.00'
Targeted SemiVolatiles							
PHENYL ISOTHIOCYANATE	ug/kg	240.0 U	R	1100.0 J	240.0 U	1200.0 U	250.0 U
DIPHENYLAMINE	ug/kg	240.0 U	3100.0 J	11000.0 J	240.0 U	2500.0	400.0
2-MERCAPTOBENZOTHIAZOLE	ug/kg	240.0 U	30000.0 DJ	1100000.0 DJ	270.0 J	69000.0 JD	1700.0 J
2-ANILINOBENZOTHIAZOLE	ug/kg	240.0 U	39000.0 DJ	960000.0 D	90.0 J	140000.0 JD	4700.0 JD
PERYLENE	ug/kg	240.0 U	1400.0 J	3800.0 J	240.0 U	1200.0 UJ	3100.0 J
ANILINE	ug/kg	240.0 U	R	1200.0 UJ	240.0 U	1200.0 U	250.0 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	240.0 U	28000.0 DJ	210000.0 D	240.0 U	18000.0 JD	51000.0 JD
PHENOTHIAZINE	ug/kg	240.0 U	1900.0 J	4600.0 J	240.0 U	1800.0	60.0 J
BENZOTHIAZOLE	ug/kg	240.0 U	14000.0 J	150000.0 D	240.0 U	14000.0	410.0

SAMPLE NAME		BERM5
SAMPLE DATE		06/20/95
TEXT 001		
SAMPLE DEPTH		6.00 - 8.00'
Targeted SemiVolatiles		
PHENYL ISOTHIOCYANATE	ug/kg	250.0 U
DIPHENYLAMINE	ug/kg	250.0 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	250.0 U
2-ANILINOBENZOTHIAZOLE	ug/kg	250.0 U
PERYLENE	ug/kg	250.0 UJ
ANILINE	ug/kg	250.0 UJ
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	250.0 UJ
PHENOTHIAZINE	ug/kg	250.0 U
BENZOTHIAZOLE	ug/kg	250.0 U

SAMPLE NAME		BERM1	BERM2	BERM2A	BERM3	BERM3A	BERM4
SAMPLE DATE		06/19/95	06/19/95	06/19/95	06/20/95	06/20/95	06/20/95
TEXT 001							
SAMPLE DEPTH		14.00 - 16.00'	8.00 - 10.00'	4.00 - 6.00'	16.00 - 18.00'	10.00 - 12.00'	12.00 - 14.00'
Volatiles							
CHLOROMETHANE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
BROMOMETHANE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
VINYL CHLORIDE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
CHLOROETHANE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
METHYLENE CHLORIDE	ug/kg	15.00 U	24.00 U	21.00 U	13.00 U	14.00 U	10.00 U
ACETONE	ug/kg	12.00 J	11.00 J	10.00 J	13.00 UJ	31.00 UJ	40.00 UJ
CARBON DISULFIDE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
1,1-DICHLOROETHENE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
1,1-DICHLOROETHANE	ug/kg	12.00 U	13.00 U	3.00 J	13.00 U	10.00 U	2.00 J
1,2-DICHLOROETHENE (total)	ug/kg	12.00 U	13.00 U	10.00 J	13.00 U	10.00 U	10.00 U
CHLOROFORM	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
1,2-DICHLOROETHANE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
2-BUTANONE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 UJ	10.00 UJ	8.00 J
1,1,1-TRICHLOROETHANE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 UJ	1.00 J	10.00 UJ
CARBON TETRACHLORIDE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 UJ	10.00 UJ	10.00 UJ
BROMODICHLOROMETHANE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
1,2-DICHLOROPROPANE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
TRICHLOROETHENE	ug/kg	12.00 U	4.00 J	13.00	13.00 U	10.00 U	10.00 U
DIBROMOCHLOROMETHANE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
1,1,2-TRICHLOROETHANE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
BENZENE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	12.00 UJ	13.00 UJ	12.00 UJ	13.00 U	10.00 U	10.00 U
BROMOFORM	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
4-METHYL-2-PENTANONE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
2-HEXANONE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
TETRACHLOROETHENE	ug/kg	12.00 U	13.00 U	4.00 J	13.00 U	10.00 U	10.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
TOLUENE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
CHLOROBENZENE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
ETHYLBENZENE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
STYRENE	ug/kg	12.00 U	13.00 U	12.00 U	13.00 U	10.00 U	10.00 U
XYLENES (total)	ug/kg	12.00 U	5.00 J	12.00 U	13.00 U	10.00 U	10.00 U

SAMPLE NAME		BERM5
SAMPLE DATE		06/20/95
TEXT 001		
SAMPLE DEPTH		6.00 - 8.00'
Volatiles		
CHLOROMETHANE	ug/kg	10.00 U
BROMOMETHANE	ug/kg	10.00 U
VINYL CHLORIDE	ug/kg	10.00 U
CHLOROETHANE	ug/kg	10.00 U
METHYLENE CHLORIDE	ug/kg	73.00 U
ACETONE	ug/kg	150.00 J
CARBON DISULFIDE	ug/kg	10.00 U
1,1-DICHLOROETHENE	ug/kg	10.00 U
1,1-DICHLOROETHANE	ug/kg	10.00 U
1,2-DICHLOROETHENE (total)	ug/kg	10.00 U
CHLOROFORM	ug/kg	10.00 U
1,2-DICHLOROETHANE	ug/kg	10.00 U
2-BUTANONE	ug/kg	10.00 UJ
1,1,1-TRICHLOROETHANE	ug/kg	10.00 UJ
CARBON TETRACHLORIDE	ug/kg	10.00 UJ
BROMODICHLOROMETHANE	ug/kg	10.00 U
1,2-DICHLOROPROPANE	ug/kg	10.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	10.00 U
TRICHLOROETHENE	ug/kg	10.00 U
DIBROMOCHLOROMETHANE	ug/kg	10.00 U
1,1,2-TRICHLOROETHANE	ug/kg	10.00 U
BENZENE	ug/kg	10.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	10.00 U
BROMOFORM	ug/kg	10.00 U
4-METHYL-2-PENTANONE	ug/kg	10.00 U
2-HEXANONE	ug/kg	10.00 U
TETRACHLOROETHENE	ug/kg	10.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	10.00 U
TOLUENE	ug/kg	10.00 U
CHLOROBENZENE	ug/kg	10.00 U
ETHYLBENZENE	ug/kg	10.00 U
STYRENE	ug/kg	10.00 U
XYLENES (total)	ug/kg	10.00 U

SAMPLE NAME		BERM1	BERM2	BERM2A	BERM3	BERM3A	BERM4
SAMPLE DATE		06/19/95	06/19/95	06/19/95	06/20/95	06/20/95	06/20/95
TEXT 001							
SAMPLE DEPTH		14.00 - 16.00'	8.00 - 10.00'	4.00 - 6.00'	16.00 - 18.00'	10.00 - 12.00'	12.00 - 14.00'
Semivolatiles - Page 1							
PHENOL	ug/kg	330.00 J	9,700.00 J	2,800.00 J	420.00 U	3,300.00	420.00 J
BIS(2-CHLOROETHYL)ETHER	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
2-CHLOROPHENOL	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
1,3-DICHLOROBENZENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
1,4-DICHLOROBENZENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
1,2-DICHLOROBENZENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
2-METHYLPHENOL	ug/kg	120.00 J	980.00 J	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 UJ	680.00 UJ	3,400.00 UJ
4-METHYLPHENOL	ug/kg	130.00 J	920.00 J	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
HEXACHLOROETHANE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
NITROBENZENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
ISOPHORONE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
2-NITROPHENOL	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
2,4-DIMETHYLPHENOL	ug/kg	150.00 J	1,400.00 J	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
2,4-DICHLOROPHENOL	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
NAPHTHALENE	ug/kg	390.00 UJ	940.00 J	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
4-CHLOROANILINE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
HEXACHLOROBUTADIENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
2-METHYLNAPHTHALENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 UJ	3,400.00 UJ
2,4,6-TRICHLOROPHENOL	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	990.00 UJ	11,000.00 UJ	9,600.00 UJ	1,000.00 U	1,700.00 U	8,500.00 U
2-CHLORONAPHTHALENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
2-NITROANILINE	ug/kg	990.00 UJ	11,000.00 UJ	9,600.00 UJ	1,000.00 UJ	1,700.00 UJ	8,500.00 UJ
DIMETHYLPHTHALALTE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
ACENAPHTHYLENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
2,6-DINITROTOLUENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
3-NITROANILINE	ug/kg	990.00 UJ	11,000.00 UJ	9,600.00 UJ	1,000.00 UJ	1,700.00 UJ	8,500.00 UJ
ACENAPHTHENE	ug/kg	390.00 UJ	790.00 J	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U

SAMPLE NAME		BERM5
SAMPLE DATE		06/20/95
TEXT 001		
SAMPLE DEPTH		6.00 - 8.00'
Semivolatiles - Page 1		
PHENOL	ug/kg	340.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	340.00 U
2-CHLOROPHENOL	ug/kg	340.00 U
1,3-DICHLOROBENZENE	ug/kg	340.00 U
1,4-DICHLOROBENZENE	ug/kg	340.00 U
1,2-DICHLOROBENZENE	ug/kg	340.00 U
2-METHYLPHENOL	ug/kg	340.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	340.00 UJ
4-METHYLPHENOL	ug/kg	340.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	340.00 U
HEXACHLOROETHANE	ug/kg	340.00 U
NITROBENZENE	ug/kg	340.00 U
ISOPHORONE	ug/kg	340.00 U
2-NITROPHENOL	ug/kg	340.00 U
2,4-DIMETHYLPHENOL	ug/kg	340.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	340.00 U
2,4-DICHLOROPHENOL	ug/kg	340.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	340.00 U
NAPHTHALENE	ug/kg	340.00 U
4-CHLOROANILINE	ug/kg	340.00 U
HEXACHLOROBUTADIENE	ug/kg	340.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	340.00 U
2-METHYLNAPHTHALENE	ug/kg	340.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	340.00 UJ
2,4,6-TRICHLOROPHENOL	ug/kg	340.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	860.00 U
2-CHLORONAPHTHALENE	ug/kg	340.00 U
2-NITROANILINE	ug/kg	860.00 UJ
DIMETHYLPHTHALALTE	ug/kg	340.00 U
ACENAPHTHYLENE	ug/kg	340.00 U
2,6-DINITROTOLUENE	ug/kg	340.00 U
3-NITROANILINE	ug/kg	860.00 UJ
ACENAPHTHENE	ug/kg	340.00 U

SAMPLE NAME		BERM1	BERM2	BERM2A	BERM3	BERM3A	BERM4
SAMPLE DATE		06/19/95	06/19/95	06/19/95	06/20/95	06/20/95	06/20/95
TEXT 001							
SAMPLE DEPTH		14.00 - 16.00'	8.00 - 10.00'	4.00 - 6.00'	16.00 - 18.00'	10.00 - 12.00'	12.00 - 14.00'
Semivolatiles - Page 2							
2,4-DINITROPHENOL	ug/kg	990.00 UJ	11,000.00 UJ	9,600.00 UJ	1,000.00 U	1,700.00 UJ	8,500.00 U
4-NITROPHENOL	ug/kg	990.00 UJ	11,000.00 UJ	9,600.00 UJ	1,000.00 U	1,700.00 U	8,500.00 U
DIBENZOFURAN	ug/kg	390.00 UJ	470.00 J	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
2,4-DINITROTOLUENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
DIETHYLPHTHALATE	ug/kg	390.00 UJ	2,000.00 J	3,800.00 UJ	420.00 U	80.00 J	3,400.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
FLUORENE	ug/kg	390.00 UJ	550.00 J	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
4-NITROANILINE	ug/kg	990.00 UJ	11,000.00 UJ	9,600.00 UJ	1,000.00 UJ	1,700.00 UJ	8,500.00 UJ
4,6-DINITRO-2-METHYLPHENOL	ug/kg	990.00 UJ	11,000.00 UJ	9,600.00 UJ	1,000.00 U	1,700.00 U	8,500.00 U
N-NITROSODIPHENYLAMINE	ug/kg	390.00 UJ	13,000.00 J	4,100.00 J	420.00 U	620.00 J	2,900.00 J
4-BROMOPHENYL-PHENYLETHER	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
HEXACHLOROBENZENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
PENTACHLOROPHENOL	ug/kg	990.00 UJ	11,000.00 UJ	9,600.00 UJ	1,000.00 U	1,700.00 U	8,500.00 U
PHENANTHRENE	ug/kg	390.00 UJ	3,900.00 J	1,200.00 J	420.00 U	160.00 J	1,100.00 J
ANTHRACENE	ug/kg	390.00 UJ	1,400.00 J	400.00 J	420.00 U	44.00 J	340.00 J
CARBAZOLE	ug/kg	390.00 UJ	920.00 J	1,100.00 J	420.00 U	680.00 U	3,400.00 U
DI-N-BUTYLPHTHALATE	ug/kg	58.00 J	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	370.00 J
FLUORANTHENE	ug/kg	390.00 UJ	6,700.00 J	1,800.00 J	420.00 U	320.00 J	1,600.00 J
PYRENE	ug/kg	390.00 UJ	5,300.00 J	1,600.00 J	420.00 U	220.00 J	1,400.00 J
BUTYLBENZYLPHTHALATE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 UJ	680.00 UJ	3,400.00 UJ
3,3'-DICHLOROBENZIDINE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 UJ	680.00 U	3,400.00 UJ
BENZO(A)ANTHRACENE	ug/kg	390.00 UJ	6,600.00 J	1,600.00 J	420.00 U	200.00 J	1,400.00 J
CHRYSENE	ug/kg	390.00 UJ	5,000.00 J	1,400.00 J	420.00 U	220.00 J	1,400.00 J
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	60.00 J	53,000.00 DJ	28,000.00 J	420.00 UJ	2,300.00	61,000.00 DJ
DI-N-OCTYLPHTHALATE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	320.00 J	3,400.00 U
BENZO(B)FLUORANTHENE	ug/kg	390.00 UJ	10,000.00 J	2,600.00 J	420.00 U	500.00 XJ	2,200.00 XJ
BENZO(K)FLUORANTHENE	ug/kg	390.00 UJ	11,000.00 J	2,600.00 J	420.00 U	500.00 XJ	2,200.00 XJ
BENZO(A)PYRENE	ug/kg	390.00 UJ	3,800.00 J	1,300.00 J	420.00 U	210.00 J	1,100.00 J
INDENO(1,2,3-CD)PYRENE	ug/kg	390.00 UJ	1,300.00 J	720.00 J	420.00 U	100.00 J	590.00 J
DIBENZO(A,H)ANTHRACENE	ug/kg	390.00 UJ	4,300.00 UJ	3,800.00 UJ	420.00 U	680.00 U	3,400.00 U
BENZO(G,H,I)PERYLENE	ug/kg	390.00 UJ	1,400.00 J	1,000.00 J	420.00 U	90.00 J	580.00 J

SAMPLE NAME		BERM5	
SAMPLE DATE		06/20/95	
TEXT 001			
SAMPLE DEPTH		6.00 - 8.00'	
Semivolatiles - Page 2			
2,4-DINITROPHENOL	ug/kg	860.00	U
4-NITROPHENOL	ug/kg	860.00	U
DIBENZOFURAN	ug/kg	340.00	U
2,4-DINITROTOLUENE	ug/kg	340.00	U
DIETHYLPHTHALATE	ug/kg	340.00	U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	340.00	U
FLUORENE	ug/kg	340.00	U
4-NITROANILINE	ug/kg	860.00	UJ
4,6-DINITRO-2-METHYLPHENOL	ug/kg	860.00	U
N-NITROSODIPHENYLAMINE	ug/kg	340.00	U
4-BROMOPHENYL-PHENYLETHER	ug/kg	340.00	U
HEXACHLOROBENZENE	ug/kg	340.00	U
PENTACHLOROPHENOL	ug/kg	860.00	U
PHENANTHRENE	ug/kg	340.00	U
ANTHRACENE	ug/kg	340.00	U
CARBAZOLE	ug/kg	340.00	U
DI-N-BUTYLPHTHALATE	ug/kg	340.00	U
FLUORANTHENE	ug/kg	35.00	J
PYRENE	ug/kg	36.00	J
BUTYLBENZYLPHTHALATE	ug/kg	340.00	UJ
3,3'-DICHLOROBENZIDINE	ug/kg	340.00	UJ
BENZO(A)ANTHRACENE	ug/kg	340.00	U
CHRYSENE	ug/kg	340.00	U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	100.00	J
DI-N-OCTYLPHTHALATE	ug/kg	340.00	U
BENZO(B)FLUORANTHENE	ug/kg	55.00	JX
BENZO(K)FLUORANTHENE	ug/kg	55.00	JX
BENZO(A)PYRENE	ug/kg	340.00	U
INDENO(1,2,3-CD)PYRENE	ug/kg	340.00	U
DIBENZO(A,H)ANTHRACENE	ug/kg	340.00	U
BENZO(G,H,I)PERYLENE	ug/kg	340.00	U

SAMPLE NAME		BERM1	BERM2	BERM2A	BERM3	BERM3A	BERM4
SAMPLE DATE		06/19/95	06/19/95	06/19/95	06/20/95	06/20/95	06/20/95
TEXT 001							
SAMPLE DEPTH		14.00 - 16.00'	8.00 - 10.00'	4.00 - 6.00'	16.00 - 18.00'	10.00 - 12.00'	12.00 - 14.00'
Pesticides/PCBs							
ALPHA-BHC	ug/kg	2.00 U	2.30 U	3.70 NJ	2.20 U	1.80 U	1.70 U
BETA-BHC	ug/kg	2.00 U	2.30 U	9.90 U	2.20 U	1.80 U	1.70 U
DELTA-BHC	ug/kg	2.00 U	2.30 U	9.90 U	2.20 U	1.80 U	1.70 U
gamma-BHC (Lindane)	ug/kg	2.00 U	R	9.90 U	2.20 U	1.80 U	1.70 U
HEPTACHLOR	ug/kg	2.00 UJ	2.30 UJ	9.90 UJ	2.20 UJ	1.80 U	1.70 U
ALDRIN	ug/kg	0.21 J	2.30 U	9.90 U	2.20 U	1.80 U	1.70 U
HEPTACHLOR EPOXIDE	ug/kg	2.00 U	2.30 U	9.90 U	2.20 U	1.80 U	1.70 U
ENDOSULFAN I	ug/kg	2.00 U	2.30 U	R	2.20 U	1.80 U	R
DIELDRIN	ug/kg	4.00 U	4.40 U	12.00 NJ	4.20 U	3.40 U	3.40 U
4,4'-DDE	ug/kg	4.00 U	4.40 U	4.50 J	4.20 U	3.40 U	3.40 U
ENDRIN	ug/kg	4.00 U	1.40 J	19.00 U	4.20 U	3.40 U	3.40 U
ENDOSULFAN II	ug/kg	4.00 U	R	36.00 U	4.20 U	2.00 J	3.40 U
4,4'-DDD	ug/kg	4.00 U	4.40 U	19.00 U	4.20 U	3.40 U	R
ENDOSULFAN SULFATE	ug/kg	R	8.80 J	R	4.20 U	R	3.40 U
4,4'-DDT	ug/kg	R	R	R	4.20 U	R	R
METHOXYCHLOR	ug/kg	20.00 U	23.00 U	9.90 NJ	22.00 U	18.00 U	33.00 NJ
ENDRIN KETONE	ug/kg	4.00 U	2.40 NJ	19.00 U	4.20 U	3.40 U	R
ENDRIN ALDEHYDE	ug/kg	4.00 U	4.40 U	19.00 U	4.20 U	3.40 U	3.40 U
ALPHA-CHLORDANE	ug/kg	2.00 U	R	9.90 U	2.20 U	1.80 U	1.70 U
GAMMA-CHLORDANE	ug/kg	2.00 U	R	9.90 U	2.20 U	1.80 U	1.70 U
TOXAPHENE	ug/kg	200.00 U	230.00 U	990.00 U	220.00 U	180.00 U	170.00 U
AROCLOR 1016	ug/kg	40.00 U	44.00 U	190.00 U	42.00 U	34.00 U	34.00 U
AROCLOR 1221	ug/kg	80.00 U	89.00 U	390.00 U	85.00 U	70.00 U	69.00 U
AROCLOR 1232	ug/kg	40.00 U	44.00 U	190.00 U	42.00 U	34.00 U	34.00 U
AROCLOR 1242	ug/kg	40.00 U	44.00 U	190.00 U	42.00 U	34.00 U	34.00 U
AROCLOR 1248	ug/kg	40.00 U	44.00 U	190.00 U	42.00 U	34.00 U	34.00 U
AROCLOR 1254	ug/kg	40.00 U	44.00 U	190.00 U	42.00 U	34.00 U	34.00 U
AROCLOR 1260	ug/kg	40.00 U	44.00 U	190.00 U	42.00 U	34.00 U	34.00 U

SAMPLE NAME		BERM5
SAMPLE DATE		06/20/95
TEXT 001		
SAMPLE DEPTH		6.00 - 8.00'
Pesticides/PCBs		
ALPHA-BHC	ug/kg	R
BETA-BHC	ug/kg	1.70 U
DELTA-BHC	ug/kg	1.70 U
gamma-BHC (Lindane)	ug/kg	1.70 U
HEPTACHLOR	ug/kg	0.13 J
ALDRIN	ug/kg	1.70 U
HEPTACHLOR EPOXIDE	ug/kg	1.70 U
ENDOSULFAN I	ug/kg	1.70 U
DIELDRIN	ug/kg	3.40 U
4,4'-DDE	ug/kg	3.40 U
ENDRIN	ug/kg	3.40 U
ENDOSULFAN II	ug/kg	3.40 U
4,4'-DDD	ug/kg	3.40 U
ENDOSULFAN SULFATE	ug/kg	3.40 U
4,4'-DDT	ug/kg	3.40 U
METHOXYCHLOR	ug/kg	17.00 U
ENDRIN KETONE	ug/kg	3.40 U
ENDRIN ALDEHYDE	ug/kg	3.40 U
ALPHA-CHLORDANE	ug/kg	1.70 U
GAMMA-CHLORDANE	ug/kg	1.70 U
TOXAPHENE	ug/kg	170.00 U
AROCLOR 1016	ug/kg	34.00 U
AROCLOR 1221	ug/kg	69.00 U
AROCLOR 1232	ug/kg	34.00 U
AROCLOR 1242	ug/kg	34.00 U
AROCLOR 1248	ug/kg	34.00 U
AROCLOR 1254	ug/kg	34.00 U
AROCLOR 1260	ug/kg	34.00 U

SAMPLE NAME		BERM1	BERM2	BERM2A	BERM3	BERM3A	BERM4
SAMPLE DATE		06/19/95	06/19/95	06/19/95	06/20/95	06/20/95	06/20/95
TEXT 001							
SAMPLE DEPTH		14.00 - 16.00'	8.00 - 10.00'	4.00 - 6.00'	16.00 - 18.00'	10.00 - 12.00'	12.00 - 14.00'
Inorganic Analytes							
ALUMINUM	mg/kg	15,400.00 *	11,900.00 *	18,000.00 *	16,900.00 *	11,300.00 *	14,500.00 *
ANTIMONY	mg/kg	4.20 UNJ	4.30 UNJ	5.50 BNJ	4.40 UNJ	4.30 UNJ	4.40 UNJ
ARSENIC	mg/kg	4.90	6.80	5.70	2.30 B	15.80	6.60
BARIUM	mg/kg	111.00	96.50	174.00	82.80	97.10	96.50
BERYLLIUM	mg/kg	0.46 B	0.40 B	0.58 B	0.56 B	0.34 B	0.50 B
CADMIUM	mg/kg	0.25 U	0.25 U	0.26 U	0.26 U	0.25 U	0.26 U
CALCIUM	mg/kg	50,300.00	42,200.00	31,000.00	63,100.00	55,300.00	9,090.00
CHROMIUM	mg/kg	21.40	91.50	31.10	23.20	120.00	97.50
COBALT	mg/kg	15.30	21.40	30.70	15.30	29.20	16.60
COPPER	mg/kg	38.20	185.00	108.00	26.80	63.60	52.40
IRON	mg/kg	25,000.00 *	19,700.00 *	30,600.00 *	26,200.00 *	19,900.00 *	25,200.00 *
LEAD	mg/kg	8.60	73.60	27.20	8.90	51.40	50.40
MAGNESIUM	mg/kg	13,500.00 *	21,000.00 *	10,200.00 *	13,400.00 *	18,100.00 *	5,430.00 *
MANGANESE	mg/kg	636.00	561.00	2,580.00	662.00	576.00	377.00
MERCURY	mg/kg	0.06 U	1.70	13.50	0.06 U	0.82	0.19
NICKEL	mg/kg	29.60	45.30	44.80	31.30	47.90	29.70
POTASSIUM	mg/kg	2,450.00	1,610.00	2,410.00	2,530.00	1,500.00	1,250.00
SELENIUM	mg/kg	0.56 U	0.57 U	0.59 U	0.58 U	0.57 U	0.59 U
SILVER	mg/kg	1.50 BJ	2.70 J	2.60 J	0.97 BJ	1.80 B	1.20 BJ
SODIUM	mg/kg	221.00 B	519.00 B	240.00 B	197.00 B	332.00 B	180.00 B
THALLIUM	mg/kg	1.20 B	1.60 B	2.10 B	1.20 U	1.20 U	1.20 U
VANADIUM	mg/kg	28.10 J	28.70 J	35.30 J	29.10 J	36.70 J	35.60 J
ZINC	mg/kg	64.80	198.00	142.00	69.60	128.00	93.00
CYANIDE	mg/kg	0.60 U	0.59 U	0.58 U	0.57 U	0.57 U	0.61 U

SAMPLE NAME		BERM5	
SAMPLE DATE		06/20/95	
TEXT 001			
SAMPLE DEPTH		6.00 - 8.00'	
Inorganic Analytes			
ALUMINUM	mg/kg	22,000.00	*
ANTIMONY	mg/kg	4.40	UNJ
ARSENIC	mg/kg	6.00	
BARIUM	mg/kg	126.00	
BERYLLIUM	mg/kg	0.84	B
CADMIUM	mg/kg	0.26	U
CALCIUM	mg/kg	3,440.00	
CHROMIUM	mg/kg	35.10	
COBALT	mg/kg	15.60	
COPPER	mg/kg	25.00	
IRON	mg/kg	33,300.00	*
LEAD	mg/kg	14.70	
MAGNESIUM	mg/kg	8,250.00	*
MANGANESE	mg/kg	630.00	
MERCURY	mg/kg	0.06	U
NICKEL	mg/kg	33.30	
POTASSIUM	mg/kg	2,220.00	
SELENIUM	mg/kg	0.59	U
SILVER	mg/kg	1.40	BJ
SODIUM	mg/kg	106.00	B
THALLIUM	mg/kg	1.20	U
VANADIUM	mg/kg	38.70	J
ZINC	mg/kg	77.80	
CYANIDE	mg/kg	0.61	U

AOC2 - NORTHERN ASPECT
SURFACE SOIL DATA

SAMPLE NAME		DP021-SS	DP022-SS	DP023-SS	DP024-SS	DP025-SS	DP026-SS
SAMPLE DATE		11/29/94	11/29/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Conventinal Parameters							
pH	units	7.70	7.10	7.20	7.60	7.30	7.10
SULFIDE	mg/kg						
TOTAL ORGANIC CARBON	mg/kg	10,500.00	14,700.00	4,240.00	12,400.00	9,000.00	3,280.00
TOTAL SOLIDS	%	80.30	82.10	76.20	82.40	78.80	77.10
TOTAL SOILDS (EXTENDED)	%						
ALKALINITY	mg/l						
AMMONIA	mg/l						
BOD	mg/l						
COD	mg/l						
TOTAL DISSOLVD SOLIDS	mg/l						
HARDNESS	mg/l						
NITRATE/NITRITE	mg/l						
TOTAL KJELDAHL NITROGEN	mg/l						

SAMPLE NAME		DP036	DP027-SS	DP028-SS	DP029-SS	DP030-SS	DP031-SS
SAMPLE DATE		11/30/94	12/01/94	12/01/94	12/01/94	12/02/94	12/01/94
TEXT 001		Dup of DP026-SS					
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Conventinal Parameters							
pH	units	7.10	7.60	7.60	7.80	7.00	7.50
SULFIDE	mg/kg						
TOTAL ORGANIC CARBON	mg/kg	6,550.00	43,800.00	7,130.00 J	12,200.00 J	5,680.00	7,470.00 J
TOTAL SOLIDS	%	75.80	75.80	83.20	69.30	79.00	80.20
TOTAL SOILDS (EXTENDED)	%						
ALKALINITY	mg/l						
AMMONIA	mg/l						
BOD	mg/l						
COD	mg/l						
TOTAL DISSOLVD SOLIDS	mg/l						
HARDNESS	mg/l						
NITRATE/NITRITE	mg/l						
TOTAL KJELDAHL NITROGEN	mg/l						

SAMPLE NAME		DP032-SS	DP037	SB01-SS	SB02-SS	SB03-SS	SB18-SS
SAMPLE DATE		12/02/94	12/02/94	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001			Dup of DP032-SS				
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Conventinal Parameters							
pH	units	7.00	8.00	7.70	7.40	7.70	8.90
SULFIDE	mg/kg						
TOTAL ORGANIC CARBON	mg/kg	2,900.00	24,900.00	2,890.00 J	8,770.00	8,160.00	24,900.00
TOTAL SOLIDS	%	80.00	80.00	89.60	81.40	89.50	87.20
TOTAL SOILDS (EXTENDED)	%						
ALKALINITY	mg/l						
AMMONIA	mg/l						
BOD	mg/l						
COD	mg/l						
TOTAL DISSOLVD SOLIDS	mg/l						
HARDNESS	mg/l						
NITRATE/NITRITE	mg/l						
TOTAL KJELDAHL NITROGEN	mg/l						

SAMPLE NAME		SS01	SS02
SAMPLE DATE		06/08/95	06/08/95
TEXT 001			
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'
Conventinal Parameters			
pH	units	7.20	7.70
SULFIDE	mg/kg		
TOTAL ORGANIC CARBON	mg/kg	38,900.00	38,200.00
TOTAL SOLIDS	%	87.00	79.00
TOTAL SOILDS (EXTENDED)	%		
ALKALINITY	mg/l		
AMMONIA	mg/l		
BOD	mg/l		
COD	mg/l		
TOTAL DISSOLVD SOLIDS	mg/l		
HARDNESS	mg/l		
NITRATE/NITRITE	mg/l		
TOTAL KJELDAHL NITROGEN	mg/l		

SAMPLE NAME		DP021-SS	DP022-SS	DP023-SS	DP024-SS	DP025-SS	DP026-SS
SAMPLE DATE		11/29/94	11/29/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Grain Analysis							
GRAVEL	%	0.00 J	0.70 J	0.00 J	4.50 J	0.00 J	0.00 J
SAND (A) COARSE	%	0.20	0.60	0.10 J	1.60 J	0.60	0.30 J
SAND (B) MEDIUM	%	0.20	0.50	0.10 J	0.50 J	0.70	0.50 J
SAND (C) FINE	%	0.80	2.50	0.80 J	1.80 J	2.50	1.10 J
SAND (D) FINE	%	0.20	0.60	0.50 J	0.80 J	1.10	0.40 J
SILTS/CLAYS (<0.075 MM)	%						
SILT (A)	%	21.00	28.30	6.00 J	15.70 J	30.10	2.90 J
SILT (B)	%	13.50 J	18.40 J	15.20	16.30	15.10 J	13.10
CLAY	%	22.00 J	17.50 J	25.50 J	15.70 J	16.40 J	27.90 J
COLLOIDS	%	42.10 J	30.90 J	51.80 J	36.30 J	32.40 J	53.80 J
TOTALS FOR GROUP		100.00	100.00	100.00	93.20	98.90	100.00

SAMPLE NAME		DP036	DP027-SS	DP028-SS	DP029-SS	DP030-SS	DP031-SS
SAMPLE DATE		11/30/94	12/01/94	12/01/94	12/01/94	12/02/94	12/01/94
TEXT 001		Dup of DP026-SS					
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Grain Analysis							
GRAVEL	%	0.00 J	0.00 J	0.00 J	0.00	0.00 J	0.00 J
SAND (A) COARSE	%	0.20	0.10	0.90 J	0.00	0.50 J	0.30
SAND (B) MEDIUM	%	0.20	0.20	0.90 J	7.00	0.30 J	0.60
SAND (C) FINE	%	0.70	0.90	2.90 J	65.00	2.50 J	1.70
SAND (D) FINE	%	0.30	0.30	1.50 J	17.00	1.00 J	0.70
SILTS/CLAYS (<0.075 MM)	%				11.00		
SILT (A)	%	7.10	24.00	5.70 J		10.90 J	7.70
SILT (B)	%	10.30 J	13.70 J	20.10		20.00	17.80 J
CLAY	%	23.00 J	21.30 J	19.20 J		20.30 J	26.80 J
COLLOIDS	%	57.80 J	39.40 J	47.90 J		43.90 J	44.40 J
TOTALS FOR GROUP		99.60	99.90	99.10	100.00	99.40	100.00

SAMPLE NAME		DP032-SS	DP037	SB01-SS	SB02-SS	SB03-SS	SB18-SS
SAMPLE DATE		12/02/94	12/02/94	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001			Dup of DP032-SS				
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Grain Analysis							
GRAVEL	%	0.50 J	0.00 J	0.00 J	0.70	5.20	18.60
SAND (A) COARSE	%	0.50 J	0.20 J	2.30	2.20 J	3.40 J	13.50 J
SAND (B) MEDIUM	%	0.30 J	0.30 J	0.60	1.10	1.80	6.60
SAND (C) FINE	%	2.00 J	1.00 J	2.80 J	3.70 J	5.70 J	13.00 J
SAND (D) FINE	%	0.90 J	0.60 J	0.80 J	1.50 J	2.00 J	2.50 J
SILTS/CLAYS (<0.075 MM)	%						
SILT (A)	%	12.10 J	7.10 J	19.80 J	22.60 J	19.00 J	15.80 J
SILT (B)	%	18.20	20.50	19.90	17.50 J	14.70 J	11.20 J
CLAY	%	22.80 J	26.20 J	14.40	20.90	17.60	12.90
COLLOIDS	%	42.70 J	43.70 J	39.40 J	29.80 J	30.60 J	6.00 J
TOTALS FOR GROUP		100.00	99.60	100.00	100.00	100.00	100.10

SAMPLE NAME		SS01	SS02
SAMPLE DATE		06/08/95	06/08/95
TEXT 001			
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'
Grain Analysis			
GRAVEL	%	3.40	9.20
SAND (A) COARSE	%	5.60	4.20
SAND (B) MEDIUM	%	3.10	1.60
SAND (C) FINE	%	8.00	5.20
SAND (D) FINE	%	2.70	2.00
SILTS/CLAYS (<0.075 MM)	%		
SILT (A)	%	21.30	20.10
SILT (B)	%	20.70	15.80
CLAY	%	17.30	14.30
COLLOIDS	%	12.70	24.40
TOTALS FOR GROUP		94.80	96.80

SAMPLE NAME		DP021-SS	DP022-SS	DP023-SS	DP024-SS	DP025-SS	DP026-SS
SAMPLE DATE		11/29/94	11/29/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Targeted SemiVolatiles							
PHENYL ISOTHIOCYANATE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
DIPHENYLAMINE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	200.00 UJ	200.00 UJ	200.00 U	200.00 U	200.00 UJ	200.00 UJ
2-ANILINOBENZOTHIAZOLE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
PERYLENE	ug/kg	200.00 U	200.00 U	200.00 UJ	200.00 U	200.00 U	200.00 U
ANILINE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	200.00 U	200.00 U	200.00 UJ	200.00 U	200.00 U	200.00 U
PHENOTHIAZINE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
BENZOTHIAZOLE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U

SAMPLE NAME		DP036	DP027-SS	DP028-SS	DP029-SS	DP030-SS	DP031-SS
SAMPLE DATE		11/30/94	12/01/94	12/01/94	12/01/94	12/02/94	12/01/94
TEXT 001		Dup of DP026-SS					
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Targeted SemiVolatiles							
PHENYL ISOTHIOCYANATE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
DIPHENYLAMINE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	200.00 UJ	200.00 U	200.00 UJ	200.00 UJ	200.00 UJ	200.00 UJ
2-ANILINOBENZOTHIAZOLE	ug/kg	50.00 J	200.00 U	200.00 U	80.00 J	200.00 U	200.00 U
PERYLENE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
ANILINE	ug/kg	200.00 UJ	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
PHENOTHIAZINE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 UJ	200.00 U
BENZOTHIAZOLE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U

SAMPLE NAME		DP032-SS	DP037	SB01-SS	SB02-SS	SB03-SS	SB18-SS
SAMPLE DATE		12/02/94	12/02/94	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001			Dup of DP032-SS				
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Targeted SemiVolatiles							
PHENYL ISOTHIOCYANATE	ug/kg	200.00 U	200.00 U	240.00 U	250.00 U	220.00 U	230.00 U
DIPHENYLAMINE	ug/kg	200.00 U	200.00 U	240.00 U	250.00 U	220.00 U	230.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	200.00 UJ	200.00 UJ	240.00 U	250.00 UJ	220.00 UJ	230.00 U
2-ANILINOBENZOTHIAZOLE	ug/kg	200.00 U	200.00 U	240.00 U	250.00 U	220.00 U	230.00 U
PERYLENE	ug/kg	200.00 U	200.00 U	240.00 UJ	250.00 U	220.00 U	230.00 U
ANILINE	ug/kg	200.00 U	200.00 U	240.00 UJ	250.00 UJ	220.00 UJ	230.00 UJ
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	200.00 U	200.00 U	240.00 UJ	250.00 U	220.00 U	230.00 UJ
PHENOTHIAZINE	ug/kg	200.00 U	200.00 U	240.00 U	250.00 U	220.00 U	230.00 U
BENZOTHIAZOLE	ug/kg	200.00 U	200.00 U	240.00 U	250.00 U	220.00 U	230.00 U

SAMPLE NAME		SS01	SS02
SAMPLE DATE		06/08/95	06/08/95
TEXT 001			
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'
Targeted SemiVolatiles			
PHENYL ISOTHIOCYANATE	ug/kg	230.00 U	250.00 U
DIPHENYLAMINE	ug/kg	230.00 U	250.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	230.00 U	250.00 U
2-ANILINOBENZOTHIAZOLE	ug/kg	230.00 U	250.00 U
PERYLENE	ug/kg	100.00 J	50.00 J
ANILINE	ug/kg	230.00 U	250.00 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	230.00 U	250.00 U
PHENOTHIAZINE	ug/kg	230.00 U	250.00 U
BENZOTHIAZOLE	ug/kg	230.00 U	250.00 U

SAMPLE NAME		DP021-SS	DP022-SS	DP023-SS	DP024-SS	DP025-SS	DP026-SS
SAMPLE DATE		11/29/94	11/29/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Volatiles							
CHLOROMETHANE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
BROMOMETHANE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
VINYL CHLORIDE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
CHLOROETHANE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
METHYLENE CHLORIDE	ug/kg	14.00 UJ	13.00 UJ	13.00 U	12.00 U	13.00 U	13.00 U
ACETONE	ug/kg	20.00 UJ	13.00 UJ	13.00 U	12.00 U	13.00 U	13.00 U
CARBON DISULFIDE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
1,1-DICHLOROETHENE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
1,1-DICHLOROETHANE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
1,2-DICHLOROETHENE (total)	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
CHLOROFORM	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
1,2-DICHLOROETHANE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
2-BUTANONE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
1,1,1-TRICHLOROETHANE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
CARBON TETRACHLORIDE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
BROMODICHLOROMETHANE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
1,2-DICHLOROPROPANE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
TRICHLOROETHENE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
DIBROMOCHLOROMETHANE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
1,1,2-TRICHLOROETHANE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
BENZENE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
BROMOFORM	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
4-METHYL-2-PENTANONE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
2-HEXANONE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
TETRACHLOROETHENE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
TOLUENE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
CHLOROBENZENE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
ETHYLBENZENE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
STYRENE	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U
XYLENES (total)	ug/kg	13.00 U	12.00 U	13.00 U	12.00 U	13.00 U	13.00 U

SAMPLE NAME		DP036	DP027-SS	DP028-SS	DP029-SS	DP030-SS	DP031-SS
SAMPLE DATE		11/30/94	12/01/94	12/01/94	12/01/94	12/02/94	12/01/94
TEXT 001		Dup of DP026-SS					
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Volatiles							
CHLOROMETHANE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
BROMOMETHANE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
VINYL CHLORIDE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
CHLOROETHANE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
METHYLENE CHLORIDE	ug/kg	21.00 U	13.00 U	12.00 U	65.00	22.00	12.00 U
ACETONE	ug/kg	27.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
CARBON DISULFIDE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
1,1-DICHLOROETHENE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
1,1-DICHLOROETHANE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
1,2-DICHLOROETHENE (total)	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
CHLOROFORM	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
1,2-DICHLOROETHANE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
2-BUTANONE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
1,1,1-TRICHLOROETHANE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
CARBON TETRACHLORIDE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
BROMODICHLOROMETHANE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
1,2-DICHLOROPROPANE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
TRICHLOROETHENE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
DIBROMOCHLOROMETHANE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
1,1,2-TRICHLOROETHANE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
BENZENE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
BROMOFORM	ug/kg	13.00 UJ	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
4-METHYL-2-PENTANONE	ug/kg	13.00 UJ	13.00 U	12.00 U	13.00 UJ	12.00 UJ	12.00 U
2-HEXANONE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
TETRACHLOROETHENE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	13.00 UJ	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
TOLUENE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
CHLOROBENZENE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
ETHYLBENZENE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
STYRENE	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U
XYLENES (total)	ug/kg	13.00 U	13.00 U	12.00 U	13.00 U	12.00 U	12.00 U

SAMPLE NAME		DP032-SS	DP037	SB01-SS	SB02-SS	SB03-SS	SB18-SS
SAMPLE DATE		12/02/94	12/02/94	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001			Dup of DP032-SS				
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Volatiles							
CHLOROMETHANE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 UJ
BROMOMETHANE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
VINYL CHLORIDE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 UJ
CHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
METHYLENE CHLORIDE	ug/kg	12.00 U	10.00 J	140.00 B	32.00 U	28.00 U	10.00 U
ACETONE	ug/kg	12.00 U	10.00 U	110.00 BJ	26.00 UJ	47.00 UJ	10.00 UJ
CARBON DISULFIDE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
1,1-DICHLOROETHENE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
1,1-DICHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
1,2-DICHLOROETHENE (total)	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
CHLOROFORM	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
1,2-DICHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
2-BUTANONE	ug/kg	12.00 U	12.00 U	11.00 UJ	16.00 UJ	12.00 UJ	10.00 U
1,1,1-TRICHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 UJ	16.00 UJ	12.00 UJ	10.00 UJ
CARBON TETRACHLORIDE	ug/kg	12.00 U	12.00 U	11.00 UJ	16.00 UJ	12.00 UJ	10.00 U
BROMODICHLOROMETHANE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
1,2-DICHLOROPROPANE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
TRICHLOROETHENE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
DIBROMOCHLOROMETHANE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
1,1,2-TRICHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
BENZENE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
BROMOFORM	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
4-METHYL-2-PENTANONE	ug/kg	12.00 UJ	12.00 UJ	11.00 U	16.00 U	12.00 U	10.00 U
2-HEXANONE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
TETRACHLOROETHENE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
TOLUENE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
CHLOROBENZENE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
ETHYLBENZENE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
STYRENE	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U
XYLENES (total)	ug/kg	12.00 U	12.00 U	11.00 U	16.00 U	12.00 U	10.00 U

SAMPLE NAME		SS01	SS02
SAMPLE DATE		06/08/95	06/08/95
TEXT 001			
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'
Volatiles			
CHLOROMETHANE	ug/kg	11.00 U	12.00 U
BROMOMETHANE	ug/kg	11.00 U	12.00 U
VINYL CHLORIDE	ug/kg	11.00 U	12.00 U
CHLOROETHANE	ug/kg	11.00 U	12.00 U
METHYLENE CHLORIDE	ug/kg	66.00 U	12.00 U
ACETONE	ug/kg	11.00 U	12.00 UJ
CARBON DISULFIDE	ug/kg	11.00 U	12.00 U
1,1-DICHLOROETHENE	ug/kg	11.00 U	12.00 U
1,1-DICHLOROETHANE	ug/kg	11.00 U	12.00 U
1,2-DICHLOROETHENE (total)	ug/kg	11.00 U	12.00 U
CHLOROFORM	ug/kg	11.00 U	12.00 U
1,2-DICHLOROETHANE	ug/kg	11.00 U	12.00 U
2-BUTANONE	ug/kg	11.00 U	12.00 U
1,1,1-TRICHLOROETHANE	ug/kg	11.00 U	12.00 U
CARBON TETRACHLORIDE	ug/kg	11.00 U	12.00 U
BROMODICHLOROMETHANE	ug/kg	11.00 U	12.00 U
1,2-DICHLOROPROPANE	ug/kg	11.00 U	12.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	11.00 U	12.00 U
TRICHLOROETHENE	ug/kg	11.00 U	12.00 U
DIBROMOCHLOROMETHANE	ug/kg	11.00 U	12.00 U
1,1,2-TRICHLOROETHANE	ug/kg	11.00 U	12.00 U
BENZENE	ug/kg	11.00 U	12.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	11.00 U	12.00 U
BROMOFORM	ug/kg	11.00 UJ	12.00 U
4-METHYL-2-PENTANONE	ug/kg	11.00 U	12.00 U
2-HEXANONE	ug/kg	11.00 U	12.00 U
TETRACHLOROETHENE	ug/kg	11.00 U	12.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	11.00 U	12.00 U
TOLUENE	ug/kg	11.00 U	12.00 U
CHLOROBENZENE	ug/kg	11.00 U	12.00 U
ETHYLBENZENE	ug/kg	11.00 U	12.00 U
STYRENE	ug/kg	11.00 U	12.00 U
XYLENES (total)	ug/kg	11.00 U	12.00 U

SAMPLE NAME		DP021-SS	DP022-SS	DP023-SS	DP024-SS	DP025-SS	DP026-SS
SAMPLE DATE		11/29/94	11/29/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Semivolatiles - Page 1							
PHENOL	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
2-CHLOROPHENOL	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
1,3-DICHLOROBENZENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
1,4-DICHLOROBENZENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
1,2-DICHLOROBENZENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
2-METHYLPHENOL	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
4-METHYLPHENOL	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
HEXACHLOROETHANE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
NITROBENZENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
ISOPHORONE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
2-NITROPHENOL	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
2,4-DIMETHYLPHENOL	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
2,4-DICHLOROPHENOL	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
NAPHTHALENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
4-CHLOROANILINE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
HEXACHLOROBUTADIENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
2-METHYLNAPHTHALENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
2,4,6-TRICHLOROPHENOL	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	1,000.00 U	980.00 U	1,000.00 U	1,000.00 U	1,000.00 U	1,000.00 U
2-CHLORONAPHTHALENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
2-NITROANILINE	ug/kg	1,000.00 U	980.00 U	1,000.00 U	1,000.00 U	1,000.00 U	1,000.00 U
DIMETHYLPHTHALALTE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
ACENAPHTHYLENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
2,6-DINITROTOLUENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
3-NITROANILINE	ug/kg	1,000.00 U	980.00 U	1,000.00 U	1,000.00 U	1,000.00 U	1,000.00 U
ACENAPHTHENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U

SAMPLE NAME		DP036	DP027-SS	DP028-SS	DP029-SS	DP030-SS	DP031-SS
SAMPLE DATE		11/30/94	12/01/94	12/01/94	12/01/94	12/02/94	12/01/94
TEXT 001		Dup of DP026-SS					
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Semivolatiles - Page 1							
PHENOL	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
2-CHLOROPHENOL	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
1,3-DICHLOROBENZENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
1,4-DICHLOROBENZENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
1,2-DICHLOROBENZENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
2-METHYLPHENOL	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	420.00 UJ	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
4-METHYLPHENOL	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
HEXACHLOROETHANE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
NITROBENZENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
ISOPHORONE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
2-NITROPHENOL	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
2,4-DIMETHYLPHENOL	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
2,4-DICHLOROPHENOL	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
NAPHTHALENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
4-CHLOROANILINE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
HEXACHLOROBUTADIENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
2-METHYLNAPHTHALENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
2,4,6-TRICHLOROPHENOL	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	1,000.00 U	1,000.00 U	990.00 U	1,000.00 U	990.00 U	1,000.00 U
2-CHLORONAPHTHALENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
2-NITROANILINE	ug/kg	1,000.00 UJ	1,000.00 U	990.00 U	1,000.00 U	990.00 U	1,000.00 U
DIMETHYLPHTHALALTE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
ACENAPHTHYLENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
2,6-DINITROTOLUENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
3-NITROANILINE	ug/kg	1,000.00 U	1,000.00 U	990.00 U	1,000.00 U	990.00 U	1,000.00 U
ACENAPHTHENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U

SAMPLE NAME		DP032-SS	DP037	SB01-SS	SB02-SS	SB03-SS	SB18-SS
SAMPLE DATE		12/02/94	12/02/94	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001			Dup of DP032-SS				
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Semivolatiles - Page 1							
PHENOL	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
2-CHLOROPHENOL	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
1,3-DICHLOROBENZENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
1,4-DICHLOROBENZENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
1,2-DICHLOROBENZENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
2-METHYLPHENOL	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	410.00 U	410.00 U	350.00 UJ	530.00 U	390.00 U	330.00 U
4-METHYLPHENOL	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
HEXACHLOROETHANE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
NITROBENZENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
ISOPHORONE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
2-NITROPHENOL	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
2,4-DIMETHYLPHENOL	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
2,4-DICHLOROPHENOL	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
NAPHTHALENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
4-CHLOROANILINE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
HEXACHLOROBUTADIENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
2-METHYLNAPHTHALENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	410.00 U	410.00 U	350.00 UJ	530.00 U	390.00 U	330.00 U
2,4,6-TRICHLOROPHENOL	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	1,000.00 U	990.00 U	880.00 U	1,300.00 U	990.00 U	830.00 U
2-CHLORONAPHTHALENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
2-NITROANILINE	ug/kg	1,000.00 U	990.00 U	880.00 UJ	1,300.00 U	990.00 U	830.00 U
DIMETHYLPHTHALALTE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
ACENAPHTHYLENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
2,6-DINITROTOLUENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
3-NITROANILINE	ug/kg	1,000.00 U	990.00 U	880.00 UJ	1,300.00 U	990.00 U	830.00 U
ACENAPHTHENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U

SAMPLE NAME		SS01	SS02
SAMPLE DATE		06/08/95	06/08/95
TEXT 001			
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'
Semivolatiles - Page 1			
PHENOL	ug/kg	360.00 U	410.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	360.00 U	410.00 U
2-CHLOROPHENOL	ug/kg	360.00 U	410.00 U
1,3-DICHLOROBENZENE	ug/kg	360.00 U	410.00 U
1,4-DICHLOROBENZENE	ug/kg	360.00 U	410.00 U
1,2-DICHLOROBENZENE	ug/kg	360.00 U	410.00 U
2-METHYLPHENOL	ug/kg	360.00 U	410.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	360.00 U	410.00 U
4-METHYLPHENOL	ug/kg	360.00 U	410.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	360.00 U	410.00 U
HEXACHLOROETHANE	ug/kg	360.00 U	410.00 U
NITROBENZENE	ug/kg	360.00 UJ	410.00 UJ
ISOPHORONE	ug/kg	360.00 U	410.00 U
2-NITROPHENOL	ug/kg	360.00 U	410.00 U
2,4-DIMETHYLPHENOL	ug/kg	360.00 U	410.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	360.00 U	410.00 U
2,4-DICHLOROPHENOL	ug/kg	360.00 U	410.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	360.00 U	410.00 U
NAPHTHALENE	ug/kg	360.00 U	410.00 U
4-CHLOROANILINE	ug/kg	360.00 U	410.00 U
HEXACHLOROBUTADIENE	ug/kg	360.00 U	410.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	360.00 U	410.00 U
2-METHYLNAPHTHALENE	ug/kg	360.00 U	410.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	360.00 U	410.00 U
2,4,6-TRICHLOROPHENOL	ug/kg	360.00 U	410.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	920.00 U	1,000.00 U
2-CHLORONAPHTHALENE	ug/kg	360.00 U	410.00 U
2-NITROANILINE	ug/kg	920.00 UJ	1,000.00 UJ
DIMETHYLPHTHALALTE	ug/kg	360.00 U	410.00 U
ACENAPHTHYLENE	ug/kg	360.00 U	410.00 U
2,6-DINITROTOLUENE	ug/kg	360.00 U	410.00 U
3-NITROANILINE	ug/kg	920.00 U	1,000.00 U
ACENAPHTHENE	ug/kg	360.00 UJ	410.00 UJ

SAMPLE NAME		DP021-SS	DP022-SS	DP023-SS	DP024-SS	DP025-SS	DP026-SS
SAMPLE DATE		11/29/94	11/29/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Semivolatiles - Page 2							
2,4-DINITROPHENOL	ug/kg	1,000.00 UJ	980.00 UJ	1,000.00 U	1,000.00 U	1,000.00 U	1,000.00 U
4-NITROPHENOL	ug/kg	1,000.00 U	980.00 U	1,000.00 U	1,000.00 U	1,000.00 U	1,000.00 U
DIBENZOFURAN	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
2,4-DINITROTOLUENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
DIETHYLPHTHALATE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
FLUORENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
4-NITROANILINE	ug/kg	1,000.00 U	980.00 U	1,000.00 U	1,000.00 U	1,000.00 U	1,000.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	1,000.00 U	980.00 U	1,000.00 U	1,000.00 U	1,000.00 U	1,000.00 U
N-NITROSODIPHENYLAMINE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
HEXACHLOROBENZENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
PENTACHLOROPHENOL	ug/kg	1,000.00 U	980.00 U	1,000.00 U	1,000.00 U	1,000.00 U	1,000.00 U
PHENANTHRENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	22.00 J	430.00 U
ANTHRACENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
CARBAZOLE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
DI-N-BUTYLPHTHALATE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
FLUORANTHENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	42.00 J	430.00 U
PYRENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	30.00 J	430.00 U
BUTYLBENZYLPHTHALATE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
3,3'-DICHLOROBENZIDINE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
BENZO(A)ANTHRACENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
CHRYSENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	30.00 J	430.00 U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
DI-N-OCTYLPHTHALATE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 UJ	430.00 U	430.00 U
BENZO(B)FLUORANTHENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	36.00 J	430.00 U
BENZO(K)FLUORANTHENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	430.00 U	430.00 U
BENZO(A)PYRENE	ug/kg	420.00 U	400.00 U	430.00 U	410.00 U	27.00 J	430.00 U
INDENO(1,2,3-CD)PYRENE	ug/kg	420.00 U	400.00 U	41.00 J	410.00 U	29.00 J	430.00 U
DIBENZO(A,H)ANTHRACENE	ug/kg	420.00 U	400.00 U	50.00 J	410.00 U	25.00 J	430.00 U
BENZO(G,H,I)PERYLENE	ug/kg	420.00 U	400.00 U	31.00 J	410.00 U	28.00 J	430.00 U

SAMPLE NAME		DP036	DP027-SS	DP028-SS	DP029-SS	DP030-SS	DP031-SS
SAMPLE DATE		11/30/94	12/01/94	12/01/94	12/01/94	12/02/94	12/01/94
TEXT 001		Dup of DP026-SS					
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Semivolatiles - Page 2							
2,4-DINITROPHENOL	ug/kg	1,000.00 U	1,000.00 U	990.00 U	1,000.00 U	990.00 U	1,000.00 U
4-NITROPHENOL	ug/kg	1,000.00 UJ	1,000.00 U	990.00 U	1,000.00 U	990.00 U	1,000.00 U
DIBENZOFURAN	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
2,4-DINITROTOLUENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
DIETHYLPHTHALATE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
FLUORENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
4-NITROANILINE	ug/kg	1,000.00 U	1,000.00 U	990.00 U	1,000.00 U	990.00 U	1,000.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	1,000.00 U	1,000.00 U	990.00 U	1,000.00 U	990.00 U	1,000.00 U
N-NITROSODIPHENYLAMINE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
HEXACHLOROBENZENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
PENTACHLOROPHENOL	ug/kg	1,000.00 U	1,000.00 U	990.00 U	1,000.00 U	990.00 U	1,000.00 U
PHENANTHRENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
ANTHRACENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
CARBAZOLE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
DI-N-BUTYLPHTHALATE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
FLUORANTHENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
PYRENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
BUTYLBENZYLPHTHALATE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
3,3'-DICHLOROBENZIDINE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
BENZO(A)ANTHRACENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
CHRYSENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
DI-N-OCTYLPHTHALATE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
BENZO(B)FLUORANTHENE	ug/kg	420.00 U	420.00 UJ	410.00 U	420.00 U	410.00 U	410.00 U
BENZO(K)FLUORANTHENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
BENZO(A)PYRENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
INDENO(1,2,3-CD)PYRENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
DIBENZO(A,H)ANTHRACENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U
BENZO(G,H,I)PERYLENE	ug/kg	420.00 U	420.00 U	410.00 U	420.00 U	410.00 U	410.00 U

SAMPLE NAME		DP032-SS	DP037	SB01-SS	SB02-SS	SB03-SS	SB18-SS
SAMPLE DATE		12/02/94	12/02/94	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001			Dup of DP032-SS				
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Semivolatiles - Page 2							
2,4-DINITROPHENOL	ug/kg	1,000.00 U	990.00 UJ	880.00 U	1,300.00 U	990.00 U	830.00 U
4-NITROPHENOL	ug/kg	1,000.00 U	990.00 U	880.00 U	1,300.00 U	990.00 U	830.00 U
DIBENZOFURAN	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
2,4-DINITROTOLUENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
DIETHYLPHTHALATE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
FLUORENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
4-NITROANILINE	ug/kg	1,000.00 U	990.00 U	880.00 UJ	1,300.00 U	990.00 U	830.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	1,000.00 U	990.00 UJ	880.00 U	1,300.00 U	990.00 U	830.00 U
N-NITROSODIPHENYLAMINE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
HEXACHLOROBENZENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
PENTACHLOROPHENOL	ug/kg	1,000.00 U	990.00 UJ	880.00 U	1,300.00 U	990.00 U	830.00 U
PHENANTHRENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	46.00 J
ANTHRACENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
CARBAZOLE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
DI-N-BUTYLPHTHALATE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
FLUORANTHENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	79.00 J
PYRENE	ug/kg	410.00 U	410.00 UJ	350.00 U	530.00 UJ	390.00 UJ	84.00 J
BUTYLBENZYLPHTHALATE	ug/kg	410.00 U	410.00 U	350.00 UJ	530.00 U	390.00 U	330.00 U
3,3'-DICHLOROBENZIDINE	ug/kg	410.00 U	410.00 U	350.00 UJ	530.00 UJ	390.00 UJ	330.00 U
BENZO(A)ANTHRACENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	38.00 J
CHRYSENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	47.00 J
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	410.00 U	410.00 U	350.00 UJ	240.00 J	120.00 J	860.00
DI-N-OCTYLPHTHALATE	ug/kg	410.00 U	28.00 J	350.00 U	530.00 U	390.00 U	330.00 U
BENZO(B)FLUORANTHENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	82.00 XJ
BENZO(K)FLUORANTHENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	81.00 XJ
BENZO(A)PYRENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	32.00 J
INDENO(1,2,3-CD)PYRENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	18.00 J
DIBENZO(A,H)ANTHRACENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	330.00 U
BENZO(G,H,I)PERYLENE	ug/kg	410.00 U	410.00 U	350.00 U	530.00 U	390.00 U	18.00 J

SAMPLE NAME		SS01	SS02
SAMPLE DATE		06/08/95	06/08/95
TEXT 001			
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'
Semivolatiles - Page 2			
2,4-DINITROPHENOL	ug/kg	920.00 UJ	1,000.00 UJ
4-NITROPHENOL	ug/kg	920.00 UJ	1,000.00 UJ
DIBENZOFURAN	ug/kg	360.00 U	410.00 U
2,4-DINITROTOLUENE	ug/kg	360.00 U	410.00 U
DIETHYLPHTHALATE	ug/kg	360.00 U	410.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	360.00 U	410.00 U
FLUORENE	ug/kg	360.00 U	410.00 U
4-NITROANILINE	ug/kg	920.00 U	1,000.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	920.00 UJ	1,000.00 UJ
N-NITROSODIPHENYLAMINE	ug/kg	360.00 U	410.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	360.00 U	410.00 U
HEXACHLOROBENZENE	ug/kg	360.00 U	410.00 U
PENTACHLOROPHENOL	ug/kg	920.00 U	1,000.00 U
PHENANTHRENE	ug/kg	260.00 J	180.00 J
ANTHRACENE	ug/kg	360.00 U	410.00 U
CARBAZOLE	ug/kg	360.00 U	410.00 U
DI-N-BUTYLPHTHALATE	ug/kg	360.00 U	410.00 U
FLUORANTHENE	ug/kg	540.00	300.00 J
PYRENE	ug/kg	480.00 J	290.00 J
BUTYLBENZYLPHTHALATE	ug/kg	360.00 UJ	410.00 UJ
3,3'-DICHLOROBENZIDINE	ug/kg	360.00 UJ	410.00 UJ
BENZO(A)ANTHRACENE	ug/kg	220.00 J	160.00 J
CHRYSENE	ug/kg	290.00 J	180.00 J
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	180.00 J	180.00 J
DI-N-OCTYLPHTHALATE	ug/kg	360.00 UJ	410.00 UJ
BENZO(B)FLUORANTHENE	ug/kg	520.00	320.00 J
BENZO(K)FLUORANTHENE	ug/kg	510.00	320.00 J
BENZO(A)PYRENE	ug/kg	260.00 J	210.00 J
INDENO(1,2,3-CD)PYRENE	ug/kg	360.00 U	410.00 U
DIBENZO(A,H)ANTHRACENE	ug/kg	360.00 U	410.00 U
BENZO(G,H,I)PERYLENE	ug/kg	360.00 U	410.00 U

SAMPLE NAME		DP021-SS	DP022-SS	DP023-SS	DP024-SS	DP025-SS	DP026-SS
SAMPLE DATE		11/29/94	11/29/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Pesticides/PCBs							
ALPHA-BHC	ug/kg	2.20 U	2.10 U	2.20 U	2.10 U	2.20 U	2.20 U
BETA-BHC	ug/kg	2.20 U	2.10 U	2.20 UJ	2.10 UJ	2.20 UJ	2.20 UJ
DELTA-BHC	ug/kg	2.20 U	2.10 U	2.20 U	2.10 U	2.20 U	2.20 U
gamma-BHC (Lindane)	ug/kg	2.20 U	2.10 U	2.20 U	2.10 U	2.20 U	2.20 U
HEPTACHLOR	ug/kg	2.20 U	2.10 U	2.20 U	2.10 U	2.20 U	2.20 U
ALDRIN	ug/kg	2.20 U	2.10 U	2.20 U	2.10 U	2.20 U	2.20 U
HEPTACHLOR EPOXIDE	ug/kg	2.20 U	2.10 U	2.20 U	2.10 U	2.20 U	2.20 U
ENDOSULFAN I	ug/kg	2.20 U	2.10 U	2.20 U	2.10 U	2.20 U	2.20 U
DIELDRIN	ug/kg	4.20 U	4.00 U	4.30 U	4.10 U	4.30 U	4.30 U
4,4'-DDE	ug/kg	4.20 U	4.00 U	4.30 U	4.10 U	4.30 U	4.30 U
ENDRIN	ug/kg	4.20 U	4.00 U	4.30 U	4.10 U	4.30 U	4.30 U
ENDOSULFAN II	ug/kg	4.20 U	4.00 U	4.30 U	4.10 U	4.30 U	4.30 U
4,4'-DDD	ug/kg	4.20 U	4.00 U	4.30 U	4.10 U	4.30 U	4.30 U
ENDOSULFAN SULFATE	ug/kg	4.20 U	4.00 U	4.30 U	4.10 U	4.30 U	4.30 U
4,4'-DDT	ug/kg	4.20 UJ	4.00 UJ	4.30 U	4.10 U	4.30 U	4.30 U
METHOXYCHLOR	ug/kg	22.00 U	21.00 U	22.00 U	21.00 U	22.00 U	22.00 U
ENDRIN KETONE	ug/kg	4.20 U	4.00 U	4.30 U	4.10 U	4.30 U	4.30 U
ENDRIN ALDEHYDE	ug/kg	4.20 U	4.00 U	4.30 U	4.10 U	4.30 U	4.30 U
ALPHA-CHLORDANE	ug/kg	2.20 U	2.10 U	2.20 U	2.10 U	2.20 U	9.30
GAMMA-CHLORDANE	ug/kg	2.20 U	2.10 U	2.20 U	2.10 U	2.20 U	2.20 U
TOXAPHENE	ug/kg	220.00 U	210.00 U	220.00 U	210.00 U	220.00 U	220.00 U
AROCLOR 1016	ug/kg	42.00 U	40.00 U	43.00 U	41.00 U	43.00 U	43.00 U
AROCLOR 1221	ug/kg	86.00 U	82.00 U	87.00 U	84.00 U	87.00 U	88.00 U
AROCLOR 1232	ug/kg	42.00 U	40.00 U	43.00 U	41.00 U	43.00 U	43.00 U
AROCLOR 1242	ug/kg	42.00 U	40.00 U	43.00 U	41.00 U	43.00 U	43.00 U
AROCLOR 1248	ug/kg	42.00 U	40.00 U	43.00 U	41.00 U	43.00 U	43.00 U
AROCLOR 1254	ug/kg	42.00 U	40.00 U	43.00 U	41.00 U	43.00 U	43.00 U
AROCLOR 1260	ug/kg	42.00 U	40.00 U	43.00 U	41.00 U	43.00 U	43.00 U

SAMPLE NAME		DP036	DP027-SS	DP028-SS	DP029-SS	DP030-SS	DP031-SS
SAMPLE DATE		11/30/94	12/01/94	12/01/94	12/01/94	12/02/94	12/01/94
TEXT 001		Dup of DP026-SS					
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Pesticides/PCBs							
ALPHA-BHC	ug/kg	2.00 U	2.20 U	2.10 U	2.20 U	2.10 U	2.10 U
BETA-BHC	ug/kg	2.20 UJ	2.20 UJ	2.10 UJ	2.20 UJ	2.10 UJ	2.10 U
DELTA-BHC	ug/kg	2.20 U	2.20 U	2.10 U	2.20 U	2.10 U	2.10 U
gamma-BHC (Lindane)	ug/kg	2.20 U	2.20 U	2.10 U	2.20 U	2.10 U	2.10 U
HEPTACHLOR	ug/kg	2.20 U	2.20 U	2.10 U	2.20 U	2.10 U	2.10 U
ALDRIN	ug/kg	2.20 U	2.20 U	2.10 U	2.20 U	2.10 U	2.10 U
HEPTACHLOR EPOXIDE	ug/kg	2.20 U	2.20 U	2.10 U	2.20 U	2.10 U	2.10 U
ENDOSULFAN I	ug/kg	2.20 U	2.20 U	2.10 U	2.20 U	2.10 U	2.10 U
DIELDRIN	ug/kg	4.20 U	4.20 U	4.10 U	4.20 U	4.10 U	4.10 U
4,4'-DDE	ug/kg	4.20 U	4.20 U	4.10 U	4.20 U	4.10 U	4.10 U
ENDRIN	ug/kg	4.20 U	4.20 U	4.10 U	4.20 U	4.10 U	4.10 U
ENDOSULFAN II	ug/kg	4.20 U	4.20 U	4.10 U	4.20 U	4.10 U	4.10 U
4,4'-DDD	ug/kg	4.20 U	4.20 U	4.10 U	4.20 U	4.10 U	4.10 U
ENDOSULFAN SULFATE	ug/kg	4.20 U	4.20 U	4.10 U	4.20 U	4.10 U	4.10 U
4,4'-DDT	ug/kg	4.20 U	4.20 U	4.10 U	4.20 U	4.10 U	4.10 U
METHOXYCHLOR	ug/kg	22.00 U	22.00 U	21.00 U	22.00 U	21.00 U	21.00 U
ENDRIN KETONE	ug/kg	4.20 U	4.20 U	4.10 U	4.20 U	4.10 U	4.10 U
ENDRIN ALDEHYDE	ug/kg	4.20 U	4.20 U	4.10 U	4.20 U	4.10 U	4.10 U
ALPHA-CHLORDANE	ug/kg	2.20 U	2.20 U	2.10 U	2.20 U	2.10 U	2.10 U
GAMMA-CHLORDANE	ug/kg	2.20 U	2.20 U	2.10 U	2.20 U	2.10 U	2.10 U
TOXAPHENE	ug/kg	220.00 U	220.00 U	210.00 U	220.00 U	210.00 U	210.00 U
AROCLOR 1016	ug/kg	42.00 U	42.00 U	41.00 U	42.00 U	41.00 U	41.00 U
AROCLOR 1221	ug/kg	86.00 U	85.00 U	83.00 U	86.00 U	83.00 U	84.00 U
AROCLOR 1232	ug/kg	42.00 U	42.00 U	41.00 U	42.00 U	41.00 U	41.00 U
AROCLOR 1242	ug/kg	42.00 U	42.00 U	41.00 U	42.00 U	41.00 U	41.00 U
AROCLOR 1248	ug/kg	42.00 U	42.00 U	41.00 U	42.00 U	41.00 U	41.00 U
AROCLOR 1254	ug/kg	42.00 U	42.00 U	41.00 U	42.00 U	41.00 U	41.00 U
AROCLOR 1260	ug/kg	42.00 U	42.00 U	41.00 U	42.00 U	41.00 U	41.00 U

SAMPLE NAME		DP032-SS	DP037	SB01-SS	SB02-SS	SB03-SS	SB18-SS
SAMPLE DATE		12/02/94	12/02/94	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001			Dup of DP032-SS				
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Pesticides/PCBs							
ALPHA-BHC	ug/kg	2.10 U	2.10 U	1.80 U	2.70 U	23.00 J	0.24 J
BETA-BHC	ug/kg	2.10 UJ	2.10 UJ	1.80 U	2.70 U	110.00 D	0.65 J
DELTA-BHC	ug/kg	2.10 U	2.10 U	1.80 U	0.37 J	4.00	0.38 J
gamma-BHC (Lindane)	ug/kg	2.10 U	2.10 U	1.80 U	2.70 U	2.40 J	1.70 U
HEPTACHLOR	ug/kg	2.10 U	3.50	1.80 U	2.70 UJ	2.00 UJ	1.70 UJ
ALDRIN	ug/kg	2.10 U	2.10 U	1.80 U	2.70 U	2.00 U	1.70 U
HEPTACHLOR EPOXIDE	ug/kg	2.10 U	2.10 U	1.80 U	2.70 U	2.00 U	1.70 U
ENDOSULFAN I	ug/kg	2.10 U	2.10 U	1.80 U	2.70 U	2.00 U	1.70 U
DIELDRIN	ug/kg	4.10 U	4.10 U	3.50 U	0.57 J	3.90 U	0.15 J
4,4'-DDE	ug/kg	4.10 U	4.10 U	3.50 U	5.30 U	3.90 U	1.70 U
ENDRIN	ug/kg	4.10 U	4.10 U	3.50 U	5.30 U	3.90 U	3.30 U
ENDOSULFAN II	ug/kg	4.10 U	4.10 U	3.50 U	5.30 U	3.90 U	3.30 U
4,4'-DDD	ug/kg	4.10 U	4.10 U	3.50 U	5.30 U	3.90 U	0.26 J
ENDOSULFAN SULFATE	ug/kg	4.10 U	4.10 U	3.50 U	0.19 J	3.90 U	3.30 U
4,4'-DDT	ug/kg	4.10 U	4.10 U	3.50 U	5.30 U	3.90 U	3.30 U
METHOXYCHLOR	ug/kg	21.00 U	21.00 U	1.60 NJ	27.00 U	20.00 U	17.00 U
ENDRIN KETONE	ug/kg	4.10 U	4.10 U	3.50 U	5.30 U	3.90 U	3.30 U
ENDRIN ALDEHYDE	ug/kg	4.10 U	4.10 U	3.50 U	0.25 J	3.90 U	3.30 U
ALPHA-CHLORDANE	ug/kg	2.10 U	2.10 U	1.80 U	2.70 U	2.00 U	1.70 U
GAMMA-CHLORDANE	ug/kg	2.10 U	2.10 U	1.80 U	2.70 U	2.00 U	0.14 J
TOXAPHENE	ug/kg	210.00 U	210.00 U	180.00 U	270.00 U	200.00 U	170.00 U
AROCLOR 1016	ug/kg	41.00 U	41.00 U	35.00 U	53.00 U	39.00 U	33.00 U
AROCLOR 1221	ug/kg	84.00 U	83.00 U	71.00 U	110.00 U	79.00 U	67.00 U
AROCLOR 1232	ug/kg	41.00 U	41.00 U	35.00 U	53.00 U	39.00 U	33.00 U
AROCLOR 1242	ug/kg	41.00 U	41.00 U	35.00 U	53.00 U	39.00 U	33.00 U
AROCLOR 1248	ug/kg	41.00 U	41.00 U	35.00 U	53.00 U	39.00 U	23.00 J
AROCLOR 1254	ug/kg	41.00 U	41.00 U	35.00 U	53.00 U	47.00	33.00 U
AROCLOR 1260	ug/kg	41.00 U	41.00 U	35.00 U	53.00 U	39.00 U	33.00 U

SAMPLE NAME		SS01	SS02
SAMPLE DATE		06/08/95	06/08/95
TEXT 001			
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'
Pesticides/PCBs			
ALPHA-BHC	ug/kg	1.90 U	2.10 U
BETA-BHC	ug/kg	1.90 U	2.10 U
DELTA-BHC	ug/kg	4.00	2.10 U
gamma-BHC (Lindane)	ug/kg	1.90 U	2.10 U
HEPTACHLOR	ug/kg	1.90 U	2.10 U
ALDRIN	ug/kg	1.90 U	2.10 U
HEPTACHLOR EPOXIDE	ug/kg	5.50	1.10 J
ENDOSULFAN I	ug/kg	1.90 U	2.10 U
DIELDRIN	ug/kg	4.00 J	1.50 J
4,4'-DDE	ug/kg	3.60 U	8.30 J
ENDRIN	ug/kg	3.60 U	4.10 U
ENDOSULFAN II	ug/kg	3.60 U	4.10 U
4,4'-DDD	ug/kg	3.60 U	4.10 U
ENDOSULFAN SULFATE	ug/kg	3.60 U	4.10 U
4,4'-DDT	ug/kg	19.00	R
METHOXYCHLOR	ug/kg	19.00 U	21.00 U
ENDRIN KETONE	ug/kg	3.60 U	4.10 U
ENDRIN ALDEHYDE	ug/kg	3.60 U	7.30
ALPHA-CHLORDANE	ug/kg	25.00	3.70
GAMMA-CHLORDANE	ug/kg	15.00 J	4.10 U
TOXAPHENE	ug/kg	190.00 U	210.00 U
AROCLOR 1016	ug/kg	36.00 U	41.00 U
AROCLOR 1221	ug/kg	74.00 U	83.00 U
AROCLOR 1232	ug/kg	36.00 U	41.00 U
AROCLOR 1242	ug/kg	36.00 U	41.00 U
AROCLOR 1248	ug/kg	36.00 U	41.00 U
AROCLOR 1254	ug/kg	36.00 U	41.00 U
AROCLOR 1260	ug/kg	36.00 U	41.00 U

SAMPLE NAME		DP021-SS	DP022-SS	DP023-SS	DP024-SS	DP025-SS	DP026-SS
SAMPLE DATE		11/29/94	11/29/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Inorganic Analytes							
ALUMINUM	mg/kg	26,700.00	27,500.00	40,000.00	29,600.00 EJ	22,500.00 EJ	35,200.00 EJ
ANTIMONY	mg/kg	1.20 U	1.20 U	1.30 U	1.30 U	1.20 U	1.30 U
ARSENIC	mg/kg	3.40 J	3.90 J	7.20 J	6.50	6.70	4.30
BARIUM	mg/kg	169.00	158.00	278.00	147.00	154.00	232.00
BERYLLIUM	mg/kg	0.25 U	0.40 B	1.50	0.25 U	0.25 U	0.63 B
CADMIUM	mg/kg	0.50 U	0.47 U	0.54 U	0.51 U	0.50 U	0.53 U
CALCIUM	mg/kg	81,900.00	1,730.00	5,070.00	4,360.00	4,090.00	9,830.00
CHROMIUM	mg/kg	35.90	37.40	52.00	40.90	33.20	46.00
COBALT	mg/kg	17.40	40.60	20.30	15.20 J	14.60 J	15.20 J
COPPER	mg/kg	32.30	22.90	41.40	26.50 J	30.50 J	35.40 J
IRON	mg/kg	32,600.00	35,600.00	49,500.00	42,400.00	38,200.00	44,800.00
LEAD	mg/kg	14.40	20.60	21.70	18.70	19.00	17.20
MAGNESIUM	mg/kg	13,100.00	7,390.00	10,400.00	10,000.00	8,310.00	9,500.00
MANGANESE	mg/kg	1,010.00	710.00	889.00	427.00	863.00	609.00
MERCURY	mg/kg	0.12 U	0.12 U	0.13 U	0.13 U	0.12 U	0.13 U
NICKEL	mg/kg	36.90	31.70	49.70	34.60	33.40	43.10
POTASSIUM	mg/kg	7,570.00 EJ	4,170.00 EJ	6,690.00 EJ	5,050.00 J	4,280.00 J	5,500.00 J
SELENIUM	mg/kg	1.20 U	1.20 U	1.30 U	1.30 UJ	1.20 UJ	1.30 UJ
SILVER	mg/kg	0.75 UNJ	0.70 UNJ	0.81 UNJ	0.76 U	0.75 U	0.80 U
SODIUM	mg/kg	558.00 BE	227.00 BE	264.00 BE	340.00 BE	245.00 BE	242.00 BE
THALLIUM	mg/kg	1.70 U	1.60 U	2.40 B	1.80 U	1.70 U	1.90 U
VANADIUM	mg/kg	45.60	51.20	63.30	49.80	42.70	55.70
ZINC	mg/kg	68.90	76.10	104.00	86.90	78.70	93.20
CYANIDE	mg/kg	1.20 U	1.20 U	1.30 U	1.30 U	1.20 U	1.30 U

SAMPLE NAME		DP036	DP027-SS	DP028-SS	DP029-SS	DP030-SS	DP031-SS
SAMPLE DATE		11/30/94	12/01/94	12/01/94	12/01/94	12/02/94	12/01/94
TEXT 001		Dup of DP026-SS					
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Inorganic Analytes							
ALUMINUM	mg/kg	35,700.00 EJ	36,500.00 EJ	29,300.00 EJ	28,300.00 EJ	19,300.00	31,300.00 EJ
ANTIMONY	mg/kg	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U
ARSENIC	mg/kg	6.60	7.50	5.70	8.10	8.50 J	6.90
BARIUM	mg/kg	230.00	211.00	159.00	158.00	138.00	189.00
BERYLLIUM	mg/kg	0.26 U	0.26 U	0.48 B	0.27 U	0.25 U	0.25 U
CADMIUM	mg/kg	0.52 U	0.52 U	0.51 U	0.54 U	0.51 U	0.51 U
CALCIUM	mg/kg	19,300.00	24,600.00	4,400.00	3,750.00	3,190.00	6,050.00
CHROMIUM	mg/kg	46.80	47.20	39.10	41.80	33.70	44.50
COBALT	mg/kg	21.10 J	18.90 J	25.00 J	15.40 J	30.50	17.90 J
COPPER	mg/kg	35.30 J	32.70 J	23.20 J	27.70 J	18.60	31.10 J
IRON	mg/kg	45,400.00	48,800.00	42,700.00	46,400.00	40,200.00	46,400.00
LEAD	mg/kg	17.90	18.30	22.80	21.80	34.80	19.60
MAGNESIUM	mg/kg	10,700.00	14,300.00	9,070.00	7,670.00	5,850.00	10,900.00
MANGANESE	mg/kg	1,090.00	593.00	1,070.00	691.00	2,800.00	718.00
MERCURY	mg/kg	0.13 U	0.13 U	0.13 U	0.13 U	0.30	0.13 U
NICKEL	mg/kg	45.20	41.70	36.10	34.40	29.00	39.10
POTASSIUM	mg/kg	7,990.00 J	8,990.00 J	4,190.00 J	4,710.00 J	1,790.00 J	5,120.00 J
SELENIUM	mg/kg	1.30 UJ	1.30 UJ	1.30 UJ	1.30 U	1.30 U	1.30 UJ
SILVER	mg/kg	0.78 U	0.78 U	0.77 U	0.81 U	0.76 U	0.76 U
SODIUM	mg/kg	332.00 BE	421.00 BE	241.00 BE	238.00 BE	226.00 B	311.00 BE
THALLIUM	mg/kg	1.80 U	1.90 BJ	1.80 U	1.90 B	1.80 U	1.80 U
VANADIUM	mg/kg	58.80	62.90	49.80	53.50	44.60	54.60
ZINC	mg/kg	83.50	81.50	88.90	90.30	95.10	90.00
CYANIDE	mg/kg	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U

SAMPLE NAME		DP032-SS	DP037	SB01-SS	SB02-SS	SB03-SS	SB18-SS
SAMPLE DATE		12/02/94	12/02/94	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001			Dup of DP032-SS				
SAMPLE DEPTH		0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'	0.00 - 2.00'
Inorganic Analytes							
ALUMINUM	mg/kg	23,600.00 EJ	27,800.00 EJ	19,800.00 *	15,200.00	10,700.00	17,400.00
ANTIMONY	mg/kg	1.30 U	1.30 U	5.90 BNJ	3.10 UNJ	2.90 UNJ	3.00 UNJ
ARSENIC	mg/kg	2.70	4.80	6.40	5.70	6.40	5.20
BARIUM	mg/kg	162.00	144.00	119.00	141.00	133.00	114.00
BERYLLIUM	mg/kg	0.26 B	0.69 B	0.82 B	0.66 B	0.69 B	0.49 B
CADMIUM	mg/kg	0.51 U	0.52 U	0.26 U	0.60 B	0.54 B	0.52 B
CALCIUM	mg/kg	7,430.00	6,390.00	2,460.00	48,800.00	50,100.00	72,300.00
CHROMIUM	mg/kg	31.10	33.70	23.80	21.10	13.10	803.00
COBALT	mg/kg	11.80 BJ	80.00 J	12.70	10.70 B	9.40 B	13.00 J
COPPER	mg/kg	27.10 J	30.70 J	13.20	22.80 J	21.20 J	26.30 J
IRON	mg/kg	34,200.00	38,100.00	36,700.00 *	25,000.00	18,900.00	21,000.00
LEAD	mg/kg	13.90	20.70	15.20	9.40	17.70	26.00
MAGNESIUM	mg/kg	6,880.00	6,760.00	4,850.00 *	13,400.00	18,600.00	24,100.00
MANGANESE	mg/kg	419.00 J	1,630.00 J	794.00	474.00	600.00	588.00
MERCURY	mg/kg	0.13 U	0.13 U	0.06 U	0.06 U	0.06 U	1.50
NICKEL	mg/kg	31.20	32.90	19.50	25.00	18.70	24.00
POTASSIUM	mg/kg	3,170.00 J	3,310.00 J	1,880.00	2,380.00	1,400.00	2,060.00
SELENIUM	mg/kg	1.30 U	1.30 U	0.58 U	0.57 U	0.54 U	0.56 U
SILVER	mg/kg	0.76 U	0.77 U	1.90 B	0.62 U	0.58 U	0.60 U
SODIUM	mg/kg	242.00 BE	180.00 BE	65.70 B	151.00 B	282.00 B	562.00 B
THALLIUM	mg/kg	1.80 U	1.80 U	1.70 B	1.40 B	1.20 B	1.20 U
VANADIUM	mg/kg	39.10	45.80	36.10 J	28.70 J	21.20 J	38.50 J
ZINC	mg/kg	66.00	72.40	64.60	73.00 NJ	97.00 NJ	88.70 NJ
CYANIDE	mg/kg	1.30 U	1.30 U	0.54 U	0.57 U	0.55 U	0.57 U

SAMPLE NAME		SS01		SS02	
SAMPLE DATE		06/08/95		06/08/95	
TEXT 001					
SAMPLE DEPTH		0.00 - 0.50'		0.00 - 0.50'	
Inorganic Analytes					
ALUMINUM	mg/kg	17,900.00		19,000.00	
ANTIMONY	mg/kg	11.80	UNJ	12.80	UNJ
ARSENIC	mg/kg	5.10		5.50	L
BARIUM	mg/kg	134.00		175.00	
BERYLLIUM	mg/kg	0.86	B	0.88	B
CADMIUM	mg/kg	1.00	B	0.98	B
CALCIUM	mg/kg	16,700.00	*	15,700.00	*
CHROMIUM	mg/kg	R		R	
COBALT	mg/kg	11.20		11.20	B
COPPER	mg/kg	30.30	*J	28.30	*J
IRON	mg/kg	25,200.00		26,700.00	
LEAD	mg/kg	102.00	*J	103.00	*J
MAGNESIUM	mg/kg	10,100.00	EJ	9,780.00	EJ
MANGANESE	mg/kg	656.00		567.00	
MERCURY	mg/kg	0.17	NJ	0.36	NJ
NICKEL	mg/kg	R		R	
POTASSIUM	mg/kg	R		R	
SELENIUM	mg/kg	0.70	UJ	0.83	UJ
SILVER	mg/kg	1.50	UJ	1.60	UJ
SODIUM	mg/kg	R		R	
THALLIUM	mg/kg	0.95	UW	1.10	UW
VANADIUM	mg/kg	37.60		38.30	
ZINC	mg/kg	215.00		150.00	
CYANIDE	mg/kg	0.57	U	0.63	U

AOC2 - NORTHERN ASPECT
SUBSURFACE SOIL DATA

SAMPLE NAME		DP021	DP022	DP023	DP024	DP025	DP026
SAMPLE DATE		11/29/94	11/30/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		10.00 - 12.00'	8.00 - 10.00'	10.00 - 12.00'	6.00 - 8.00'	6.00 - 8.00'	9.00 - 11.00'
Conventinal Parameters							
pH	units	7.60	7.10	7.40	7.60	7.30	7.20
SULFIDE	mg/kg						
TOTAL ORGANIC CARBON	mg/kg	17,200.00	18,200.00	6,520.00	13,600.00	3,030.00	6,760.00
TOTAL SOLIDS	%	81.40	88.80	76.70	79.20	80.60	76.30
TOTAL SOILDS (EXTENDED)	%						
ALKALINITY	mg/l						
AMMONIA	mg/l						
BOD	mg/l						
COD	mg/l						
TOTAL DISSOLVD SOLIDS	mg/l						
HARDNESS	mg/l						
NITRATE/NITRITE	mg/l						
TOTAL KJELDAHL NITROGEN	mg/l						

SAMPLE NAME		DP027	DP028	DP029	DP030	DP031	DP032
SAMPLE DATE		12/01/94	12/01/94	12/02/94	12/02/94	12/01/94	12/02/94
TEXT 001							
SAMPLE DEPTH		6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	10.00 - 12.00'	8.00 - 10.00'
Conventinal Parameters							
pH	units	7.70	7.70	7.00	8.00	7.60	7.00
SULFIDE	mg/kg						
TOTAL ORGANIC CARBON	mg/kg	10,200.00	19,200.00	23,900.00	6,470.00	28,700.00 J	39,800.00
TOTAL SOLIDS	%	82.20	84.80	84.00	79.00	76.00	75.00
TOTAL SOILDS (EXTENDED)	%						
ALKALINITY	mg/l						
AMMONIA	mg/l						
BOD	mg/l						
COD	mg/l						
TOTAL DISSOLVD SOLIDS	mg/l						
HARDNESS	mg/l						
NITRATE/NITRITE	mg/l						
TOTAL KJELDAHL NITROGEN	mg/l						

SAMPLE NAME		SB01	SB03	SB18
SAMPLE DATE		06/20/95	06/21/95	06/21/95
TEXT 001				
SAMPLE DEPTH		8.00 - 10.00'	12.00 - 14.00'	12.00 - 14.00'
Conventinal Parameters				
pH	units	8.20		7.90
SULFIDE	mg/kg			
TOTAL ORGANIC CARBON	mg/kg	16,300.00		8,100.00
TOTAL SOLIDS	%	86.90	67.40	85.10
TOTAL SOILDS (EXTENDED)	%			
ALKALINITY	mg/l			
AMMONIA	mg/l			
BOD	mg/l			
COD	mg/l			
TOTAL DISSOLVD SOLIDS	mg/l			
HARDNESS	mg/l			
NITRATE/NITRITE	mg/l			
TOTAL KJELDAHL NITROGEN	mg/l			

SAMPLE NAME		DP021	DP022	DP023	DP024	DP025	DP026
SAMPLE DATE		11/29/94	11/30/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		10.00 - 12.00'	8.00 - 10.00'	10.00 - 12.00'	6.00 - 8.00'	6.00 - 8.00'	9.00 - 11.00'
Grain Analysis							
GRAVEL	%	1.00 J	12.70 J	7.50 J	4.40 J	9.60 J	0.00 J
SAND (A) COARSE	%	1.50	9.40	2.70 J	3.40 J	11.20	0.30 J
SAND (B) MEDIUM	%	1.10	3.30	1.30 J	1.10 J	4.00	0.30 J
SAND (C) FINE	%	3.80	11.60	4.10 J	4.60 J	14.20	1.00 J
SAND (D) FINE	%	1.30	2.10	1.60 J	2.60 J	6.40	0.50 J
SILTS/CLAYS (<0.075 MM)	%						
SILT (A)	%	32.30	35.10	17.10 J	26.80 J	29.00	4.10 J
SILT (B)	%	9.80 J	15.60 J	11.90	20.10	14.50 J	21.80
CLAY	%	15.80 J	3.90 J	17.40 J	14.10 J	5.20 J	29.80 J
COLLOIDS	%	33.20 J	4.50 J	36.10 J	18.40 J	4.40 J	41.30 J
TOTALS FOR GROUP		99.80	98.20	99.70	95.50	98.50	99.10

SAMPLE NAME		DP027	DP028	DP029	DP030	DP031	DP032
SAMPLE DATE		12/01/94	12/01/94	12/02/94	12/02/94	12/01/94	12/02/94
TEXT 001							
SAMPLE DEPTH		6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	10.00 - 12.00'	8.00 - 10.00'
Grain Analysis							
GRAVEL	%	0.00 J	0.30 J	1.00 J	0.10 J	4.90 J	0.00 J
SAND (A) COARSE	%	0.40	0.50 J	2.90 J	0.30 J	8.10 J	0.20 J
SAND (B) MEDIUM	%	0.40	0.70 J	1.20 J	0.20 J	3.30 J	0.10 J
SAND (C) FINE	%	1.40	3.70 J	4.00 J	0.90 J	10.60 J	0.40 J
SAND (D) FINE	%	0.70	1.40 J	0.90 J	0.50 J	5.50 J	0.20 J
SILTS/CLAYS (<0.075 MM)	%						
SILT (A)	%	9.60	11.00 J	19.20 J	6.70 J	25.80 J	10.10 J
SILT (B)	%	19.30 J	21.20	23.20	17.10	18.80	14.70
CLAY	%	22.80 J	19.50 J	21.10 J	26.40 J	8.80 J	24.50 J
COLLOIDS	%	45.10 J	41.40 J	24.30 J	43.90 J	12.60 J	48.80 J
TOTALS FOR GROUP		99.70	99.70	97.80	96.10	98.40	99.00

SAMPLE NAME		SB01	SB03	SB18
SAMPLE DATE		06/20/95	06/21/95	06/21/95
TEXT 001				
SAMPLE DEPTH		8.00 - 10.00'	12.00 - 14.00'	12.00 - 14.00'
Grain Analysis				
GRAVEL	%	13.10 J		10.00
SAND (A) COARSE	%	10.00		12.70 J
SAND (B) MEDIUM	%	3.20		4.30
SAND (C) FINE	%	9.80 J		14.40 J
SAND (D) FINE	%	4.80 J		5.40 J
SILTS/CLAYS (<0.075 MM)	%			
SILT (A)	%	34.60 J		28.20 J
SILT (B)	%	21.40		18.70 J
CLAY	%	3.10		6.20
COLLOIDS	%	0.00 J		0.00 J
TOTALS FOR GROUP		100.00	0.00	99.90

AOC2 - NORTHERN ASPECT
SUBSURFACE SOIL DATA

SAMPLE NAME		DP021	DP022	DP023	DP024	DP025	DP026
SAMPLE DATE		11/29/94	11/30/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		10.00 - 12.00'	8.00 - 10.00'	10.00 - 12.00'	6.00 - 8.00'	6.00 - 8.00'	9.00 - 11.00'
Targeted SemiVolatiles							
PHENYL ISOTHIOCYANATE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
DIPHENYLAMINE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	200.00 UJ	200.00 UJ	200.00 UJ	200.00 U	200.00 UJ	200.00 UJ
2-ANILINOBENZOTHIAZOLE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
PERYLENE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
ANILINE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
PHENOTHIAZINE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 UJ	200.00 U	200.00 U
BENZOTHIAZOLE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U

SAMPLE NAME		DP027	DP028	DP029	DP030	DP031	DP032
SAMPLE DATE		12/01/94	12/01/94	12/02/94	12/02/94	12/01/94	12/02/94
TEXT 001							
SAMPLE DEPTH		6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	10.00 - 12.00'	8.00 - 10.00'
Targeted SemiVolatiles							
PHENYL ISOTHIOCYANATE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
DIPHENYLAMINE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	200.00 U	200.00 U	200.00 UJ	200.00 UJ	200.00 UJ	200.00 UJ
2-ANILINOBENZOTHIAZOLE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
PERYLENE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
ANILINE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
PHENOTHIAZINE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U
BENZOTHIAZOLE	ug/kg	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U	200.00 U

SAMPLE NAME		SB01	SB03	SB18
SAMPLE DATE		06/20/95	06/21/95	06/21/95
TEXT 001				
SAMPLE DEPTH		8.00 - 10.00'	12.00 - 14.00'	12.00 - 14.00'
Targeted SemiVolatiles				
PHENYL ISOTHIOCYANATE	ug/kg	230.00 U	300.00 U	240.00 U
DIPHENYLAMINE	ug/kg	230.00 U	300.00 U	240.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	230.00 U	300.00 UJ	240.00 U
2-ANILINOBENZOTHIAZOLE	ug/kg	230.00 U	130.00 J	240.00 U
PERYLENE	ug/kg	230.00 UJ	300.00 U	240.00 U
ANILINE	ug/kg	230.00 UJ	300.00 UJ	240.00 UJ
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	230.00 UJ	300.00 U	240.00 U
PHENOTHIAZINE	ug/kg	230.00 U	300.00 U	240.00 U
BENZOTHIAZOLE	ug/kg	230.00 U	300.00 U	240.00 U

SAMPLE NAME		DP021	DP022	DP023	DP024	DP025	DP026
SAMPLE DATE		11/29/94	11/30/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		10.00 - 12.00'	8.00 - 10.00'	10.00 - 12.00'	6.00 - 8.00'	6.00 - 8.00'	9.00 - 11.00'
Volatiles							
CHLOROMETHANE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
BROMOMETHANE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
VINYL CHLORIDE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
CHLOROETHANE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
METHYLENE CHLORIDE	ug/kg	14.00 UJ	16.00 U	12.00 U	12.00 U	17.00 U	17.00 U
ACETONE	ug/kg	13.00 UJ	21.00 U	12.00 U	12.00 U	18.00 U	13.00 U
CARBON DISULFIDE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
1,1-DICHLOROETHENE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
1,1-DICHLOROETHANE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
1,2-DICHLOROETHENE (total)	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
CHLOROFORM	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
1,2-DICHLOROETHANE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
2-BUTANONE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
1,1,1-TRICHLOROETHANE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
CARBON TETRACHLORIDE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
BROMODICHLOROMETHANE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
1,2-DICHLOROPROPANE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
TRICHLOROETHENE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
DIBROMOCHLOROMETHANE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
1,1,2-TRICHLOROETHANE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
BENZENE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
BROMOFORM	ug/kg	13.00 U	11.00 UJ	12.00 U	12.00 U	11.00 UJ	13.00 UJ
4-METHYL-2-PENTANONE	ug/kg	13.00 U	11.00 UJ	12.00 U	12.00 U	11.00 UJ	13.00 UJ
2-HEXANONE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
TETRACHLOROETHENE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	13.00 U	11.00 UJ	12.00 U	12.00 U	11.00 UJ	13.00 UJ
TOLUENE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
CHLOROBENZENE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
ETHYLBENZENE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
STYRENE	ug/kg	13.00 U	11.00 U	12.00 U	12.00 U	11.00 U	13.00 U
XYLENES (total)	ug/kg	13.00 U	11.00 U	1.00 J	12.00 U	11.00 U	13.00 U

SAMPLE NAME		DP027	DP028	DP029	DP030	DP031	DP032
SAMPLE DATE		12/01/94	12/01/94	12/02/94	12/02/94	12/01/94	12/02/94
TEXT 001							
SAMPLE DEPTH		6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	10.00 - 12.00'	8.00 - 10.00'
Volatiles							
CHLOROMETHANE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
BROMOMETHANE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
VINYL CHLORIDE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
CHLOROETHANE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
METHYLENE CHLORIDE	ug/kg	12.00 U	59.00	21.00	22.00	2.00 J	12.00 U
ACETONE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	15.00 U	3.00 J
CARBON DISULFIDE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
1,1-DICHLOROETHENE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
1,1-DICHLOROETHANE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
1,2-DICHLOROETHENE (total)	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
CHLOROFORM	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
1,2-DICHLOROETHANE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
2-BUTANONE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
1,1,1-TRICHLOROETHANE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
CARBON TETRACHLORIDE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
BROMODICHLOROMETHANE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
1,2-DICHLOROPROPANE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
TRICHLOROETHENE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
DIBROMOCHLOROMETHANE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
1,1,2-TRICHLOROETHANE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
BENZENE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
BROMOFORM	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
4-METHYL-2-PENTANONE	ug/kg	12.00 U	12.00 UJ	12.00 UJ	12.00 UJ	12.00 U	12.00 U
2-HEXANONE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
TETRACHLOROETHENE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
TOLUENE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
CHLOROBENZENE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
ETHYLBENZENE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
STYRENE	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U
XYLENES (total)	ug/kg	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U	12.00 U

SAMPLE NAME		SB01	SB03	SB18
SAMPLE DATE		06/20/95	06/21/95	06/21/95
TEXT 001				
SAMPLE DEPTH		8.00 - 10.00'	12.00 - 14.00'	12.00 - 14.00'
Volatiles				
CHLOROMETHANE	ug/kg	10.00 U	11.00 U	12.00 UJ
BROMOMETHANE	ug/kg	10.00 U	11.00 U	12.00 U
VINYL CHLORIDE	ug/kg	10.00 U	11.00 U	12.00 UJ
CHLOROETHANE	ug/kg	10.00 U	11.00 U	12.00 U
METHYLENE CHLORIDE	ug/kg	23.00 U	14.00 U	12.00 U
ACETONE	ug/kg	22.00 UJ	18.00 UJ	12.00 UJ
CARBON DISULFIDE	ug/kg	10.00 U	3.00 J	12.00 U
1,1-DICHLOROETHENE	ug/kg	10.00 U	11.00 U	12.00 U
1,1-DICHLOROETHANE	ug/kg	10.00 U	11.00 U	12.00 U
1,2-DICHLOROETHENE (total)	ug/kg	10.00 U	11.00 U	12.00 U
CHLOROFORM	ug/kg	10.00 U	11.00 U	12.00 U
1,2-DICHLOROETHANE	ug/kg	10.00 U	11.00 U	12.00 U
2-BUTANONE	ug/kg	10.00 UJ	11.00 UJ	12.00 U
1,1,1-TRICHLOROETHANE	ug/kg	10.00 UJ	11.00 UJ	12.00 UJ
CARBON TETRACHLORIDE	ug/kg	10.00 UJ	11.00 UJ	12.00 U
BROMODICHLOROMETHANE	ug/kg	10.00 U	11.00 U	12.00 U
1,2-DICHLOROPROPANE	ug/kg	10.00 U	11.00 U	12.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	10.00 U	11.00 U	12.00 U
TRICHLOROETHENE	ug/kg	10.00 U	11.00 U	12.00 U
DIBROMOCHLOROMETHANE	ug/kg	10.00 U	11.00 U	12.00 U
1,1,2-TRICHLOROETHANE	ug/kg	10.00 U	11.00 U	12.00 U
BENZENE	ug/kg	10.00 U	11.00 U	12.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	10.00 U	11.00 U	12.00 U
BROMOFORM	ug/kg	10.00 U	11.00 U	12.00 U
4-METHYL-2-PENTANONE	ug/kg	10.00 U	11.00 U	12.00 U
2-HEXANONE	ug/kg	10.00 U	11.00 U	12.00 U
TETRACHLOROETHENE	ug/kg	10.00 U	11.00 U	12.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	10.00 U	11.00 U	12.00 U
TOLUENE	ug/kg	10.00 U	11.00 U	12.00 U
CHLOROBENZENE	ug/kg	10.00 U	11.00 U	12.00 U
ETHYLBENZENE	ug/kg	10.00 U	11.00 U	12.00 U
STYRENE	ug/kg	10.00 U	11.00 U	12.00 U
XYLENES (total)	ug/kg	10.00 U	11.00 U	12.00 U

SAMPLE NAME		DP021	DP022	DP023	DP024	DP025	DP026
SAMPLE DATE		11/29/94	11/30/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		10.00 - 12.00'	8.00 - 10.00'	10.00 - 12.00'	6.00 - 8.00'	6.00 - 8.00'	9.00 - 11.00'
Semivolatiles - Page 1							
PHENOL	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
2-CHLOROPHENOL	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
1,3-DICHLOROBENZENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
1,4-DICHLOROBENZENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
1,2-DICHLOROBENZENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
2-METHYLPHENOL	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	430.00 U	370.00 UJ	410.00 U	390.00 U	370.00 UJ	420.00 U
4-METHYLPHENOL	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
HEXACHLOROETHANE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
NITROBENZENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
ISOPHORONE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
2-NITROPHENOL	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
2,4-DIMETHYLPHENOL	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
2,4-DICHLOROPHENOL	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
NAPHTHALENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
4-CHLOROANILINE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
HEXACHLOROBUTADIENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
2-METHYLNAPHTHALENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	430.00 UJ	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
2,4,6-TRICHLOROPHENOL	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	1,000.00 U	890.00 U	990.00 U	950.00 U	900.00 U	1,000.00 U
2-CHLORONAPHTHALENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
2-NITROANILINE	ug/kg	1,000.00 U	890.00 UJ	990.00 U	950.00 U	900.00 UJ	1,000.00 U
DIMETHYLPHTHALALTE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
ACENAPHTHYLENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
2,6-DINITROTOLUENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
3-NITROANILINE	ug/kg	1,000.00 U	890.00 U	990.00 U	950.00 U	900.00 U	1,000.00 U
ACENAPHTHENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U

SAMPLE NAME		DP027	DP028	DP029	DP030	DP031	DP032
SAMPLE DATE		12/01/94	12/01/94	12/02/94	12/02/94	12/01/94	12/02/94
TEXT 001							
SAMPLE DEPTH		6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	10.00 - 12.00'	8.00 - 10.00'
Semivolatiles - Page 1							
PHENOL	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
2-CHLOROPHENOL	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
1,3-DICHLOROBENZENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
1,4-DICHLOROBENZENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
1,2-DICHLOROBENZENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
2-METHYLPHENOL	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
4-METHYLPHENOL	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
HEXACHLOROETHANE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
NITROBENZENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
ISOPHORONE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
2-NITROPHENOL	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
2,4-DIMETHYLPHENOL	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
2,4-DICHLOROPHENOL	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
NAPHTHALENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
4-CHLOROANILINE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
HEXACHLOROBUTADIENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
2-METHYLNAPHTHALENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
2,4,6-TRICHLOROPHENOL	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	950.00 U	990.00 U	960.00 U	990.00 U	1,000.00 U	980.00 U
2-CHLORONAPHTHALENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
2-NITROANILINE	ug/kg	950.00 U	990.00 U	960.00 U	990.00 U	1,000.00 U	980.00 U
DIMETHYLPHTHALALTE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
ACENAPHTHYLENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
2,6-DINITROTOLUENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
3-NITROANILINE	ug/kg	950.00 U	990.00 U	960.00 U	990.00 U	1,000.00 U	980.00 U
ACENAPHTHENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U

SAMPLE NAME		SB01	SB03	SB18
SAMPLE DATE		06/20/95	06/21/95	06/21/95
TEXT 001				
SAMPLE DEPTH		8.00 - 10.00'	12.00 - 14.00'	12.00 - 14.00'
Semivolatiles - Page 1				
PHENOL	ug/kg	340.00 U	380.00 U	380.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	340.00 U	380.00 U	380.00 U
2-CHLOROPHENOL	ug/kg	340.00 U	380.00 U	380.00 U
1,3-DICHLOROBENZENE	ug/kg	340.00 U	380.00 U	380.00 U
1,4-DICHLOROBENZENE	ug/kg	340.00 U	380.00 U	380.00 U
1,2-DICHLOROBENZENE	ug/kg	340.00 U	380.00 U	380.00 U
2-METHYLPHENOL	ug/kg	340.00 U	380.00 U	380.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	340.00 UJ	380.00 U	380.00 U
4-METHYLPHENOL	ug/kg	340.00 U	380.00 U	380.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	340.00 U	380.00 U	380.00 U
HEXACHLOROETHANE	ug/kg	340.00 U	380.00 U	380.00 U
NITROBENZENE	ug/kg	340.00 U	380.00 U	380.00 U
ISOPHORONE	ug/kg	340.00 U	380.00 U	380.00 U
2-NITROPHENOL	ug/kg	340.00 U	380.00 U	380.00 U
2,4-DIMETHYLPHENOL	ug/kg	340.00 U	380.00 U	380.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	340.00 U	380.00 U	380.00 U
2,4-DICHLOROPHENOL	ug/kg	340.00 U	380.00 U	380.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	340.00 U	380.00 U	380.00 U
NAPHTHALENE	ug/kg	340.00 U	380.00 U	380.00 U
4-CHLOROANILINE	ug/kg	340.00 U	380.00 U	380.00 U
HEXACHLOROBUTADIENE	ug/kg	340.00 U	380.00 U	380.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	340.00 U	380.00 U	380.00 U
2-METHYLNAPHTHALENE	ug/kg	340.00 U	380.00 U	380.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	340.00 UJ	380.00 U	380.00 U
2,4,6-TRICHLOROPHENOL	ug/kg	340.00 U	380.00 U	380.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	850.00 U	950.00 U	960.00 U
2-CHLORONAPHTHALENE	ug/kg	340.00 U	380.00 U	380.00 U
2-NITROANILINE	ug/kg	850.00 UJ	950.00 U	960.00 U
DIMETHYLPHTHALALTE	ug/kg	340.00 U	380.00 U	380.00 U
ACENAPHTHYLENE	ug/kg	340.00 U	380.00 U	380.00 U
2,6-DINITROTOLUENE	ug/kg	340.00 U	380.00 U	380.00 U
3-NITROANILINE	ug/kg	850.00 UJ	950.00 U	960.00 U
ACENAPHTHENE	ug/kg	340.00 U	380.00 U	380.00 U

SAMPLE NAME		DP021	DP022	DP023	DP024	DP025	DP026
SAMPLE DATE		11/29/94	11/30/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		10.00 - 12.00'	8.00 - 10.00'	10.00 - 12.00'	6.00 - 8.00'	6.00 - 8.00'	9.00 - 11.00'
Semivolatiles - Page 2							
2,4-DINITROPHENOL	ug/kg	1,000.00 UJ	890.00 U	990.00 U	950.00 U	900.00 U	1,000.00 U
4-NITROPHENOL	ug/kg	1,000.00 U	890.00 UJ	990.00 U	950.00 U	900.00 UJ	1,000.00 U
DIBENZOFURAN	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
2,4-DINITROTOLUENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
DIETHYLPHTHALATE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
FLUORENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
4-NITROANILINE	ug/kg	1,000.00 U	890.00 U	990.00 U	950.00 U	900.00 U	1,000.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	1,000.00 UJ	890.00 U	990.00 U	950.00 U	900.00 U	1,000.00 U
N-NITROSODIPHENYLAMINE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
HEXACHLOROBENZENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
PENTACHLOROPHENOL	ug/kg	1,000.00 U	890.00 U	990.00 U	950.00 U	900.00 U	1,000.00 U
PHENANTHRENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
ANTHRACENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
CARBAZOLE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
DI-N-BUTYLPHTHALATE	ug/kg	430.00 U	370.00 U	21.00 J	390.00 U	370.00 U	42.00 J
FLUORANTHENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
PYRENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
BUTYLBENZYLPHTHALATE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
3,3'-DICHLOROBENZIDINE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
BENZO(A)ANTHRACENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
CHRYSENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
DI-N-OCTYLPHTHALATE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 UJ	370.00 U	420.00 U
BENZO(B)FLUORANTHENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
BENZO(K)FLUORANTHENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
BENZO(A)PYRENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
INDENO(1,2,3-CD)PYRENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U
DIBENZO(A,H)ANTHRACENE	ug/kg	430.00 U	370.00 U	26.00 J	390.00 U	370.00 U	420.00 U
BENZO(G,H,I)PERYLENE	ug/kg	430.00 U	370.00 U	410.00 U	390.00 U	370.00 U	420.00 U

SAMPLE NAME		DP027	DP028	DP029	DP030	DP031	DP032
SAMPLE DATE		12/01/94	12/01/94	12/02/94	12/02/94	12/01/94	12/02/94
TEXT 001							
SAMPLE DEPTH		6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	10.00 - 12.00'	8.00 - 10.00'
Semivolatiles - Page 2							
2,4-DINITROPHENOL	ug/kg	950.00 U	990.00 U	960.00 UJ	990.00 UJ	1,000.00 U	980.00 UJ
4-NITROPHENOL	ug/kg	950.00 U	990.00 U	960.00 U	990.00 U	1,000.00 U	980.00 U
DIBENZOFURAN	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
2,4-DINITROTOLUENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
DIETHYLPHTHALATE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
FLUORENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
4-NITROANILINE	ug/kg	950.00 U	990.00 U	960.00 U	990.00 U	1,000.00 U	980.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	950.00 U	990.00 U	960.00 UJ	990.00 UJ	1,000.00 U	980.00 UJ
N-NITROSODIPHENYLAMINE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
HEXACHLOROBENZENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
PENTACHLOROPHENOL	ug/kg	950.00 U	990.00 U	960.00 UJ	990.00 UJ	1,000.00 U	980.00 UJ
PHENANTHRENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
ANTHRACENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
CARBAZOLE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
DI-N-BUTYLPHTHALATE	ug/kg	390.00 U	410.00 U	23.00 J	410.00 U	410.00 U	400.00 U
FLUORANTHENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
PYRENE	ug/kg	390.00 U	410.00 U	400.00 UJ	410.00 UJ	410.00 U	400.00 UJ
BUTYLBENZYLPHTHALATE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
3,3'-DICHLOROBENZIDINE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
BENZO(A)ANTHRACENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
CHRYSENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
DI-N-OCTYLPHTHALATE	ug/kg	390.00 UJ	410.00 UJ	400.00 U	410.00 U	410.00 UJ	400.00 U
BENZO(B)FLUORANTHENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
BENZO(K)FLUORANTHENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
BENZO(A)PYRENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
INDENO(1,2,3-CD)PYRENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
DIBENZO(A,H)ANTHRACENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U
BENZO(G,H,I)PERYLENE	ug/kg	390.00 U	410.00 U	400.00 U	410.00 U	410.00 U	400.00 U

SAMPLE NAME		SB01	SB03	SB18
SAMPLE DATE		06/20/95	06/21/95	06/21/95
TEXT 001				
SAMPLE DEPTH		8.00 - 10.00'	12.00 - 14.00'	12.00 - 14.00'
Semivolatiles - Page 2				
2,4-DINITROPHENOL	ug/kg	850.00 U	950.00 U	960.00 U
4-NITROPHENOL	ug/kg	850.00 U	950.00 U	960.00 U
DIBENZOFURAN	ug/kg	340.00 U	380.00 U	380.00 U
2,4-DINITROTOLUENE	ug/kg	340.00 U	380.00 U	380.00 U
DIETHYLPHTHALATE	ug/kg	340.00 U	380.00 U	380.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	340.00 U	380.00 U	380.00 U
FLUORENE	ug/kg	340.00 U	380.00 U	380.00 U
4-NITROANILINE	ug/kg	850.00 UJ	950.00 U	960.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	850.00 U	950.00 U	960.00 U
N-NITROSODIPHENYLAMINE	ug/kg	340.00 U	380.00 U	380.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	340.00 U	380.00 U	380.00 U
HEXACHLOROBENZENE	ug/kg	340.00 U	380.00 U	380.00 U
PENTACHLOROPHENOL	ug/kg	850.00 U	950.00 U	960.00 U
PHENANTHRENE	ug/kg	340.00 U	380.00 U	380.00 U
ANTHRACENE	ug/kg	340.00 U	380.00 U	380.00 U
CARBAZOLE	ug/kg	340.00 U	380.00 U	380.00 U
DI-N-BUTYLPHTHALATE	ug/kg	340.00 U	380.00 U	380.00 U
FLUORANTHENE	ug/kg	340.00 U	380.00 U	380.00 U
PYRENE	ug/kg	340.00 U	380.00 UJ	380.00 U
BUTYLBENZYLPHTHALATE	ug/kg	340.00 UJ	230.00 J	380.00 U
3,3'-DICHLOROBENZIDINE	ug/kg	340.00 UJ	380.00 UJ	380.00 U
BENZO(A)ANTHRACENE	ug/kg	340.00 U	380.00 U	380.00 U
CHRYSENE	ug/kg	340.00 U	380.00 U	380.00 U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	340.00 UJ	430.00	380.00 U
DI-N-OCTYLPHTHALATE	ug/kg	340.00 U	380.00 U	380.00 U
BENZO(B)FLUORANTHENE	ug/kg	340.00 U	380.00 U	380.00 U
BENZO(K)FLUORANTHENE	ug/kg	340.00 U	380.00 U	380.00 U
BENZO(A)PYRENE	ug/kg	340.00 U	380.00 U	380.00 U
INDENO(1,2,3-CD)PYRENE	ug/kg	340.00 U	380.00 U	380.00 U
DIBENZO(A,H)ANTHRACENE	ug/kg	340.00 U	380.00 U	380.00 U
BENZO(G,H,I)PERYLENE	ug/kg	340.00 U	380.00 U	380.00 U

SAMPLE NAME		DP021	DP022	DP023	DP024	DP025	DP026
SAMPLE DATE		11/29/94	11/30/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		10.00 - 12.00'	8.00 - 10.00'	10.00 - 12.00'	6.00 - 8.00'	6.00 - 8.00'	9.00 - 11.00'
Pesticides/PCBs							
ALPHA-BHC	ug/kg	2.20 U	1.90 U	2.10 U	2.00 UJ	1.90 U	2.20 U
BETA-BHC	ug/kg	2.20 U	1.90 UJ	2.10 UJ	2.00 UJ	1.90 UJ	2.20 UJ
DELTA-BHC	ug/kg	2.20 U	1.90 U	2.10 U	2.00 UJ	1.90 U	2.20 U
gamma-BHC (Lindane)	ug/kg	2.20 U	1.90 U	2.10 U	2.00 UJ	1.90 U	2.20 U
HEPTACHLOR	ug/kg	2.20 U	1.90 U	2.10 U	2.00 UJ	1.90 U	2.20 U
ALDRIN	ug/kg	2.20 U	1.90 U	2.10 U	2.00 UJ	1.90 U	2.20 U
HEPTACHLOR EPOXIDE	ug/kg	2.20 U	1.90 U	2.10 U	2.00 UJ	1.90 U	2.20 U
ENDOSULFAN I	ug/kg	2.20 U	1.90 U	2.10 U	2.00 UJ	1.90 U	2.20 U
DIELDRIN	ug/kg	4.30 U	3.70 U	4.10 U	3.90 UJ	3.70 U	4.20 U
4,4'-DDE	ug/kg	4.30 U	3.70 U	4.10 U	3.90 UJ	3.70 U	4.20 U
ENDRIN	ug/kg	4.30 U	3.70 U	4.10 U	3.90 UJ	3.70 U	4.20 U
ENDOSULFAN II	ug/kg	4.30 U	3.70 U	4.10 U	3.90 UJ	3.70 U	4.20 U
4,4'-DDD	ug/kg	4.30 U	3.70 U	4.10 U	3.90 UJ	3.70 U	4.20 U
ENDOSULFAN SULFATE	ug/kg	4.30 U	3.70 U	4.10 U	3.90 UJ	3.70 U	4.20 U
4,4'-DDT	ug/kg	4.30 UJ	3.70 U	4.10 U	3.90 UJ	3.70 U	4.20 U
METHOXYCHLOR	ug/kg	22.00 U	19.00 U	21.00 U	20.00 UJ	19.00 U	22.00 U
ENDRIN KETONE	ug/kg	4.30 U	3.70 U	4.10 U	3.90 UJ	3.70 U	4.20 U
ENDRIN ALDEHYDE	ug/kg	4.30 U	3.70 U	4.10 U	3.90 UJ	3.70 U	4.20 U
ALPHA-CHLORDANE	ug/kg	2.20 U	1.90 U	2.10 U	2.00 UJ	1.90 U	2.20 U
GAMMA-CHLORDANE	ug/kg	2.20 U	1.90 U	2.10 U	2.00 UJ	1.90 U	2.20 U
TOXAPHENE	ug/kg	220.00 U	190.00 U	210.00 U	200.00 UJ	190.00 U	220.00 U
AROCLOR 1016	ug/kg	43.00 U	37.00 U	41.00 U	39.00 UJ	37.00 U	42.00 U
AROCLOR 1221	ug/kg	88.00 U	74.00 U	83.00 U	80.00 UJ	75.00 U	85.00 U
AROCLOR 1232	ug/kg	43.00 U	37.00 U	41.00 U	39.00 UJ	37.00 U	42.00 U
AROCLOR 1242	ug/kg	43.00 U	37.00 U	41.00 U	39.00 UJ	37.00 U	42.00 U
AROCLOR 1248	ug/kg	43.00 U	37.00 U	41.00 U	39.00 UJ	37.00 U	42.00 U
AROCLOR 1254	ug/kg	43.00 U	37.00 U	41.00 U	39.00 UJ	37.00 U	42.00 U
AROCLOR 1260	ug/kg	43.00 U	37.00 U	41.00 U	39.00 UJ	37.00 U	42.00 U

SAMPLE NAME		DP027	DP028	DP029	DP030	DP031	DP032
SAMPLE DATE		12/01/94	12/01/94	12/02/94	12/02/94	12/01/94	12/02/94
TEXT 001							
SAMPLE DEPTH		6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	10.00 - 12.00'	8.00 - 10.00'
Pesticides/PCBs							
ALPHA-BHC	ug/kg	2.00 U	2.10 UJ	2.00 U	2.10 U	R	2.10 U
BETA-BHC	ug/kg	2.00 UJ	2.10 UJ	2.00 UJ	2.10 UJ	R	2.10 UJ
DELTA-BHC	ug/kg	2.00 U	2.10 UJ	2.00 U	2.10 U	R	2.10 U
gamma-BHC (Lindane)	ug/kg	2.00 U	2.10 UJ	2.00 U	2.10 U	R	2.10 U
HEPTACHLOR	ug/kg	2.00 U	2.10 UJ	2.00 U	2.10 U	R	2.10 U
ALDRIN	ug/kg	2.00 U	2.10 UJ	2.00 U	2.10 U	R	2.10 U
HEPTACHLOR EPOXIDE	ug/kg	2.00 U	2.10 UJ	2.00 U	2.10 U	R	2.10 U
ENDOSULFAN I	ug/kg	2.00 U	2.10 UJ	2.00 U	2.10 U	R	2.10 U
DIELDRIN	ug/kg	3.90 U	4.10 UJ	4.00 U	4.10 U	R	4.00 U
4,4'-DDE	ug/kg	3.90 U	4.10 UJ	4.00 U	4.10 U	R	4.00 U
ENDRIN	ug/kg	3.90 U	4.10 UJ	4.00 U	4.10 U	R	4.00 U
ENDOSULFAN II	ug/kg	3.90 U	4.10 UJ	4.00 U	4.10 U	R	4.00 U
4,4'-DDD	ug/kg	3.90 U	4.10 UJ	4.00 U	4.10 U	R	4.00 U
ENDOSULFAN SULFATE	ug/kg	3.90 U	4.10 UJ	4.00 U	4.10 U	R	4.00 U
4,4'-DDT	ug/kg	3.90 U	4.10 UJ	4.00 U	4.10 U	R	4.00 U
METHOXYCHLOR	ug/kg	20.00 U	21.00 UJ	20.00 U	21.00 U	R	21.00 U
ENDRIN KETONE	ug/kg	3.90 U	4.10 UJ	4.00 U	4.10 U	R	4.00 U
ENDRIN ALDEHYDE	ug/kg	3.90 U	4.10 UJ	4.00 U	4.10 U	R	4.00 U
ALPHA-CHLORDANE	ug/kg	2.00 U	2.10 UJ	2.00 U	2.10 U	R	2.10 U
GAMMA-CHLORDANE	ug/kg	2.00 U	2.10 UJ	2.00 U	2.10 U	R	2.10 U
TOXAPHENE	ug/kg	200.00 U	210.00 UJ	200.00 U	210.00 U	R	210.00 U
AROCLOR 1016	ug/kg	39.00 U	41.00 UJ	40.00 U	41.00 U	R	40.00 U
AROCLOR 1221	ug/kg	80.00 U	83.00 UJ	81.00 U	83.00 U	R	82.00 U
AROCLOR 1232	ug/kg	39.00 U	41.00 UJ	40.00 U	41.00 U	R	40.00 U
AROCLOR 1242	ug/kg	39.00 U	41.00 UJ	40.00 U	41.00 U	R	40.00 U
AROCLOR 1248	ug/kg	39.00 U	41.00 UJ	40.00 U	41.00 U	R	40.00 U
AROCLOR 1254	ug/kg	39.00 U	41.00 UJ	40.00 U	41.00 U	R	40.00 U
AROCLOR 1260	ug/kg	39.00 U	41.00 UJ	40.00 U	41.00 U	R	40.00 U

SAMPLE NAME		SB01	SB03	SB18
SAMPLE DATE		06/20/95	06/21/95	06/21/95
TEXT 001				
SAMPLE DEPTH		8.00 - 10.00'	12.00 - 14.00'	12.00 - 14.00'
Pesticides/PCBs				
ALPHA-BHC	ug/kg	1.80 U	1.90 U	2.00 U
BETA-BHC	ug/kg	1.80 U	1.90 U	2.00 U
DELTA-BHC	ug/kg	1.80 U	1.90 U	2.00 U
gamma-BHC (Lindane)	ug/kg	1.80 U	1.90 U	2.00 U
HEPTACHLOR	ug/kg	1.80 U	1.90 UJ	2.00 UJ
ALDRIN	ug/kg	1.80 U	1.90 U	2.00 U
HEPTACHLOR EPOXIDE	ug/kg	1.80 U	1.90 U	2.00 U
ENDOSULFAN I	ug/kg	1.80 U	1.90 U	2.00 U
DIELDRIN	ug/kg	3.40 U	3.80 U	3.80 U
4,4'-DDE	ug/kg	3.40 U	3.80 U	3.80 U
ENDRIN	ug/kg	3.40 U	3.80 U	3.80 U
ENDOSULFAN II	ug/kg	3.40 U	3.80 U	3.80 U
4,4'-DDD	ug/kg	3.40 U	R	3.80 U
ENDOSULFAN SULFATE	ug/kg	0.72 J	R	3.80 U
4,4'-DDT	ug/kg	3.40 U	3.80 U	3.80 U
METHOXYCHLOR	ug/kg	18.00 U	19.00 U	20.00 U
ENDRIN KETONE	ug/kg	3.40 U	3.80 U	3.80 U
ENDRIN ALDEHYDE	ug/kg	3.40 U	3.80 U	3.80 U
ALPHA-CHLORDANE	ug/kg	1.80 U	1.90 U	2.00 U
GAMMA-CHLORDANE	ug/kg	1.80 U	0.14 J	2.00 U
TOXAPHENE	ug/kg	180.00 U	190.00 U	200.00 U
AROCLOR 1016	ug/kg	34.00 U	38.00 U	38.00 U
AROCLOR 1221	ug/kg	69.00 U	77.00 U	78.00 U
AROCLOR 1232	ug/kg	34.00 U	38.00 U	38.00 U
AROCLOR 1242	ug/kg	34.00 U	38.00 U	38.00 U
AROCLOR 1248	ug/kg	34.00 U	38.00 U	38.00 U
AROCLOR 1254	ug/kg	34.00 U	38.00 U	38.00 U
AROCLOR 1260	ug/kg	34.00 U	38.00 U	38.00 U

SAMPLE NAME		DP021	DP022	DP023	DP024	DP025	DP026
SAMPLE DATE		11/29/94	11/30/94	11/30/94	12/01/94	11/30/94	11/30/94
TEXT 001							
SAMPLE DEPTH		10.00 - 12.00'	8.00 - 10.00'	10.00 - 12.00'	6.00 - 8.00'	6.00 - 8.00'	9.00 - 11.00'
Inorganic Analytes							
ALUMINUM	mg/kg	22,000.00	4,900.00	20,100.00	8,190.00 EJ	4,990.00 EJ	22,500.00 EJ
ANTIMONY	mg/kg	1.20 U	1.10 U	1.30 U	1.20 U	1.30 U	1.30 U
ARSENIC	mg/kg	5.30 J	2.00 BJ	5.90 J	3.00	2.20 B	5.00
BARIUM	mg/kg	131.00	35.70 B	325.00	63.70	29.10 B	156.00
BERYLLIUM	mg/kg	0.25 B	0.23 U	0.29 B	0.24 U	0.26 U	0.26 U
CADMIUM	mg/kg	0.49 U	0.45 U	0.51 U	0.47 U	0.52 U	0.53 U
CALCIUM	mg/kg	46,300.00	80,000.00	61,600.00	70,900.00	110,000.00	37,700.00
CHROMIUM	mg/kg	31.90	7.30	28.80	11.20	7.30 J	31.60
COBALT	mg/kg	14.40	4.00 B	12.70 B	5.60 B	3.70 B	13.50 J
COPPER	mg/kg	28.20	16.10	32.30	20.50 J	19.70 J	26.10 J
IRON	mg/kg	31,300.00	9,890.00	31,800.00	14,000.00	10,800.00	39,200.00
LEAD	mg/kg	13.00	18.40	14.50	12.20	16.70	12.20
MAGNESIUM	mg/kg	13,300.00	26,700.00	16,500.00	26,400.00	49,900.00	12,400.00
MANGANESE	mg/kg	577.00	580.00	572.00	530.00	745.00	613.00
MERCURY	mg/kg	0.12 U	0.11 U	0.13 U	0.12 U	0.13 U	0.13 U
NICKEL	mg/kg	31.80	8.30 B	29.40	14.00	8.60 B	33.60
POTASSIUM	mg/kg	6,560.00 EJ	1,580.00 EJ	5,650.00 EJ	2,710.00 J	1,610.00 J	5,900.00 J
SELENIUM	mg/kg	1.20 U	1.10 U	1.30 U	1.20 UJ	1.30 UJ	1.30 UJ
SILVER	mg/kg	0.73 UNJ	0.68 UNJ	0.77 UNJ	0.71 U	0.78 U	0.79 U
SODIUM	mg/kg	398.00 BE	260.00 BE	366.00 BE	316.00 BE	334.00 BE	356.00 BE
THALLIUM	mg/kg	1.70 U	1.60 U	1.80 U	1.60 U	1.80 U	1.80 U
VANADIUM	mg/kg	39.90	11.20 B	37.70	16.30	11.20 B	39.90
ZINC	mg/kg	83.40	237.00	96.30	237.00	269.00	83.50
CYANIDE	mg/kg	1.20 U	1.10 U	1.30 U	1.20 U	1.30 U	1.30 U

SAMPLE NAME		DP027	DP028	DP029	DP030	DP031	DP032
SAMPLE DATE		12/01/94	12/01/94	12/02/94	12/02/94	12/01/94	12/02/94
TEXT 001							
SAMPLE DEPTH		6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	6.00 - 8.00'	10.00 - 12.00'	8.00 - 10.00'
Inorganic Analytes							
ALUMINUM	mg/kg	18,600.00 EJ	5,550.00 EJ	11,500.00 EJ	23,000.00	8,450.00 EJ	24,800.00 EJ
ANTIMONY	mg/kg	1.30 U	1.10 U	1.20 U	1.30 U	1.20 U	1.30 U
ARSENIC	mg/kg	5.90	2.90	2.40	6.10 J	1.70 U	5.40
BARIUM	mg/kg	107.00	33.30 B	80.70	121.00	90.50	135.00
BERYLLIUM	mg/kg	0.26 U	0.22 U	0.24 U	0.26 U	0.24 U	0.29 B
CADMIUM	mg/kg	0.52 U	0.45 U	0.47 U	0.52 U	0.48 U	0.52 U
CALCIUM	mg/kg	55,600.00	86,900.00	56,200.00	48,800.00	92,600.00	36,200.00
CHROMIUM	mg/kg	26.00	7.40	16.90	33.90	11.90	34.70
COBALT	mg/kg	13.90 J	4.70 B	10.70 B	14.20	6.10 B	16.30 J
COPPER	mg/kg	23.30 J	17.30 J	25.00 J	33.30	18.20 J	34.40 J
IRON	mg/kg	31,900.00	10,600.00	22,800.00	37,600.00	15,300.00	40,200.00
LEAD	mg/kg	11.20	22.20	11.30	13.10	17.00	15.30
MAGNESIUM	mg/kg	12,300.00	35,700.00	15,500.00	13,000.00	37,700.00	15,000.00
MANGANESE	mg/kg	699.00	626.00	661.00	591.00	700.00	537.00
MERCURY	mg/kg	0.13 U	0.11 U	0.12 U	0.13 U	0.12 U	0.13 U
NICKEL	mg/kg	29.40	8.90 B	20.40	36.90	13.20	37.30
POTASSIUM	mg/kg	5,090.00 J	1,840.00 J	3,030.00 J	5,090.00 J	2,930.00 J	6,560.00 J
SELENIUM	mg/kg	1.30 UJ	1.10 U	1.20 U	1.30 U	1.20 U	1.30 U
SILVER	mg/kg	0.78 U	0.67 U	0.71 U	0.78 U	0.73 U	0.78 U
SODIUM	mg/kg	328.00 BE	296.00 BE	322.00 BE	372.00 B	362.00 BE	450.00 BE
THALLIUM	mg/kg	1.80 U	1.60 U	1.70 U	1.80 U	1.70 U	1.80 U
VANADIUM	mg/kg	34.10	11.80	25.20	40.40	17.50	43.50
ZINC	mg/kg	69.70	230.00	82.40	84.90	215.00	82.60
CYANIDE	mg/kg	1.30 U	1.10 U	1.20 U	1.30 U	1.20 U	1.30 U

SAMPLE NAME		SB01		SB03		SB18	
SAMPLE DATE		06/20/95		06/21/95		06/21/95	
TEXT 001							
SAMPLE DEPTH		8.00 - 10.00'		12.00 - 14.00'		12.00 - 14.00'	
Inorganic Analytes							
ALUMINUM	mg/kg	4,770.00	*	8,680.00		5,600.00	
ANTIMONY	mg/kg	4.20	UNJ	3.20	UNJ	2.90	UNJ
ARSENIC	mg/kg	2.50		2.80		3.30	
BARIUM	mg/kg	43.30	B	150.00		57.80	
BERYLLIUM	mg/kg	0.26	B	0.92	B	0.83	B
CADMIUM	mg/kg	0.28	B	0.48	B	0.35	B
CALCIUM	mg/kg	68,100.00		65,700.00		49,700.00	
CHROMIUM	mg/kg	6.20		12.60		9.00	
COBALT	mg/kg	4.90	B	7.00	B	6.30	B
COPPER	mg/kg	16.80		17.20	J	18.80	J
IRON	mg/kg	9,880.00	*	14,100.00		10,900.00	
LEAD	mg/kg	12.40		66.00		6.20	
MAGNESIUM	mg/kg	25,100.00	*	28,000.00		12,400.00	
MANGANESE	mg/kg	611.00		548.00		477.00	
MERCURY	mg/kg	0.05	U	0.07	B	0.06	U
NICKEL	mg/kg	9.50		14.10		11.50	
POTASSIUM	mg/kg	770.00	B	1,520.00		898.00	B
SELENIUM	mg/kg	0.56	U	0.59	U	0.54	U
SILVER	mg/kg	0.48	B	0.64	U	0.58	U
SODIUM	mg/kg	107.00	B	386.00	B	148.00	B
THALLIUM	mg/kg	1.20	U	1.20	U	1.10	U
VANADIUM	mg/kg	10.00	B	16.60	J	11.20	J
ZINC	mg/kg	214.00		135.00	NJ	149.00	NJ
CYANIDE	mg/kg	0.52	U	0.59	U	0.57	U

AOC2 - NORTHERN ASPECT
TEST PIT DATA

SAMPLE NAME		TP01	TP02	TP03	TP04	TP05	TP06
SAMPLE DATE		06/12/95	06/12/95	06/13/95	06/13/95	06/13/95	06/14/95
TEXT 001							
SAMPLE DEPTH		0.00 - 4.00'	0.00 - 5.00'	5.50 - 6.00'	4.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'
Conventinal Parameters							
pH	units	7.20	7.90	7.60 J	7.80 J	8.00 J	8.30
SULFIDE	mg/kg						
TOTAL ORGANIC CARBON	mg/kg	19,500.00	17,400.00	14,600.00	10,640.00	18,200.00	17,900.00
TOTAL SOLIDS	%	80.70	81.90	78.70	83.30	78.70	82.20
TOTAL SOILDS (EXTENDED)	%						
ALKALINITY	mg/l						
AMMONIA	mg/l						
BOD	mg/l						
COD	mg/l						
TOTAL DISSOLVD SOLIDS	mg/l						
HARDNESS	mg/l						
NITRATE/NITRITE	mg/l						
TOTAL KJELDAHL NITROGEN	mg/l						

SAMPLE NAME		TP11	TP07	TP08	TP12	TP09	TP10
SAMPLE DATE		06/14/95	06/14/95	06/14/95	06/14/95	06/15/95	06/15/95
TEXT 001		Dup of TP06			Dup of TP08		
SAMPLE DEPTH		0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 2.00'	0.00 - 4.00'
Conventinal Parameters							
pH	units	8.30	8.30	8.30	8.30	7.40	7.40
SULFIDE	mg/kg						
TOTAL ORGANIC CARBON	mg/kg	10,700.00 J	2,990.00	26,900.00	5,850.00 J	34,900.00	5,720.00
TOTAL SOLIDS	%	83.60	82.10	85.20	86.80	82.30	84.50
TOTAL SOILDS (EXTENDED)	%						
ALKALINITY	mg/l						
AMMONIA	mg/l						
BOD	mg/l						
COD	mg/l						
TOTAL DISSOLVD SOLIDS	mg/l						
HARDNESS	mg/l						
NITRATE/NITRITE	mg/l						
TOTAL KJELDAHL NITROGEN	mg/l						

SAMPLE NAME		TPEXP
SAMPLE DATE		06/14/95
TEXT 001		
SAMPLE DEPTH		0.00 - 6.00'
Conventinal Parameters		
pH	units	7.60
SULFIDE	mg/kg	
TOTAL ORGANIC CARBON	mg/kg	36,000.00
TOTAL SOLIDS	%	85.90
TOTAL SOILDS (EXTENDED)	%	
ALKALINITY	mg/l	
AMMONIA	mg/l	
BOD	mg/l	
COD	mg/l	
TOTAL DISSOLVD SOLIDS	mg/l	
HARDNESS	mg/l	
NITRATE/NITRITE	mg/l	
TOTAL KJELDAHL NITROGEN	mg/l	

SAMPLE NAME		TP01	TP02	TP03	TP04	TP05	TP06
SAMPLE DATE		06/12/95	06/12/95	06/13/95	06/13/95	06/13/95	06/14/95
TEXT 001							
SAMPLE DEPTH		0.00 - 4.00'	0.00 - 5.00'	5.50 - 6.00'	4.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'
Grain Analysis							
GRAVEL	%	9.20	0.30	5.00	0.70	0.00	2.00 J
SAND (A) COARSE	%	6.60	1.50	3.00	0.70	0.40	1.30
SAND (B) MEDIUM	%	3.00	0.90	1.30	0.40	0.30	0.50
SAND (C) FINE	%	7.10	2.10	4.90	1.80	0.80	1.60 J
SAND (D) FINE	%	2.20	0.90	4.10	0.70	0.30	0.50 J
SILTS/CLAYS (<0.075 MM)	%						
SILT (A)	%	15.20	17.40	13.30	0.90	0.00	17.70 J
SILT (B)	%	15.30	19.50	21.60	15.20	4.00	18.10
CLAY	%	18.00	20.30	15.70	21.80	26.50	23.50
COLLOIDS	%	23.40	37.20	31.20	57.90	69.60	34.80 J
TOTALS FOR GROUP		100.00	100.10	100.10	100.10	101.90	100.00

SAMPLE NAME		TP11	TP07	TP08	TP12	TP09	TP10
SAMPLE DATE		06/14/95	06/14/95	06/14/95	06/14/95	06/15/95	06/15/95
TEXT 001		Dup of TP06			Dup of TP08		
SAMPLE DEPTH		0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 2.00'	0.00 - 4.00'
Grain Analysis							
GRAVEL	%	2.20 J	2.40 J	8.90 J	4.90 J	1.50 J	0.20 J
SAND (A) COARSE	%	1.20 J	1.20	9.30	8.90 J	2.90	0.90
SAND (B) MEDIUM	%	0.40 J	0.60	2.10	1.90 J	1.10	1.00
SAND (C) FINE	%	1.40 J	2.50 J	4.60 J	4.40 J	3.50 J	2.80 J
SAND (D) FINE	%	0.50 J	0.90 J	2.10 J	2.00 J	1.20 J	1.10 J
SILTS/CLAYS (<0.075 MM)	%						
SILT (A)	%	17.40 J	19.20 J	19.50 J	18.80 J	11.30 J	0.00 J
SILT (B)	%	17.40	21.70	17.80	20.50	19.20	14.70
CLAY	%	24.30	22.80	16.90	15.70	20.30	20.00
COLLOIDS	%	35.10 J	28.60 J	18.70 J	22.90 J	38.90 J	65.20 J
TOTALS FOR GROUP		99.90	99.90	99.90	100.00	99.90	105.90

SAMPLE NAME		TPEXP
SAMPLE DATE		06/14/95
TEXT 001		
SAMPLE DEPTH		0.00 - 6.00'
Grain Analysis		
GRAVEL	%	4.10 J
SAND (A) COARSE	%	9.60
SAND (B) MEDIUM	%	5.60
SAND (C) FINE	%	12.70 J
SAND (D) FINE	%	2.40 J
SILTS/CLAYS (<0.075 MM)	%	
SILT (A)	%	0.00 J
SILT (B)	%	15.60
CLAY	%	13.10
COLLOIDS	%	43.20 J
TOTALS FOR GROUP		106.30

SAMPLE NAME		TP01	TP02	TP03	TP04	TP05	TP06
SAMPLE DATE		06/12/95	06/12/95	06/13/95	06/13/95	06/13/95	06/14/95
TEXT 001							
SAMPLE DEPTH		0.00 - 4.00'	0.00 - 5.00'	5.50 - 6.00'	4.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'
Targeted SemiVolatiles							
PHENYL ISOTHIOCYANATE	ug/kg	2,500.00 U	240.00 U	250.00 U	240.00 U	250.00 U	240.00 U
DIPHENYLAMINE	ug/kg	2,500.00 U	240.00 U	250.00 U	240.00 U	250.00 U	240.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	2,500.00 U	240.00 U	250.00 U	240.00 U	250.00 U	240.00 U
2-ANILINOBENZOTHIAZOLE	ug/kg	250.00 U	240.00 U	250.00 U	240.00 U	250.00 U	240.00 U
PERYLENE	ug/kg	130.00 J	240.00 UJ	410.00 J	240.00 UJ	250.00 UJ	240.00 UJ
ANILINE	ug/kg	250.00 U	240.00 U	250.00 U	240.00 U	250.00 U	240.00 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	250.00 UJ	240.00 UJ	250.00 UJ	240.00 UJ	250.00 UJ	240.00 UJ
PHENOTHIAZINE	ug/kg	2,500.00 U	240.00 U	250.00 U	240.00 U	250.00 U	240.00 U
BENZOTHIAZOLE	ug/kg	2,500.00 U	240.00 U	250.00 U	240.00 U	250.00 U	240.00 U

SAMPLE NAME		TP11	TP07	TP08	TP12	TP09	TP10
SAMPLE DATE		06/14/95	06/14/95	06/14/95	06/14/95	06/15/95	06/15/95
TEXT 001		Dup of TP06			Dup of TP08		
SAMPLE DEPTH		0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 2.00'	0.00 - 4.00'
Targeted SemiVolatiles							
PHENYL ISOTHIOCYANATE	ug/kg	240.00 U	240.00 U	230.00 U	230.00 U	240.00 U	240.00 U
DIPHENYLAMINE	ug/kg	240.00 U	240.00 U	230.00 U	230.00 U	320.00	240.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	240.00 U	240.00 U	230.00 U	230.00 U	24,000.00 JD	240.00 U
2-ANILINOBENZOTHIAZOLE	ug/kg	240.00 U	240.00 U	230.00 U	40.00 J	27,000.00 D	240.00 U
PERYLENE	ug/kg	240.00 UJ	240.00 UJ	230.00 UJ	40.00 J	240.00 U	240.00 U
ANILINE	ug/kg	240.00 UJ	240.00 U	230.00 UJ	230.00 U	280.00	240.00 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	240.00 UJ	240.00 UJ	230.00 UJ	230.00 UJ	130.00 J	240.00 U
PHENOTHIAZINE	ug/kg	240.00 U	240.00 U	230.00 U	230.00 U	470.00	240.00 U
BENZOTHIAZOLE	ug/kg	240.00 U	240.00 U	230.00 U	230.00 U	2,200.00	240.00 U

SAMPLE NAME		TPEXP	
SAMPLE DATE		06/14/95	
TEXT 001			
SAMPLE DEPTH		0.00 - 6.00'	
Targeted SemiVolatiles			
PHENYL ISOTHIOCYANATE	ug/kg	470.00	U
DIPHENYLAMINE	ug/kg	330.00	J
2-MERCAPTOBENZOTHIAZOLE	ug/kg	3,200.00	J
2-ANILINOBENZOTHIAZOLE	ug/kg	15,000.00	JD
PERYLENE	ug/kg	450.00	J
ANILINE	ug/kg	260.00	J
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	1,500.00	J
PHENOTHIAZINE	ug/kg	270.00	J
BENZOTHIAZOLE	ug/kg	3,200.00	

SAMPLE NAME		TP01	TP02	TP03	TP04	TP05	TP06
SAMPLE DATE		06/12/95	06/12/95	06/13/95	06/13/95	06/13/95	06/14/95
TEXT 001							
SAMPLE DEPTH		0.00 - 4.00'	0.00 - 5.00'	5.50 - 6.00'	4.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'
Volatiles							
CHLOROMETHANE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
BROMOMETHANE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
VINYL CHLORIDE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
CHLOROETHANE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
METHYLENE CHLORIDE	ug/kg	12.00 U	19.00 U	13.00 U	12.00 U	18.00 U	12.00 U
ACETONE	ug/kg	22.00 X	28.00	13.00 UJ	12.00 UJ	16.00 UJ	12.00 UJ
CARBON DISULFIDE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
1,1-DICHLOROETHENE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
1,1-DICHLOROETHANE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
1,2-DICHLOROETHENE (total)	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
CHLOROFORM	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
1,2-DICHLOROETHANE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
2-BUTANONE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
1,1,1-TRICHLOROETHANE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
CARBON TETRACHLORIDE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
BROMODICHLOROMETHANE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
1,2-DICHLOROPROPANE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
TRICHLOROETHENE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
DIBROMOCHLOROMETHANE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
1,1,2-TRICHLOROETHANE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
BENZENE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
BROMOFORM	ug/kg	12.00 UJ	12.00 UJ	13.00 U	12.00 U	12.00 U	12.00 U
4-METHYL-2-PENTANONE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
2-HEXANONE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
TETRACHLOROETHENE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
TOLUENE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
CHLOROBENZENE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
ETHYLBENZENE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
STYRENE	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U
XYLENES (total)	ug/kg	12.00 U	12.00 U	13.00 U	12.00 U	12.00 U	12.00 U

SAMPLE NAME		TP11	TP07	TP08	TP12	TP09	TP10
SAMPLE DATE		06/14/95	06/14/95	06/14/95	06/14/95	06/15/95	06/15/95
TEXT 001		Dup of TP06			Dup of TP08		
SAMPLE DEPTH		0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 2.00'	0.00 - 4.00'
Volatiles							
CHLOROMETHANE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
BROMOMETHANE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
VINYL CHLORIDE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
CHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
METHYLENE CHLORIDE	ug/kg	20.00 U	12.00 U	60.00 U	16.00 U	10.00 U	19.00 U
ACETONE	ug/kg	12.00 UJ	12.00 UJ	11.00 UJ	11.00 UJ	10.00 UJ	10.00 UJ
CARBON DISULFIDE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
1,1-DICHLOROETHENE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
1,1-DICHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
1,2-DICHLOROETHENE (total)	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
CHLOROFORM	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
1,2-DICHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
2-BUTANONE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
1,1,1-TRICHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
CARBON TETRACHLORIDE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
BROMODICHLOROMETHANE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
1,2-DICHLOROPROPANE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
TRICHLOROETHENE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
DIBROMOCHLOROMETHANE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
1,1,2-TRICHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
BENZENE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
BROMOFORM	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
4-METHYL-2-PENTANONE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
2-HEXANONE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
TETRACHLOROETHENE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
TOLUENE	ug/kg	2.00 J	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
CHLOROBENZENE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
ETHYLBENZENE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
STYRENE	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U
XYLENES (total)	ug/kg	12.00 U	12.00 U	11.00 U	11.00 U	10.00 U	10.00 U

SAMPLE NAME		TPEXP
SAMPLE DATE		06/14/95
TEXT 001		
SAMPLE DEPTH		0.00 - 6.00'
Volatiles		
CHLOROMETHANE	ug/kg	10.00 U
BROMOMETHANE	ug/kg	10.00 U
VINYL CHLORIDE	ug/kg	10.00 U
CHLOROETHANE	ug/kg	10.00 U
METHYLENE CHLORIDE	ug/kg	23.00 U
ACETONE	ug/kg	10.00 UJ
CARBON DISULFIDE	ug/kg	10.00 U
1,1-DICHLOROETHENE	ug/kg	10.00 U
1,1-DICHLOROETHANE	ug/kg	10.00 U
1,2-DICHLOROETHENE (total)	ug/kg	10.00 U
CHLOROFORM	ug/kg	10.00 U
1,2-DICHLOROETHANE	ug/kg	10.00 U
2-BUTANONE	ug/kg	10.00 U
1,1,1-TRICHLOROETHANE	ug/kg	10.00 U
CARBON TETRACHLORIDE	ug/kg	10.00 U
BROMODICHLOROMETHANE	ug/kg	10.00 U
1,2-DICHLOROPROPANE	ug/kg	10.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	10.00 U
TRICHLOROETHENE	ug/kg	10.00 U
DIBROMOCHLOROMETHANE	ug/kg	10.00 U
1,1,2-TRICHLOROETHANE	ug/kg	10.00 U
BENZENE	ug/kg	10.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	10.00 U
BROMOFORM	ug/kg	10.00 U
4-METHYL-2-PENTANONE	ug/kg	10.00 U
2-HEXANONE	ug/kg	10.00 U
TETRACHLOROETHENE	ug/kg	10.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	10.00 U
TOLUENE	ug/kg	10.00 U
CHLOROBENZENE	ug/kg	10.00 U
ETHYLBENZENE	ug/kg	10.00 U
STYRENE	ug/kg	10.00 U
XYLENES (total)	ug/kg	10.00 U

SAMPLE NAME		TP01	TP02	TP03	TP04	TP05	TP06
SAMPLE DATE		06/12/95	06/12/95	06/13/95	06/13/95	06/13/95	06/14/95
TEXT 001							
SAMPLE DEPTH		0.00 - 4.00'	0.00 - 5.00'	5.50 - 6.00'	4.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'
Semivolatiles - Page 1							
PHENOL	ug/kg	200.00 J	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
2-CHLOROPHENOL	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
1,3-DICHLOROBENZENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
1,4-DICHLOROBENZENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
1,2-DICHLOROBENZENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
2-METHYLPHENOL	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
4-METHYLPHENOL	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
HEXACHLOROETHANE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
NITROBENZENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
ISOPHORONE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
2-NITROPHENOL	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
2,4-DIMETHYLPHENOL	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
2,4-DICHLOROPHENOL	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	43.00 J	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
NAPHTHALENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
4-CHLOROANILINE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
HEXACHLOROBUTADIENE	ug/kg	410.00 U	390.00 U	420.00 UJ	380.00 UJ	410.00 U	400.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
2-METHYLNAPHTHALENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
2,4,6-TRICHLOROPHENOL	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	1,000.00 U	990.00 U	1,000.00 U	960.00 U	1,000.00 U	990.00 U
2-CHLORONAPHTHALENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
2-NITROANILINE	ug/kg	1,000.00 U	990.00 U	1,000.00 UJ	960.00 UJ	1,000.00 U	990.00 U
DIMETHYLPHTHALALTE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
ACENAPHTHYLENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
2,6-DINITROTOLUENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
3-NITROANILINE	ug/kg	1,000.00 U	990.00 U	1,000.00 U	960.00 U	1,000.00 U	990.00 U
ACENAPHTHENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U

SAMPLE NAME		TP11	TP07	TP08	TP12	TP09	TP10
SAMPLE DATE		06/14/95	06/14/95	06/14/95	06/14/95	06/15/95	06/15/95
TEXT 001		Dup of TP06			Dup of TP08		
SAMPLE DEPTH		0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 2.00'	0.00 - 4.00'
Semivolatiles - Page 1							
PHENOL	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
2-CHLOROPHENOL	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
1,3-DICHLOROBENZENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
1,4-DICHLOROBENZENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
1,2-DICHLOROBENZENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
2-METHYLPHENOL	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
4-METHYLPHENOL	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
HEXACHLOROETHANE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
NITROBENZENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
ISOPHORONE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
2-NITROPHENOL	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
2,4-DIMETHYLPHENOL	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
2,4-DICHLOROPHENOL	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
NAPHTHALENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
4-CHLOROANILINE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
HEXACHLOROBUTADIENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
2-METHYLNAPHTHALENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
2,4,6-TRICHLOROPHENOL	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	990.00 U	1,000.00 UJ	950.00 UJ	930.00 U	R	860.00 U
2-CHLORONAPHTHALENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
2-NITROANILINE	ug/kg	990.00 U	1,000.00 UJ	950.00 UJ	930.00 U	R	860.00 U
DIMETHYLPHTHALALTE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
ACENAPHTHYLENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
2,6-DINITROTOLUENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
3-NITROANILINE	ug/kg	990.00 U	1,000.00 UJ	950.00 UJ	930.00 U	R	860.00 U
ACENAPHTHENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U

SAMPLE NAME		TPEXP
SAMPLE DATE		06/14/95
TEXT 001		
SAMPLE DEPTH		0.00 - 6.00'
Semivolatiles - Page 1		
PHENOL	ug/kg	57.00 J
BIS(2-CHLOROETHYL)ETHER	ug/kg	340.00 U
2-CHLOROPHENOL	ug/kg	340.00 U
1,3-DICHLOROBENZENE	ug/kg	340.00 U
1,4-DICHLOROBENZENE	ug/kg	340.00 U
1,2-DICHLOROBENZENE	ug/kg	340.00 U
2-METHYLPHENOL	ug/kg	340.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	340.00 UJ
4-METHYLPHENOL	ug/kg	340.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	340.00 U
HEXACHLOROETHANE	ug/kg	340.00 U
NITROBENZENE	ug/kg	340.00 U
ISOPHORONE	ug/kg	340.00 U
2-NITROPHENOL	ug/kg	340.00 U
2,4-DIMETHYLPHENOL	ug/kg	340.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	340.00 U
2,4-DICHLOROPHENOL	ug/kg	340.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	340.00 U
NAPHTHALENE	ug/kg	350.00
4-CHLOROANILINE	ug/kg	340.00 U
HEXACHLOROBUTADIENE	ug/kg	340.00 UJ
4-CHLORO-3-METHYLPHENOL	ug/kg	340.00 U
2-METHYLNAPHTHALENE	ug/kg	87.00 J
HEXACHLOROCYCLOPENTADIENE	ug/kg	340.00 UJ
2,4,6-TRICHLOROPHENOL	ug/kg	340.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	850.00 U
2-CHLORONAPHTHALENE	ug/kg	340.00 U
2-NITROANILINE	ug/kg	850.00 U
DIMETHYLPHTHALALTE	ug/kg	340.00 U
ACENAPHTHYLENE	ug/kg	340.00 U
2,6-DINITROTOLUENE	ug/kg	340.00 U
3-NITROANILINE	ug/kg	850.00 U
ACENAPHTHENE	ug/kg	680.00 J

SAMPLE NAME		TP01	TP02	TP03	TP04	TP05	TP06
SAMPLE DATE		06/12/95	06/12/95	06/13/95	06/13/95	06/13/95	06/14/95
TEXT 001							
SAMPLE DEPTH		0.00 - 4.00'	0.00 - 5.00'	5.50 - 6.00'	4.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'
Semivolatiles - Page 2							
2,4-DINITROPHENOL	ug/kg	1,000.00 U	990.00 U	1,000.00 U	960.00 U	1,000.00 UJ	990.00 UJ
4-NITROPHENOL	ug/kg	1,000.00 U	990.00 U	R	R	1,000.00 U	990.00 U
DIBENZOFURAN	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
2,4-DINITROTOLUENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
DIETHYLPHTHALATE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
FLUORENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
4-NITROANILINE	ug/kg	1,000.00 U	990.00 U	1,000.00 U	960.00 U	1,000.00 U	990.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	1,000.00 U	990.00 U	1,000.00 U	960.00 U	1,000.00 U	990.00 U
N-NITROSODIPHENYLAMINE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
HEXACHLOROBENZENE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
PENTACHLOROPHENOL	ug/kg	1,000.00 U	990.00 U	1,000.00 U	960.00 U	1,000.00 U	990.00 U
PHENANTHRENE	ug/kg	240.00 J	390.00 U	57.00 J	380.00 U	410.00 U	400.00 U
ANTHRACENE	ug/kg	47.00 J	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
CARBAZOLE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
DI-N-BUTYLPHTHALATE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
FLUORANTHENE	ug/kg	460.00	390.00 U	150.00 J	380.00 U	410.00 U	400.00 U
PYRENE	ug/kg	340.00 J	390.00 U	160.00 J	380.00 U	410.00 U	400.00 U
BUTYLBENZYLPHTHALATE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
3,3'-DICHLOROBENZIDINE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
BENZO(A)ANTHRACENE	ug/kg	290.00 J	390.00 U	91.00 J	380.00 U	410.00 U	400.00 U
CHRYSENE	ug/kg	400.00 J	390.00 U	87.00 J	380.00 U	410.00 U	400.00 U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	63.00 J	390.00 U	420.00 U	380.00 U	410.00 U	400.00 U
DI-N-OCTYLPHTHALATE	ug/kg	410.00 U	390.00 U	420.00 U	380.00 U	410.00 UJ	400.00 UJ
BENZO(B)FLUORANTHENE	ug/kg	650.00	390.00 U	150.00 J	380.00 U	410.00 U	400.00 U
BENZO(K)FLUORANTHENE	ug/kg	630.00	390.00 U	120.00 J	380.00 UJ	410.00 U	400.00 U
BENZO(A)PYRENE	ug/kg	290.00 J	390.00 U	78.00 J	380.00 U	410.00 U	400.00 U
INDENO(1,2,3-CD)PYRENE	ug/kg	120.00 J	390.00 U	57.00 J	380.00 UJ	410.00 U	400.00 U
DIBENZO(A,H)ANTHRACENE	ug/kg	410.00 U	390.00 U	420.00 UJ	380.00 UJ	410.00 U	400.00 U
BENZO(G,H,I)PERYLENE	ug/kg	140.00 J	390.00 U	43.00 J	380.00 UJ	410.00 U	400.00 U

SAMPLE NAME		TP11	TP07	TP08	TP12	TP09	TP10
SAMPLE DATE		06/14/95	06/14/95	06/14/95	06/14/95	06/15/95	06/15/95
TEXT 001		Dup of TP06			Dup of TP08		
SAMPLE DEPTH		0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 2.00'	0.00 - 4.00'
Semivolatiles - Page 2							
2,4-DINITROPHENOL	ug/kg	990.00 UJ	1,000.00 UJ	950.00 UJ	930.00 UJ	R	860.00 UJ
4-NITROPHENOL	ug/kg	990.00 U	1,000.00 UJ	950.00 UJ	930.00 U	R	860.00 UJ
DIBENZOFURAN	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
2,4-DINITROTOLUENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
DIETHYLPHTHALATE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
FLUORENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
4-NITROANILINE	ug/kg	990.00 U	1,000.00 UJ	950.00 UJ	930.00 U	R	860.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	990.00 U	1,000.00 UJ	950.00 UJ	930.00 U	R	860.00 UJ
N-NITROSODIPHENYLAMINE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
HEXACHLOROBENZENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
PENTACHLOROPHENOL	ug/kg	990.00 U	1,000.00 UJ	950.00 UJ	930.00 U	R	860.00 U
PHENANTHRENE	ug/kg	390.00 U	400.00 UJ	66.00 J	370.00 U	100.00 J	340.00 U
ANTHRACENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
CARBAZOLE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
DI-N-BUTYLPHTHALATE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
FLUORANTHENE	ug/kg	390.00 U	400.00 UJ	120.00 J	47.00 J	200.00 J	340.00 U
PYRENE	ug/kg	390.00 U	400.00 UJ	170.00 J	48.00 J	220.00 J	340.00 U
BUTYLBENZYLPHTHALATE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
3,3'-DICHLOROBENZIDINE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
BENZO(A)ANTHRACENE	ug/kg	390.00 U	400.00 UJ	110.00 J	41.00 J	130.00 J	340.00 U
CHRYSENE	ug/kg	390.00 U	400.00 UJ	110.00 J	48.00 J	200.00 J	340.00 U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	390.00 U	400.00 UJ	41.00 J	370.00 U	59.00 J	340.00 U
DI-N-OCTYLPHTHALATE	ug/kg	390.00 UJ	400.00 UJ	380.00 UJ	370.00 UJ	R	340.00 U
BENZO(B)FLUORANTHENE	ug/kg	390.00 U	400.00 UJ	180.00 JX	80.00 XJ	220.00 J	340.00 U
BENZO(K)FLUORANTHENE	ug/kg	390.00 U	400.00 UJ	210.00 JX	74.00 XJ	75.00 J	340.00 U
BENZO(A)PYRENE	ug/kg	390.00 U	400.00 UJ	110.00 J	38.00 J	180.00 J	340.00 U
INDENO(1,2,3-CD)PYRENE	ug/kg	390.00 U	400.00 UJ	67.00 J	19.00 J	57.00 J	340.00 U
DIBENZO(A,H)ANTHRACENE	ug/kg	390.00 U	400.00 UJ	380.00 UJ	370.00 U	R	340.00 U
BENZO(G,H,I)PERYLENE	ug/kg	390.00 U	400.00 UJ	63.00 J	370.00 U	R	340.00 U

SAMPLE NAME		TPEXP	
SAMPLE DATE		06/14/95	
TEXT 001			
SAMPLE DEPTH		0.00 - 6.00'	
Semivolatiles - Page 2			
2,4-DINITROPHENOL	ug/kg	850.00	UJ
4-NITROPHENOL	ug/kg	R	
DIBENZOFURAN	ug/kg	170.00	J
2,4-DINITROTOLUENE	ug/kg	340.00	U
DIETHYLPHTHALATE	ug/kg	200.00	J
4-CHLOROPHENYL-PHENYLETHER	ug/kg	340.00	U
FLUORENE	ug/kg	330.00	J
4-NITROANILINE	ug/kg	850.00	U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	850.00	UJ
N-NITROSODIPHENYLAMINE	ug/kg	220.00	J
4-BROMOPHENYL-PHENYLETHER	ug/kg	340.00	UJ
HEXACHLOROBENZENE	ug/kg	340.00	UJ
PENTACHLOROPHENOL	ug/kg	850.00	U
PHENANTHRENE	ug/kg	2,300.00	
ANTHRACENE	ug/kg	670.00	
CARBAZOLE	ug/kg	670.00	
DI-N-BUTYLPHTHALATE	ug/kg	340.00	U
FLUORANTHENE	ug/kg	2,200.00	
PYRENE	ug/kg	7,800.00	D
BUTYLBENZYLPHTHALATE	ug/kg	340.00	UJ
3,3'-DICHLOROBENZIDINE	ug/kg	340.00	U
BENZO(A)ANTHRACENE	ug/kg	7,700.00	D
CHRYSENE	ug/kg	2,700.00	
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	800.00	J
DI-N-OCTYLPHTHALATE	ug/kg	63.00	J
BENZO(B)FLUORANTHENE	ug/kg	12,000.00	D
BENZO(K)FLUORANTHENE	ug/kg	12,000.00	D
BENZO(A)PYRENE	ug/kg	2,600.00	
INDENO(1,2,3-CD)PYRENE	ug/kg	770.00	
DIBENZO(A,H)ANTHRACENE	ug/kg	330.00	J
BENZO(G,H,I)PERYLENE	ug/kg	700.00	

SAMPLE NAME		TP01	TP02	TP03	TP04	TP05	TP06
SAMPLE DATE		06/12/95	06/12/95	06/13/95	06/13/95	06/13/95	06/14/95
TEXT 001							
SAMPLE DEPTH		0.00 - 4.00'	0.00 - 5.00'	5.50 - 6.00'	4.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'
Pesticides/PCBs							
ALPHA-BHC	ug/kg	4.30 J	2.00 U	4.30	2.00 U	2.10 U	2.00 U
BETA-BHC	ug/kg	R	2.00 U	19.00	2.00 U	2.10 U	2.00 U
DELTA-BHC	ug/kg	2.10 U	2.00 U	56.00 D	2.00 U	2.10 U	2.00 U
gamma-BHC (Lindane)	ug/kg	R	2.00 U	4.40 J	2.00 U	2.10 U	2.00 U
HEPTACHLOR	ug/kg	2.10 U	2.00 U	2.10 UJ	2.00 UJ	2.10 U	2.00 U
ALDRIN	ug/kg	2.10 U	2.00 U	2.10 U	2.00 U	2.10 U	2.00 U
HEPTACHLOR EPOXIDE	ug/kg	2.10 U	2.00 U	2.10 U	2.00 U	2.10 U	2.00 U
ENDOSULFAN I	ug/kg	9.40	2.00 U	2.10 U	2.00 U	2.10 U	2.00 U
DIELDRIN	ug/kg	R	4.00 U	4.10 U	3.90 U	4.10 U	4.00 U
4,4'-DDE	ug/kg	3.80 J	4.00 U	4.10 U	3.90 U	0.14 J	4.00 U
ENDRIN	ug/kg	4.10 U	4.00 U	4.10 U	3.90 U	4.10 U	4.00 U
ENDOSULFAN II	ug/kg	4.10 U	4.00 U	4.10 U	3.90 U	4.10 U	4.00 U
4,4'-DDD	ug/kg	4.10 U	4.00 U	4.10 U	3.90 U	4.10 U	4.00 U
ENDOSULFAN SULFATE	ug/kg	4.10 U	4.00 U	4.10 U	3.90 U	4.10 U	4.00 U
4,4'-DDT	ug/kg	4.10 U	4.00 U	4.10 U	3.90 U	4.10 U	4.00 U
METHOXYCHLOR	ug/kg	21.00 U	20.00 U	21.00 U	20.00 U	21.00 U	20.00 U
ENDRIN KETONE	ug/kg	4.10 U	4.00 U	4.10 U	3.90 U	4.10 U	4.00 U
ENDRIN ALDEHYDE	ug/kg	4.10 U	4.00 U	4.10 U	3.90 U	4.10 U	4.00 U
ALPHA-CHLORDANE	ug/kg	13.00	2.00 U	2.10 U	2.00 U	2.10 U	2.00 U
GAMMA-CHLORDANE	ug/kg	R	2.00 U	2.10 U	2.00 U	2.10 U	2.00 U
TOXAPHENE	ug/kg	210.00 U	200.00 U	210.00 U	200.00 U	210.00 U	200.00 U
AROCLOR 1016	ug/kg	41.00 U	40.00 U	41.00 U	39.00 U	41.00 U	40.00 U
AROCLOR 1221	ug/kg	83.00 U	80.00 U	84.00 U	78.00 U	82.00 U	81.00 U
AROCLOR 1232	ug/kg	41.00 U	40.00 U	41.00 U	39.00 U	41.00 U	40.00 U
AROCLOR 1242	ug/kg	41.00 U	40.00 U	41.00 U	39.00 U	41.00 U	40.00 U
AROCLOR 1248	ug/kg	41.00 U	40.00 U	140.00	39.00 U	41.00 U	40.00 U
AROCLOR 1254	ug/kg	41.00 U	40.00 U	41.00 U	39.00 U	41.00 U	40.00 U
AROCLOR 1260	ug/kg	41.00 U	40.00 U	41.00 U	39.00 U	41.00 U	40.00 U

SAMPLE NAME		TP11	TP07	TP08	TP12	TP09	TP10
SAMPLE DATE		06/14/95	06/14/95	06/14/95	06/14/95	06/15/95	06/15/95
TEXT 001		Dup of TP06			Dup of TP08		
SAMPLE DEPTH		0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 2.00'	0.00 - 4.00'
Pesticides/PCBs							
ALPHA-BHC	ug/kg	2.00 U	2.00 U	2.00 U	1.90 U	0.23 J	1.80 U
BETA-BHC	ug/kg	2.00 U	2.00 U	2.00 U	1.90 U	1.70 U	1.80 U
DELTA-BHC	ug/kg	2.00 U	2.00 U	2.00 U	1.90 U	1.70 U	1.80 U
gamma-BHC (Lindane)	ug/kg	2.00 U	2.00 U	2.00 U	1.90 U	1.10 U	1.80 U
HEPTACHLOR	ug/kg	2.00 U	2.00 U	2.00 UJ	1.90 UJ	0.21 J	0.08 J
ALDRIN	ug/kg	2.00 U	2.00 U	2.00 U	1.90 U	0.14 J	1.80 U
HEPTACHLOR EPOXIDE	ug/kg	2.00 U	2.00 U	2.00 U	1.90 U	1.70 U	1.80 U
ENDOSULFAN I	ug/kg	2.00 U	2.00 U	2.00 U	1.90 U	1.70 U	1.80 U
DIELDRIN	ug/kg	4.00 U	4.00 U	3.80 U	3.70 U	3.30 U	3.40 U
4,4'-DDE	ug/kg	4.00 U	4.00 U	3.80 U	3.70 U	3.30 U	3.40 U
ENDRIN	ug/kg	4.00 U	4.00 U	3.80 U	3.70 U	3.30 U	3.40 U
ENDOSULFAN II	ug/kg	4.00 U	4.00 U	3.80 U	3.70 U	3.30 U	3.40 U
4,4'-DDD	ug/kg	4.00 U	4.00 U	3.80 U	3.70 U	3.30 U	3.40 U
ENDOSULFAN SULFATE	ug/kg	4.00 U	4.00 U	3.80 U	3.70 U	3.30 U	3.40 U
4,4'-DDT	ug/kg	4.00 U	4.00 U	0.81 JN	3.70 U	3.30 U	3.40 U
METHOXYCHLOR	ug/kg	20.00 U	20.00 U	20.00 U	19.00 U	17.00 U	18.00 U
ENDRIN KETONE	ug/kg	4.00 U	4.00 U	3.80 U	3.70 U	3.30 U	3.40 U
ENDRIN ALDEHYDE	ug/kg	4.00 U	4.00 U	3.80 U	3.70 U	3.30 U	R
ALPHA-CHLORDANE	ug/kg	2.00 U	2.00 U	2.00 U	1.90 U	1.70 U	1.80 U
GAMMA-CHLORDANE	ug/kg	2.00 U	2.00 U	2.00 U	1.90 U	1.70 U	1.80 U
TOXAPHENE	ug/kg	200.00 U	200.00 U	200.00 U	190.00 U	170.00 U	180.00 U
AROCLOR 1016	ug/kg	40.00 U	40.00 U	38.00 U	37.00 U	33.00 U	34.00 U
AROCLOR 1221	ug/kg	81.00 U	80.00 U	77.00 U	76.00 U	67.00 U	70.00 U
AROCLOR 1232	ug/kg	40.00 U	40.00 U	38.00 U	37.00 U	33.00 U	34.00 U
AROCLOR 1242	ug/kg	40.00 U	40.00 U	38.00 U	37.00 U	33.00 U	34.00 U
AROCLOR 1248	ug/kg	40.00 U	40.00 U	38.00 U	37.00 U	33.00 U	34.00 U
AROCLOR 1254	ug/kg	40.00 U	40.00 U	38.00 U	37.00 U	33.00 U	34.00 U
AROCLOR 1260	ug/kg	40.00 U	40.00 U	38.00 U	37.00 U	33.00 U	34.00 U

SAMPLE NAME		TPEXP
SAMPLE DATE		06/14/95
TEXT 001		
SAMPLE DEPTH		0.00 - 6.00'
Pesticides/PCBs		
ALPHA-BHC	ug/kg	1.80 U
BETA-BHC	ug/kg	1.80 U
DELTA-BHC	ug/kg	1.80 U
gamma-BHC (Lindane)	ug/kg	1.80 U
HEPTACHLOR	ug/kg	1.80 U
ALDRIN	ug/kg	1.80 U
HEPTACHLOR EPOXIDE	ug/kg	1.80 U
ENDOSULFAN I	ug/kg	1.80 U
DIELDRIN	ug/kg	3.40 U
4,4'-DDE	ug/kg	3.40 U
ENDRIN	ug/kg	R
ENDOSULFAN II	ug/kg	3.40 U
4,4'-DDD	ug/kg	3.40 U
ENDOSULFAN SULFATE	ug/kg	R
4,4'-DDT	ug/kg	2.20 J
METHOXYCHLOR	ug/kg	18.00 U
ENDRIN KETONE	ug/kg	10.00 J
ENDRIN ALDEHYDE	ug/kg	3.40 U
ALPHA-CHLORDANE	ug/kg	1.80 U
GAMMA-CHLORDANE	ug/kg	1.80 U
TOXAPHENE	ug/kg	180.00 U
AROCLOR 1016	ug/kg	34.00 U
AROCLOR 1221	ug/kg	69.00 U
AROCLOR 1232	ug/kg	34.00 U
AROCLOR 1242	ug/kg	34.00 U
AROCLOR 1248	ug/kg	34.00 U
AROCLOR 1254	ug/kg	34.00 U
AROCLOR 1260	ug/kg	34.00 U

SAMPLE NAME		TP01	TP02	TP03	TP04	TP05	TP06
SAMPLE DATE		06/12/95	06/12/95	06/13/95	06/13/95	06/13/95	06/14/95
TEXT 001							
SAMPLE DEPTH		0.00 - 4.00'	0.00 - 5.00'	5.50 - 6.00'	4.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'
Inorganic Analytes							
ALUMINUM	mg/kg	12,100.00	15,400.00	16,500.00	13,700.00	17,000.00	16,500.00
ANTIMONY	mg/kg	0.96 BNJ	0.53 BN	0.51 BNJ	0.45 UNJ	0.46 UNJ	0.47 UNJ
ARSENIC	mg/kg	5.80	4.20 J	3.60	3.30	3.60	3.30
BARIUM	mg/kg	161.00	125.00	129.00	96.20	133.00	120.00
BERYLLIUM	mg/kg	0.70 B	0.81 B	0.84 B	0.71 B	0.84 B	0.75 B
CADMIUM	mg/kg	0.19 B	0.41 B	0.40 B	0.38 B	0.41 B	0.36 B
CALCIUM	mg/kg	30,400.00 *	39,700.00 *	18,400.00 *	41,400.00 *	47,100.00 *	48,800.00 *
CHROMIUM	mg/kg	R	R	R	R	R	R
COBALT	mg/kg	7.90 B	13.50	12.70 B	11.30 B	15.50	10.80 B
COPPER	mg/kg	59.60 N*J	22.80 N*J	24.50 N*J	23.40 N*J	24.10 N*J	21.60 N*J
IRON	mg/kg	21,600.00	27,300.00	27,200.00	24,000.00	26,800.00	24,800.00
LEAD	mg/kg	183.00 N*J	11.90 N*J	14.60 N*J	8.30 N*J	11.60 N*J	9.40 N*J
MAGNESIUM	mg/kg	9,320.00 *	10,600.00 *	8,980.00 *	9,920.00 *	11,100.00 *	11,400.00 *
MANGANESE	mg/kg	R	R	R	R	R	R
MERCURY	mg/kg	0.33 *	0.13 U*	0.13 U*	0.12 U*	0.12 U*	0.12 U*
NICKEL	mg/kg	23.70	28.70	28.50	25.90	29.90	25.20
POTASSIUM	mg/kg	2,320.00 EJ	2,430.00 EJ	1,930.00 EJ	2,370.00 EJ	2,970.00 EJ	3,570.00 EJ
SELENIUM	mg/kg	1.40 J	1.90	2.30	1.50	2.10	2.00
SILVER	mg/kg	0.13 UJ	0.75 BJ	0.13 UJ	0.12 UJ	0.12 UJ	0.12 UJ
SODIUM	mg/kg	485.00 B	268.00 B	275.00 B	240.00 B	264.00 B	373.00 B
THALLIUM	mg/kg	1.20 U	1.10 U	1.20 U	1.10 U	1.10 U	1.10 U
VANADIUM	mg/kg	26.60	30.60	33.40	26.60	33.40	31.60
ZINC	mg/kg	224.00 *	68.40 *	82.70 *	73.20 *	63.20 *	61.90 *
CYANIDE	mg/kg	0.66 U	0.63 U	0.64 U	0.60 U	0.60 U	0.61 U

SAMPLE NAME		TP11	TP07	TP08	TP12	TP09	TP10
SAMPLE DATE		06/14/95	06/14/95	06/14/95	06/14/95	06/15/95	06/15/95
TEXT 001		Dup of TP06			Dup of TP08		
SAMPLE DEPTH		0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 6.00'	0.00 - 2.00'	0.00 - 4.00'
Inorganic Analytes							
ALUMINUM	mg/kg	16,000.00	13,200.00	13,400.00	12,300.00	17,800.00	20,500.00
ANTIMONY	mg/kg	0.46 UNJ	0.46 UNJ	0.47 UNJ	0.44 UNJ	0.47 UNJ	0.50 BNJ
ARSENIC	mg/kg	3.40	5.00	3.50	3.40	4.70	4.50
BARIUM	mg/kg	114.00	67.60	95.30	88.20	155.00	106.00
BERYLLIUM	mg/kg	0.76 B	0.69 B	0.68 B	0.59 B	0.76 B	1.20 B
CADMIUM	mg/kg	0.37 B	0.30 B	0.58 B	0.55 B	0.47 B	0.20 B
CALCIUM	mg/kg	45,200.00 *	24,700.00 *	53,300.00 *	50,100.00 *	4,800.00 *	1,410.00 *
CHROMIUM	mg/kg	R	R	R	R	R	R
COBALT	mg/kg	11.10 B	10.00 B	11.80 B	9.10 B	16.00	21.80
COPPER	mg/kg	25.40 N*J	24.70 N*J	21.60 N*J	18.80 N*J	36.80 N*J	20.00 N*J
IRON	mg/kg	24,300.00	24,900.00	22,700.00	19,600.00	25,000.00	32,100.00
LEAD	mg/kg	8.60 N*J	10.40 N*J	30.70 N*J	31.40 N*J	51.90 N*J	14.30 N*J
MAGNESIUM	mg/kg	10,900.00 *	11,800.00 *	20,100.00 *	18,400.00 *	5,160.00 *	6,240.00 *
MANGANESE	mg/kg	R	R	R	R	R	R
MERCURY	mg/kg	0.12 U*	0.12 U*	0.12 U*	0.12 U*	2.80 *	0.12 U*
NICKEL	mg/kg	25.20	24.90	23.60	19.80	27.10	27.40
POTASSIUM	mg/kg	3,850.00 EJ	2,420.00 EJ	2,090.00 EJ	1,880.00 EJ	2,450.00 EJ	1,790.00 EJ
SELENIUM	mg/kg	1.50	1.60	1.70	1.90	2.60	2.50
SILVER	mg/kg	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ
SODIUM	mg/kg	423.00 B	325.00 B	249.00 B	266.00 B	174.00 B	173.00 B
THALLIUM	mg/kg	1.10 U	1.10 U	1.10 U	1.00 U	1.10 U	1.10 U
VANADIUM	mg/kg	31.00	28.10	26.60	24.80	38.10	36.50
ZINC	mg/kg	59.40 *	67.90 *	122.00 *	132.00 *	127.00 *	72.90 *
CYANIDE	mg/kg	0.61 U	0.61 U	0.61 U	0.58 U	0.62 U	0.60 U

SAMPLE NAME		TPEXP	
SAMPLE DATE		06/14/95	
TEXT 001			
SAMPLE DEPTH		0.00 - 6.00'	
Inorganic Analytes			
ALUMINUM	mg/kg	13,200.00	
ANTIMONY	mg/kg	1.70	BNJ
ARSENIC	mg/kg	9.40	
BARIUM	mg/kg	102.00	
BERYLLIUM	mg/kg	0.71	B
CADMIUM	mg/kg	0.77	B
CALCIUM	mg/kg	44,800.00	*
CHROMIUM	mg/kg	R	
COBALT	mg/kg	29.60	
COPPER	mg/kg	251.00	N*J
IRON	mg/kg	24,200.00	
LEAD	mg/kg	99.60	N*J
MAGNESIUM	mg/kg	11,800.00	*
MANGANESE	mg/kg	R	
MERCURY	mg/kg	1.40	*
NICKEL	mg/kg	55.50	
POTASSIUM	mg/kg	2,300.00	EJ
SELENIUM	mg/kg	2.30	
SILVER	mg/kg	0.21	BJ
SODIUM	mg/kg	564.00	B
THALLIUM	mg/kg	1.10	U
VANADIUM	mg/kg	70.40	
ZINC	mg/kg	186.00	*
CYANIDE	mg/kg	0.60	U

AOC3 - WOODED WETLAND
SEDIMENT DATA

SAMPLE NAME		WTSD01	WTSD02	WTSD03	WTSD04	WTSD05	WTSD06
SAMPLE DATE		06/20/95	06/20/95	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001							
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Conventinal Parameters							
pH	units	7.70	7.30	6.80	8.00	7.90	7.70
SULFIDE	mg/kg	20.50	22.20	18.80	21.30	22.20	36.50
TOTAL ORGANIC CARBON	mg/kg	72,400.00	102,000.00	87,900.00	68,000.00	151,000.00	90,400.00
TOTAL SOLIDS	%	67.30	69.50	67.40	61.40	60.50	54.90
TOTAL SOILDS (EXTENDED)	%				58.40	61.30	58.20
ALKALINITY	mg/l						
AMMONIA	mg/l						
BOD	mg/l						
COD	mg/l						
TOTAL DISSOLVD SOLIDS	mg/l						
HARDNESS	mg/l						
NITRATE/NITRITE	mg/l						
TOTAL KJELDAHL NITROGEN	mg/l						

SAMPLE NAME		WTSD07	WTSD08	WTSD09	WTSD10	WTSD11
SAMPLE DATE		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95
TEXT 001						Dup of WTSD10
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Conventinal Parameters						
pH	units	7.30	7.30	7.20	7.40	7.40
SULFIDE	mg/kg	9.82	11.90	11.20	11.20	8.25
TOTAL ORGANIC CARBON	mg/kg	79,700.00	60,000.00	104,000.00	99,000.00	83,300.00
TOTAL SOLIDS	%	56.80	59.00	56.60	63.20	61.90
TOTAL SOILDS (EXTENDED)	%	52.30	59.10	57.60	61.80	63.90
ALKALINITY	mg/l					
AMMONIA	mg/l					
BOD	mg/l					
COD	mg/l					
TOTAL DISSOLVD SOLIDS	mg/l					
HARDNESS	mg/l					
NITRATE/NITRITE	mg/l					
TOTAL KJELDAHL NITROGEN	mg/l					

SAMPLE NAME		WTSD01	WTSD02	WTSD03	WTSD04	WTSD05	WTSD06
SAMPLE DATE		06/20/95	06/20/95	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001							
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Grain Analysis							
GRAVEL	%	0.00	0.00	0.00	0.00	0.00	0.00
SAND (A) COARSE	%	0.50 J	0.40 J	0.40 J	1.00 J	0.20 J	0.70 J
SAND (B) MEDIUM	%	1.50	1.40	1.70	1.80	2.10	2.00
SAND (C) FINE	%	1.90	3.50	2.30	4.40	3.70	2.90
SAND (D) FINE	%	0.60	1.70	0.50	1.30	1.00 J	0.70 J
SILTS/CLAYS (<0.075 MM)	%						
SILT (A)	%	0.00 J	5.60 J	8.90 J	22.70 J	18.10	0.00
SILT (B)	%	12.10	27.20	14.30	14.20 J	23.10 J	5.80 J
CLAY	%	24.70	22.90	29.20	29.00	22.20	7.40
COLLOIDS	%	63.20 J	37.40 J	42.60 J	25.60 J	28.80	86.40
TOTALS FOR GROUP		104.50	100.10	99.90	100.00	99.20	105.90

SAMPLE NAME		WTSD07	WTSD08	WTSD09	WTSD10	WTSD11
SAMPLE DATE		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95
TEXT 001						Dup of WTSD10
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Grain Analysis						
GRAVEL	%	0.00	0.00	0.00	0.00	0.00
SAND (A) COARSE	%	0.00 J	0.10 J	0.20 J	0.50 J	1.30 J
SAND (B) MEDIUM	%	2.00	3.30	2.70	4.40	4.40
SAND (C) FINE	%	5.30	6.30	6.90	6.00	8.70
SAND (D) FINE	%	1.20 J	1.00 J	1.30 J	1.60 J	0.90 J
SILTS/CLAYS (<0.075 MM)	%					
SILT (A)	%	14.90	22.00	18.00	36.00	8.20
SILT (B)	%	16.80 J	15.70 J	17.80 J	20.90 J	22.20 J
CLAY	%	31.20	28.60	30.20	23.90	33.40
COLLOIDS	%	28.50	22.90	23.00	6.70	21.00
TOTALS FOR GROUP		99.90	99.90	100.10	100.00	100.10

SAMPLE NAME		WTSD01	WTSD02	WTSD03	WTSD04	WTSD05	WTSD06
SAMPLE DATE		06/20/95	06/20/95	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001							
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Targeted SemiVolatiles							
PHENYL ISOTHIOCYANATE	ug/kg	300.00 U	290.00 U	300.00 U	340.00 U	330.00 U	340.00 U
DIPHENYLAMINE	ug/kg	300.00 U	290.00 U	300.00 U	340.00 U	330.00 U	340.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	300.00 U	290.00 U	300.00 U	340.00 U	330.00 U	340.00 U
2-ANILINOBENZOTHIAZOLE	ug/kg	300.00 U	290.00 U	300.00 U	340.00 U	330.00 U	340.00 U
PERYLENE	ug/kg	180.00 J	210.00 J	120.00 J	140.00 J	180.00 J	200.00 J
ANILINE	ug/kg	300.00 UJ	290.00 UJ	300.00 UJ	340.00 UJ	330.00 UJ	340.00 UJ
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	300.00 UJ	290.00 UJ	300.00 UJ	340.00 UJ	330.00 UJ	340.00 UJ
PHENOTHIAZINE	ug/kg	300.00 U	290.00 U	300.00 U	340.00 U	330.00 U	340.00 U
BENZOTHIAZOLE	ug/kg	300.00 U	290.00 U	300.00 U	340.00 U	330.00 U	340.00 U

SAMPLE NAME		WTSD07	WTSD08	WTSD09	WTSD10	WTSD11
SAMPLE DATE		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95
TEXT 001						Dup of WTSD10
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Targeted SemiVolatiles						
PHENYL ISOTHIOCYANATE	ug/kg	380.00 U	340.00 U	350.00 U	320.00 U	310.00 U
DIPHENYLAMINE	ug/kg	380.00 U	340.00 U	350.00 U	320.00 U	310.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	380.00 U	340.00 U	350.00 U	320.00 U	310.00 U
2-ANILINOBENZOTHIAZOLE	ug/kg	380.00 U	340.00 U	350.00 U	320.00 U	310.00 U
PERYLENE	ug/kg	170.00 J	190.00 J	170.00 J	250.00 J	180.00 J
ANILINE	ug/kg	380.00 UJ	340.00 UJ	350.00 UJ	320.00 UJ	310.00 UJ
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	380.00 UJ	340.00 UJ	350.00 UJ	320.00 UJ	310.00 UJ
PHENOTHIAZINE	ug/kg	380.00 U	340.00 U	350.00 U	320.00 U	310.00 U
BENZOTHIAZOLE	ug/kg	380.00 U	340.00 U	350.00 U	320.00 U	310.00 U

SAMPLE NAME		WTSD01	WTSD02	WTSD03	WTSD04	WTSD05	WTSD06
SAMPLE DATE		06/20/95	06/20/95	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001							
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Volatiles							
CHLOROMETHANE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 UJ	16.00 UJ
BROMOMETHANE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
VINYL CHLORIDE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 UJ	16.00 UJ
CHLOROETHANE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
METHYLENE CHLORIDE	ug/kg	13.00 U	16.00 U	17.00 U	12.00 UJ	16.00 U	16.00 U
ACETONE	ug/kg	24.00 UJ	19.00 UJ	16.00 UJ	12.00 UJ	16.00 UJ	16.00 UJ
CARBON DISULFIDE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
1,1-DICHLOROETHENE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
1,1-DICHLOROETHANE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
1,2-DICHLOROETHENE (total)	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
CHLOROFORM	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
1,2-DICHLOROETHANE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
2-BUTANONE	ug/kg	13.00 UJ	15.00 UJ	16.00 UJ	12.00 U	16.00 U	16.00 U
1,1,1-TRICHLOROETHANE	ug/kg	13.00 UJ	2.00 J	16.00 UJ	12.00 U	16.00 UJ	16.00 UJ
CARBON TETRACHLORIDE	ug/kg	13.00 UJ	15.00 UJ	16.00 UJ	12.00 U	16.00 U	16.00 U
BROMODICHLOROMETHANE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
1,2-DICHLOROPROPANE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
TRICHLOROETHENE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
DIBROMOCHLOROMETHANE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
1,1,2-TRICHLOROETHANE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
BENZENE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
BROMOFORM	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
4-METHYL-2-PENTANONE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 UJ	16.00 U	16.00 U
2-HEXANONE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
TETRACHLOROETHENE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
TOLUENE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
CHLOROBENZENE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
ETHYLBENZENE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
STYRENE	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U
XYLENES (total)	ug/kg	13.00 U	15.00 U	16.00 U	12.00 U	16.00 U	16.00 U

SAMPLE NAME		WTSD07	WTSD08	WTSD09	WTSD10	WTSD11
SAMPLE DATE		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95
TEXT 001						Dup of WTSD10
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Volatiles						
CHLOROMETHANE	ug/kg	16.00 UJ	16.00 UJ	16.00 UJ	16.00 UJ	16.00 UJ
BROMOMETHANE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
VINYL CHLORIDE	ug/kg	16.00 UJ	16.00 UJ	16.00 UJ	16.00 UJ	16.00 UJ
CHLOROETHANE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
METHYLENE CHLORIDE	ug/kg	16.00 U	16.00 U	16.00 U	20.00 U	19.00 U
ACETONE	ug/kg	16.00 UJ	17.00 UJ	16.00 UJ	16.00 UJ	16.00 UJ
CARBON DISULFIDE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
1,1-DICHLOROETHENE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
1,1-DICHLOROETHANE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
1,2-DICHLOROETHENE (total)	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
CHLOROFORM	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
1,2-DICHLOROETHANE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
2-BUTANONE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 UJ
1,1,1-TRICHLOROETHANE	ug/kg	16.00 UJ	3.00 J	16.00 UJ	16.00 UJ	16.00 J
CARBON TETRACHLORIDE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
BROMODICHLOROMETHANE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
1,2-DICHLOROPROPANE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
TRICHLOROETHENE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
DIBROMOCHLOROMETHANE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
1,1,2-TRICHLOROETHANE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
BENZENE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
BROMOFORM	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
4-METHYL-2-PENTANONE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
2-HEXANONE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
TETRACHLOROETHENE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
TOLUENE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
CHLOROBENZENE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
ETHYLBENZENE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
STYRENE	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U
XYLENES (total)	ug/kg	16.00 U	16.00 U	16.00 U	16.00 U	16.00 U

SAMPLE NAME		WTSD01	WTSD02	WTSD03	WTSD04	WTSD05	WTSD06
SAMPLE DATE		06/20/95	06/20/95	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001							
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Semivolatiles - Page 1							
PHENOL	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
2-CHLOROPHENOL	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
1,3-DICHLOROBENZENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
1,4-DICHLOROBENZENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
1,2-DICHLOROBENZENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
2-METHYLPHENOL	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	420.00 UJ	490.00 UJ	510.00 UJ	410.00 UJ	540.00 UJ	530.00 UJ
4-METHYLPHENOL	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
HEXACHLOROETHANE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
NITROBENZENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
ISOPHORONE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
2-NITROPHENOL	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
2,4-DIMETHYLPHENOL	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
2,4-DICHLOROPHENOL	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
NAPHTHALENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
4-CHLOROANILINE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
HEXACHLOROBUTADIENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
2-METHYLNAPHTHALENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	420.00 UJ	490.00 UJ	510.00 UJ	410.00 UJ	540.00 UJ	530.00 UJ
2,4,6-TRICHLOROPHENOL	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	1,000.00 U	1,200.00 UJ	1,300.00 UJ	1,000.00 U	1,400.00 U	1,300.00 U
2-CHLORONAPHTHALENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
2-NITROANILINE	ug/kg	1,000.00 UJ	1,200.00 UJ	1,300.00 UJ	1,000.00 UJ	1,400.00 UJ	1,300.00 UJ
DIMETHYLPHTHALALTE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
ACENAPHTHYLENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
2,6-DINITROTOLUENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
3-NITROANILINE	ug/kg	1,000.00 UJ	1,200.00 UJ	1,300.00 UJ	1,000.00 UJ	1,400.00 UJ	1,300.00 UJ
ACENAPHTHENE	ug/kg	420.00 U	55.00 J	510.00 UJ	410.00 U	71.00 J	66.00 J

SAMPLE NAME		WTSD07	WTSD08	WTSD09	WTSD10	WTSD11
SAMPLE DATE		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95
TEXT 001						Dup of WTSD10
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Semivolatiles - Page 1						
PHENOL	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
BIS(2-CHLOROETHYL)ETHER	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
2-CHLOROPHENOL	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
1,3-DICHLOROBENZENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
1,4-DICHLOROBENZENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
1,2-DICHLOROBENZENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
2-METHYLPHENOL	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	540.00 UJ	540.00 UJ	530.00 UJ	540.00 UJ	530.00 UJ
4-METHYLPHENOL	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
HEXACHLOROETHANE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
NITROBENZENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
ISOPHORONE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
2-NITROPHENOL	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
2,4-DIMETHYLPHENOL	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
2,4-DICHLOROPHENOL	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
NAPHTHALENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
4-CHLOROANILINE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
HEXACHLOROBUTADIENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
2-METHYLNAPHTHALENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	540.00 UJ	540.00 UJ	530.00 UJ	540.00 UJ	530.00 UJ
2,4,6-TRICHLOROPHENOL	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	1,300.00 U	1,400.00 U	1,300.00 U	1,400.00 U	1,300.00 U
2-CHLORONAPHTHALENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
2-NITROANILINE	ug/kg	1,300.00 UJ	1,400.00 UJ	1,300.00 UJ	1,400.00 UJ	1,300.00 UJ
DIMETHYLPHTHALALTE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
ACENAPHTHYLENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
2,6-DINITROTOLUENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
3-NITROANILINE	ug/kg	1,300.00 UJ	1,400.00 UJ	1,300.00 UJ	1,400.00 UJ	1,300.00 UJ
ACENAPHTHENE	ug/kg	55.00 J	540.00 U	58.00 J	58.00 J	530.00 U

SAMPLE NAME		WTSD01	WTSD02	WTSD03	WTSD04	WTSD05	WTSD06
SAMPLE DATE		06/20/95	06/20/95	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001							
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Semivolatiles - Page 2							
2,4-DINITROPHENOL	ug/kg	1,000.00 U	1,200.00 UJ	1,300.00 UJ	1,000.00 U	1,400.00 U	1,300.00 U
4-NITROPHENOL	ug/kg	1,000.00 U	1,200.00 UJ	1,300.00 UJ	1,000.00 U	1,400.00 U	1,300.00 U
DIBENZOFURAN	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
2,4-DINITROTOLUENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
DIETHYLPHTHALATE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
FLUORENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
4-NITROANILINE	ug/kg	1,000.00 UJ	1,200.00 UJ	1,300.00 UJ	1,000.00 UJ	1,400.00 UJ	1,300.00 UJ
4,6-DINITRO-2-METHYLPHENOL	ug/kg	1,000.00 U	1,200.00 UJ	1,300.00 UJ	1,000.00 U	1,400.00 U	1,300.00 U
N-NITROSODIPHENYLAMINE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
HEXACHLOROBENZENE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
PENTACHLOROPHENOL	ug/kg	1,000.00 U	1,200.00 UJ	1,300.00 UJ	1,000.00 U	1,400.00 U	1,300.00 U
PHENANTHRENE	ug/kg	230.00 J	340.00 J	190.00 J	240.00 J	420.00 J	430.00 J
ANTHRACENE	ug/kg	420.00 U	59.00 J	32.00 J	43.00 J	65.00 J	67.00 J
CARBAZOLE	ug/kg	420.00 U	53.00 J	510.00 UJ	42.00 J	86.00 J	87.00 J
DI-N-BUTYLPHTHALATE	ug/kg	58.00 J	490.00 UJ	510.00 UJ	47.00 J	79.00 J	75.00 J
FLUORANTHENE	ug/kg	500.00	480.00 J	300.00 J	450.00	890.00	920.00
PYRENE	ug/kg	360.00 J	590.00 J	370.00 J	320.00 J	640.00	670.00
BUTYLBENZYLPHTHALATE	ug/kg	56.00 J	490.00 UJ	510.00 UJ	410.00 UJ	130.00 J	70.00 J
3,3'-DICHLOROBENZIDINE	ug/kg	420.00 UJ	490.00 UJ	510.00 UJ	410.00 UJ	540.00 UJ	530.00 UJ
BENZO(A)ANTHRACENE	ug/kg	310.00 J	310.00 J	160.00 J	260.00 J	510.00 J	510.00 J
CHRYSENE	ug/kg	420.00 J	410.00 J	310.00 J	370.00 J	620.00	680.00
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	240.00 J	410.00 J	470.00 J	410.00 UJ	160.00 J	150.00 J
DI-N-OCTYLPHTHALATE	ug/kg	420.00 U	490.00 UJ	510.00 UJ	410.00 U	540.00 U	530.00 U
BENZO(B)FLUORANTHENE	ug/kg	990.00 X	810.00 J	620.00 J	750.00 X	1,300.00 X	1,400.00 X
BENZO(K)FLUORANTHENE	ug/kg	980.00 X	850.00 J	640.00 J	740.00 X	1,300.00 X	1,400.00 X
BENZO(A)PYRENE	ug/kg	330.00 J	390.00 J	260.00 J	300.00 J	440.00 J	530.00 J
INDENO(1,2,3-CD)PYRENE	ug/kg	270.00 J	240.00 J	180.00 J	150.00 J	290.00 J	240.00 J
DIBENZO(A,H)ANTHRACENE	ug/kg	420.00 U	80.00 J	52.00 J	410.00 U	540.00 U	530.00 U
BENZO(G,H,I)PERYLENE	ug/kg	240.00 J	260.00 J	220.00 J	160.00 J	280.00 J	390.00 J

SAMPLE NAME		WTSD07	WTSD08	WTSD09	WTSD10	WTSD11
SAMPLE DATE		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95
TEXT 001						Dup of WTSD10
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Semivolatiles - Page 2						
2,4-DINITROPHENOL	ug/kg	1,300.00 U	1,400.00 UJ	1,300.00 U	1,400.00 UJ	1,300.00 UJ
4-NITROPHENOL	ug/kg	1,300.00 U	1,400.00 U	1,300.00 U	1,400.00 U	1,300.00 U
DIBENZOFURAN	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
2,4-DINITROTOLUENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
DIETHYLPHTHALATE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
FLUORENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
4-NITROANILINE	ug/kg	1,300.00 UJ	1,400.00 UJ	1,300.00 UJ	1,400.00 UJ	1,300.00 UJ
4,6-DINITRO-2-METHYLPHENOL	ug/kg	1,300.00 U	1,400.00 U	1,300.00 U	1,400.00 U	1,300.00 U
N-NITROSODIPHENYLAMINE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
HEXACHLOROBENZENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
PENTACHLOROPHENOL	ug/kg	1,300.00 U	1,400.00 U	1,300.00 U	1,400.00 U	1,300.00 U
PHENANTHRENE	ug/kg	290.00 J	310.00 J	270.00 J	240.00 J	250.00 J
ANTHRACENE	ug/kg	540.00 U	57.00 J	530.00 U	67.00 J	530.00 U
CARBAZOLE	ug/kg	540.00 U	540.00 U	62.00 J	540.00 U	530.00 U
DI-N-BUTYLPHTHALATE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
FLUORANTHENE	ug/kg	620.00	670.00	570.00	450.00 J	420.00 J
PYRENE	ug/kg	460.00 J	470.00 J	400.00 J	380.00 J	340.00 J
BUTYLBENZYLPHTHALATE	ug/kg	540.00 UJ	540.00 UJ	530.00 UJ	540.00 UJ	530.00 UJ
3,3'-DICHLOROBENZIDINE	ug/kg	540.00 UJ	540.00 U	530.00 UJ	540.00 U	530.00 U
BENZO(A)ANTHRACENE	ug/kg	330.00 J	350.00 J	310.00 J	310.00 J	260.00 J
CHRYSENE	ug/kg	460.00 J	550.00	440.00 J	380.00 J	310.00 J
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	130.00 J	380.00 J	160.00 J	540.00 U	530.00 U
DI-N-OCTYLPHTHALATE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
BENZO(B)FLUORANTHENE	ug/kg	990.00 X	1,000.00 X	930.00 X	570.00 X	520.00 XJ
BENZO(K)FLUORANTHENE	ug/kg	980.00 X	1,100.00 X	920.00 X	620.00 X	560.00 X
BENZO(A)PYRENE	ug/kg	360.00 J	500.00 J	370.00 J	330.00 J	280.00 J
INDENO(1,2,3-CD)PYRENE	ug/kg	270.00 J	260.00 J	170.00 J	220.00 J	190.00 J
DIBENZO(A,H)ANTHRACENE	ug/kg	540.00 U	540.00 U	530.00 U	540.00 U	530.00 U
BENZO(G,H,I)PERYLENE	ug/kg	270.00 J	320.00 J	250.00 J	250.00 J	230.00 J

SAMPLE NAME		WTSD01	WTSD02	WTSD03	WTSD04	WTSD05	WTSD06
SAMPLE DATE		06/20/95	06/20/95	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001							
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Pesticides/PCBs							
ALPHA-BHC	ug/kg	4.40 J	4.60 J	5.50 J	0.47 NJ	2.80	4.50
BETA-BHC	ug/kg	2.10 U	2.10 J	8.10 NJ	2.10 UJ	R	R
DELTA-BHC	ug/kg	2.10 U	R	R	2.10 UJ	R	R
gamma-BHC (Lindane)	ug/kg	R	R	2.70 UJ	2.10 UJ	2.80 U	2.80 U
HEPTACHLOR	ug/kg	2.10 U	2.50 UJ	2.70 UJ	2.10 UJ	2.80 UJ	2.80 UJ
ALDRIN	ug/kg	2.10 U	2.50 UJ	2.70 UJ	2.10 UJ	2.80 U	2.80 U
HEPTACHLOR EPOXIDE	ug/kg	2.10 U	2.50 U	0.36 J	2.10 UJ	0.64 J	2.80 U
ENDOSULFAN I	ug/kg	2.10 U	2.50 UJ	2.70 UJ	2.10 UJ	2.80 U	R
DIELDRIN	ug/kg	4.10 U	4.90 U	5.20 U	4.10 UJ	5.40 U	5.40 U
4,4'-DDE	ug/kg	4.60 J	8.80 NJ	12.00 J	1.20 J	4.50 J	7.60
ENDRIN	ug/kg	4.10 U	4.90 UJ	5.20 UJ	4.10 UJ	5.40 U	5.40 U
ENDOSULFAN II	ug/kg	4.10 U	2.00 J	1.90 J	4.10 UJ	5.40 U	5.40 U
4,4'-DDD	ug/kg	4.10 U	4.90 UJ	R	4.10 UJ	5.40 U	5.40 U
ENDOSULFAN SULFATE	ug/kg	R	4.90 UJ	5.20 UJ	4.10 UJ	5.40 U	1.20 J
4,4'-DDT	ug/kg	4.10 U	4.90 UJ	2.30 NJ	0.34 J	5.40 U	5.40 U
METHOXYCHLOR	ug/kg	R	R	27.00 UJ	21.00 UJ	28.00 U	28.00 U
ENDRIN KETONE	ug/kg	R	0.90 NJ	5.20 UJ	4.10 UJ	0.77 NJ	1.70 J
ENDRIN ALDEHYDE	ug/kg	R	R	R	R	5.40 U	5.40 U
ALPHA-CHLORDANE	ug/kg	0.69 J	2.50 UJ	2.70 UJ	2.10 UJ	0.46 J	R
GAMMA-CHLORDANE	ug/kg	2.10 U	0.37 J	0.82 J	2.10 UJ	2.80 U	2.80 U
TOXAPHENE	ug/kg	210.00 U	250.00 UJ	270.00 UJ	210.00 UJ	280.00 U	280.00 U
AROCLOR 1016	ug/kg	41.00 U	49.00 UJ	52.00 UJ	41.00 UJ	54.00 U	54.00 U
AROCLOR 1221	ug/kg	84.00 U	100.00 UJ	100.00 UJ	83.00 UJ	110.00 U	110.00 U
AROCLOR 1232	ug/kg	41.00 U	49.00 UJ	52.00 UJ	41.00 UJ	54.00 U	54.00 U
AROCLOR 1242	ug/kg	41.00 U	49.00 UJ	52.00 UJ	41.00 UJ	54.00 U	54.00 U
AROCLOR 1248	ug/kg	41.00 U	49.00 UJ	52.00 UJ	41.00 UJ	54.00 U	54.00 U
AROCLOR 1254	ug/kg	68.00 J	110.00 J	52.00 UJ	41.00 UJ	71.00 J	110.00 J
AROCLOR 1260	ug/kg	41.00 U	49.00 UJ	52.00 UJ	41.00 UJ	54.00 U	54.00 U

SAMPLE NAME		WTSD07	WTSD08	WTSD09	WTSD10	WTSD11
SAMPLE DATE		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95
TEXT 001						Dup of WTSD10
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Pesticides/PCBs						
ALPHA-BHC	ug/kg	2.70 J	3.10 J	2.50 J	1.90 J	1.80 J
BETA-BHC	ug/kg	R	R	R	R	R
DELTA-BHC	ug/kg	3.90 NJ	6.30 J	3.50 J	3.10 NJ	2.70 UJ
gamma-BHC (Lindane)	ug/kg	2.80 U	R	2.70 U	2.80 U	R
HEPTACHLOR	ug/kg	R	R	R	R	R
ALDRIN	ug/kg	0.48 J	2.80 UJ	2.70 UJ	0.36 J	0.50 J
HEPTACHLOR EPOXIDE	ug/kg	0.49 NJ	1.30 J	R	R	0.36 NJ
ENDOSULFAN I	ug/kg	R	R	R	R	R
DIELDRIN	ug/kg	5.40 U	R	2.10 NJ	1.20 NJ	1.40 NJ
4,4'-DDE	ug/kg	7.70 J	5.40 U	R	5.00 NJ	4.90 NJ
ENDRIN	ug/kg	R	R	R	R	R
ENDOSULFAN II	ug/kg	R	R	R	R	R
4,4'-DDD	ug/kg	R	R	R	R	R
ENDOSULFAN SULFATE	ug/kg	R	2.80 J	R	R	R
4,4'-DDT	ug/kg	R	R	5.30 UJ	R	R
METHOXYCHLOR	ug/kg	R	R	R	R	R
ENDRIN KETONE	ug/kg	R	5.40 UJ	R	R	R
ENDRIN ALDEHYDE	ug/kg	5.40 U	R	5.30 UJ	R	R
ALPHA-CHLORDANE	ug/kg	0.81 J	0.94 J	0.58 J	R	R
GAMMA-CHLORDANE	ug/kg	2.80 U	0.23 NJ	0.21 NJ	R	R
TOXAPHENE	ug/kg	R	R	R	R	R
AROCLOR 1016	ug/kg	R	R	R	R	R
AROCLOR 1221	ug/kg	R	R	R	R	R
AROCLOR 1232	ug/kg	R	R	R	R	R
AROCLOR 1242	ug/kg	R	R	R	R	R
AROCLOR 1248	ug/kg	R	R	R	R	R
AROCLOR 1254	ug/kg	R	110.00 J	R	R	R
AROCLOR 1260	ug/kg	R	R	R	R	R

SAMPLE NAME		WTSD01	WTSD02	WTSD03	WTSD04	WTSD05	WTSD06
SAMPLE DATE		06/20/95	06/20/95	06/20/95	06/20/95	06/21/95	06/21/95
TEXT 001							
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Inorganic Analytes							
ALUMINUM	mg/kg	22,900.00 *	18,100.00 *	25,700.00 *	22,400.00 *	19,000.00	21,100.00
ANTIMONY	mg/kg	5.20 UNJ	4.60 UNJ	5.70 UNJ	5.80 UNJ	4.50 UNJ	4.60 UNJ
ARSENIC	mg/kg	5.10	7.60	6.30	6.20	5.90	7.70
BARIUM	mg/kg	182.00	150.00	180.00	165.00	170.00	180.00
BERYLLIUM	mg/kg	0.77 B	0.76 B	0.96 B	0.74 B	1.30 B	1.40 B
CADMIUM	mg/kg	1.10 B	0.27 U	0.33 U	0.34 U	1.40 B	1.40 B
CALCIUM	mg/kg	5,960.00	4,850.00	5,120.00	5,020.00	5,200.00	6,340.00
CHROMIUM	mg/kg	52.20	36.70	53.20	45.90	42.90	49.00
COBALT	mg/kg	16.00	15.90	15.40	16.30	15.20 B	16.50 B
COPPER	mg/kg	46.90	29.20	43.80	40.90	48.60 J	43.70 J
IRON	mg/kg	29,600.00 *	25,500.00 *	33,500.00 *	28,600.00 *	23,900.00	28,100.00
LEAD	mg/kg	109.00	96.80	104.00	91.00	100.00	114.00
MAGNESIUM	mg/kg	7,860.00 *	5,610.00 *	7,930.00 *	6,980.00 *	5,890.00	6,670.00
MANGANESE	mg/kg	274.00	616.00	252.00	290.00	259.00	319.00
MERCURY	mg/kg	0.55	0.63	0.71	0.82	0.76	0.93
NICKEL	mg/kg	37.90	30.50	39.20	36.70	31.10	34.90
POTASSIUM	mg/kg	2,800.00	1,810.00	3,360.00	2,650.00	2,270.00	2,600.00
SELENIUM	mg/kg	0.68 U	0.61 U	0.75 U	0.77 U	0.82 U	0.84 U
SILVER	mg/kg	1.20 B	1.30 B	2.00 B	1.30 B	0.89 U	0.90 U
SODIUM	mg/kg	435.00 B	307.00 B	442.00 B	400.00 B	390.00 B	397.00 B
THALLIUM	mg/kg	1.40 U	1.90 B	1.60 B	1.60 U	1.70 U	1.70 U
VANADIUM	mg/kg	41.10 J	35.40 J	47.20 J	40.10 J	37.60 J	41.20 J
ZINC	mg/kg	343.00	214.00	288.00	250.00	374.00 NJ	313.00 NJ
CYANIDE	mg/kg	0.69 U	0.62 U	0.73 U	0.79 U	0.82 U	0.84 U

SAMPLE NAME		WTSD07	WTSD08	WTSD09	WTSD10	WTSD11
SAMPLE DATE		06/21/95	06/21/95	06/21/95	06/21/95	06/21/95
TEXT 001						Dup of WTSD10
SAMPLE DEPTH		0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'	0.00 - 0.50'
Inorganic Analytes						
ALUMINUM	mg/kg	23,400.00	23,300.00	25,300.00	20,300.00	20,400.00
ANTIMONY	mg/kg	5.10 UNJ	4.60 UNJ	4.80 UNJ	4.30 UNJ	4.20 UNJ
ARSENIC	mg/kg	5.60	5.60	4.60	5.40	6.30
BARIUM	mg/kg	185.00	189.00	192.00	154.00	154.00
BERYLLIUM	mg/kg	1.50 B	1.40 B	1.50 B	1.30 B	1.30 B
CADMIUM	mg/kg	1.20 B	1.50 B	1.20 B	1.30 B	1.00 B
CALCIUM	mg/kg	5,600.00	5,710.00	5,750.00	7,450.00	7,640.00
CHROMIUM	mg/kg	53.50	53.20	49.30	40.70	41.90
COBALT	mg/kg	15.80 B	16.70 B	16.40 B	14.70 B	14.80 B
COPPER	mg/kg	51.90 J	49.00 J	39.80 J	37.00 J	37.20 J
IRON	mg/kg	26,800.00	26,300.00	28,500.00	24,200.00	24,800.00
LEAD	mg/kg	111.00	106.00	86.90	84.40	85.20
MAGNESIUM	mg/kg	7,100.00	7,030.00	7,280.00	6,290.00	6,290.00
MANGANESE	mg/kg	226.00	232.00	215.00	251.00	250.00
MERCURY	mg/kg	0.72	0.93	1.50	0.81	0.77
NICKEL	mg/kg	36.70	37.00	36.30	33.30	32.70
POTASSIUM	mg/kg	2,870.00	3,090.00	3,330.00	2,240.00	2,340.00
SELENIUM	mg/kg	0.94 U	0.84 U	0.89 U	0.79 U	0.77 U
SILVER	mg/kg	1.00 U	0.91 U	0.96 U	0.85 U	0.83 U
SODIUM	mg/kg	468.00 B	484.00 B	405.00 B	314.00 B	308.00 B
THALLIUM	mg/kg	1.90 U	1.70 U	1.90 U	1.60 U	1.60 U
VANADIUM	mg/kg	43.30 J	43.80 J	44.70 J	38.80 J	39.00 J
ZINC	mg/kg	284.00 NJ	314.00 NJ	332.00 NJ	227.00 NJ	230.00 NJ
CYANIDE	mg/kg	0.91 U	0.83 U	0.90 U	0.80 U	0.76 U

AOC4 - EAST GILL CREEK
SURFACE WATER DATA

SAMPLE NAME		GCSW1	GCSW2	GCSW3	GCSW5	GCSW4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSW3	
SAMPLE DEPTH		Round 1	Round 1	Round 1	Round 1	Round 1
Conventinal Parameters						
pH	units					
SULFIDE	mg/kg					
TOTAL ORGANIC CARBON	mg/kg					
TOTAL SOLIDS	%					
TOTAL SOILDS (EXTENDED)	%					
ALKALINITY	mg/l	270.00	165.00	171.00	173.00	163.00
AMMONIA	mg/l					
BOD	mg/l					
COD	mg/l					
TOTAL DISSOLVD SOLIDS	mg/l	1,400.00	1,760.00	1,850.00	1,740.00	878.00
HARDNESS	mg/l	1,480.00 J	540.00 J	672.00 J	680.00 J	480.00 J
NITRATE/NITRITE	mg/l					
TOTAL KJELDAHL NITROGEN	mg/l					
WET	mg/l					

Forest Glen Site
AOC 4 - East Gill Creek - Surface Water
Targeted Organic Compounds

SAMPLE NAME		GCSW1	GCSW2	GCSW3	GCSW5	GCSW4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSW3	
SAMPLE DEPTH		Round 1	Round 1	Round 1	Round 1	Round 1
Targeted SemiVolatiles						
PHENYL ISOTHIOCYANATE	ug/l	6.00 U	6.00 U	6.00 U	5.00 U	5.00 U
DIPHENYLAMINE	ug/l	6.00 U	6.00 U	6.00 U	5.00 U	5.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/l	6.00 U	6.00 U	6.00 U	5.00 U	5.00 U
2-ANILINOBENZOTHIAZOLE	ug/l	6.00 U	6.00 U	6.00 U	5.00 U	5.00 U
PERYLENE	ug/l	6.00 U	6.00 U	6.00 U	5.00 U	5.00 U
ANILINE	ug/l	6.00 U	6.00 U	6.00 U	5.00 U	5.00 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/l	6.00 U	6.00 U	6.00 U	5.00 U	5.00 U
PHENOTHIAZINE	ug/l	6.00 U	6.00 U	6.00 U	5.00 U	5.00 U
BENZOTHIAZOLE	ug/l	6.00 U	6.00 U	6.00 U	5.00 U	5.00 U

SAMPLE NAME		GCSW1	GCSW2	GCSW3	GCSW5	GCSW4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSW3	
SAMPLE DEPTH		Round 1	Round 1	Round 1	Round 1	Round 1
Volatiles						
CHLOROMETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
BROMOMETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
VINYL CHLORIDE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
CHLOROETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
METHYLENE CHLORIDE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
ACETONE	ug/l	10.00 U	15.00 U	15.00 U	10.00 U	10.00 U
CARBON DISULFIDE	ug/l	10.00 U	10.00 U	3.00 J	4.00 J	10.00 U
1,1-DICHLOROETHENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,1-DICHLOROETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,2-DICHLOROETHENE (total)	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
CHLOROFORM	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,2-DICHLOROETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-BUTANONE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,1,1-TRICHLOROETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
CARBON TETRACHLORIDE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
BROMODICHLOROMETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,2-DICHLOROPROPANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
cis 1,3-DICHLOROPROPENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
TRICHLOROETHENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	1.00 J
DIBROMOCHLOROMETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,1,2-TRICHLOROETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
BENZENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
trans 1,3-DICHLOROPROPENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
BROMOFORM	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-METHYL-2-PENTANONE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-HEXANONE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
TETRACHLOROETHENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	4.00 J
1,1,2,2-TETRACHLOROETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
TOLUENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
CHLOROBENZENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
ETHYLBENZENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
STYRENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
XYLENES (total)	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U

SAMPLE NAME		GCSW1	GCSW2	GCSW3	GCSW5	GCSW4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSW3	
SAMPLE DEPTH		Round 1	Round 1	Round 1	Round 1	Round 1
Semivolatiles - Page 1						
PHENOL	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U
BIS(2-CHLOROETHYL)ETHER	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
2-CHLOROPHENOL	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U
1,3-DICHLOROBENZENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
1,4-DICHLOROBENZENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
1,2-DICHLOROBENZENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
2-METHYLPHENOL	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
4-METHYLPHENOL	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
HEXACHLOROETHANE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
NITROBENZENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
ISOPHORONE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
2-NITROPHENOL	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U
2,4-DIMETHYLPHENOL	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
2,4-DICHLOROPHENOL	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U
1,2,4-TRICHLOROBENZENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
NAPHTHALENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
4-CHLOROANILINE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
HEXACHLOROBUTADIENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
4-CHLORO-3-METHYLPHENOL	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U
2-METHYLNAPHTHALENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
HEXACHLOROCYCLOPENTADIENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
2,4,6-TRICHLOROPHENOL	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U
2,4,5-TRICHLOROPHENOL	ug/l	25.00 U	25.00 UJ	25.00 U	25.00 U	25.00 U
2-CHLORONAPHTHALENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
2-NITROANILINE	ug/l	R	25.00 UJ	25.00 U	25.00 U	25.00 U
DIMETHYLPHTHALALTE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
ACENAPHTHYLENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
2,6-DINITROTOLUENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
3-NITROANILINE	ug/l	R	25.00 UJ	25.00 U	25.00 U	25.00 U
ACENAPHTHENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U

SAMPLE NAME		GCSW1	GCSW2	GCSW3	GCSW5	GCSW4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSW3	
SAMPLE DEPTH		Round 1	Round 1	Round 1	Round 1	Round 1
Semivolatiles - Page 2						
2,4-DINITROPHENOL	ug/l	25.00 U	25.00 UJ	25.00 U	25.00 U	25.00 U
4-NITROPHENOL	ug/l	25.00 U	25.00 UJ	25.00 U	25.00 U	25.00 U
DIBENZOFURAN	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
2,4-DINITROTOLUENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
DIETHYLPHTHALATE	ug/l	R	10.00 UJ	10.00 U	10.00 U	1.00 J
4-CHLOROPHENYL-PHENYLETHER	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
FLUORENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
4-NITROANILINE	ug/l	R	25.00 UJ	25.00 U	25.00 U	25.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/l	25.00 U	25.00 UJ	25.00 U	25.00 U	25.00 U
N-NITROSODIPHENYLAMINE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
4-BROMOPHENYL-PHENYLETHER	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
HEXACHLOROBENZENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
PENTACHLOROPHENOL	ug/l	25.00 U	25.00 UJ	25.00 U	25.00 U	25.00 U
PHENANTHRENE	ug/l	1.00 J	10.00 UJ	10.00 U	10.00 U	10.00 U
ANTHRACENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
CARBAZOLE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
DI-N-BUTYLPHTHALATE	ug/l	R	10.00 UJ	10.00 U	1.00 J	10.00 U
FLUORANTHENE	ug/l	3.00 J	10.00 UJ	10.00 U	10.00 U	10.00 U
PYRENE	ug/l	2.00 J	10.00 UJ	10.00 U	10.00 U	10.00 U
BUTYLBENZYLPHTHALATE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
3,3'-DICHLOROBENZIDINE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
BENZO(A)ANTHRACENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
CHRYSENE	ug/l	1.00 J	10.00 UJ	10.00 U	10.00 U	10.00 U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	10.00 UJ	10.00 UJ	10.00 U	10.00 U	10.00 U
DI-N-OCTYLPHTHALATE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
BENZO(B)FLUORANTHENE	ug/l	2.00 J	10.00 UJ	10.00 U	10.00 U	10.00 U
BENZO(K)FLUORANTHENE	ug/l	1.00 J	10.00 UJ	10.00 U	10.00 U	10.00 U
BENZO(A)PYRENE	ug/l	1.00 J	10.00 UJ	10.00 U	10.00 U	10.00 U
INDENO(1,2,3-CD)PYRENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
DIBENZO(A,H)ANTHRACENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U
BENZO(G,H,I)PERYLENE	ug/l	R	10.00 UJ	10.00 U	10.00 U	10.00 U

SAMPLE NAME		GCSW1	GCSW2	GCSW3	GCSW5	GCSW4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSW3	
SAMPLE DEPTH		Round 1	Round 1	Round 1	Round 1	Round 1
Pesticides/PCBs						
ALPHA-BHC	ug/l	0.01 J	0.01 J	0.02 J	0.01 J	0.01 J
BETA-BHC	ug/l	0.05 NJ	0.12	0.15	0.11	0.11
DELTA-BHC	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEPTACHLOR	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ALDRIN	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEPTACHLOR EPOXIDE	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ENDOSULFAN I	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
DIELDRIN	ug/l	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	ug/l	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	ug/l	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN II	ug/l	0.01 J	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD	ug/l	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	ug/l	0.03 J	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	ug/l	R	0.10 U	0.10 U	0.10 U	0.10 U
METHOXYCHLOR	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
ENDRIN KETONE	ug/l	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	ug/l	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALPHA-CHLORDANE	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
GAMMA-CHLORDANE	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
TOXAPHENE	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
AROCLOR 1016	ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
AROCLOR 1221	ug/l	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
AROCLOR 1232	ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
AROCLOR 1242	ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
AROCLOR 1248	ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
AROCLOR 1254	ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
AROCLOR 1260	ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U

SAMPLE NAME		GCSW1		GCSW2		GCSW3		GCSW5		GCSW4	
SAMPLE DATE		08/25/95		08/24/95		08/24/95		08/24/95		08/24/95	
TEXT 001		BACKGROUND						Dup of GCSW3			
SAMPLE DEPTH		Round 1		Round 1		Round 1		Round 1		Round 1	
Inorganic Analytes											
ALUMINUM	ug/l	143,000.00		72,500.00		22,400.00		38,300.00		4,380.00	
ANTIMONY	ug/l	17.60	BNJ	15.70	BNJ	12.80	UNJ	12.80	UNJ	12.80	UNJ
ARSENIC	ug/l	38.40		13.90		6.10	B	8.90	B	3.80	U
BARIUM	ug/l	1,140.00	EJ	599.00	EJ	254.00	EJ	386.00	EJ	89.00	BE
BERYLLIUM	ug/l	6.90	J	3.30	BJ	1.00	BJ	1.80	BJ	0.40	U
CADMIUM	ug/l	9.50	J	4.90	UJ	4.90	UJ	4.90	UJ	4.90	UJ
CALCIUM	ug/l	538,000.00	EJ	297,000.00	EJ	172,000.00	EJ	210,000.00	EJ	106,000.00	EJ
CHROMIUM	ug/l	1,250.00		289.00		87.10		156.00		59.90	
COBALT	ug/l	90.20		44.50	B	15.60	B	27.80	B	5.90	U
COPPER	ug/l	428.00	EJ	130.00	EJ	42.20	EJ	75.20	EJ	10.70	BE
IRON	ug/l	179,000.00	EJ	90,700.00	EJ	27,300.00	EJ	48,100.00	EJ	4,810.00	EJ
LEAD	ug/l	1,250.00		190.00		59.00		112.00		7.80	J
MAGNESIUM	ug/l	191,000.00	EJ	85,600.00	EJ	52,000.00	EJ	63,100.00	EJ	25,100.00	EJ
MANGANESE	ug/l	3,970.00		1,710.00		710.00		1,220.00		418.00	
MERCURY	ug/l	5.50		1.00		0.42		0.63		0.20	U
NICKEL	ug/l	271.00	J	102.00	J	35.10	B	58.60		9.50	U
POTASSIUM	ug/l	29,000.00	EJ	18,500.00	EJ	9,140.00	EJ	12,400.00	EJ	4,430.00	BE
SELENIUM	ug/l	10.50	J	4.20	B	3.60	U	5.00	B	3.60	U
SILVER	ug/l	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
SODIUM	ug/l	490,000.00	E*J	410,000.00	E*J	384,000.00	E*J	410,000.00	E*J	154,000.00	E*J
THALLIUM	ug/l	4.70	U	4.70	U	4.70	U	4.70	U	4.70	U
VANADIUM	ug/l	294.00	EJ	133.00	EJ	43.30	BE	73.20	EJ	11.30	BE
ZINC	ug/l	7,530.00		1,820.00		580.00		1,050.00		113.00	
CYANIDE	ug/l	10.00	U	10.00	U	10.00	U	10.00	U	10.00	U

SAMPLE NAME		GCSW1-B	GCSW2-B	GCSW3-B	GCSW5-B	GCSW4-B	GCSW6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSW3-B		
SAMPLE DEPTH		Round 2	Round 2	Round 2	Round 2	Round 2	Round 2
Targeted SemiVolatiles							
PHENYL ISOTHIOCYANATE	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
DIPHENYLAMINE	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-ANILINOBENZOTHIAZOLE	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
PERYLENE	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
ANILINE	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
PHENOTHIAZINE	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
BENZOTHIAZOLE	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

SAMPLE NAME		GCSW1-B	GCSW2-B	GCSW3-B	GCSW5-B	GCSW4-B	GCSW6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSW3-B		
SAMPLE DEPTH		Round 2	Round 2	Round 2	Round 2	Round 2	Round 2
Volatiles							
CHLOROMETHANE	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U	10.00 U
BROMOMETHANE	ug/l	10.00 U	10.00 U	10.00 UJ	10.00 UJ	10.00 UJ	10.00 UJ
VINYL CHLORIDE	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U	10.00 U
CHLOROETHANE	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U	10.00 U
METHYLENE CHLORIDE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
ACETONE	ug/l	10.00 UJ	10.00 UJ	10.00 U	10.00 U	10.00 U	10.00 U
CARBON DISULFIDE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,1-DICHLOROETHENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,1-DICHLOROETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,2-DICHLOROETHENE (total)	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
CHLOROFORM	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,2-DICHLOROETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
2-BUTANONE	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U	10.00 U
1,1,1-TRICHLOROETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
CARBON TETRACHLORIDE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
BROMODICHLOROMETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,2-DICHLOROPROPANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
cis 1,3-DICHLOROPROPENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
TRICHLOROETHENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
DIBROMOCHLOROMETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
1,1,2-TRICHLOROETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
BENZENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
trans 1,3-DICHLOROPROPENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
BROMOFORM	ug/l	10.00 UJ	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
4-METHYL-2-PENTANONE	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U	10.00 U
2-HEXANONE	ug/l	10.00 U	10.00 UJ	10.00 U	10.00 U	10.00 U	10.00 U
TETRACHLOROETHENE	ug/l	10.00 U	10.00 U	2.00 J	2.00 J	4.00 J	9.00 J
1,1,2,2-TETRACHLOROETHANE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
TOLUENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
CHLOROBENZENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
ETHYLBENZENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
STYRENE	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U
XYLENES (total)	ug/l	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U	10.00 U

SAMPLE NAME		GCSW1-B	GCSW2-B	GCSW3-B	GCSW5-B	GCSW4-B	GCSW6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSW3-B		
SAMPLE DEPTH		Round 2	Round 2	Round 2	Round 2	Round 2	Round 2
Semivolatiles - Page 1							
PHENOL	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
BIS(2-CHLOROETHYL)ETHER	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
2-CHLOROPHENOL	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
1,3-DICHLOROBENZENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
1,4-DICHLOROBENZENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
1,2-DICHLOROBENZENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
2-METHYLPHENOL	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
4-METHYLPHENOL	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
HEXACHLOROETHANE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
NITROBENZENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
ISOPHORONE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
2-NITROPHENOL	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
2,4-DIMETHYLPHENOL	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
2,4-DICHLOROPHENOL	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
1,2,4-TRICHLOROBENZENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
NAPHTHALENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
4-CHLOROANILINE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
HEXACHLOROBUTADIENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
4-CHLORO-3-METHYLPHENOL	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
2-METHYLNAPHTHALENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
HEXACHLOROCYCLOPENTADIENE	ug/l	32.00 U	31.00 U	31.00 U	32.00 U	35.00 U	32.00 U
2,4,6-TRICHLOROPHENOL	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
2,4,5-TRICHLOROPHENOL	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
2-CHLORONAPHTHALENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
2-NITROANILINE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
DIMETHYLPHTHALALTE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
ACENAPHTHYLENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
2,6-DINITROTOLUENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
3-NITROANILINE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
ACENAPHTHENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U

SAMPLE NAME		GCSW1-B	GCSW2-B	GCSW3-B	GCSW5-B	GCSW4-B	GCSW6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSW3-B		
SAMPLE DEPTH		Round 2	Round 2	Round 2	Round 2	Round 2	Round 2
Semivolatiles - Page 2							
2,4-DINITROPHENOL	ug/l	32.00 U	31.00 U	31.00 U	32.00 U	35.00 U	32.00 U
4-NITROPHENOL	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
DIBENZOFURAN	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
2,4-DINITROTOLUENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
DIETHYLPHTHALATE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
FLUORENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
4-NITROANILINE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/l	32.00 U	31.00 U	31.00 U	32.00 U	35.00 U	32.00 U
N-NITROSODIPHENYLAMINE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
4-BROMOPHENYL-PHENYLETHER	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
HEXACHLOROBENZENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
PENTACHLOROPHENOL	ug/l	8.10 U	7.80 U	7.80 U	7.90 U	8.70 U	8.10 U
PHENANTHRENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
ANTHRACENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
CARBAZOLE	ug/l	NA	NA	NA	NA	NA	NA
DI-N-BUTYLPHTHALATE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
FLUORANTHENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	0.20 J	4.00 U
PYRENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
BUTYLBENZYLPHTHALATE	ug/l	4.00 U	3.90 U	3.90 U	0.20 J	4.40 U	4.00 U
3,3'-DICHLOROBENZIDINE	ug/l	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
CHRYSENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
DI-N-OCTYLPHTHALATE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
BENZO(B)FLUORANTHENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	0.20 J	4.00 U
BENZO(K)FLUORANTHENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
BENZO(A)PYRENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
INDENO(1,2,3-CD)PYRENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
DIBENZO(A,H)ANTHRACENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U
BENZO(G,H,I)PERYLENE	ug/l	4.00 U	3.90 U	3.90 U	4.00 U	4.40 U	4.00 U

ABSENCE OF SAMPLE DATA:
N/A - The compound or analyte was not analyzed.

SAMPLE NAME		GCSW1-B	GCSW2-B	GCSW3-B	GCSW5-B	GCSW4-B	GCSW6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSW3-B		
SAMPLE DEPTH		Round 2	Round 2	Round 2	Round 2	Round 2	Round 2
Pesticides/PCBs							
ALPHA-BHC	ug/l	0.10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
BETA-BHC	ug/l	0.10 U	0.11 J	0.10 J	0.12 J	0.07 J	0.06 J
DELTA-BHC	ug/l	0.10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	ug/l	0.10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEPTACHLOR	ug/l	0.10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ALDRIN	ug/l	0.10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEPTACHLOR EPOXIDE	ug/l	0.10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ENDOSULFAN I	ug/l	0.10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
DIELDRIN	ug/l	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	ug/l	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	ug/l	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN II	ug/l	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD	ug/l	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	ug/l	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	ug/l	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
METHOXYCHLOR	ug/l	1.00 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
ENDRIN KETONE	ug/l	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	ug/l	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALPHA-CHLORDANE	ug/l	0.10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
GAMMA-CHLORDANE	ug/l	0.10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
TOXAPHENE	ug/l	10.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
AROCLOR 1016	ug/l	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
AROCLOR 1221	ug/l	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
AROCLOR 1232	ug/l	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
AROCLOR 1242	ug/l	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
AROCLOR 1248	ug/l	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
AROCLOR 1254	ug/l	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
AROCLOR 1260	ug/l	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

SAMPLE NAME		GCSW1-B	GCSW2-B	GCSW3-B	GCSW5-B	GCSW4-B	GCSW6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSW3-B		
SAMPLE DEPTH		Round 2	Round 2	Round 2	Round 2	Round 2	Round 2
Inorganic Analytes							
ALUMINUM	ug/l	291.0	309.0	205.0	220.0	1650.0	539.0
ANTIMONY	ug/l	60.0 U	60.0 U	60.0 U	60.0 U	60.0 U	60.0 U
ARSENIC	ug/l	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
BARIUM	ug/l	200.0 U	200.0 U	200.0 U	200.0 U	200.0 U	200.0 U
BERYLLIUM	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
CADMIUM	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
CALCIUM	ug/l	105000.0	103000.0	103000.0	100000.0	99000.0	1114000.0
CHROMIUM	ug/l	27.0	11.0	12.0	10.0 U	13.0	139.0
COBALT	ug/l	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
COPPER	ug/l	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
IRON	ug/l	492.0	566.0	347.0	366.0	2710.0	836.0
LEAD	ug/l	3.0 U	3.0 U	3.0 U	3.0 U	8.5	3.0 U
MAGNESIUM	ug/l	35000.0	36000.0	35000.0	34000.0	32000.0	30000.0
MANGANESE	ug/l	35.0	46.0	36.0	36.0	171.0	44.0
MERCURY	ug/l	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
NICKEL	ug/l	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U
POTASSIUM	ug/l	5000.0 U	5000.0 U	5000.0 U	5000.0 U	5000.0 U	5000.0 U
SELENIUM	ug/l	8.4	8.1	8.7	8.2	9.0	9.1
SILVER	ug/l	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
SODIUM	ug/l	162000.0	133000.0	128000.0	126000.0	99000.0	102000.0
THALLIUM	ug/l	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
VANADIUM	ug/l	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
ZINC	ug/l	54.0	48.0	42.0	42.0	79.0	48.0
CYANIDE	ug/l	10.3	10.0 U	12.0	10.9	10.0 U	13.6

SURFACE WATER ALKALINITY, HARDNESS, AND TOTAL DISSOLVED SOLIDS
FOREST GLEN SITE
NIAGARA FALLS, NEW YORK

Sample Location	Alkalinity (mg/l)		Hardness[1] (mg/l)		Total Dissolved Solids (mg/l)(%)	
	Round 1	Round 2	Round 1	Round 2	Round 1	Round 2
Surface Water						
GCSW2	165	200	540 J	388	1760	867
GCSW3	171	200	672 J	340	1850	753
GCSW4	163	170	480 J	376	878	608
GCSW5[2]	173	190	680 J	352	1740	729
GCSW6	-	140	-	364	-	591
Background						
GCSW1	270	210	1480 J	384	1400	903
Maximum Value[3]	173	200	680 J	388	1850	867
Minimum Value[3]	163	140	480 J	352	878	591
Arithmetic Mean[3]	167	176	565 J	369	1478	702

[1] Measured as calcium carbonate.
[2] Duplicate of GCSW3. Averaged value used for the calculation of the mean.
[3] Not including background location value.
- Not analyzed or sampled not collected.

AOC4 - EAST GILL CREEK
SEDIMENT DATA

SAMPLE NAME		GCSD1	GCSD2	GCSD3	GCSD5	GCSD4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSD3	
SAMPLE DEPTH		0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1
Conventinal Parameters						
pH	units	6.80	6.90	6.90	6.70	6.80
SULFIDE	mg/kg	828.00	447.00	54.40	30.50	35.70
TOTAL ORGANIC CARBON	mg/kg	118,000.00	66,600.00	34,600.00	41,800.00	40,500.00
TOTAL SOLIDS	%	24.40	35.80	55.10	56.00	56.10
TOTAL SOILDS (EXTENDED)	%	27.80	38.10	57.70	54.00	57.90
ALKALINITY	mg/l					
AMMONIA	mg/l					
BOD	mg/l					
COD	mg/l					
TOTAL DISSOLVD SOLIDS	mg/l					
HARDNESS	mg/l					
NITRATE/NITRITE	mg/l					
TOTAL KJELDAHL NITROGEN	mg/l					

SAMPLE NAME		GCSD1	GCSD2	GCSD3	GCSD5	GCSD4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSD3	
SAMPLE DEPTH		0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1
Grain Analysis						
GRAVEL	%	4.20 J	0.00 J	15.50 J	10.60 J	0.00 J
SAND (A) COARSE	%	5.80	0.20	4.20	5.70	0.60
SAND (B) MEDIUM	%	2.80	0.10	1.80	3.10	2.20
SAND (C) FINE	%	4.20	0.90	6.20	7.10	15.70
SAND (D) FINE	%	0.90	0.30	1.10	1.30	3.80
SILTS/CLAYS (<0.075 MM)	%					
SILT (A)	%	27.40	15.10	22.10	21.40	16.30
SILT (B)	%	16.50	19.00	10.70	9.90	15.40
CLAY	%	17.10	28.70	14.10	18.90	17.80
COLLOIDS	%	15.80	35.60	25.80	27.60	28.30
TOTALS FOR GROUP		94.70	99.90	101.50	105.60	100.10

SAMPLE NAME		GCSD1	GCSD2	GCSD3	GCSD5	GCSD4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSD3	
SAMPLE DEPTH		0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1
Targeted SemiVolatiles						
PHENYL ISOTHIOCYANATE	ug/kg	600.00 UJ	400.00 UJ	300.00 U	300.00 U	300.00 U
DIPHENYLAMINE	ug/kg	600.00 UJ	400.00 UJ	300.00 U	300.00 U	300.00 U
2-MERCAPTOBENZOTHIAZOLE	ug/kg	600.00 UJ	400.00 UJ	300.00 U	300.00 U	2,000.00 J
2-ANILINOBENZOTHIAZOLE	ug/kg	600.00 UJ	400.00 UJ	800.00 J	300.00 U	6,000.00 DJ
PERYLENE	ug/kg	400.00 J	400.00 UJ	300.00 UJ	300.00 UJ	200.00 J
ANILINE	ug/kg	600.00 UJ	400.00 UJ	300.00 U	300.00 U	300.00 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	600.00 UJ	400.00 UJ	300.00 UJ	600.00 J	300.00 J
PHENOTHIAZINE	ug/kg	600.00 UJ	400.00 UJ	300.00 U	300.00 U	300.00 U
BENZOTHIAZOLE	ug/kg	600.00 UJ	400.00 UJ	300.00 U	300.00 U	400.00

SAMPLE NAME		GCSD1	GCSD2	GCSD3	GCSD5	GCSD4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSD3	
SAMPLE DEPTH		0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1
Volatiles						
CHLOROMETHANE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
BROMOMETHANE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
VINYL CHLORIDE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
CHLOROETHANE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
METHYLENE CHLORIDE	ug/kg	7.00 J	31.00 UJ	18.00 U	16.00 U	20.00 U
ACETONE	ug/kg	190.00 UJ	160.00 UJ	54.00 U	74.00 U	210.00
CARBON DISULFIDE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	2.00 J
1,1-DICHLOROETHENE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
1,1-DICHLOROETHANE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
1,2-DICHLOROETHENE (total)	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
CHLOROFORM	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
1,2-DICHLOROETHANE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
2-BUTANONE	ug/kg	37.00 J	28.00 J	18.00 U	16.00 J	47.00
1,1,1-TRICHLOROETHANE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
CARBON TETRACHLORIDE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
BROMODICHLOROMETHANE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
1,2-DICHLOROPROPANE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
TRICHLOROETHENE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
DIBROMOCHLOROMETHANE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
1,1,2-TRICHLOROETHANE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
BENZENE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
BROMOFORM	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
4-METHYL-2-PENTANONE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
2-HEXANONE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
TETRACHLOROETHENE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
TOLUENE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
CHLOROBENZENE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
ETHYLBENZENE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
STYRENE	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U
XYLENES (total)	ug/kg	38.00 UJ	31.00 UJ	18.00 U	16.00 U	20.00 U

SAMPLE NAME		GCSD1	GCSD2	GCSD3	GCSD5	GCSD4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSD3	
SAMPLE DEPTH		0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1
Semivolatiles - Page 1						
PHENOL	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	910.00
BIS(2-CHLOROETHYL)ETHER	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
2-CHLOROPHENOL	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
1,3-DICHLOROBENZENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
1,4-DICHLOROBENZENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
1,2-DICHLOROBENZENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
2-METHYLPHENOL	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
4-METHYLPHENOL	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	430.00 J
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
HEXACHLOROETHANE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
NITROBENZENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
ISOPHORONE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
2-NITROPHENOL	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
2,4-DIMETHYLPHENOL	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	400.00 J
BIS(2-CHLOROETHOXY)METHANE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
2,4-DICHLOROPHENOL	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
NAPHTHALENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
4-CHLOROANILINE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
HEXACHLOROBUTADIENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
2-METHYLNAPHTHALENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
2,4,6-TRICHLOROPHENOL	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	3,200.00 UJ	2,600.00 UJ	1,500.00 U	1,300.00 U	1,600.00 U
2-CHLORONAPHTHALENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
2-NITROANILINE	ug/kg	3,200.00 UJ	2,600.00 UJ	1,500.00 U	1,300.00 U	1,600.00 U
DIMETHYLPHTHALALTE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
ACENAPHTHYLENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
2,6-DINITROTOLUENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
3-NITROANILINE	ug/kg	3,200.00 UJ	2,600.00 UJ	1,500.00 U	1,300.00 U	1,600.00 U
ACENAPHTHENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	260.00 J

SAMPLE NAME		GCSD1	GCSD2	GCSD3	GCSD5	GCSD4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSD3	
SAMPLE DEPTH		0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1
Semivolatiles - Page 2						
2,4-DINITROPHENOL	ug/kg	3,200.00 UJ	2,600.00 UJ	1,500.00 U	1,300.00 U	1,600.00 U
4-NITROPHENOL	ug/kg	3,200.00 UJ	2,600.00 UJ	1,500.00 U	1,300.00 U	1,600.00 U
DIBENZOFURAN	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	110.00 J
2,4-DINITROTOLUENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
DIETHYLPHTHALATE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
FLUORENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	140.00 J
4-NITROANILINE	ug/kg	3,200.00 UJ	2,600.00 UJ	1,500.00 U	1,300.00 U	1,600.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	3,200.00 UJ	2,600.00 UJ	1,500.00 U	1,300.00 U	1,600.00 U
N-NITROSODIPHENYLAMINE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	990.00
4-BROMOPHENYL-PHENYLETHER	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
HEXACHLOROBENZENE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
PENTACHLOROPHENOL	ug/kg	3,200.00 UJ	2,600.00 UJ	1,500.00 U	1,300.00 U	1,600.00 U
PHENANTHRENE	ug/kg	960.00 J	490.00 J	140.00 J	160.00 J	1,200.00
ANTHRACENE	ug/kg	190.00 J	1,000.00 UJ	590.00 U	520.00 U	350.00 J
CARBAZOLE	ug/kg	160.00 J	1,000.00 UJ	590.00 U	520.00 U	220.00 J
DI-N-BUTYLPHTHALATE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	84.00 J	93.00 J
FLUORANTHENE	ug/kg	2,400.00 J	1,400.00 J	370.00 J	360.00 J	1,900.00
PYRENE	ug/kg	1,700.00 J	980.00 J	250.00 J	270.00 J	1,500.00
BUTYLBENZYLPHTHALATE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
3,3'-DICHLOROBENZIDINE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
BENZO(A)ANTHRACENE	ug/kg	820.00 J	470.00 J	140.00 J	150.00 J	1,000.00
CHRYSENE	ug/kg	1,400.00 J	930.00 J	230.00 J	230.00 J	1,200.00
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	700.00 J	410.00 J	140.00 J	180.00 J	370.00 J
DI-N-OCTYLPHTHALATE	ug/kg	1,300.00 UJ	1,000.00 UJ	590.00 U	520.00 U	650.00 U
BENZO(B)FLUORANTHENE	ug/kg	1,600.00 J	1,200.00 J	290.00 J	300.00 J	1,200.00
BENZO(K)FLUORANTHENE	ug/kg	1,200.00 J	750.00 J	190.00 J	190.00 J	710.00
BENZO(A)PYRENE	ug/kg	1,100.00 J	750.00 J	200.00 J	200.00 J	1,000.00
INDENO(1,2,3-CD)PYRENE	ug/kg	680.00 J	510.00 J	120.00 J	160.00 J	540.00 J
DIBENZO(A,H)ANTHRACENE	ug/kg	300.00 J	230.00 J	62.00 J	83.00 J	360.00 J
BENZO(G,H,I)PERYLENE	ug/kg	650.00 J	480.00 J	120.00 J	160.00 J	540.00 J

SAMPLE NAME		GCSD1	GCSD2	GCSD3	GCSD5	GCSD4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSD3	
SAMPLE DEPTH		0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1
Pesticides/PCBs						
ALPHA-BHC	ug/kg	3.20 J	1.90 J	1.40 J	R	R
BETA-BHC	ug/kg	41.00 J	10.00 J	10.00 J	11.00 J	15.00 J
DELTA-BHC	ug/kg	6.50 UJ	5.30 UJ	3.00 UJ	2.70 UJ	3.30 UJ
gamma-BHC (Lindane)	ug/kg	6.50 UJ	5.30 UJ	3.00 UJ	2.70 UJ	3.30 UJ
HEPTACHLOR	ug/kg	6.50 UJ	5.30 UJ	3.00 UJ	2.70 UJ	3.30 UJ
ALDRIN	ug/kg	6.50 UJ	5.30 UJ	3.00 UJ	2.70 UJ	3.30 UJ
HEPTACHLOR EPOXIDE	ug/kg	6.50 UJ	5.30 UJ	3.00 UJ	2.70 UJ	R
ENDOSULFAN I	ug/kg	6.50 UJ	5.30 UJ	3.00 UJ	2.70 UJ	3.30 UJ
DIELDRIN	ug/kg	13.00 UJ	10.00 UJ	5.90 UJ	0.94 J	6.40 UJ
4,4'-DDE	ug/kg	13.00 UJ	10.00 UJ	5.90 UJ	5.20 UJ	6.40 UJ
ENDRIN	ug/kg	13.00 UJ	10.00 UJ	R	R	6.40 UJ
ENDOSULFAN II	ug/kg	7.50 J	4.10 J	1.40 JN	1.80 J	4.80 J
4,4'-DDD	ug/kg	13.00 UJ	10.00 UJ	5.90 UJ	5.20 UJ	6.40 UJ
ENDOSULFAN SULFATE	ug/kg	13.00 J	R	3.60 J	3.30 J	11.00 J
4,4'-DDT	ug/kg	R	3.30 J	1.50 J	R	R
METHOXYCHLOR	ug/kg	65.00 UJ	53.00 UJ	30.00 UJ	27.00 UJ	33.00 UJ
ENDRIN KETONE	ug/kg	13.00 UJ	10.00 UJ	5.90 UJ	5.20 UJ	6.40 UJ
ENDRIN ALDEHYDE	ug/kg	13.00 UJ	10.00 UJ	5.90 UJ	5.20 UJ	6.40 UJ
ALPHA-CHLORDANE	ug/kg	R	5.30 UJ	R	R	3.30 UJ
GAMMA-CHLORDANE	ug/kg	5.20 J	2.80 J	R	R	3.30 UJ
TOXAPHENE	ug/kg	650.00 UJ	530.00 UJ	300.00 UJ	270.00 UJ	330.00 UJ
AROCLOR 1016	ug/kg	130.00 UJ	100.00 UJ	59.00 UJ	52.00 UJ	64.00 UJ
AROCLOR 1221	ug/kg	260.00 UJ	210.00 UJ	120.00 UJ	100.00 UJ	130.00 UJ
AROCLOR 1232	ug/kg	130.00 UJ	100.00 UJ	59.00 UJ	52.00 UJ	64.00 UJ
AROCLOR 1242	ug/kg	130.00 UJ	100.00 UJ	59.00 UJ	52.00 UJ	64.00 UJ
AROCLOR 1248	ug/kg	130.00 UJ	100.00 UJ	59.00 UJ	52.00 UJ	64.00 UJ
AROCLOR 1254	ug/kg	130.00 UJ	100.00 UJ	59.00 UJ	52.00 UJ	64.00 UJ
AROCLOR 1260	ug/kg	130.00 UJ	100.00 UJ	59.00 UJ	52.00 UJ	64.00 UJ

SAMPLE NAME		GCSD1	GCSD2	GCSD3	GCSD5	GCSD4
SAMPLE DATE		08/25/95	08/24/95	08/24/95	08/24/95	08/24/95
TEXT 001		BACKGROUND			Dup of GCSD3	
SAMPLE DEPTH		0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1	0-0.5' Round 1
Inorganic Analytes						
ALUMINUM	mg/kg	17,200.00 EJ	15,100.00 EJ	21,800.00 EJ	18,000.00 EJ	15,600.00 EJ
ANTIMONY	mg/kg	1.50 UNJ	1.10 UNJ	0.72 UNJ	0.67 UNJ	0.65 UNJ
ARSENIC	mg/kg	5.50 BJ	6.00 J	5.90 J	7.40 J	6.30 J
BARIUM	mg/kg	129.00 BEJ	112.00 BEJ	137.00 EJ	127.00 EJ	127.00 EJ
BERYLLIUM	mg/kg	0.71 BJ	0.63 BJ	0.92 B	0.79 B	0.73 B
CADMIUM	mg/kg	6.40 J	3.70 J	4.40	3.90	3.60
CALCIUM	mg/kg	60,400.00 EJ	38,700.00 EJ	24,500.00 EJ	46,800.00 EJ	20,500.00 EJ
CHROMIUM	mg/kg	122.00 J	62.70 J	59.60	46.10 J	40.30 J
COBALT	mg/kg	11.40 BJ	11.40 BJ	18.40 B	15.40 B	17.30
COPPER	mg/kg	64.10 J	35.30 J	33.20 J	27.80 J	35.30 J
IRON	mg/kg	25,600.00 J	22,200.00 J	30,700.00	27,800.00	25,500.00
LEAD	mg/kg	134.00 J	61.70 J	54.20	43.60	52.90
MAGNESIUM	mg/kg	20,500.00 EJ	11,300.00 EJ	12,700.00 EJ	20,300.00 EJ	10,300.00 EJ
MANGANESE	mg/kg	386.00 EJ	375.00 EJ	498.00 EJ	491.00 EJ	877.00 EJ
MERCURY	mg/kg	0.67 NJ	0.40 NJ	0.29 NJ	0.24 NJ	0.32 NJ
NICKEL	mg/kg	R	25.90 J	R	R	R
POTASSIUM	mg/kg	3,160.00 BEJ	2,540.00 BEJ	3,760.00 EJ	3,130.00 EJ	2,130.00 EJ
SELENIUM	mg/kg	2.80 UJ	2.10 UJ	1.40 U	1.30 UJ	1.20 UJ
SILVER	mg/kg	1.90 UJ	1.40 UJ	0.94 U	0.89 U	0.86 U
SODIUM	mg/kg	1,760.00 BEJ	1,590.00 BEJ	1,250.00 BE	1,050.00 BE	466.00 BE
THALLIUM	mg/kg	3.60 UJ	2.70 UJ	1.80 U	1.70 U	1.60 U
VANADIUM	mg/kg	33.50 BJ	26.70 BJ	38.20	32.80	30.90
ZINC	mg/kg	1,240.00 J	497.00 J	406.00	319.00	379.00
CYANIDE	mg/kg	1.90 UJ	1.40 UJ	0.88 U	0.84 U	0.83 U

SAMPLE NAME		GCSD1-B	GCSD2-B	GCSD3-B	GCSD5-B	GCSD4-B	GCSD6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSD3-B		
SAMPLE DEPTH		0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2
Targeted SemiVolatiles							
PHENYL ISOTHIOCYANATE	ug/kg	560.00 UJ	370.00 UJ	260.00 U	240.00 U	290.00 U	290.00 U
DIPHENYLAMINE	ug/kg	560.00 UJ	370.00 UJ	260.00 U	240.00 U	150.00 J	3,000.00
2-MERCAPTOBENZOTHIAZOLE	ug/kg	560.00 UJ	370.00 UJ	260.00 U	240.00 U	3,600.00 J	290.00 U
2-ANILINOBENZOTHIAZOLE	ug/kg	560.00 UJ	90.00 J	170.00 J	490.00	19,000.00 D	2,800.00
PERYLENE	ug/kg	250.00 J	160.00 J	260.00 U	240.00 UJ	310.00 J	850.00
ANILINE	ug/kg	560.00 UJ	370.00 UJ	260.00 U	240.00 U	290.00 U	290.00 U
N,N-DIPHENYL-1,4-BENZENEDIAMIN	ug/kg	560.00 UJ	370.00 UJ	260.00 UJ	240.00 UJ	1,000.00 J	81,000.00 D
PHENOTHIAZINE	ug/kg	560.00 UJ	370.00 UJ	260.00 U	240.00 U	430.00	290.00 U
BENZOTHIAZOLE	ug/kg	560.00 UJ	370.00 UJ	260.00 U	240.00 U	1,500.00	140.00 J

SAMPLE NAME		GCSD1-B	GCSD2-B	GCSD3-B	GCSD5-B	GCSD4-B	GCSD6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSD3-B		
SAMPLE DEPTH		0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2
Volatiles							
CHLOROMETHANE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
BROMOMETHANE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
VINYL CHLORIDE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
CHLOROETHANE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
METHYLENE CHLORIDE	ug/kg	29.00 UJ	10.00 J	2.00 J	15.00 U	17.00 U	5.00 J
ACETONE	ug/kg	76.00 J	25.00 UJ	R	R	39.00 J	R
CARBON DISULFIDE	ug/kg	3.00 J	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
1,1-DICHLOROETHENE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
1,1-DICHLOROETHANE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
1,2-DICHLOROETHENE (total)	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
CHLOROFORM	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
1,2-DICHLOROETHANE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
2-BUTANONE	ug/kg	29.00 UJ	25.00 UJ	16.00 UJ	15.00 UJ	17.00 UJ	17.00 UJ
1,1,1-TRICHLOROETHANE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
CARBON TETRACHLORIDE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
BROMODICHLOROMETHANE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
1,2-DICHLOROPROPANE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
cis 1,3-DICHLOROPROPENE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
TRICHLOROETHENE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
DIBROMOCHLOROMETHANE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
1,1,2-TRICHLOROETHANE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
BENZENE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
trans 1,3-DICHLOROPROPENE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
BROMOFORM	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
4-METHYL-2-PENTANONE	ug/kg	29.00 UJ	25.00 UJ	16.00 UJ	15.00 UJ	17.00 UJ	17.00 UJ
2-HEXANONE	ug/kg	29.00 UJ	25.00 UJ	16.00 UJ	15.00 UJ	17.00 UJ	17.00 UJ
TETRACHLOROETHENE	ug/kg	5.00 J	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
1,1,2,2-TETRACHLOROETHANE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
TOLUENE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
CHLOROBENZENE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
ETHYLBENZENE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
STYRENE	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U
XYLENES (total)	ug/kg	29.00 UJ	25.00 UJ	16.00 U	15.00 U	17.00 U	17.00 U

SAMPLE NAME		GCSD1-B	GCSD2-B	GCSD3-B	GCSD5-B	GCSD4-B	GCSD6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSD3-B		
SAMPLE DEPTH		0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2
Semivolatiles - Page 1							
PHENOL	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	5,500.00	610.00 J
BIS(2-CHLOROETHYL)ETHER	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
2-CHLOROPHENOL	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
1,3-DICHLOROBENZENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
1,4-DICHLOROBENZENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
1,2-DICHLOROBENZENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
2-METHYLPHENOL	ug/kg	1,100.00 U	790.00 U	600.00 U	1,300.00	52.00 J	280.00 J
BIS(2-CHLOROISOPROPYL)ETHER	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
4-METHYLPHENOL	ug/kg	60.00 J	790.00 U	600.00 U	530.00 U	480.00 J	640.00 U
N-NITROSO-DI-N-PROPYLAMINE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
HEXACHLOROETHANE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
NITROBENZENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
ISOPHORONE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	110.00 J	640.00 U
2-NITROPHENOL	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
2,4-DIMETHYLPHENOL	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	85.00 J	640.00 U
BIS(2-CHLOROETHOXY)METHANE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
2,4-DICHLOROPHENOL	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
1,2,4-TRICHLOROBENZENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	31.00 J	640.00 U
NAPHTHALENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	140.00 J	640.00 U
4-CHLOROANILINE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
HEXACHLOROBUTADIENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
4-CHLORO-3-METHYLPHENOL	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
2-METHYLNAPHTHALENE	ug/kg	210.00 J	790.00 U	600.00 U	530.00 U	260.00 J	640.00 U
HEXACHLOROCYCLOPENTADIENE	ug/kg	2,300.00 U	1,600.00 U	1,200.00 U	1,100.00 U	1,200.00 U	1,300.00 U
2,4,6-TRICHLOROPHENOL	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
2,4,5-TRICHLOROPHENOL	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
2-CHLORONAPHTHALENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
2-NITROANILINE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
DIMETHYLPHTHALALTE	ug/kg	1,100.00 U	790.00 U	88.00 J	62.00 J	47.00 J	640.00 U
ACENAPHTHYLENE	ug/kg	110.00 J	790.00 U	600.00 U	530.00 U	30.00 J	140.00 J
2,6-DINITROTOLUENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
3-NITROANILINE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
ACENAPHTHENE	ug/kg	110.00 J	790.00 U	600.00 U	530.00 U	86.00 J	640.00 U

SAMPLE NAME		GCSD1-B	GCSD2-B	GCSD3-B	GCSD5-B	GCSD4-B	GCSD6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSD3-B		
SAMPLE DEPTH		0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2
Semivolatiles - Page 2							
2,4-DINITROPHENOL	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
4-NITROPHENOL	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
DIBENZOFURAN	ug/kg	91.00 J	790.00 U	600.00 U	530.00 U	200.00 J	640.00 U
2,4-DINITROTOLUENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
DIETHYLPHTHALATE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
4-CHLOROPHENYL-PHENYLETHER	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
FLUORENE	ug/kg	130.00 J	790.00 U	33.00 J	530.00 U	84.00 J	640.00 U
4-NITROANILINE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
4,6-DINITRO-2-METHYLPHENOL	ug/kg	2,300.00 U	1,600.00 U	1,200.00 U	1,100.00 U	1,200.00 U	1,300.00 U
N-NITROSODIPHENYLAMINE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	170.00 J	640.00 U
4-BROMOPHENYL-PHENYLETHER	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
HEXACHLOROBENZENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
PENTACHLOROPHENOL	ug/kg	9,100.00 U	6,300.00 U	4,800.00 U	4,200.00 U	4,800.00 U	5,100.00 U
PHENANTHRENE	ug/kg	1,200.00	240.00 J	240.00 J	210.00 J	1,200.00	590.00 J
ANTHRACENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	190.00 J
CARBAZOLE	ug/kg	NA	NA	NA	NA	NA	NA
DI-N-BUTYLPHTHALATE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
FLUORANTHENE	ug/kg	2,600.00	520.00 J	350.00 J	330.00 J	1,300.00	1,100.00
PYRENE	ug/kg	2,200.00	450.00 J	280.00 J	270.00 J	840.00	850.00
BUTYLBENZYLPHTHALATE	ug/kg	270.00 J	790.00 U	52.00 J	73.00 J	600.00 U	640.00 U
3,3'-DICHLOROBENZIDINE	ug/kg	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	470.00 J	500.00 J
CHRYSENE	ug/kg	1,100.00 U	420.00 J	260.00 J	240.00 J	790.00	640.00 J
BIS(2-ETHYLHEXYL)PHTHALATE	ug/kg	1,100.00 U	790.00 U	600.00 U	530.00 U	600.00 U	640.00 U
DI-N-OCTYLPHTHALATE	ug/kg	84.00 J	620.00 J	44.00 J	100.00 J	600.00 U	640.00 U
BENZO(B)FLUORANTHENE	ug/kg	2,700.00	530.00 J	600.00 U	270.00 J	620.00	770.00
BENZO(K)FLUORANTHENE	ug/kg	800.00 J	180.00 J	270.00 J	100.00 J	600.00 U	320.00 J
BENZO(A)PYRENE	ug/kg	1,700.00	320.00 J	210.00 J	200.00 J	340.00 J	550.00 J
INDENO(1,2,3-CD)PYRENE	ug/kg	1,900.00	330.00 J	170.00 J	160.00 J	240.00 J	430.00 J
DIBENZO(A,H)ANTHRACENE	ug/kg	360.00 J	69.00 J	68.00 J	530.00 U	74.00 J	110.00 J
BENZO(G,H,I)PERYLENE	ug/kg	1,700.00	30.00 J	180.00 J	170.00 J	220.00 J	3,400.00 J

ABSENCE OF SAMPLE DATA:
N/A - The compound or analyte was not analyzed.

SAMPLE NAME		GCSD1-B	GCSD2-B	GCSD3-B	GCSD5-B	GCSD4-B	GCSD6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSD3-B		
SAMPLE DEPTH		0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2
Pesticides/PCBs							
ALPHA-BHC	ug/kg	4.60 U	3.40 U	2.40 U	2.60 U	2.70 U	2.60 U
BETA-BHC	ug/kg	4.60 U	3.40 U	2.40 U	2.60 U	2.70 U	2.60 U
DELTA-BHC	ug/kg	4.60 U	3.40 U	2.40 U	2.60 U	2.70 U	2.60 U
gamma-BHC (Lindane)	ug/kg	4.60 U	3.40 U	2.40 U	2.60 U	2.70 U	2.60 U
HEPTACHLOR	ug/kg	4.60 U	3.40 U	2.40 U	2.60 U	2.70 U	2.60 U
ALDRIN	ug/kg	4.60 U	3.40 U	2.40 U	2.60 U	2.70 U	2.60 U
HEPTACHLOR EPOXIDE	ug/kg	4.60 U	3.40 U	2.40 U	2.60 U	2.70 U	2.60 U
ENDOSULFAN I	ug/kg	4.60 U	3.40 U	2.40 U	2.60 U	2.70 U	2.60 U
DIELDRIN	ug/kg	8.90 U	6.60 U	4.60 U	5.00 U	5.30 U	5.00 U
4,4'-DDE	ug/kg	8.90 U	6.60 U	4.60 U	5.00 U	5.30 U	5.00 U
ENDRIN	ug/kg	8.90 U	6.60 U	4.60 U	5.00 U	5.30 U	5.00 U
ENDOSULFAN II	ug/kg	8.90 U	6.60 U	4.60 U	5.00 U	5.30 U	5.00 U
4,4'-DDD	ug/kg	8.90 U	6.60 U	4.60 U	5.00 U	17.50 J	5.00 U
ENDOSULFAN SULFATE	ug/kg	8.90 U	6.60 U	4.60 U	5.00 U	5.30 U	5.00 U
4,4'-DDT	ug/kg	8.90 U	6.60 U	4.60 U	5.00 U	5.30 U	5.00 U
METHOXYCHLOR	ug/kg	46.00 U	34.00 U	24.00 U	26.00 U	27.00 U	26.00 U
ENDRIN KETONE	ug/kg	8.90 U	6.60 U	4.60 U	5.00 U	5.30 U	5.00 U
ENDRIN ALDEHYDE	ug/kg	8.90 U	6.60 U	4.60 U	5.00 U	5.30 U	5.00 U
ALPHA-CHLORDANE	ug/kg	4.60 U	3.40 U	2.40 U	2.60 U	2.70 U	2.60 U
GAMMA-CHLORDANE	ug/kg	4.60 U	3.40 U	2.40 U	2.60 U	2.70 U	2.60 U
TOXAPHENE	ug/kg	459.00 U	340.00 U	238.00 U	255.00 U	272.00 U	255.00 U
AROCLOR 1016	ug/kg	89.00 U	66.00 U	46.00 U	50.00 U	53.00 U	50.00 U
AROCLOR 1221	ug/kg	181.00 U	134.00 U	94.00 U	101.00 U	107.00 U	101.00 U
AROCLOR 1232	ug/kg	89.00 U	66.00 U	46.00 U	50.00 U	53.00 U	50.00 U
AROCLOR 1242	ug/kg	89.00 U	66.00 U	46.00 U	50.00 U	53.00 U	50.00 U
AROCLOR 1248	ug/kg	89.00 U	66.00 U	46.00 U	50.00 U	53.00 U	50.00 U
AROCLOR 1254	ug/kg	89.00 U	66.00 U	46.00 U	50.00 U	53.00 U	50.00 U
AROCLOR 1260	ug/kg	89.00 U	66.00 U	46.00 U	50.00 U	53.00 U	50.00 U

SAMPLE NAME		GCSD1-B	GCSD2-B	GCSD3-B	GCSD5-B	GCSD4-B	GCSD6-B
SAMPLE DATE		11/10/95	11/10/95	11/09/95	11/09/95	11/09/95	11/09/95
TEXT 001		BACKGROUND			Dup of GCSD3-B		
SAMPLE DEPTH		0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2	0-0.5' Round 2
Inorganic Analytes							
ALUMINUM	mg/kg	12,100.00	17,400.00	19,900.00	23,800.00	14,800.00	8,220.00
ANTIMONY	mg/kg	19.00 U	13.00 U	9.00 U	9.00 U	10.00 U	11.00 U
ARSENIC	mg/kg	5.20 J	26.80 J	5.20	4.60	5.40	23.90 J
BARIUM	mg/kg	134.00	140.00	145.00	192.00	128.00	97.00
BERYLLIUM	mg/kg	1.60 U	1.10 U	0.70 U	0.90	0.90 U	0.90 U
CADMIUM	mg/kg	1.80	1.10 U	0.70 U	0.80 U	0.90 U	0.90 U
CALCIUM	mg/kg	61,000.00	43,100.00	19,600.00	27,400.00	25,800.00	128,000.00
CHROMIUM	mg/kg	123.00	82.00	37.00	49.00	42.00	100.00
COBALT	mg/kg	16.00 U	14.00	16.00	18.00	21.00	9.00 U
COPPER	mg/kg	69.00	42.00	28.00	29.00	39.00	30.00
IRON	mg/kg	20,300.00	32,500.00	35,100.00	39,100.00	29,000.00	13,900.00
LEAD	mg/kg	282.00	65.00	32.00	30.00	39.00	50.00
MAGNESIUM	mg/kg	18,700.00	12,900.00	11,100.00	17,900.00	8,720.00	55,200.00
MANGANESE	mg/kg	388.00	557.00	832.00	869.00	1,290.00	560.00
MERCURY	mg/kg	1.50 J	0.57 J	0.33	0.24	0.29	0.40
NICKEL	mg/kg	27.00	30.00	31.00	33.00	29.00	17.00
POTASSIUM	mg/kg	1,590.00 U	2,180.00	2,440.00	3,430.00	1,740.00	1,270.00
SELENIUM	mg/kg	1.60 U	1.10 U	0.70 U	0.80 U	0.90 U	0.90 U
SILVER	mg/kg	3.20 U	2.20 U	1.50 U	1.60 U	1.70 U	1.80 U
SODIUM	mg/kg	1,590.00 U	1,080.00 U	739.00 U	791.00 U	863.00 U	897.00 U
THALLIUM	mg/kg	3.20 U	2.20 U	1.50 U	1.60 U	1.70 U	1.80 U
VANADIUM	mg/kg	28.00	35.00	37.00	44.00	33.00	16.00
ZINC	mg/kg	77.00	394.00	129.00	125.00	199.00	340.00
CYANIDE	mg/kg	1.59 U	1.08 U	0.74 U	0.79 U	0.86 U	0.90 U

APPENDIX K

CONTINUED IN VOLUME III