HYDROGEOLOGIC INVESTIGATION

CERRO CONDUIT SITE

SYOSSET, N.Y.

DECEMBER 1987

H2M **HOLZMACHER, McLENDON and MURRELL, P.C.**
Consulting Engineers, Environmental Scientists, Architects and Planners
Melville, N.Y. **Riverhead, N.Y.** **Fairfield, N.J.**

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HYDROGEOLOGIC INVESTIGATION

CERRO CONDUIT SITE

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DECEMBER 1987

1.0 - INTRODUCTION

1.1 - Background

The "Cerro Conduit Site", as referred to in this report, is the location where the Cerro Conduit Company operated a copper rolling, drawing and extruding facility in Syosset, N.Y. The facility had employed up to 100 people. The site is no longer owned by Cerro Conduit Company and no other manufacturing activity has occurred at the site since the plant closed in 1986.

The current owners of the property have initiated this study to determine the nature and extent of groundwater contamination that may have occurred due to the former activities of Cerro Conduit Co. and/or neighboring land users. The Cerro Conduit Co. has initiated an independent investigation of possible soil contamination. By prior agreement, any soil contamination existing on-site will be remediated by the Cerro Conduit Co.

The initial work plan for this project was prepared by Eldon Associates, Inc. of Great Neck, N.Y. The work plan for the second round of groundwater sampling procedures was developed by H2M.

1.2 - Site Description

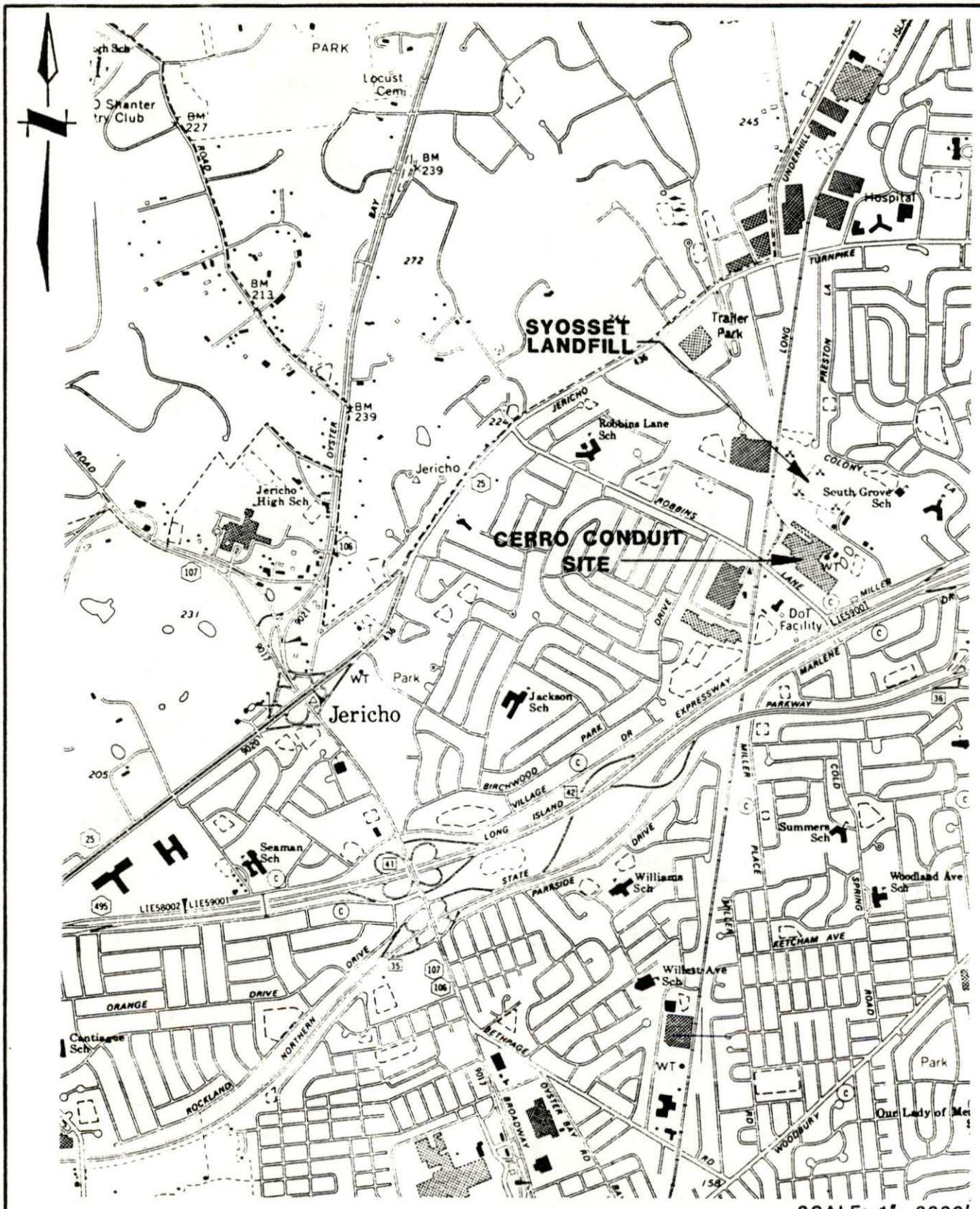
The Cerro Conduit site is located along Robbins Lane and Miller Place in Syosset, New York. It is bounded on the north by an inactive landfill and on the west by the Long Island Rail Road (Figure 1). The total area of the site is approximately 40 acres.

The site is currently listed as a Class 4 site on the New York State Department of Environmental Conservation (NYSDEC) list of inactive hazardous waste disposal sites. A Class 4 site is defined as a site that has been properly closed, but requires continued management.

The aforementioned landfill, north of the site, is known as the Syosset Landfill and is listed on the United States Environmental Protection Agency's (USEPA) National Priorities List (NPL) of uncontrolled hazardous waste sites. It is also classified a Class 2 site on the NYSDEC list of inactive hazardous waste disposal sites. A Class 2 site is defined as a site that requires action and presents a significant threat to the public health or environment.

The entire Cerro Conduit site is now commercially inactive, although most pre-existing structures are still intact and in good condition. In addition to the buildings and warehouses on site, there is also an access track to the Long Island Rail Road, a Long Island Lighting Company electrical substation, a large industrial water tower and two high-capacity water supply wells.

FIGURE 1



LOCATION MAP

CERRO CONDUIT SITE
SYOSSET, NEW YORK

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1.3 - Regional Geology and Hydrogeology

The geology of the Syosset area can be described as consisting of unconsolidated deposits of Late Cretaceous, Pleistocene and Recent age which mantle crystalline bedrock. The bedrock is composed of rocks of Pre-Cambrian age and slopes slightly to the southeast. The bedrock surface is about 1000 feet below grade.

Directly on top of the bedrock lies the Lloyd aquifer, which consists of beds of fine to coarse quartzose sand and gravel, generally in a clayey matrix, with interbedded lenses of sandy clay and clay. The thickness of this formation varies from 150 feet in the northwest part of Nassau County to up to 400 feet in the southeastern region of the county. The Lloyd aquifer is an artesian aquifer, being confined by the overlying Raritan clay, with a horizontal permeability of 500 to 1000 gallons per day (gpd) per square foot.

The Raritan clay is approximately 150 feet thick and consists mostly of clay, sandy clay and silt. This formation has a very low permeability and acts as an effective confining layer on the Lloyd aquifer.

On top of the Raritan clay lies the Magothy aquifer, which consists of sand, gravel, silt and clay. The saturated thickness of the Magothy aquifer in the vicinity of the study site is approximately 520 feet (USGS Professional Paper 627-E, 1972). Throughout the Magothy formation are lenses of clay which can locally divert groundwater flow or perch water above the clay lenses in otherwise unsaturated areas. The transmissivity of the

Magothy aquifer in the vicinity of the study area is approximately 270,400 gallons/day/foot and the horizontal hydraulic conductivity is about 520 gallons/day/square foot (Woodward-Clyde, 1977). Approximately 90 percent of the water pumped for public water supply in Nassau County is from the Magothy aquifer.

The uppermost deposits are the Upper Pleistocene deposits which range up to more than 100 feet thick in some areas of Nassau County. This formation is the result of the latest glaciation and consists of stratified sand and gravel on glacial outwash. These Upper Glacial deposits, where saturated, were considered an important source of drinking water for Long Island until deteriorating water quality restricted its use in many areas.

Recent studies on the hydrogeologic regime of the study area indicate that the Cerro Conduit site is situated directly above a main groundwater divide of the Magothy aquifer (ERM-Northeast, 1983). This would be an area of significant recharge to middle and lower portions of the aquifer, as well as an area characterized by variable horizontal groundwater flow direction, dependent on seasonal conditions.

2.0 - SITE INVESTIGATIONS

2.1 - Boring and Monitoring Well Installation Program

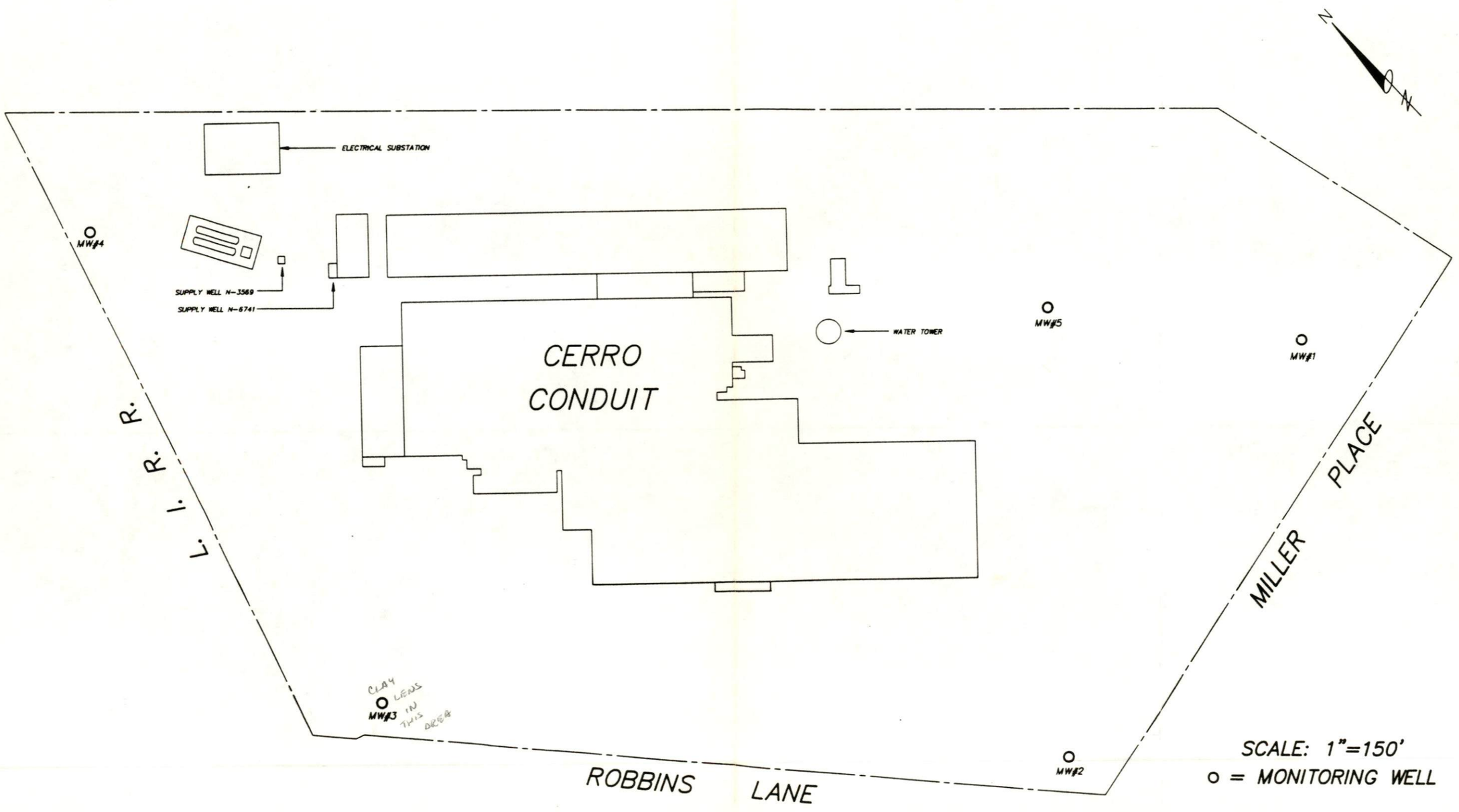
Four on-site monitoring wells were installed for this study during July/August 1987. A pre-existing monitoring well (MW #5), installed under the supervision of a geologist from H2M during October/November 1984, was also utilized in this investigation. Figure 2, Site Plan, shows the locations of each well/boring.

Preceding installation of the four monitoring wells, split-spoon soil samples were collected from the boreholes at five-foot intervals through the unconsolidated sediments. The purpose of collecting split-spoon soil samples was to evaluate the subsurface geology and retrieve samples for laboratory analysis. The vapors from each soil sample were monitored with an HNu photoionization meter to screen the samples for any high concentrations of volatile organic contamination. No significant readings were obtained.

Following completion of the four soil borings, the boreholes were reamed wider with a 6-1/4 inch I.D. hollow-stem auger. A groundwater monitoring well was constructed in each borehole. All the sediment removed from the boreholes as a result of drilling was placed in 55-gallon drums pending laboratory results on soil quality. Each drum was labeled indicating boring number and stored next to the respective borehole.

The construction method used to install the four monitoring wells consisted of drilling a borehole to the desired depth with a hollow stem auger, then placing the well casing and screen

SITE PLAN AND MONITORING WELL LOCATIONS



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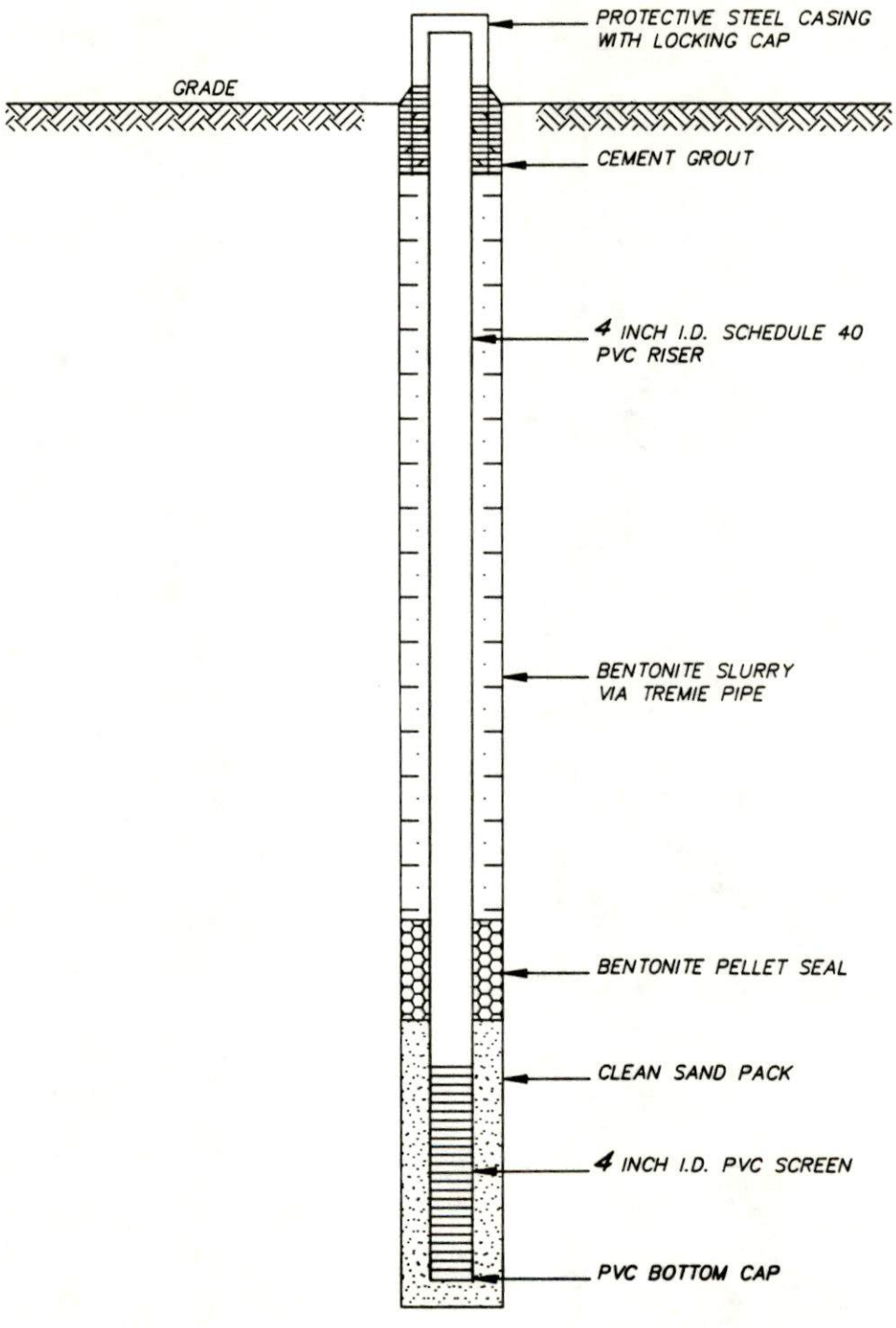
through the hollow stem. The casing and screen consists of Schedule 40, 4-inch diameter, flush-joint, threaded PVC casing and ten feet of #20 slot, 4-inch PVC screen. The drilling crew attempted to target each well depth approximately 15 feet below the water table. The annular space between the augers and well casing/screen was filled with a clean silica sand pack to a height of two feet above the screened zone. Above the sand pack, a two-foot bentonite pellet seal was placed. A tremie pipe was then used to emplace the bentonite slurry seal. The surface seal consists of a cement grout, which also secures the steel protective casing (Figure 3). Each of the PVC well casings was sealed with a vented PVC well cap.

Well construction details of each new monitoring well, and the pre-existing on-site monitoring well, are tabulated in Table 1. Included in the table is the depth of the screened zones and measuring point reference elevations, from which depth to water measurements are subtracted to determine groundwater elevations.

Following the installation of all four wells, each well was developed by pumping with a portable, low capacity, submersible pump. The primary purpose of the well development was to remove fine sediments from within and around the well screen. All the water removed from the wells was pumped into 55-gallon drums pending laboratory results on groundwater quality. Each drum was labeled indicating well number and stored next to the respective well.

FIGURE 3



OVERBURDEN WELL
SECTION VIEW
(NO SCALE)

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TABLE 1

MONITORING WELL DETAILS

WELL NO.	DIAMETER (INCHES)	DEPTH OF SCREENED ZONE (FEET)	GROUND ELEVATION (FEET)*	MEASURING POINT ELEVATION (FEET)*
1	4	83 - 93	170.20	171.51
2	4	95 - 105	176.61	177.81
3	4	100 - 110	187.56	188.26
4	4	113 - 123	191.36	191.85
5 (pre-existing)	4	120 - 130	181.50	182.40

*All elevations are in feet above mean sea level.

2.2 - Soil Sampling

A total of 76 split-spoon sediment samples were collected during the drilling of the four monitoring wells. Of these samples, 32 were submitted for laboratory analysis. The first sample at each location was collected from 5 - 6.5 feet below grade. Samples were collected at five-foot intervals thereafter until a saturated sample was recovered near the water table surface.

As well MW #1 was located in an area where a sludge lagoon previously existed, each of the 17 samples collected at this location were submitted for laboratory analysis. At each of the other three locations, only five samples were submitted for laboratory analysis. These included the last unsaturated sample from the borehole and four samples at ten-foot intervals above the last unsaturated sample. This protocol was chosen because this sediment, if contaminated, would pose the most immediate threat to the groundwater underlying the site.

WASTE OF TIME

The soil samples were analyzed for E.P. Toxicity metals (As, Ba, Cd, Cr (total), Pb, Se, Ag and Hg), copper, zinc and nickel after extraction, and total cyanide and volatile organic contaminants. The laboratory results are presented in Section 3.3.

2.3 - Groundwater Sampling

Groundwater sampling was conducted on three separate occasions, August 28, October 19 and December 2, 1987. The August 28th sampling episode was conducted by J. Angyal of H2M and C. Nehrig of NYTEST Environmental, Inc. These samples were analyzed

at NYTEST. The October 29th and December 2nd sampling events were conducted by H2M personnel and those samples were analyzed by H2M Labs, Inc.

Prior to each sampling eposode, the pH, temperature and conductivity probes were calibrated. Additionally, the water level probe was cleaned with detergent and distilled water before introduction into each well.

Immediately after opening each well, the water level probe was lowered into the well and the depth to water measurement was recorded. A summary of all depth to water measurements and water table elevations is shown in Table 2. The depth to water measurement was used to calculate the static water volume in each well and the volume of water that must be purged from each well before sampling. Each well was then purged for the amount of time necessary to comply with USEPA Publication SW-611, Part 6.2.1, "Sampling Withdrawal Methods", which states a minimum of three well volumes of water must be removed from a well to ensure that the sample is representative of water from the aquifer. A portable, low capacity (10 gpm) submersible pump was used to purge each well. The pump was cleaned with detergent and distilled water before introduction into each well.

Following purging, the samples collected on August 28, 1987, hereafter referred to as the "round one samples", were collected using dedicated teflon bailers supplied by NYTEST and dedicated, clean (non-cotton) cord. The teflon bailers were cleaned with distilled water, detergent, 10 percent nitric acid and acetone, with distilled water rinses between the acid and acetone rinses.

TABLE 2 : WATER TABLE ELEVATIONS

WELL #	REFERENCE ELEVATION	8/21/87 DEPTH TO WATER	8/21/87 WATER TABLE ELEVATION	8/28/87 DEPTH TO WATER	8/28/87 WATER TABLE ELEVATION	9/14/87 DEPTH TO WATER	9/14/87 WATER TABLE ELEVATION	9/28/87 DEPTH TO WATER	9/28/87 WATER TABLE ELEVATION	10/29/87 DEPTH TO WATER	10/29/87 WATER TABLE ELEVATION	12/2/87 DEPTH TO WATER	12/2/87 WATER TABLE ELEVATION	12/14/87 DEPTH TO WATER	12/14/87 WATER TABLE ELEVATION
1	171.51	88.72	82.79	88.85	82.66	89.06	82.45	89.20	82.31	89.60	81.91	90.03	81.48	90.13	81.38
2	177.81	95.44	82.37	95.61	82.20	95.79	82.02	95.86	81.95	96.22	81.59	96.65	81.16	96.74	81.07
3	188.26	95.40	92.86	95.70	92.56	95.66	92.60	95.70	92.56	95.70	92.56	95.73	92.53	95.67	92.59
4	191.85*	110.75	81.10	110.69	81.16	109.52	81.88	109.65	81.75	109.86	81.54	109.65	81.75	109.97	81.43
5	182.40	99.89	82.51	100.02	82.38	100.15	82.25	100.32	82.08	100.60	81.80	100.99	81.41	101.02	81.38

* REFERENCE ELEVATION = 191.4 AFTER 8/28/87 DUE TO SLIGHT DAMAGE TO RISER CAP

ALL ELEVATIONS ARE IN FEET (MSL)

The samples collected on October 29 and December 2, 1987, hereafter referred to as the "round two samples", were collected following the same procedures as followed during round one, with the exceptions that stainless steel bailers were used and that methanol was used in place of acetone to clean the bailers.

After the appropriate laboratory cleaned sample containers were filled, field testing was performed on the groundwater. The three parameters measured in the field were pH, temperature and specific conductivity. Temperature was measured immediately, as it is subject to the most rapid change due to atmospheric conditions. pH and specific conductivity were measured with electronic probes (Appendix C).

The samples collected on August 28 and October 29, 1987 were accompanied by a field bailer blank and trip blank for quality assurance/quality control (QA/QC) purposes. These blanks monitor the integrity of the transport and sampling methodologies.

3.0 - FINDINGS

3.1 - Geology/Stratigraphy

According to boring logs recorded by Soil Mechanics Drilling Corp. (Appendix B), the Upper Glacial aquifer is not saturated within the study site, and each well is screened in the Magothy aquifer. The Magothy formation was encountered at depths ranging from 55 feet below grade (wells MW #1 and MW #2) to 85 feet below grade (well MW #4).

One of the most significant features of the stratigraphy encountered during drilling is a clay lens discovered at well MW #3. The lens is at least 35 feet thick at this location, but apparently not contiguous throughout the site. Clay lenses are found throughout the Magothy formation, and can locally divert groundwater flow or result in perched water in otherwise unsaturated areas. The geohydrologic implications of this clay lens are discussed in Section 3.2.

The coarsest deposits were found near the surface at well MW #1, where "grapefruit size" cobbles and coarse gravel were encountered. Although the thickest clay layer was encountered below well MW #3, thinner silt and/or clay layers were indicated at various levels, from split-spoon samples at each of the well locations.

3.2 - Hydrogeology

The flow of water through the unconsolidated deposits encountered during drilling can be divided into two main classes:

(1) the flow through the unsaturated deposits, or "vadose zone;" and (2) the flow through the main water-bearing unit, which is the Magothy aquifer.

The intermittent flow through the vadose zone is essentially vertical, except where lenses of low permeability sediment, such as clay, can cause local perching or horizontal diversion of the flow.

The flow through the Magothy aquifer has both a horizontal and vertical component. Based on water levels measured on six separate occasions, the slope of the water table surface ranged from .0009 to .0002 in the direction of flow (Figures 4, 5, 6, 7, 8 and 9). Well couplets or cluster wells, screened at varying depths in the aquifer, would be required to quantify the site-specific vertical gradient.

Published hydrogeologic data indicate that the Cerro Conduit site is situated on a drainage divide of the Magothy aquifer. The approximate location of the divide is shown in Figure 11. Although the vertical component of on-site flow has not been quantified, this would be an area of significant vertical flow, as well as an area susceptible to seasonal and artificially induced variations in flow direction because of the presence of the divide.

The velocity of groundwater movement in the direction of flow will vary considerably as a function of the sediment it encounters. However, the average horizontal component of the flow velocity can be estimated, based on published values of hydraulic conductivity of the Magothy aquifer. Assuming a local hydraulic

Field Blank
Sample No.
6-25-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. Field Blank 6-25 QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	2U	15.	Mercury	.13U
4.	Barium	100U	16.	Nickel	15U
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	3U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	10U	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	1U	24.	Zinc	2U

Cyanide _____ Percent Solids (1) _____

ICP Interelement and background corrections applied? Yes _____ No _____.

If yes, corrections applied before _____ or after _____ generation of raw data.

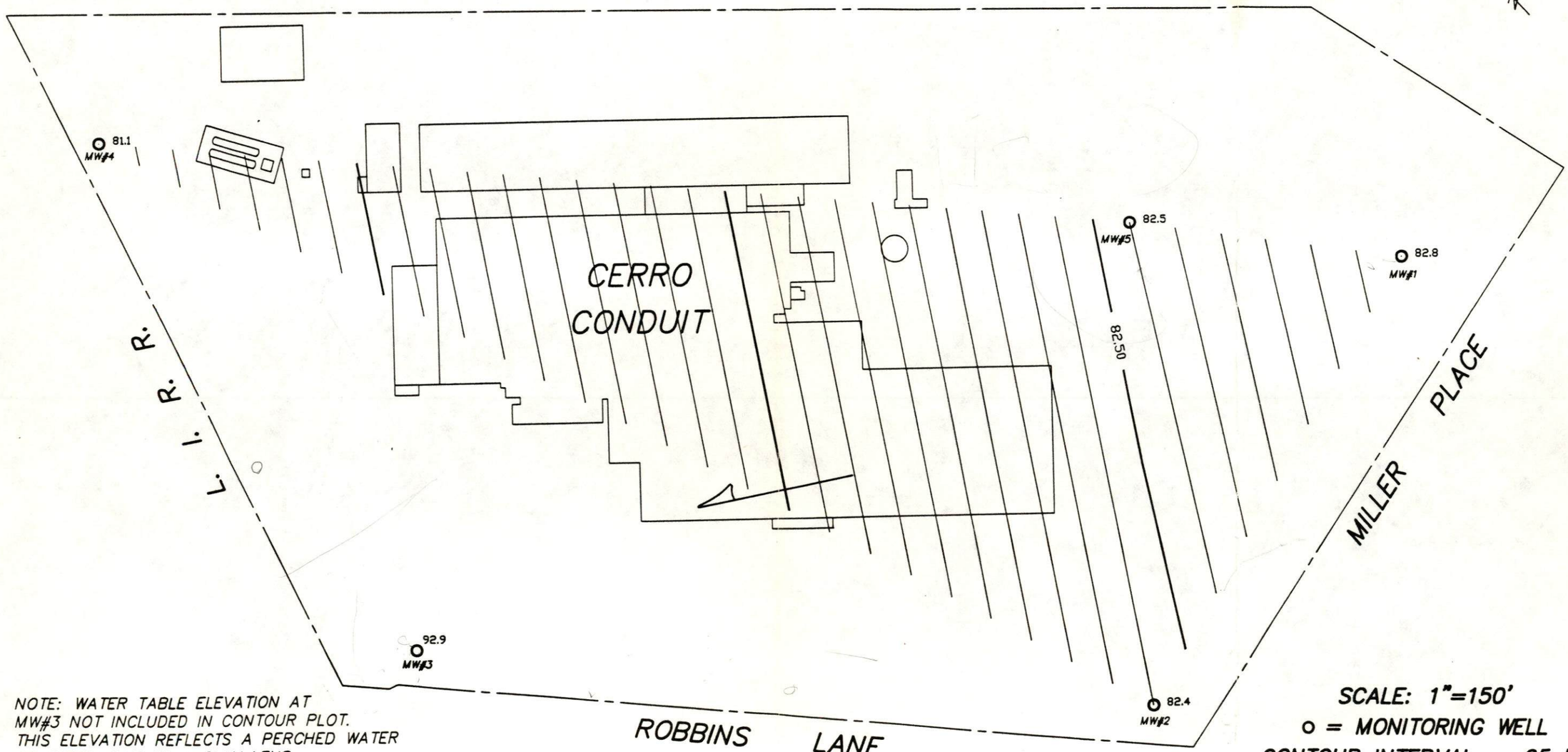
Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar eencouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

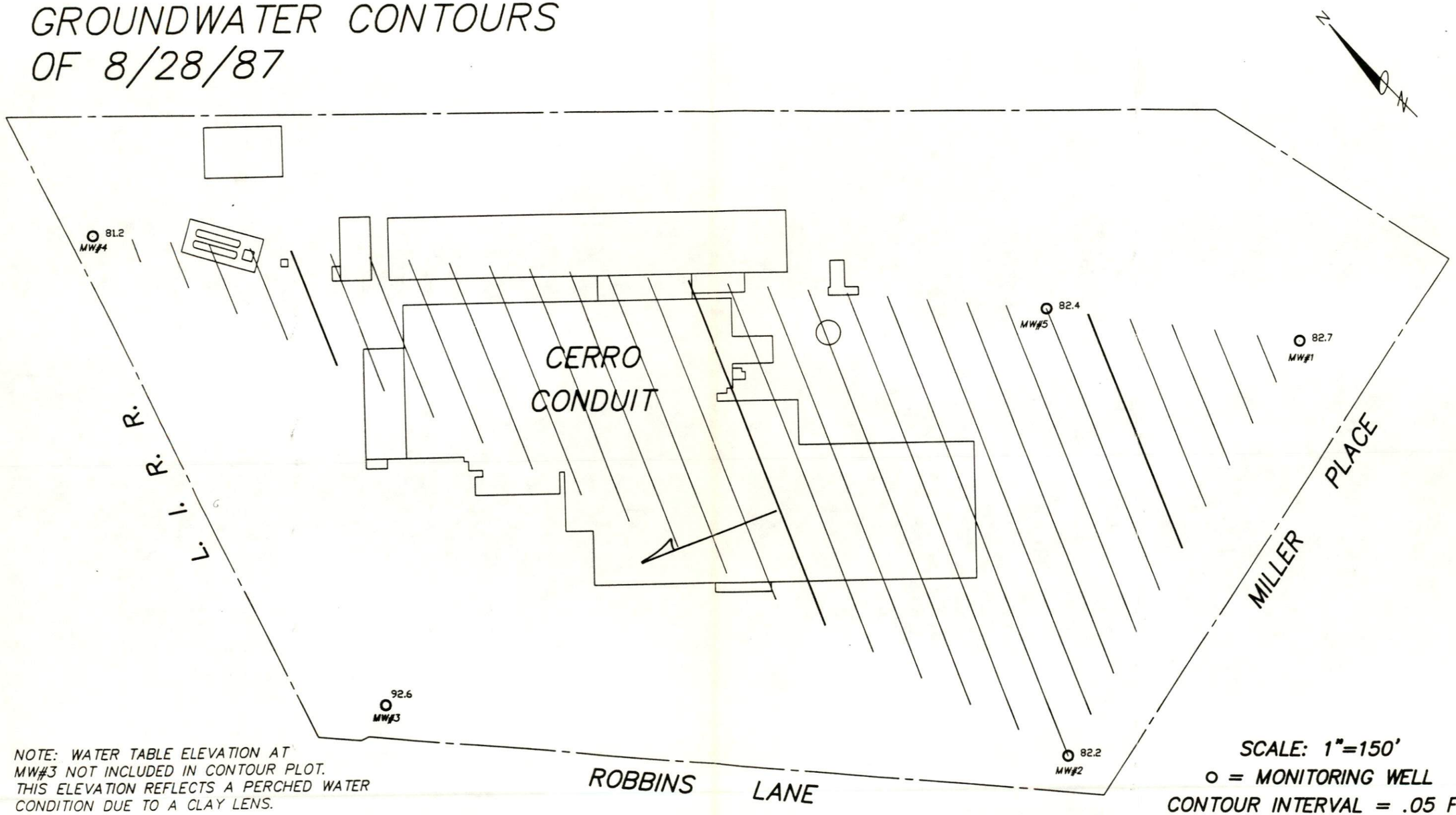
MAGOTHY AQUIFER GROUNDWATER CONTOURS OF 8/21/87



NOTE: WATER TABLE ELEVATION AT MW#3 NOT INCLUDED IN CONTOUR PLOT. THIS ELEVATION REFLECTS A PERCHED WATER CONDITION DUE TO A CLAY LENS.

SCALE: 1"=150'
o = MONITORING WELL
CONTOUR INTERVAL = .05 FT

MAGOTHY AQUIFER GROUNDWATER CONTOURS OF 8/28/87



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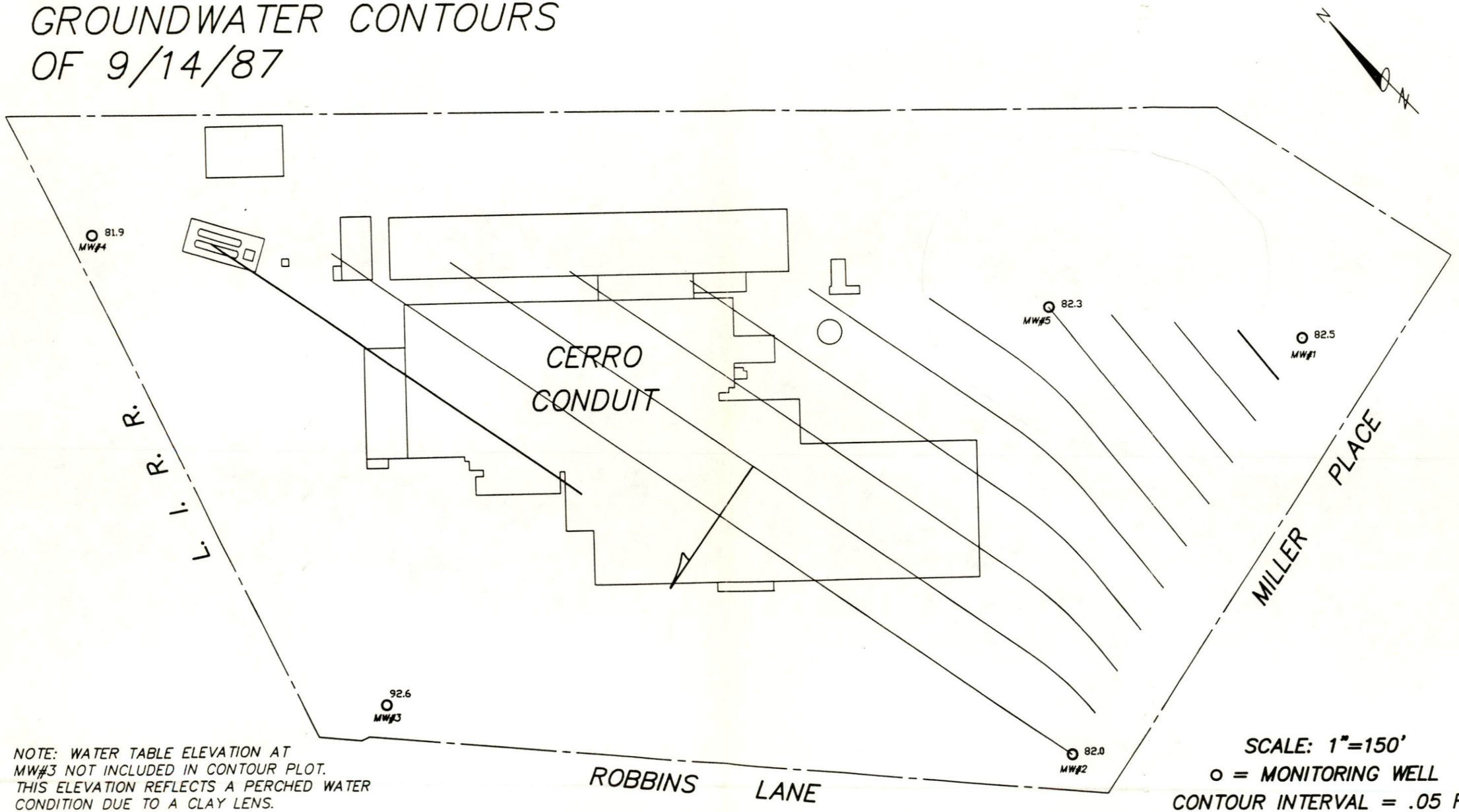
SCALE: 1"=150'
o = MONITORING WELL
CONTOUR INTERVAL = .05 FT

MAGOTHY AQUIFER GROUNDWATER CONTOURS OF 9/14/87



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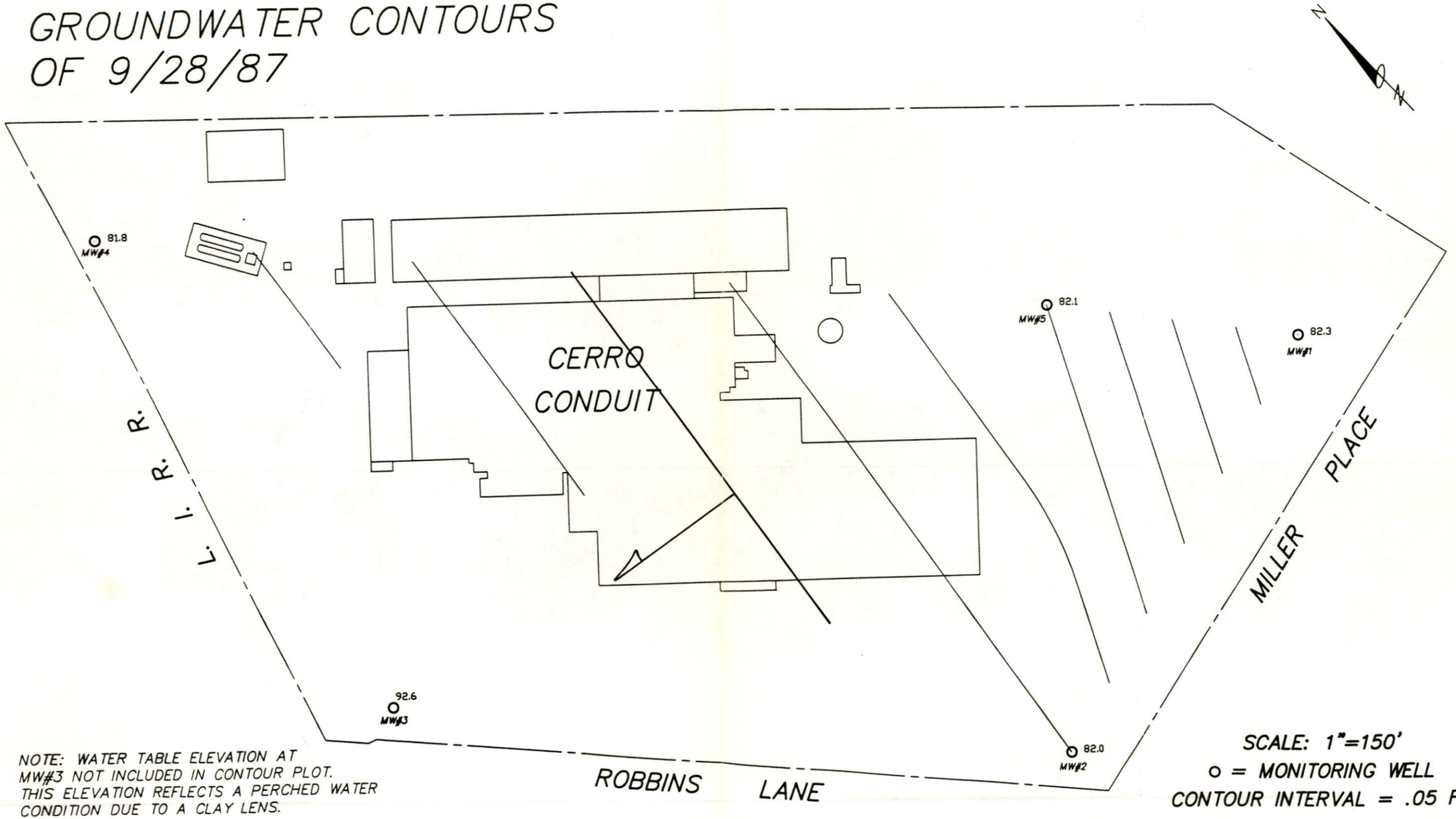
MAGOTHY AQUIFER GROUNDWATER CONTOURS OF 9/28/87



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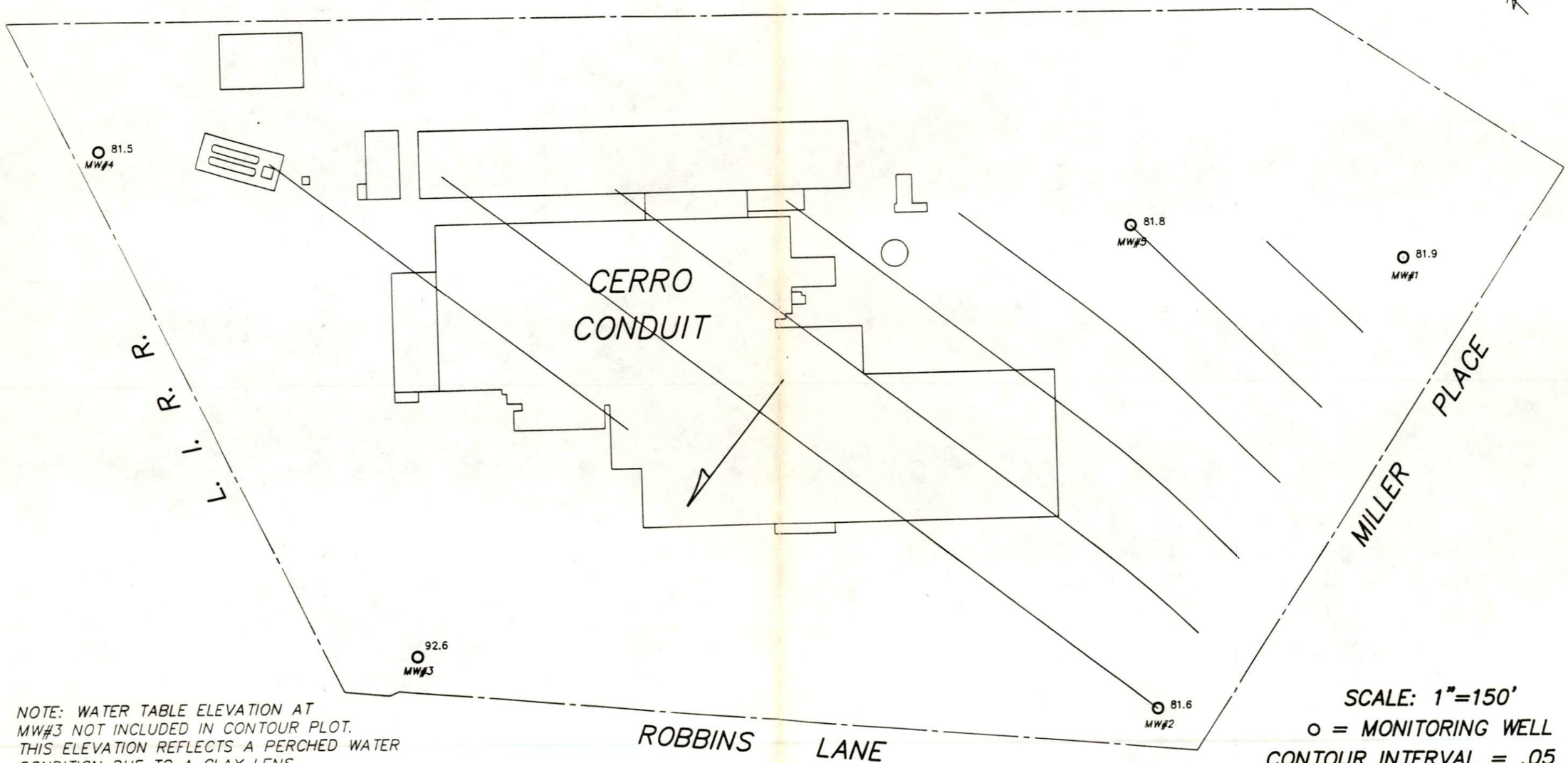
SCALE: 1"=150'
o = MONITORING WELL
CONTOUR INTERVAL = .05 FT

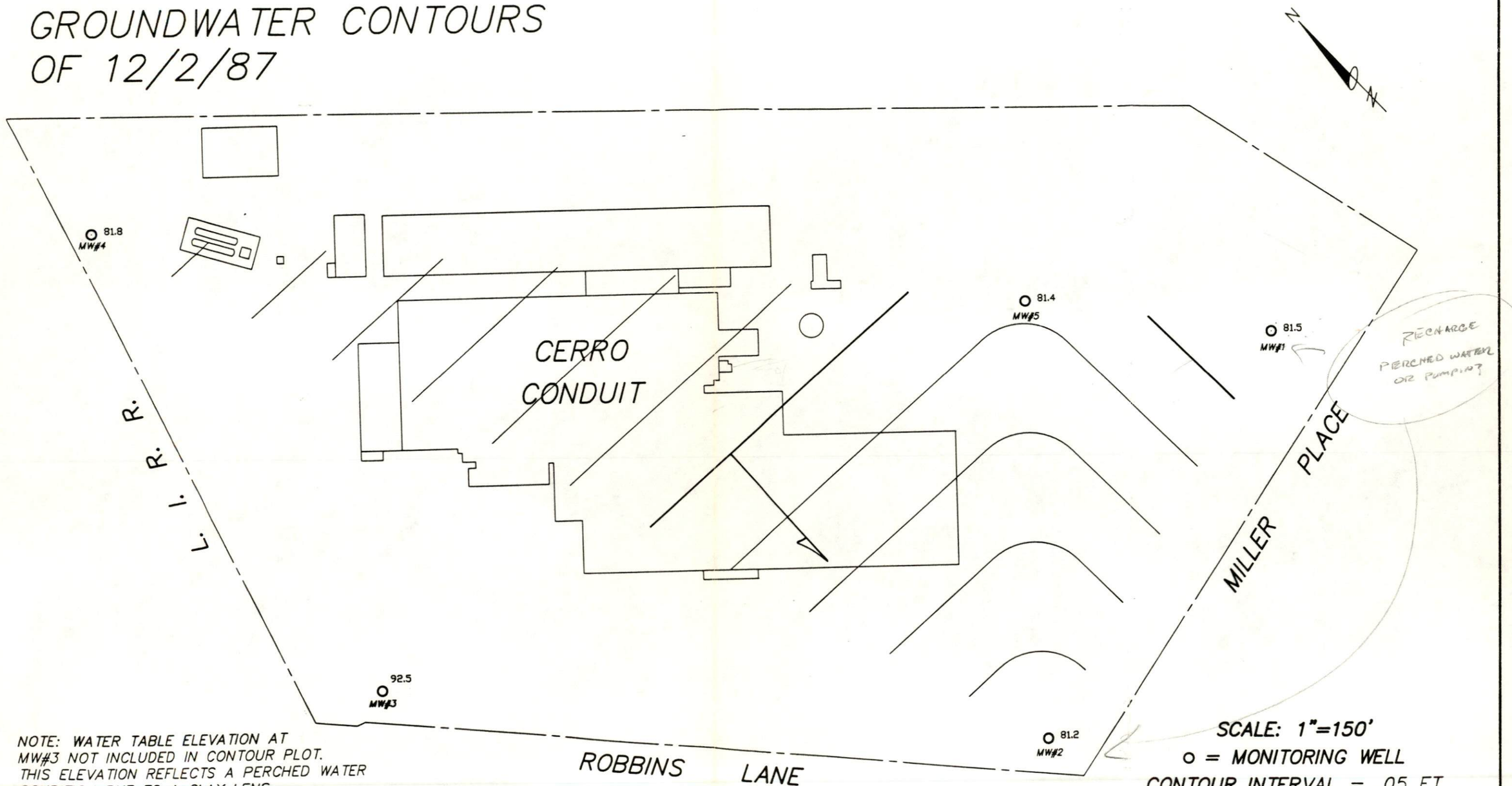
MAGOTHY AQUIFER GROUNDWATER CONTOURS OF 10/29/87



NOTE: WATER TABLE ELEVATION AT MW#3 NOT INCLUDED IN CONTOUR PLOT. THIS ELEVATION REFLECTS A PERCHED WATER CONDITION DUE TO A CLAY LENS.

SCALE: 1"=150'
o = MONITORING WELL
CONTOUR INTERVAL = .05 FT

MAGOTHY AQUIFER GROUNDWATER CONTOURS OF 12/2/87



NOTE: WATER TABLE ELEVATION AT MW#3 NOT INCLUDED IN CONTOUR PLOT. THIS ELEVATION REFLECTS A PERCHED WATER CONDITION DUE TO A CLAY LENS.

SCALE: 1"=150'
o = MONITORING WELL
CONTOUR INTERVAL = .05 FT

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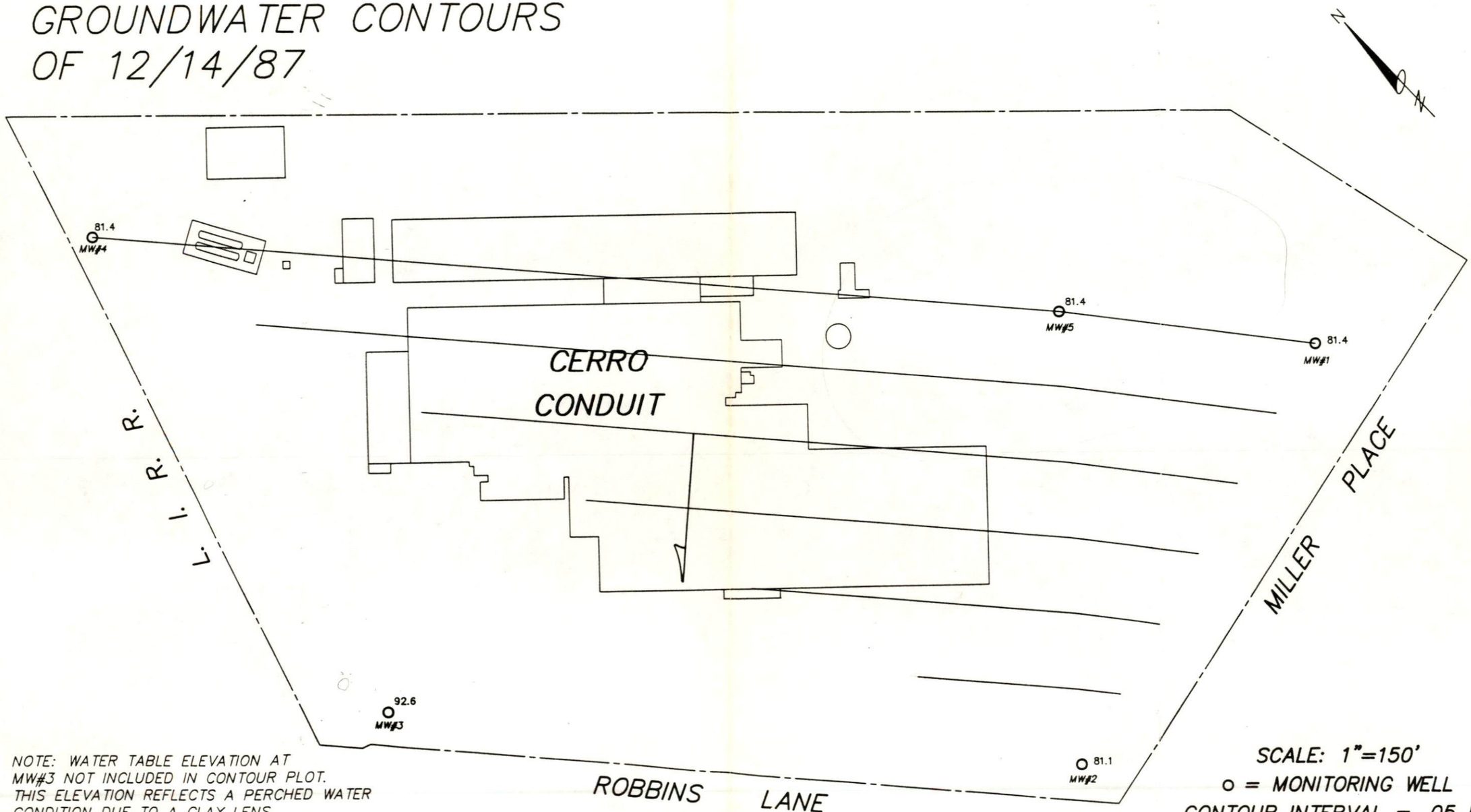
MAGOTHY AQUIFER GROUNDWATER CONTOURS OF 12/14/87



NOTE: WATER TABLE ELEVATION AT MW#3 NOT INCLUDED IN CONTOUR PLOT. THIS ELEVATION REFLECTS A PERCHED WATER CONDITION DUE TO A CLAY LENS.

SCALE: 1"=150'
o = MONITORING WELL
CONTOUR INTERVAL = .05 FT

conductivity for the Magothy of 520 gals/day/square foot, an average porosity of 30%, and a measured on-site hydraulic gradient of .0006, the horizontal flow velocity is approximately 50 feet/year or 1.6 inches/day.

A study of the adjacent Syosset Landfill presented a range of vertical velocities, based on published and site-specific data of from .11 feet/day to .0000001 foot/day (ERM-Northeast, 1983).

3.3 - Soil Quality

A total of 32 split-spoon soil samples were analyzed for volatile organic compounds (Method 8240, SW-846 Test Methods for Evaluating Solid Waste). Table 3 presents a summary of the results of the volatile organic analyses. Low concentrations of acetone, trichloroethene, 1,1,1-trichloroethane, 2-butanone, toluene and methylene chloride were quantified in the soil samples. However, comparable concentrations of acetone, toluene and methylene chloride were found in the "blanks", indicating these contaminants may not in fact be present in the on-site soils. Acetone was probably used by the drillers as a solvent to decontaminate the split-spoon sampler between samples. Its presence in the field blank confirms that residual concentrations remained on the split-spoon sampler when the clean field blank water was run over the sampler.

The three contaminants not found in QA/QC "blanks" (trichloroethene, 1,1,1-trichloroethane and 2-butanone), were found only in the soils from well MW #1. However, the concentrations found in these soils (.005 to .029 ppm) are considered low. None

TABLE 3

CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS QUANTIFIED IN SOIL SAMPLES (ppm)

WELL NUMBER	SAMPLE NUMBER	DEPTH (feet)	ACETONE	TRICHLORO-ETHENE	1,1,1-TRICHLORO-ETHANE	2-BUTANONE	TOLUENE	METHYLENE CHLORIDE
1	1	5	.014 (B)					
	2	10						.005 (B)
	3	15						.005 (B)
	4	20						.005 (B)
	5	25	.033 (B)					.017 (B)
	7	35	.020 (B)	.005				.007 (B)
	8	40						
	9	45		.005	.006			.009 (B)
	10	50	.010 (B)					.013 (B)
	11	55		.005	.009			.009 (B)
	12	60			.011			
	13	65	.036 (B)		.010		.010 (B)	.009 (B)
	14	70			.009			.023 (B)
	15	75	.088 (B)					.018 (B)
	16	80	.012 (B)			.029		.007 (B)
	17	85	.040 (B)					.022 (B)
field blank		-	.011				<.005	< .005
trip blank		-						.005
2	10	50	.017				.007 (B)	.006 (B)
	12	60	.013					.009 (B)
	14	70	.056				.008 (B)	.008 (B)
	16	80						.008 (B)
	18	90						
field blank		-					< .005	< .005
trip blank		-						.005
3	10	50	.020					.006 (B)
	12	60	.054				.005 (B)	
	14	70	.025				.005 (B)	.010 (B)
	16	80	.031				.007 (B)	.011 (B)
	18	90	.190					.021 (B)
field blank		-					< .005	< .005
trip blank		-						< .005
4	13	65	.036 (B)				.009 (B)	.007 (B)
	15	75	.012 (B)					.005 (B)
	17	85						
	19	95	.034 (B)					.010 (B)
	21	105	.125 (B)					
field blank		-	.016				.006	.006
trip blank		-	< .010				< .005	.008

NOTES:

* Compounds that may be present below the detection limit are not presented in this table.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination.

of the samples were found to exceed NYSDEC's informal action level of 10 ppm for total volatile organic contamination in soil.

Each of the soil samples were also analyzed for the metals As, Ba, Cd, Cr, Pb, Se, Ag, Hg, Cu, Zn and Ni, following the E.P. Toxicity extraction procedure. None of the concentrations were found to exceed any federal or state standards, although leachable concentrations of Ba, Pb, Cu and Ni were present throughout the soil core from well MW #1 and elsewhere at various depths in the other well borings. — could be from the white wash

In addition to metals, total cyanide concentrations were also analyzed. Cyanide was used on-site by Cerro in the manufacturing process. Detectable concentrations were found in almost one-third of the samples. However, there are no published New York State or federal criteria for acceptable concentrations in soil. For comparative purposes, it is noted that the State of New Jersey has established an action level of 12 ppm for cyanide concentration in soils. The highest concentration of cyanide found in the on-site soil was 3.8 ppm, which is below the New Jersey action level. — back ground ? detection limit ?

Table 4 summarizes the inorganic laboratory results from the soil samples collected at the site.

3.4 - Groundwater Quality

Groundwater samples were collected on three separate occasions: August 28, October 29 and December 2, 1987. Those samples collected on August 28, 1987 are presented as the "first

TABLE 4

CONCENTRATIONS (ppm) OF INORGANICS QUANTIFIED IN SOIL SAMPLES*

WELL NO.	SAMPLE NO.	DEPTH	As	Ba	Cd	Cr	Pb	Se	Ag	Hg	Cu	Zn	Ni	Cyanide
1	1	5	-	-	-	-	.025	.002	-	-	.024	.050	-	-
1	2	10	-	-	-	-	.035	.003	-	-	.022	.063	-	-
1	3	15	-	-	-	-	.021	.002	-	-	.039	.072	-	-
1	4	20	-	-	-	-	.022	.008	-	-	.062	.195	.034	-
1	5	25	-	-	-	-	.021	.002	-	-	.047	.133	-	.460
1	6	30	-	-	-	-	.075	-	-	-	.028	.084	-	-
1	7	35	-	-	-	-	.026	-	-	-	.020	.067	-	.460
1	8	40	-	.210	-	.011	.142	-	-	-	.075	.159	.038	-
1	9	45	.004	-	-	-	.019	.002	-	-	.074	.197	.031	-
1	10	50	.002	-	-	-	.027	-	-	-	.066	.038	-	3.820
1	11	55	.004	.160	-	-	.026	-	-	-	-	.047	-	.470
1	12	60	.004	.190	-	-	.023	-	-	-	-	.050	-	-
1	13	65	.004	-	-	-	.181	-	-	-	-	.052	-	-
1	14	70	.003	.100	-	-	.042	-	-	-	-	.034	-	-
1	15	75	-	.100	-	-	.024	-	-	-	.062	.150	-	-
1	16	80	.003	.120	-	-	.027	-	-	-	.026	.081	-	.370
1	17	85	.004	-	-	-	.029	-	-	-	.012	.032	-	-
2	10	50	-	.130	-	-	-	-	-	-	-	-	-	.610
2	12	60	-	.140	-	-	-	-	-	-	-	-	-	.460
2	14	70	-	.150	-	-	-	-	-	-	-	-	-	.440
2	16	80	-	.150	-	-	-	-	-	-	-	.006	-	-
2	18	90	-	.130	-	-	.010	-	-	-	-	-	-	.440
3	10	50	-	-	-	-	-	-	-	.001	-	.023	-	-
3	12	60	.002	-	-	-	.043	-	-	-	.017	-	.020	-
3	14	70	-	-	-	-	.044	-	-	-	-	-	-	
3	16	80	-	-	-	-	.048	-	-	-	-	-	-	.730
3	18	90	-	-	-	-	-	-	-	-	.010	-	-	-
4	13	65	-	-	-	-	.018	-	-	-	-	-	-	-
4	15	75	-	-	-	-	.010	-	-	-	.014	.004	-	.330
4	17	85	-	-	-	-	.036	-	-	.001	.021	.005	-	.500
4	19	95	-	-	-	-	.019	-	-	-	.013	-	-	-
4	21	105	-	-	.003	-	.008	-	-	-	-	-	-	-
F. Blank 1			-	-	-	-	.026	-	-	-	-	.003	-	-
F. Blank 2			-	-	-	-	-	-	-	-	-	-	-	-
F. Blank 3			-	-	-	-	-	-	-	-	-	-	-	-
F. Blank 4			-	-	-	-	-	-	-	-	-	-	-	-

*Except for cyanide, concentrations are resultant after E.P. Toxicity Procedure.

round" of groundwater samples, while the subsequent samples are presented as the "second round" of samples.

First Round Sampling Results

The first round of groundwater samples were collected from each of the four new monitoring wells (MW #1,2,3 and 4) on August 28, 1987. These samples, along with quality assurance/quality control (QA/QC) trip and field blank samples, were analyzed for volatile organic compounds (EPA Method 624), USEPA Target Compound List (TCL) metals and Total Organic Halides (TOX).

The results for the round one volatile organic analysis are presented in Table 5 for the four monitoring wells. The data indicate that except for acetone, these wells have not been affected by volatile organic contamination. Acetone was a common volatile organic found in the monitoring wells. However, it was also found in the field and trip QA/QC blanks as well as the method blank. This would make these data suspect, especially since acetone was used as part of the NYTEST Environmental, Inc. pre-cleaning procedure for the teflon bailers. Although acetone is not a priority pollutant, it was analyzed by NYTEST's laboratory as a TCL volatile compound.

In addition to acetone, trace levels of methylene chloride and trichloroethane were in three of the monitoring wells, but below the quantification limit, which is well below applicable standards.

Groundwater samples from each of the four monitoring wells was also analyzed for total organic halides (TOX). The data

TABLE 5

CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS

QUANTIFIED IN ROUND ONE GROUNDWATER SAMPLES (PPM)

WELL NO.	ACETONE
1	.061 (B)
2	.039 (B)
3	.017 (B)
4	-
Field Blank	.010
Trip Blank	.004

NOTES: Compounds that may be present at concentrations below the detection limit are not presented in this table.

(B) This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination.

are presented in Table 6. TOX includes the volatile organic halogens (POX), such as chlorinated organic solvents and the trihalomethanes, as well as the non-purgeable organic halogens, such as pesticides, semi-volatiles, etc. The highest TOX value was observed in MW #1 at 904 ppb. The field blank had a value of 23 ppb. These data would appear to indicate the presence of non-TCL volatile organics, or higher molecular weight organics (semi-volatiles) in these wells. These organics were not part of the original work plan.

The round one total metal data, as well as conductivity and pH data from the field, are presented in Table 6. The data are from unfiltered groundwater samples and therefore represent the concentrations of metals in suspended soil particles, as well as metals dissolved in the groundwater. MW #3 data represents perched water as previously described and would be expected to have different quality than the other wells. However, MW #1 shows indications of being impacted. In addition to a high conductivity and pH, it also shows an unusually high concentration of aluminum, magnesium and sodium. It also had the highest TOX concentration. The level of lead in three of the wells exceeds the NYS Ambient Water Quality Standard of .025 ppm. The level of iron in each well exceeds the NYS Ambient Water Quality Standard of 0.3 ppm. Additionally, the NYS Ambient Standard for manganese (0.3 ppm) was exceeded at MW #3 and was exceeded for mercury (.002 ppm) in MW #2. It is likely that most of the elevated levels of metals are attributed to suspended fine clay and silt particles found in the groundwater samples. The original

TABLE 6 : CONCENTRATIONS OF TARGET COMPOUND LIST (TCL) METALS AND TOTAL ORGANIC HALIDES (TOX) QUANTIFIED IN ROUND ONE GROUNDWATER SAMPLES (ppm)

ALL SAMPLES FILTERED?

PARAMETER	MW#1	MW#2	MW#3	MW#4	FIELD BLANK	TRIP BLANK	NEW YORK STATE GROUNDWATER STANDARD (a)	USEPA MCL (b)
Al	2.340	.490	.990	.210	-	-	-	-
As	.005	-	.007	-	-	-	0.025	0.05
Ba	.270	.390	.300	.320	-	-	1.0	1.0
Be	.003	.003	.004	.004	-	-	-	-
Cd	.003	.006	.004	.004	-	-	0.01	0.01
Ca	8.600	4.310	9.280	9.410	.070	.110	-	-
Co	-	.010	.011	-	-	-	-	-
Cu	.210	.535	.406	.043	-	-	1.0	-
Fe	1.087	.395	1.166	.623	-	-	.3	-
Pb	.058	.129	.047	.025	.021	.004	0.025	0.05
Mg	88.400	1.490	3.890	1.750	-	-	-	-
Mn	.093	.102	.601	.171	-	-	.3	-
Hg	.0015	.0025	-	-	-	-	0.002	0.002
K	2.810	.769	2.403	.707	-	-	-	-
Na	13.500	8.540	26.770	7.350	.130	.140	-	-
V	.250	-	.420	.990	.090	.080	-	-
Zn	.180	.282	.189	.226	.007	.004	5.0	-
TOX	.904	.238	.380	.296	.023	-	-	-
CONDUCTIVITY	750	80	250	105	*	*		
pH	7.33	5.97	7.16	5.05	*	*		

.003 - Guidance Value

25

35

NOTE : * = NOT MEASURED.
- = NOT DETECTED.
(a) = N.Y.S. GROUNDWATER QUALITY STANDARDS, 6 NYCRR 703.
(b) = USEPA MAXIMUM CONTAMINANT LEVELS FOR DRINKING WATER.

work plan did not require filtering of the water samples before analysis.

Second Round Sampling Results

Based on the round one monitoring data, there was more than sufficient justification for re-sampling the wells with a modified work plan. The sampling protocol was modified and additional water quality parameters added to the investigation. Further, based upon the TOX data, additional sampling included analysis for base neutral/acid extractable organic contaminants.

The initial phase of the round two sampling was conducted on October 29, 1987. Samples were collected from each of the four new monitoring wells (MW #1,2,3 and 4) and from the pre-existing monitoring well (MW #5). These samples were analyzed for volatile halogenated and non-halogenated organics, chloride, cyanide, fluoride, hardness, ammonia, nitrate, sulfate, suspended solids and total dissolved solids. In addition, samples from MW #1 and MW #3, where the highest TOX values were previously detected, were analyzed for base neutral/acid extractables.

The results of the laboratory analysis indicate that no volatile organics were detected in the five monitoring wells or the trip and field blank. Furthermore, with acetone eliminated from the decontamination protocol, none was found in the groundwater. In addition, no base neutral/acid extractable organic contaminants were detected in MW #1 or MW #3.

A summary of the concentrations of inorganic compounds quantified in the round two samples are presented in Table 7.

TABLE 7 : CONCENTRATIONS OF INORGANIC COMPOUNDS QUANTIFIED IN ROUND TWO GROUNDWATER SAMPLES (ppm)

PARAMETER		DATE	MW#1	MW#2	MW#3	MW#4	MW#5	NEW YORK STATE GROUNDWATER STANDARD (a)	USEPA MCL (b)
UNFILTERED	Ag	OCT. 29	<	<	<	<	<	0.05	0.05
"	As	"	.013	.008	.011	.007	.005	0.025	0.05
"	Be	"	<	<	<	<	<	-	-
"	Ca	"	8.9	5.4	11.7	9.4	53.7	-	-
"	Cd	"	<	<	.015	<	<		
FILTERED	Cd	DEC. 2	<	<	<	<	<	0.01	0.01
UNFILTERED	Cr	OCT. 29	<	<	.15	<	<		
FILTERED	Cr	DEC. 2	<	<	<	<	<	-	0.05
UNFILTERED	Cu	OCT. 29	.36	.51	3.49	.10	.08		
FILTERED	Cu	DEC. 2	.03	.07	<	.05	<	1.00	-
UNFILTERED	Fe	OCT. 29	2.68	2.74	24.0	1.17	.40		
FILTERED	Fe	DEC. 2	<	<	.38	.14	.03	.3	-
UNFILTERED	Hg	OCT. 29	.0008	<	<	<	<	0.002	0.002
"	Mg	"	95	1.8	9.6	2.0	11.4	-	-
"	Mn	"	.07	.14	4.91	.19	<		
FILTERED	Mn	DEC. 2	<	.06	.02	.10	.03	.3	-
UNFILTERED	Na	OCT. 29	19.4	10.8	31.5	12.0	67.3	-	-
"	Ni	"	<	<	.14	<	<	-	-
"	Pb	"	.015	.032	.110	.008	.007		
FILTERED	Pb	DEC. 2	<	<	<	<	<	0.025	0.05
UNFILTERED	Sb	OCT. 29	<	<	<	<	<	-	-
"	Se	"	<	<	<	<	<	0.02	0.01
"	Tl	"	<	<	<	<	<	-	-
"	Zn	"	.11	.20	.95	.20	.09	5.00	-
CHLORIDE		OCT. 29	51	6	5	18	4	250.0	-
CYANIDE		"	.090	.010	<	<	.194	.2	-
FLUORIDE		"	.16	<	<	<	.36	1.5	1.4 TO 2.4
HARDNESS		"	411.75	20.88	68.61	31.70	180.99	-	-
AMMONIA		"	<	<	.05	.20	<	-	-
NITRATE		"	7.8	3.3	1.2	1.9	1.2	10.0	10.0
SULFATE		"	80	10	15	15	20	250.0	-
SUSP. SOLIDS		OCT. 29	2580	1440	5570	600	100		
TOT. DISS. SOLIDS		"	460	80	250	90	400		
pH		"	6.94	5.64	6.86	5.81	7.94		
SPEC. CONDUCTIVITY		"	784	84	177	108	641		
pH		DEC. 2	7.02	5.69	6.64	5.44	7.31		
SPEC. CONDUCTIVITY		"	690	86	140	130	630		

NOTE : < = BELOW DETECTION LIMIT.

(a) = N.Y.S. GROUNDWATER QUALITY STANDARDS, 6 NYCRR 703.

(b) = USEPA MAXIMUM CONTAMINANT LEVELS FOR DRINKING WATER.

None of the parameters tested for in the first phase of the round two sampling exceed applicable state or federal groundwater quality standards for those parameters in which standards are promulgated.

The second phase of the round two sampling was conducted on December 2, 1987. Samples were collected from all five monitoring wells and analyzed for dissolved metals, including cadmium, chromium, copper, iron, manganese and lead. These samples were filtered prior to preservation and analysis. Therefore, unlike the first round of samples, these results are more representative of metals dissolved in the groundwater. As shown in Table 7, the only parameter which exceeds groundwater standards is the iron concentration of .38 ppm found in MW #3. This concentration only barely exceeds the limit and may be naturally occurring in the soils. MW #3, however, reflects perched water, and is not indicative of the water in the aquifer. - but may be more indicative of water coming from the site

To summarize, the round two data indicate that priority pollutant organic compounds are not present in quantifiable concentrations at the wells and that the elevated levels of certain Target Compound List metals detected in round one samples can be attributed primarily to excess turbidity due to fine, naturally occurring sediments such as silt and clay. ? Don't Buy this one yet.

Supply Well Sampling Results

Table 8 presents data on the quality of water that had been pumped from the two high capacity (1,000 gpm) supply wells also located within the Cerro site (see Figure 2 for locations). The shallower well, N-3569, located approximately 200 feet south of

TABLE 8 : CONCENTRATIONS OF INORGANIC COMPOUNDS QUANTIFIED IN ON-SITE WATER SUPPLY WELLS (ppm)
(SOURCE : NASSAU COUNTY DEPARTMENT OF HEALTH)

PARAMETER	2/18/82 N-3569	2/18/82 N-6741	4/22/83 N-3569	4/22/83 N-6741	2/13/86 N-3569	2/13/86 N-6741
Ag	<	<	<	<	<	<
As	<	<	<	<	<	<
Ba	<	<	<	<	<	<
Ca	37.5	8.5	17.2	18.4	41.5	29.5
Cd	<	<	<	.002	<	<
Cr (tot.)	<	<	<	<	<	<
Cu	<	<	<	<	<	.06
Fe (tot.)	.3	.66	11	.3	14.6	.64
Hg	<	<	-	-	-	-
K	2.1	.8	.8	.8	3.4	1.5
Mg	16.5	2.7	5.5	5.6	15.3	8.4
Mn	<	<	.16	<	.21	<
Na	82	11	31	32	110	49
Pb	<	<	<	<	.01	.03
Se	<	<	<	<	<	<
Zn	-	-	-	-	.18	.75
ALKALINITY	13	5	8	6	72	12
CHLORIDE	93.7	17.8	37.8	37.4	140	60.6
CO2 (tot.)	20	10	16	23	22	29
FLUORIDE	<	<	<	<	<	<
HARDNESS (Ca)	94	21	43	46	104	74
HARDNESS (tot.)	162	34	85	70	193	109
MBAS	.04	<	<	<	-	-
AMMONIA	.75	.02	.34	.03	3.8	.47
NITRITE	.07	.002	.085	.006	.233	.03
NITRATE	7.63	2.64	3.18	4.12	4.08	6.97
pH	6.1	6	6	5.7	6.8	5.9
SPEC. CONDUCTIVITY	732	147	295	291	965	498
SiO2	10.3	7.0	6.7	7.9	5.1	6.5
SULFATE	16	26	50	48	150	82
TOTAL SOLIDS	301	89	179	172	546	277

THERE GOES THAT NATURALLY OCCURING SEDIMENT AGAIN!

NOTE : < = BELOW DETECTION LIMIT
- = NOT ANALYZED FOR
DEPTH OF WELL N-3569 = 350 FT
DEPTH OF WELL N-6741 = 423 FT

the landfill, has an intake zone of 198 to 349 feet below grade. The deeper well, N-6741, is located approximately 220 feet south of the landfill, and has an intake zone of 373 to 423 feet below grade. The level of chloride, iron, magnesium, calcium, total N, conductivity, total solids and pH detected in the shallower Cerro well during the February 13, 1986 sampling by the Nassau County Department of Health is elevated in comparison to the deeper well. Each of the aforementioned parameters are characteristic indicators of leachate contamination generated by shallow land burial of municipal wastes (Brunner and Carnes, 1974). It is therefore likely that the Upper Magothy groundwater in the vicinity of the intake zones of these supply wells has been impacted by leachate generated at the Syosset Landfill.

The varying groundwater flow direction, as indicated in Figures 4 through 10, includes flow from the Syosset Landfill toward the Cerro Conduit site (Figures 9 and 10). The vertical and areal extent of contamination generated by the Syosset Landfill is currently being investigated by the Town of Oyster Bay, under the direction of the USEPA.

4.0 - SUMMARY AND CONCLUSIONS

The objective of this investigation was to determine the nature and extent of groundwater contamination that may be present beneath the Cerro Conduit site. By prior agreement, any soil contamination that may exist at the site is being investigated by the Cerro Conduit Co.

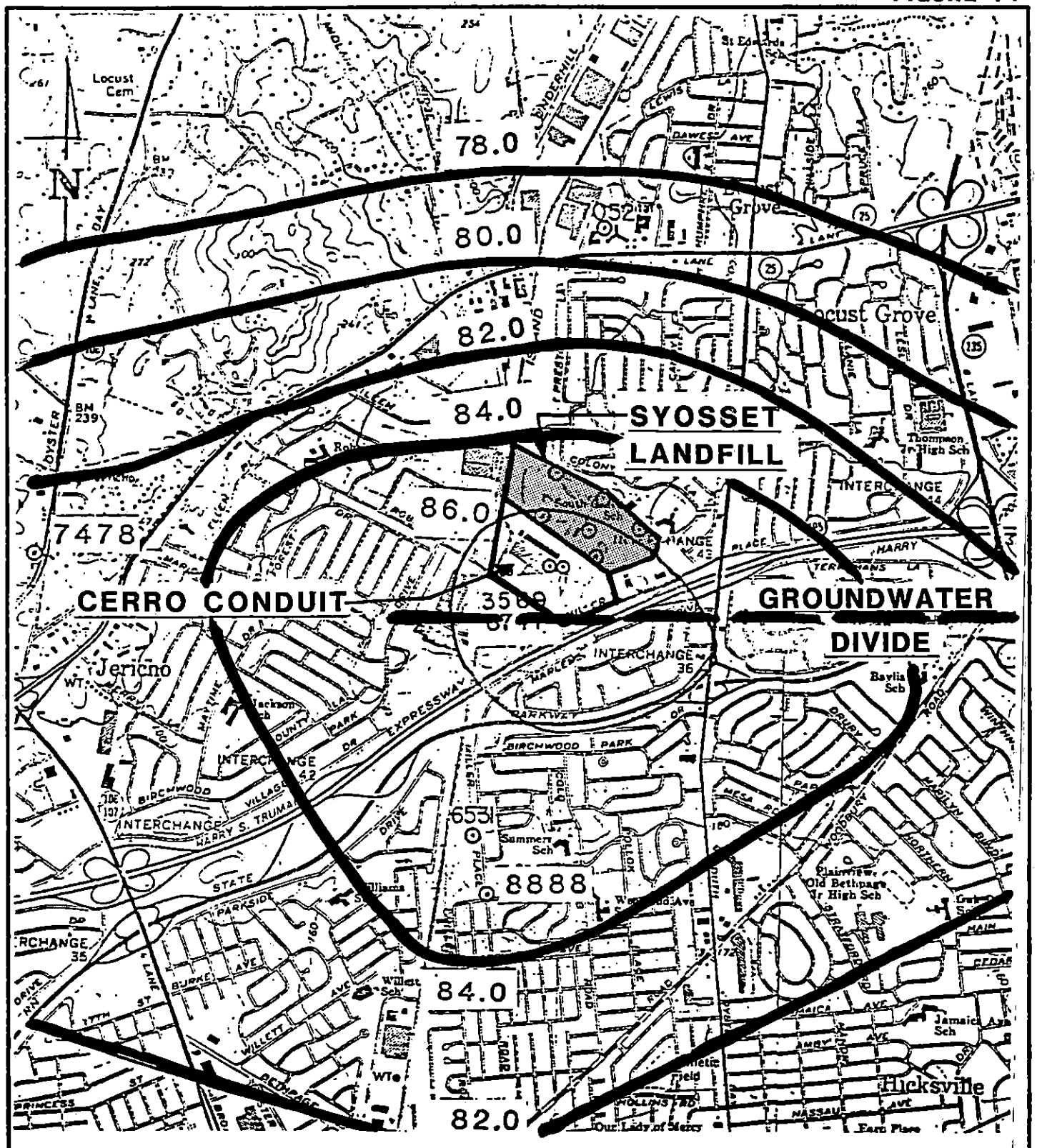
The monitoring well system design and construction for this investigation was conducted in accordance with the work plan developed by Eldon Associates, Inc., of Great Neck, N.Y. This system provides an assessment of the quality of groundwater existing in the shallow groundwater zone of the Magothy aquifer, beneath the Cerro Conduit site.

The site is located over a regional groundwater divide of the Magothy aquifer (Figure 11) and, as such, groundwater flow is typified by significant vertical flow and variable flow direction.

Groundwater samples collected from the five on-site monitoring wells indicate that near the surface of the water table organic compound contamination is not present in groundwater. Furthermore, inorganic contamination is not present in significant concentrations at these locations, although there are indications that groundwater quality has been impacted somewhat by inorganics. - AS HAVE SEDIMENTS

Based upon the hydrogeologic information collected and developed, and the adequate volume of water quality data reviewed, it appears that the on-site supply wells N-3569 and N-6741 have

FIGURE 11



REGIONAL WATER TABLE MAP

SCALE: 1"=2000'

(DECEMBER 1982 CONTOURS)
SOURCE: NASSAU CO. DEPARTMENT
OF HEALTH/ERM-NORTHEAST, 1983

H2MGROUP ENGINEERS · ARCHITECTS · PLANNERS · SCIENTISTS
MELVILLE, N.Y. RIVERHEAD, N.Y. FAIRFIELD, N.J.

AN INFERENCE THAT NEEDS FURTHER SUPPORT SUCH AS PIEZOMETRIC DATA AND CAPTURE ZONE CALCULATION

intercepted a portion of the plume coming from the Syosset Landfill. This landfill is currently being investigated under a Remedial Investigation/Feasibility Study with oversight by the USEPA. Because of the significant degree of natural vertical flow and varying horizontal flow in this groundwater divide area, it is probable that the plume from the Syosset Landfill may extend into the groundwater below the Cerro site. The combined "cones of influence" of Cerro's on-site supply wells would augment any natural tendency for migration of the plume toward the Cerro site, and preclude migration of contaminated water produced on the site.

With the depth to the water table surface at approximately 100 feet and the depth to the bottom of the on-site supply wells at 350-423 feet, the groundwater zone is beyond the range of excavations associated with physical development of the site. None of the information developed from this report precludes the physical development of the property with structures. Furthermore, development of the site would not prevent remediation of regional groundwater problems, if necessary.

5.0 - REFERENCES

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APPENDIX A

LABORATORY DATA

LAB. NO.: 87-13596

P.O. NO.: Pending

July 31, 1987

ANALYTICAL DATA REPORT PACKAGE

FOR

Soil Mechanics

3770 Merrick Road

Seaford, New York 11783

Att: Carl Vernick

Sample Identification	Laboratory Number	Type of Sample	Date and Time of Sample Collection
W-1/S-1	N7-2904	Soil	6/23/87 9:35
W-1/S-2	N7-2905	Soil	6/23/87 9:45
W-1/S-3	N7-2906	Soil	6/23/87 9:50
W-1/S-4	N7-2907	Soil	6/23/87 9:58
W-1/S-5	N7-2908	Soil	6/23/87 10:06
W-1/S-6	N7-2909	Soil	6/23/87 10:12
W-1/S-7	N7-2910	Soil	6/23/87 10:24
W-1/S-8	N7-2911	Soil	6/23/87 10:37

Report prepared by:

Parag K. Shah, Ph.D.
Organic Lab. Manager

We certify that this report is a true report of results obtained from our tests of this material.

Respectfully submitted,

Nytest Environmental Inc.

Remo Gigante
Laboratory Director

jw

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT
nytest environmental inc.

Lab. No.: 87-13596

Sample Identification	Laboratory Number	Type of Sample	Date and Time of Sample Collection
W-1/S-9	N7-2912	Soil	6/23/87 10:50
W-1/S-10	N7-2913	Soil	6/23/87 11:10
W-1/S-11	N7-2914	Soil	6/23/87 11:22
W-1/S-12	N7-2915	Soil	6/23/87 11:39
W-1/S-13	N7-2916	Soil	6/23/87 11:55
W-1/S-14	N7-2917	Soil	6/23/87 12:10
W-1/S-15	N7-2918	Soil	6/23/87 12:30
W-1/S-16	N7-2919	Soil	6/23/87 12:42
W-1/S-17	N7-2920	Soil	6/23/87 1:00
FB-1	N7-2921	Field Blank	6/23/87 1:30
TB-1	N7-2922	Trip Blank	6/23/87 -

call box 1021 ▫ 75 urban avenue, westbury, n.y. 11590 ▫ (516) 334/7770, (718) 297/1449

Lab. No. 87-13596

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Lab. No. 87-13596

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.: | PROJECT NAME: CERRO CORP.

CLIENT NAME: SOIL MECHANICS | LAB #: 87-13596

SAMPLE I.D. NO:	DATE	TIME	COMP	GRAB	SAMPLE LOCATION	NO. OF CONTAINERS	NITROGEN	OIL & GREASE	CYANIDE	PHENOL	VOLATILE	METALS	ORGANICS	BACTERIAL	TOC COD	OTHER	UNPRESERVED	REMARKS / ADDITIONAL REQUIREMENTS
MW-1	S-1	6/28	935		✓	WELL #1 5'-7' DEPTH	2				1	Pb					1	
MW-1	S-2		945		✓	WELL #1 10'-12' DEPTH	2				1	Pb					1	
MW-1	S-3		960		✓	WELL #1 15'-17' DEPTH	2				1						1	
MW-1	S-4		958		✓	WELL #1 20'-22' DEPTH	2				1						1	
MW-1	S-5		1006		✓	WELL #1 25'-27' DEPTH	2				1						1	
MW-1	S-6		1017		✓	WELL #1 30'-32' DEPTH	2				1						1	
MW-1	S-7		1024		✓	WELL #1 35'-37' DEPTH	2				1						1	
MW-1	S-8		1039		✓	WELL #1 40'-42' DEPTH	2				1						1	
MW-1	S-9		1050		✓	WELL #1 45'-47' DEPTH	2				1						1	
MW-1	S-10		1110		✓	WELL #1 50'-52' DEPTH	2				1						1	
MW-1	S-11		1122		✓	WELL #1 55'-57' DEPTH	2				1						1	
MW-1	S-12		1139		✓	WELL #1 60'-62' DEPTH	2				1						1	
MW-1	S-13		1156		✓	WELL #1 65'-67' DEPTH	2				1						1	
MW-1	S-14	↓	1210		✓	WELL #2 70'-72' DEPTH	2				1						1	
											1	Pb						

Shipped Via:

Relinquished by (Signature)	Date/Time	Agent of:	Rec'd. by (Signature)	Date/Time	Agent of:
Printed Name			Printed Name		
Relinquished by (Signature)	Date/Time	Agent of:	Rec'd. by (Signature)	Date/Time	Agent of:
Printed Name			Printed Name		
Relinquished by (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks:	
Printed Name	6-28-87 1506	Printed Name Christine Supple	6/29 1500		

Samplers Name (Print): CHARLES NEHRIG

Relinquished by (Signature): CHARLES NEHRIG

nytest environmental inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.: | PROJECT NAME: CERRO, CORP.

CLIENT NAME: SOIL MECHANICS | LAB.#: 87-13596

SAMPLE I.D. NO.	DATE	TIME	COMP.	GRAB	SAMPLE LOCATION	NO. OF CONTAINERS	NITROGEN	OIL & GREASE	CYANIDE	PHENOL	VOLATILE	METALS	ORGANICS	BACTERIAL	TOC COD	OTHER	UNPRESERVED	REMARKS / ADDITIONAL REQUIREMENTS
V-1/S-15	6/23/87	12[illegible]		✓	WELL #1 75'-77' DEPTH	2				1							1	
V-1/S-16	"	12[illegible]		✓	WELL #1 80'-82' DEPTH	2				1							1	
V-1/S-17	"	12[illegible]		✓	WELL #1 85'-87' DEPTH	2				1							1	
FB-1	"	12[illegible]		✓	FIELD BLANK #1	1				1								
TB-1	—	—		✓	TRIP BLANK #1	1				1								

Shipped Via:

Relinquished by (Signature)	Date/Time	Agent of:	Rec'd. by (Signature) / Date/Time / Agent of:
Printed Name			Printed Name
Relinquished by (Signature)	Date/Time	Agent of:	Rec'd. by (Signature) / Date/Time / Agent of:
Printed Name			Printed Name
Relinquished by (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time: 6/23/87 15:00
Printed Name		Printed Name: Christine Supple	

Samplers Name (Print): CHARLES NEHRE

Remarks:

Laboratory Chronicle

Project No: 87-13596

Client Name: Soil Mechanics

Date Recieved: 6/23/87 + 6/24/87
Sample ID: W-1/S-1 - 17;FB-1;TB-1

Organics Extraction:

1. Acids _____
2. Base/Neutrals _____
3. Pesticides/PCBs _____
4. Dioxin _____

Analysis:

6/30/87 + 7/1/87 + 7/3/87

1. Volatiles _____
2. Acids _____
3. Base/Neutrals _____
4. Pesticides/PCBs _____
5. Dioxin _____

Section Supervisor
Review & Approval _____

Inorganics:

1. Metals _____
2. Cyanides _____
3. Phenols _____

Other Analysis:

_____

_____

_____

Section Supervisor
Review & Approval _____

Quality Control Supervisor
Review & Approval _____

If fractions are re-extracted and re-analyzed include dates for both.

nytest environmental inc.

Methodology Summary
NYTEST ENVIRONMENTAL INC.

AQUEOUS SAMPLE PREPARATION - Reference (1)

	Method
Flame Sample Preparation	200.0
Furnace Sample Preparation	200.0
Mercury Sample Preparation	245.1
Hexavalent Chromium Sample Preparation	218.5

NON-AQUEOUS EXTRACTIONS - Reference (2)

SOIL AND SEDIMENT SAMPLES:

Flame, Sample Preparation	3050
Furnace Sample Preparation	3050
Mercury Sample Preparation	7471

SLUDGE/PETROLEUM BASED SAMPLES: - Reference (2)

Flame, Sample Preparation	3010 /3030 /3050
Furnace Sample Preparation	3020 /3030 /3050
Mercury Sample Preparation	7471

FLAME AA (Aqueous/Non-Aqueous) - Reference (1) (2)

Aluminum	202.1
Antimony	204.1/7040
Barium	208.1/7080
Beryllium	210.1/7090
Cadmium	213.1/7130
Chromium	218.1/7190
Cobalt	219.1
Copper	220.1/7210
Iron	236.1/7381
Lead	239.1/7420
Manganese	243.1/7460
Molybdenum	246.1
Nickel	249.1/7520
Potassium	258.1
Silver	272.1/7760
Sodium	273.1/7770
Tin	284.1
Vanadium	286.1/7910
Zinc	289.1/7950

METHODOLOGY SUMMARY - Cont'd

FURNACE AA - Reference (1) (2)	Method
Antimony	204.1/7041
Arsenic	206.2/7060
Lead	239.2/7421
Selenium	270.2/7740
Thallium	279.2/7841
Tin	282.2
Vanadium	286.2/7911

AQUEOUS METHODOLOGIES - Reference (3)	
Organochlorine Pesticides and PCB's by Gas Chromatography	608
Herbicides by Gas Chromatography	352
Purgeable Organics by GC/MS	624
Base/Neutral, Acids by GC/MS	625
2,3,7,8-TCDD by GC/MS	613/625
Petroleum Hydrocarbons - Ref. (1)	418.1

NON-AQUEOUS METHODOLOGIES - Reference (2)	
Gas Chromatography/Mass Spectrometry for:	
Purgeable Organics	8240
Base/Neutral and Acid Extractables	8270
Organochlorine Pesticides and PCB's by Gas Chromatography	8080
Petroleum Hydrocarbons - Ref. (1 & 4)	418.1

MISCELLANEOUS ANALYSIS: Reference 2	Method
Extraction Procedure Toxicity	1310
Ignitability	1010
Corrosivity	1110
Reactivity	Chapt.8.3

REFERENCE:

(1) - 600/4-79-002 Methods for Chemical Analysis of Water and Waste
(2) - SW 846 Test Methods for Evaluating Solid Waste
(3) - 40 CFR Part 136, Vol. 49, No. 209 Test Parameters for the Analysis of Pollutants
(4) - as modified by NJDEP-BISE

ORGANIC DATA REPORTING QUALIFIERS

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g.: If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.)

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action..

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-1

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2904
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (LOW) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 6/30/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 2.6

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	14.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			—	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-1

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	28.387	14 J
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2905
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 6/30/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 3.2

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	5.0 J	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-2

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.708	6 J
2		Unknown Siloxane	VOA	31.315	12 J
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
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27					
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29					
30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-3

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2906
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-1359S
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 6/30/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 1.9

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			—	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-3

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.729	5 J
2		Unknown Siloxane	VOA	31.318	11 J
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-4

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2907
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 6/30/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 2.9

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

CTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-4

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.723	8 J
2		Unknown	VOA	14.835	6 J
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
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23					
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25					
26					
27					
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30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-5

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2908
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 6/30/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 2.7

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	17.0 B
67-64-1	Acetone	33.0
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or (ug/Kg) (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
—	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-5

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		No Compounds Found	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-6

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2909
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 6/30/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 4.8

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	5.0 U
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or (ug/Kg) (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-6

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		No Compounds Found	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-7

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2910
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/1/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 2.0

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0
75-09-2	Methylene Chloride	7.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	20.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-7

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown Siloxane	VOA	31.189	10 J
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: IW-1/S-8

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2911
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/1/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 1.9

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	4.0 BJ
67-64-1	Acetone	5.0 J
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
—	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-8

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		No Compounds Found	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-9

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2912
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13595
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/1/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 2.3

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0
75-09-2	Methylene Chloride	9.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	9.0 J	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	3.0 J
71-55-6	1,1,1-Trichloroethane	6.0	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000023

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-9

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown Siloxane	VOA	31.241	8 J
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-10

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2913
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/1/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 17.2

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	13.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			—	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000025

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-10

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	15.046	8 J
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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24					
25					
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27					
28					
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30					

000026

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-11

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2914
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/1/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 6.4

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0
75-09-2	Methylene Chloride	9.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	9.0	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000027

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-11

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.565	7 J
2		Unknown	VOA	31.214	7 J
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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22					
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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-12

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2915
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/1/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 4.3

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	3.0 BJ	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	11.0	108-88-3	Toluene	3.0 J
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-12

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		No Compounds Found	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-13

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2916
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/1/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 6.9

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	9.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	36.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	3.0 J
71-55-6	1,1,1-Trichloroethane	10.0	108-88-3	Toluene	10.0
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-13

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown Siloxane	VOA	33.614	6 J
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-14

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2917
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/1/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 6.3

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	23.0 B
67-64-1	Acetone	3.0 J
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	9.0
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or (ug/Kg) (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloromethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-14

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-1359S

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		No Compounds Found	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-15

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2918
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-1359S
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/3/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 5.3

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	18.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	88.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			----	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-15

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13595

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.503	15 J
2	109660	Pentane	VOA	14.697	8 J
3		Unknown	VOA	15.022	6 J
4		Unknown	VOA	18.495	7 J
5		Unknown	VOA	31.193	5 J
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-16

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2919
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-1359S
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/3/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 4.9

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	7.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	12.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	29.0	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	2.0 J
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			—	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000037

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-16

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.686	17 J
2	109660	Pentane	VOA	14.555	9 J
3		Unknown	VOA	17.662	8 J
4		Unknown Alkane	VOA	18.434	10 J
5		Unknown Siloxane	VOA	31.113	25 J
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
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27					
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30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-17

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2920
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/3/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 17.2

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	22.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	40.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

030639

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/S-17

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	(RT) or Scan Number	Estimated Concentration (ug/l or (ug/Kg))
1		Unknown	VOA	12.586	12 J
2	109660	Pentane	VOA	14.718	9 J
3		Unknown Alkane	VOA	17.765	9 J
4		Unknown	VOA	18.516	10 J
5		Unknown	VOA	28.187	7 J
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: FB-1

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2921
Sample Matrix: WATER
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 6/30/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): NA

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	4.0 BJ
67-64-1	Acetone	11.0
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	3.0 J
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
—	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: FB-1

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	31.413	6 J
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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29					
30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: TB-1

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2922
Sample Matrix: WATER
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/1/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): NA

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: TB-1

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		No Compounds Found	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

METHOD BLANK SUMMARY

Contractor:NYTEST ENVIRONMENTAL INC.

Project No: 87-13595

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL.TIC OR UNKNOWN)	CONC.	UNITS	CRDL
V2912	6/30/87	VOA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride	3	ug/l	5
					TIC		Unknown	12	ug/l	
V2935	7/1/87	VOA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride	8	ug/l	5
					TIC		Unknown Siloxane	6	ug/l	
							Unknown	6	ug/l	
V3009	7/3/87	VOA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride	23	ug/l	5
						67-64-1	Acetone	36	ug/l	10
					TIC		Unknown Hydrocarbon	14	ug/l	
							Unknown	17	ug/l	
							Unknown Siloxane	15	ug/l	
							Unknown Aromatic Compound	95	ug/l	

Comments:

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory: NYTEST ENVIRONMENTAL INC.   Project No: 87-13596

Low: Medium:

	VOLATILE			SEMI-VOLATILE								PESTICIDES
SMO TRAFFIC NO.	TOLUENE-D8 (88-110)	BFB (86-115)	1,2 DICHLORO-ETHANE-D4 (76-114)	NITRO-BENZENE-D5 (35-114)	2-FLUORO-BIPHENYL (43-116)	TERPHENYL-D14 (33-141)			PHENOL-D5 (10-94)	2-FLUORO-PHENOL (21-100)	2,4,6 TRIBROMO-PHENOL (10-123)	** DIBUTYL-CHLORENDATE (24-154)
Method Blank 30	98	110	106									
Method Blank 1	100	102	104									
Method Blank 3	92	100	96									
FB-1	99	100	110									
TB-1	98	100	104									
W-1/S-1	100	105	106									
W-1/S-2	97	96	110									
W-1/S-3	99	98	111									
W-1/S-4	98	101	115									
W-1/S-5	97	116	112									
W-1/S-6	98	103	112									
W-1/S-7	100	102	114									
W-1/S-8	98	102	108									
W-1/S-9	97	96	107									
W-1/S-10	100	102	108									
W-1/S-11	97	106	109									
W-1/S-12	97	106	108									
W-1/S-13	98	97	109									
W-1/S-14	97	99	106									
W-1/S-15	93	97	101									
W-1/S-16	96	95	95									
W-1/S-17	94	96	95									
W-1/S-15 MS	107	100	95									
W-1/S-15 MSD	107	88	103									

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: 0 out of 72 ; outside of QC limits

Semi-Volatiles ___ out of ___ ; outside of QC limits

Pesticides: ___ out of ___ ; outside of QC limits

Comments:

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Contractor:NYTEST ENVIRONMENTAL INC. Project No: 87-13596

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	% RECOVERY	CONC. MSD	% RECOVERY	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA	1,1-Dichloroethene	50.00		43.00	86.00	44.00	88.00	2.30	22	59-172
SMO	Trichloroethene	50.00		58.00	116.00	59.00	118.00	1.71	24	62-137
SAMPLE NO.	Chlorobenzene	50.00		65.00	130.00	66.00	132.00	1.53	21	60-133
W-1/S-15	Toluene	50.00		76.00	152.00 *	76.00	152.00 *	0.00	21	59-139
	Benzene	50.00		52.00	104.00	51.00	102.00	1.94	21	66-142
	1,2,4-Trichlorobenzene	50.00			0		0		23	38-107
B/N	Acenaphthene	50.00			0		0		19	31-137
SMO	2,4-Dinitrotoluene	50.00			0		0		47	28-89
SAMPLE NO.									40	11-117
	Pyrene	50.00			0		0		36	35-142
	N-Nitroso-Di-n-Propylamine	50.00			0		0		38	41-126
	1,4-Dichlorobenzene	50.00			0		0		27	28-104
ACID	Pentachlorophenol	100.00			0		0		47	17-109
SMO	Phenol	100.00			0		0		35	26-90
SAMPLE NO.	2-Chlorophenol	100.00			0		0		50	25-102
	4-Chloro-3-Methylphenol	100.00			0		0		33	26-103
	4-Nitrophenol	100.00			0		0		50	11-114
	Lindane	0.20			0.00		0.00		50	46-127
PEST	Heptachlor	0.20			0.00		0.00		31	35-130
SMO	Aldrin	0.20			0.00		0.00		43	34-132
SAMPLE NO.	Dieldrin	0.50			0.00		0.00		38	31-134
	Endrin	0.50			0.00		0.00		45	42-139
	4,4'-DDT	0.50			0.00		0.00		50	23-134

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD:	VOAs	0	out of	5 ;outside QC limits	RECOVERY VOA'S	2	out of	10	;outside QC limits
	B/N		out of	6 ;outside QC limits	B/N		out of	12	;outside QC limits
	ACID		out of	5 ;outside QC limits	ACIDS		out of	10	;outside QC limits
	PEST		out of	6 ;outside QC limits	PEST		out of	12	;outside QC limits

Comments:

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC. Project No: 87-13596
Instrument ID: NYT 1 Date: 6/22/87 Time: 8:39
Lab ID: V2805::N2 Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.44
75	30.0 - 60.0% of the base peak	47.57
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.76
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	83.60
175	5.0 - 9.0% of mass 174	6.29 [7.528]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	80.12 [95.84]*1
177	5.0 - 9.0% of mass 176	5.35 [6.680]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V2805	6/22/87	8:39
20 ng. Std.	V2809	6/22/87	12:14
50 ng. Std.	V2810	6/22/87	12:54
100 ng. Std.	V2811	6/22/87	13:35
150 ng. Std.	V2812	6/22/87	14:16
200 ng. Std.	V2813	6/22/87	14:56

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 6/30/87
Lab ID: V2907::D1 Data Release Authorized By:

Project No: 87-13596
Time: 9:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.77
75	30.0 - 60.0% of the base peak	45.94
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.34
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	84.48
175	5.0 - 9.0% of mass 174	7.08 [8.379]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	85.19 [100.8]*1
177	5.0 - 9.0% of mass 176	5.19 [6.096]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V2807	6/30/87	9:26
Working Std.	V2808	6/30/87	11:44
Method Blank	V2812	6/30/87	12:48
FB-1	N7-2921	6/30/87	14:23
W-1/S-1	N7-2904	6/30/87	15:04
W-1/S-2	N7-2905	6/30/87	15:45
W-1/S-3	N7-2906	6/30/87	16:26
W-1/S-4	N7-2907	6/30/87	18:02
W-1/S-5	N7-2908	6/30/87	18:43

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/1/87
Lab ID: V2933::01 Data Release Authorized By:

Project No: 87-13595
Time: 10:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	19.39
75	30.0 - 60.0% of the base peak	46.84
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	8.98
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	79.18
175	5.0 - 9.0% of mass 174	6.43 [8.113]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	78.78 [99.48]*1
177	5.0 - 9.0% of mass 176	6.63 [8.420]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V2933	7/1/87	10:55
Working Std.	V2934	7/1/87	11:28
Method Blank	V2935	7/1/87	12:09
TB-1	N7-2922	7/1/87	12:52
W-1/S-6	N7-2909	7/1/87	13:35
W-1/S-7	N7-2910	7/1/87	14:16
W-1/S-8	N7-2911	7/1/87	14:58
W-1/S-9	N7-2912	7/1/87	15:39
W-1/S-10	N7-2913	7/1/87	16:20
W-1/S-11	N7-2914	7/1/87	17:03
W-1/S-12	N7-2915	7/1/87	18:36
W-1/S-13	N7-2916	7/1/87	19:18
W-1/S-14	N7-2917	7/1/87	20:03

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/3/87
Lab ID: V3000::01 Data Release Authorized By:

Project No: 87-13596
Time: 8:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.70
75	30.0 - 60.0% of the base peak	45.94
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	7.64
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	78.66
175	5.0 - 9.0% of mass 174	6.13 [7.794]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	79.38 [100.9]*1
177	5.0 - 9.0% of mass 176	6.69 [8.425]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V3000	7/3/87	8:46
50 ng. Std.	V3006	7/3/87	13:03
20 ng. Std.	V3003	7/3/87	14:42
100 ng. Std.	V3004	7/3/87	15:24
150 ng. Std.	V3005	7/3/87	16:05
200 ng. Std.	VA562	7/3/87	17:37

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/3/87
Lab ID: VA663::D1 Data Release Authorized By:

Project No: 87-13596
Time: 18:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	18.56
75	30.0 - 60.0% of the base peak	48.39
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	8.87
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	83.02
175	5.0 - 9.0% of mass 174	7.19 [8.661]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	79.14 [95.33]*1
177	5.0 - 9.0% of mass 176	6.73 [8.505]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 175.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	VA663	7/3/87	18:20
Working Std.	V3008	7/3/87	18:45
Method Blank	V3009	7/3/87	19:29
W-1/S-15	N7-2918	7/3/87	20:06
W-1/S-15 MS	N7-2918	7/3/87	20:46
W-1/S-15 MSD	N7-2918	7/3/87	21:27
W-1/S-16	N7-2919	7/3/87	22:07
W-1/S-17	N7-2920	7/3/87	22:47

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

LAB. NO.: 87-13596(A)

P.O. NO.: Pending

July 31, 1987

ANALYTICAL DATA REPORT PACKAGE

FOR

Soil Mechanics

3770 Merrick Road

Seaford, New York 11783

Att: Carl Vernick

Sample Identification	Laboratory Number	Type of Sample	Date and Time of Sample Collection
W-2-S-10	N7-2946	Soil	NA
W-2-S-12	N7-2948	Soil	NA
W-2-S-14	N7-2950	Soil	NA
W-2-S-16	N7-2952	Soil	NA
W-2-S-18	N7-2954	Soil	NA
Trip Blank	N7-2957	Water	NA
Field Blank	N7-2956	Water	NA

NA = Not Available

Report prepared by:

Parag K. Shah, Ph.D.
Organic Lab. Manager

We certify that this report is a true report of results obtained from our tests of this material.

Respectfully submitted,

Nytest Environmental Inc.

Remo Gigante
Laboratory Director

jw

call box 1021 ▫ 75 urban avenue, westbury, n.y. 11590 ▫ (516) 334/7770, (718) 297/1449

Table of Contents

Lab. No. 87-13596(A)

Laboratory Chronicle

Project No: 87-13598

Client Name: Soil Mechanics

Date Recieved: 6/24/87
Sample ID: W-2/S-10,12,14,16,18;FB;TB

Organics Extraction:

1. Acids _____

2. Base/Neutrals _____

3. Pesticides/PCBs _____

4. Dioxin _____

Analysis:

7/4/87

1. Volatiles _____

2. Acids _____

3. Base/Neutrals _____

4. Pesticides/PCBs _____

5. Dioxin _____

Section Supervisor
Review & Approval _____

Inorganics:

1. Metals _____

2. Cyanides _____

3. Phenols _____

Other Analysis:

_____

_____

_____

Section Supervisor
Review & Approval _____

Quality Control Supervisor
Review & Approval _____

If fractions are re-extracted and re-analyzed include dates for both.

000001

nytest environmental inc.

Methodology Summary
NYTEST ENVIRONMENTAL INC.

AQUEOUS SAMPLE PREPARATION - Reference (1)

	Method
Flame Sample Preparation	200.0
Furnace Sample Preparation	200.0
Mercury Sample Preparation	245.1
Hexavalent Chromium Sample Preparation	218.5

NON-AQUEOUS EXTRACTIONS - Reference (2)

SOIL AND SEDIMENT SAMPLES:

Flame, Sample Preparation	3050
Furnace Sample Preparation	3050
Mercury Sample Preparation	7471

SLUDGE/PETROLEUM BASED SAMPLES: - Reference (2)

Flame, Sample Preparation	3010 /3030 /3050
Furnace Sample Preparation	3020 /3030 /3050
Mercury Sample Preparation	7471

FLAME AA (Aqueous/Non-Aqueous) - Reference (1) (2)

Aluminum	202.1
Antimony	204.1/7040
Barium	208.1/7080
Beryllium	210.1/7090
Cadmium	213.1/7130
Chromium	218.1/7190
Cobalt	219.1
Copper	220.1/7210
Iron	236.1/7381
Lead	239.1/7420
Manganese	243.1/7460
Molybdenum	246.1
Nickel	249.1/7520
Potassium	258.1
Silver	272.1/7760
Sodium	273.1/7770
Tin	284.1
Vanadium	286.1/7910
Zinc	289.1/7950

METHODOLOGY SUMMARY - Cont'd

FURNACE AA - Reference (1) (2)	Method
Antimony	204.1/7041
Arsenic	206.2/7060
Lead	239.2/7421
Selenium	270.2/7740
Thallium	279.2/7841
Tin	282.2
Vanadium	286.2/7911

AQUEOUS METHODOLOGIES - Reference (3)	
Organochlorine Pesticides and PCB's by Gas Chromatography	608
Herbicides by Gas Chromatography	362
Purgeable Organics by GC/MS	624
Base/Neutral, Acids by GC/MS	625
2,3,7,8-TCDD by GC/MS	613/625
Petroleum Hydrocarbons - Ref. (1)	418.1

NON-AQUEOUS METHODOLOGIES - Reference (2)	
Gas Chromatography/Mass Spectrometry for:	
Purgeable Organics	8240
Base/Neutral and Acid Extractables	8270
Organochlorine Pesticides and PCB's by Gas Chromatography	8080
Petroleum Hydrocarbons - Ref. (1 & 4)	418.1

MISCELLANEOUS ANALYSIS: Reference 2	Method
Extraction Procedure Toxicity	1310
Ignitability	1010
Corrosivity	1110
Reactivity	Chapt.8.3

REFERENCE:

(1) - 600/4-79-002 Methods for Chemical Analysis of Water and Waste
(2) - SW 846 Test Methods for Evaluating Solid Waste
(3) - 40 CFR Part 136, Vol. 49, No. 209 Test Parameters for the Analysis of Pollutants
(4) - as modified by NJDEP-BISE

ORGANIC DATA REPORTING QUALIFIERS

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g.: If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.)

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action..

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-2/S-10

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No:N7-2946
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13535
Date Sample Received: 6/24/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 4.1

CAS Number		ug/l or ug/kg (Circle One)	CAS Number		ug/l or ug/kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	6.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	17.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	7.0
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			----	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000005

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-2/S-10

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13595

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.442	18 J
2	1066408	Trimethyl Silanol (Colum Bleed)	VOA	15.448	91 J
3		Unknown	VOA	17.785	7 J
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

000096

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-2/S-12

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No:N7-2948
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/26/87

VOLATILE COMPOUNDS

Concentration: (LOW) Medium . (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 4.7

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	9.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	13.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	4.0 J
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-2/S-12

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13556

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1		Unknown	VOA	12.534	2 J
2	1066406	Trimethyl Silanol (Column Bleed)	VOA	15.439	110 J
3		Unknown Hydrocarbon	VOA	17.755	7 J
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: MW-2/S-14

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No:N7-2950
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/24/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 8.7

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	8.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	56.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	1.0 J
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
155-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	8.0
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTH Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-2/S-14

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.605	13 J
2	1056408	Trimethyl Silanol (Column Bleed)	VOA	15.509	190 J
3		Unknown	VOA	16.546	9 J
4		Unknown Hydrocarbon	VOA	17.825	9 J
5		Unknown Siloxane	VOA	31.359	9 J
6		Unknown Hydrocarbon	VOA	35.443	6 J
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

000010

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-2/S-16

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No:N7-2952
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/24/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 4.6

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	8.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

P This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000011

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-2/S-16

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	8.732	8 J
2		Unknown	VOA	12.511	14 J
3	1066405	Trimethyl Silanol (Column Bleed)	VOA	15.437	140 J
4		Unknown	VOA	17.713	9 J
5		Unknown Siloxane	VOA	33.885	4 J
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
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000012

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-2/S-18

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No:N7-2954
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/24/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 6.8

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	5.0 U
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	4.0 J
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000013

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-2/S-18

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.626	8 J
2	1066406	Trimethyl Silanol (Column Bleed)	VOA	15.429	100 J
3	1066405	Trimethyl Silanol (Column Bleed)	VOA	16.079	9 J
4		Unknown	VOA	17.684	6 J
5		Unknown	VOA	31.441	8 J
6		Unknown Siloxane	VOA	33.513	35 J
7		Unknown Hydrocarbon	VOA	35.159	7 J
8					
9					
10					
11					
12					
13					
14					
15					
16					
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Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No:N7-2951
Sample Matrix: WATER
Data Release Authorized By:

QC Report No:
Project No: 87-13598
Date Sample Received: 6/24/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 6.8

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-05-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			----	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U 8 based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: T6

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13555

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		No Compounds Found	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
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22					
23					
24					
25					
26					
27					
28					
29					
30					

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No:N7-2956
Sample Matrix: WATER
Data Release Authorized By:

QC Report No:
Project No: 87-1353S
Date Sample Received: 6/24/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 6.8

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	4.0 BJ	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	2.0 J
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U 8 based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: FB

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/L or ug/Kg)
1		No Compounds Found	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
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28					
29					
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000019

METHOD BLANK SUMMARY

Contractor:NYTEST ENVIRONMENTAL INC.

Project No: 87-13596

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL.TIC OR UNKNOWN)	CONC.	UNITS	CRDL
V3020	7/4/87	VOA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride	10	ug/l	5
						67-64-1	Acetone	8	ug/l	10
					TIC		Unknown	5	ug/l	
							Unknown Siloxane	7	ug/l	
V3041	7/4/87	VOA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride	7	ug/l	5
					TIC		Unknown	6	ug/l	

Comments:

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory:NYTEST ENVIRONMENTAL INC.
Low: Medium:

Project No: 87-13596

	VOLATILE			SEMI-VOLATILE								PESTICIDES
SMO TRAFFIC NO.	TOLUENE-D8 (81-117)	BFB (74-121)	1,2 DICHLOROETHANE-D4 (70-121)	NITROBENZENE-D5 (23-120)	2-FLUOROBIPHENYL (30-115)	TERPHENYL-D14 (18-137)			PHENOL-D5 (24-113)	2-FLUOROPHENOL (25-121)	2,4,6 TRIBROMOPHENOL (19-122)	** DIBUTYLCHLORENDATE (20-150)
W-2/S-10	98	98	100									
W-2/S-12	98	100	102									
W-2/S-14	101	101	102									
W-2/S-16	100	100	102									
W-2/S-18	100	100	102									
W-2/S-18 MS	105	102	97									
W-2/S-18 MSD	105	103	97									

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: 0 out of 21 ; outside of QC limits
Semi-Volatiles out of ; outside of QC limits
Pesticides: out of ; outside of QC limits

Comments:

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory:NYTEST ENVIRONMENTAL INC.

Project No: 87-13596

Low: Medium:

[VOLATILE][SEMI-VOLATILE][PESTICIDES]

SMO TRAFFIC NO.	TOLUENE-D8 (88-110)	BFB (86-115)	1,2 DICHLORO-ETHANE-D4 (76-114)	NITRO-BENZENE-D5 (35-114)	2-FLUORO-BIPHENYL (43-116)	TERPHENYL-D14 (33-141)			PHENOL-D5 (10-94)	2-FLUORO-PHENOL (21-100)	2,4,6 TRIBROMO-PHENOL (10-123)	** DIBUTYL-CHLORENDATE (24-154)
Method Blank	100	100	100									
Method Blank	98	102	98									
Trip Blank	99	100	101									
Field Blank	101	100	100									

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: 0 out of 12 ; outside of QC limits

Semi-Volatiles out of ; outside of QC limits

Pesticides: out of ; outside of QC limits

Comments:

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Contractor:NYTEST ENVIRONMENTAL INC.

Project No:87-13596

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	% RECOVERY	CONC. MSD	% RECOVERY	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA	1,1-Dichloroethene	50.00		41.00	82.00	40.00	80.00	2.47	22	59-172
SMO	Trichloroethene	50.00		57.00	114.00	54.00	108.00	5.41	24	62-137
SAMPLE NO.	Chlorobenzene	50.00		62.00	124.00	58.00	116.00	6.67	21	60-133
W-3/G-19	Toluene	50.00	2.00	76.00	148.00 *	71.00	138.00	6.99	21	59-139
	Benzene	50.00		52.00	104.00	48.00	96.00	8.00	21	66-142
	1,2,4-Trichlorobenzene	50.00			0		0		23	38-107
B/N	Acenaphthene	50.00			0		0		19	31-137
SMO	2,4-Dinitrotoluene	50.00			0		0		47	28-89
SAMPLE NO.									40	11-117
	Pyrene	50.00			0		0		36	35-142
	N-Nitroso-Di-n-Propylamine	50.00			0		0		38	41-126
	1,4-Dichlorobenzene	50.00			0		0		27	28-104
ACID	Pentachlorophenol	100.00			0		0		47	17-109
SMO	Phenol	100.00			0		0		35	26-90
SAMPLE NO.	2-Chlorophenol	100.00			0		0		50	25-102
	4-Chloro-3-Methylphenol	100.00			0		0		33	26-103
	4-Nitrophenol	100.00			0		0		50	11-114
	Lindane	0.20			0.00		0.00		50	46-127
PEST	Heptachlor	0.20			0.00		0.00		31	35-130
SMO	Aldrin	0.20			0.00		0.00		43	34-132
SAMPLE NO.	Dieldrin	0.50			0.00		0.00		38	31-134
	Endrin	0.50			0.00		0.00		45	42-139
	4,4'-DDT	0.50			0.00		0.00		50	23-134

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD:	VOAs	0	out of	5 ;outside QC limits	RECOVERY VOA'S	1	out of	10	;outside QC limits
	B/N		out of	6 ;outside QC limits	B/N		out of	12	;outside QC limits
	ACID		out of	5 ;outside QC limits	ACIDS		out of	10	;outside QC limits
	PEST		out of	6 ;outside QC limits	PEST		out of	12	;outside QC limits

Comments:

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/3/87
Lab ID: V3000::01 Data Release Authorized By:

Project No: 87-13596
Time: 8:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.70
75	30.0 - 60.0% of the base peak	45.94
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	7.84
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	78.55
175	5.0 - 9.0% of mass 174	6.13 [7.79]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	79.38 [100.9]*1
177	5.0 - 9.0% of mass 176	5.69 [8.425]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V3000	7/3/87	8:46
50 ng. Std.	V3005	7/3/87	13:03
20 ng. Std.	V3003	7/3/87	14:42
100 ng. Std.	V3004	7/3/87	15:24
150 ng. Std.	V3005	7/3/87	16:06
200 ng. Std.	VA662	7/3/87	17:37

000023

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/04/87
Lab ID: V3018 Data Release Authorized By:

Project No: 87-13596
Time: 8:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.63
75	30.0 - 60.0% of the base peak	46.93
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	8.90
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	83.16
175	5.0 - 9.0% of mass 174	7.31 [8.787]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.69 [100.6]*1
177	5.0 - 9.0% of mass 176	7.18 [8.585]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V3018	7/4/87	8:08
Working Std.	V3019	7/4/87	8:47
Method Blank	V3020	7/4/87	9:28
TB	N7-2951	7/4/87	10:09
FB	N7-2956	7/4/87	10:49
W-2/S-10	N7-2946	7/4/87	11:35
W-2/S-14	N7-2950	7/4/87	12:57
W-2/S-16	N7-2952	7/4/87	13:38
W-2/S-18	N7-2954	7/4/87	14:20

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/04/87
Lab ID: V3C39::N2 Data Release Authorized By:

Project No. 87-13356
Time: 16:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	22.41
75	30.0 - 60.0% of the base peak	51.55
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	5.55
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	88.18
175	5.0 - 9.0% of mass 174	7.89 [8.950]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	89.03 [101.0]*1
177	5.0 - 9.0% of mass 176	4.75 [5.340]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V3C39	7/4/87	16:32
Working Std.	V3C40	7/4/87	17:15
Method Blank	V3041	7/4/87	17:55
W-3/S-18 MS	N7-3108	7/4/87	22:37
W-3/S-18 MSD	N7-3109	7/4/87	23:17
W-2/S-12	N7-2948	7/4/87	23:57

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

LAB. NO.: 7-13596(B)

P.O. NO.:

ANALYTICAL DATA REPORT PACKAGE

FOR

Soil Mechanics

3770 Merrick Road

Seaford, New York 11783

Att: Carl Vernick

Sample Identification	Laboratory Number	Type of Sample	Date and Time of Sample Collection
W-3-S-10	N7-3105	Soil	NA
W-3-S-12	N7-3106	Soil	NA
W-3-S-14	N7-3107	Soil	NA
W-3-S-16	N7-3108	Soil	NA
W-3-S-18	N7-3109	Soil	NA
Trip Blank	N7-3110	Water	NA
Field Blank	N7-3111	Water	NA

NA = Not Available

Report prepared by:

Parag K. Shah, Ph.D.
Organic Lab. Manager

We certify that this report is a true report of results obtained from our tests of this material.

Respectfully submitted,

Nytest Environmental Inc.

Remo Gigante
Laboratory Director

jw

Table of Contents

Lab. No. 87-13596(B)

Laboratory Chronicle

Project No: 87-13596

Client Name: Soil Mechanics

Date Recieved: 6/25/87
Sample ID: W-3/S-10,12,14,16,18;TB;FB

Organics Extraction:

1. Acids _____
2. Base/Neutrals _____
3. Pesticides/PCBs _____
4. Dioxin _____

Analysis:

7/4/87

1. Volatiles _____
2. Acids _____
3. Base/Neutrals _____
4. Pesticides/PCBs _____
5. Dioxin _____

Section Supervisor
Review & Approval _____

Inorganics:

1. Metals _____
2. Cyanides _____
3. Phenols _____

Other Analysis:

_____

_____

_____

Section Supervisor
Review & Approval _____

Quality Control Supervisor
Review & Approval _____

If fractions are re-extracted and re-analyzed include dates for both.

000091

nytest environmental inc.

Methodology Summary
NYTEST ENVIRONMENTAL INC.

AQUEOUS SAMPLE PREPARATION - Reference (1)

	Method
Flame Sample Preparation	200.0
Furnace Sample Preparation	200.0
Mercury Sample Preparation	245.1
Hexavalent Chromium Sample Preparation	218.5

NON-AQUEOUS EXTRACTIONS - Reference (2)

SOIL AND SEDIMENT SAMPLES:

Flame, Sample Preparation	3050
Furnace Sample Preparation	3050
Mercury Sample Preparation	7471

SLUDGE/PETROLEUM BASED SAMPLES: - Reference (2)

Flame, Sample Preparation	3010 /3030 /3050
Furnace Sample Preparation	3020 /3030 /3050
Mercury Sample Preparation	7471

FLAME AA (Aqueous/Non-Aqueous) - Reference (1) (2)

Aluminum	202.1
Antimony	204.1/7040
Barium	208.1/7080
Beryllium	210.1/7090
Cadmium	213.1/7130
Chromium	218.1/7190
Cobalt	219.1
Copper	220.1/7210
Iron	236.1/7381
Lead	239.1/7420
Manganese	243.1/7460
Molybdenum	246.1
Nickel	249.1/7520
Potassium	258.1
Silver	272.1/7760
Sodium	273.1/7770
Tin	284.1
Vanadium	286.1/7910
Zinc	289.1/7950

nytest environmental inc.

METHODOLOGY SUMMARY - Cont'd

FURNACE AA - Reference (1) (2)	Method
Antimony	204.1/7041
Arsenic	206.2/7060
Lead	239.2/7421
Selenium	270.2/7740
Thallium	279.2/7841
Tin	282.2
Vanadium	286.2/7911

AQUEOUS METHODOLOGIES - Reference (3)

Organochlorine Pesticides and PCB's by Gas Chromatography	608
Herbicides by Gas Chromatography	362
Purgeable Organics by GC/MS	624
Base/Neutral, Acids by GC/MS	625
2,3,7,8-TCDD by GC/MS	613/625
Petroleum Hydrocarbons - Ref. (1)	418.1

NON-AQUEOUS METHODOLOGIES - Reference (2)

Gas Chromatography/Mass Spectrometry for:

Purgeable Organics	8240
Base/Neutral and Acid Extractables	8270
Organochlorine Pesticides and PCB's by Gas Chromatography	8080
Petroleum Hydrocarbons - Ref. (1 & 4)	418.1

MISCELLANEOUS ANALYSIS: Reference 2

	Method
Extraction Procedure Toxicity	1310
Ignitability	1010
Corrosivity	1110
Reactivity	Chapt.8.3

REFERENCE:

(1) - 600/4-79-002 Methods for Chemical Analysis of Water and Waste
(2) - SW 846 Test Methods for Evaluating Solid Waste
(3) - 40 CFR Part 136, Vol. 49, No. 209 Test Parameters for the Analysis of Pollutants
(4) - as modified by NJDEP-BISE

ORGANIC DATA REPORTING QUALIFIERS

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g.: If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.)

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action..

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-3/S-10

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3105
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/25/87

VOLATILE COMPOUNDS

Concentration: (LOW) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 3.1

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	6.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	20.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	1.0 J
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	2.0 J
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-3/S-10

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.525	10 J
2	1066408	Trimethyl Silanol (Column Bleed)	VOA	15.438	72 J
3		Unknown	VOA	17.766	6 J
4		Unknown Siloxane	VOA	32.111	6 J
5					
6					
7					
8					
9					
10					
11					
12					
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14					
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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-3/S-12

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3106
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/25/87

VOLATILE COMPOUNDS

Concentration: (LOW) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 2.4

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	9.0 J	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	3.0 BJ	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	54.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions.. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-3/S-12

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.578	6 J
2	1066408	Trimethyl Silanol (Colum Bleed)	VOA	15.543	9 J
3		Unknown	VOA	17.798	9 J
4		Unknown	VOA	18.875	5 J
5		Unknown	VOA	23.792	6 J
6		Unknown	VOA	28.486	6 J
7		Unknown Siloxane	VOA	31.129	15 J
8					
9					
10					
11					
12					
13					
14					
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30					

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3107
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/25/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 11.7

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	9.0 J	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	10.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	25.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U 8 based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-3/S-14

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.527	10 J
2	1066408	Trimethyl Sianol (Colum Bleed)	VOA	15.412	52 J
3		Unknown	VOA	17.749	7 J
4		Unknown Siloxane	VOA	31.080	22 J
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
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30					

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-3/S-16

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3108
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/25/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 11.5

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	11.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	31.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	7.0
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

060011

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-3/S-16

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.528	10 J
2	1066406	Trimethyl Silanol (Column Bleed)	VOA	15.453	57 J
3		Unknown	VOA	17.728	12 J
4		Unknown Siloxane	VOA	31.139	7 J
5					
6					
7					
8					
9					
10					
11					
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000012

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-3/S-18

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3109
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/25/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 21.9

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	9.0 J	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	21.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	190.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	2.0 J
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			—	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-3/S-18

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.531	15 J
2		Unknown Hydrocarbon	VOA	14.685	14 J
3	1066406	Trimethyl Silanol (Column Bleed)	VOA	15.477	16 J
4		Unknown	VOA	17.752	9 J
5		Unknown Hydrocarbon	VOA	18.463	8 J
6		Unknown Siloxane	VOA	31.182	9 J
7		Unknown Siloxane	VOA	33.173	10 J
8					
9					
10					
11					
12					
13					
14					
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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: TB

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3110
Sample Matrix: WATER
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/25/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture: NA
Percent Moisture (Decanted): NA

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	4.0 BJ
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U 8 based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: TB

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	1066405	Trimethyl Sianol (Colum Bleed)	VOA	15.867	7 J
2		Unknown	VOA	17.751	8 J
3		Unknown Siloxane	VOA	33.379	11 J
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
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Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3111
Sample Matrix: WATER
Data Release Authorized By:

QC Report No:
Project No: 87-1355S
Date Sample Received: 6/25/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): NA

CAS Number		(ug/l) or ug/Kg (Circle One)	CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	2.0 BJ	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	1.0 J
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U 8 based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

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ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: FB

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13996

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	(R) or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		No Compounds Found	VOA		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
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30					

METHOD BLANK SUMMARY

Contractor:NYTEST ENVIRONMENTAL INC.

Project No: 87-13596

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL.TIC OR UNKNOWN)	CONC.	UNITS	CRDL
V3020	7/4/87	VOA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride	10	ug/l	5
						67-64-1	Acetone	8	ug/l	10
					TIC		Unknown	6	ug/l	
							Unknown Siloxane	7	ug/l	
V3041	7/4/87	VOA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride	7	ug/l	5
					TIC		Unknown	6	ug/l	

Comments:

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory:NYTEST ENVIRONMENTAL INC.
Low: Medium:

Project No: 87-13596

	VOLATILE			SEMI-VOLATILE								PESTICIDES
SMO TRAFFIC NO.	TOLUENE-D8 (81-117)	BFB (74-121)	1,2 DICHLORO-ETHANE-D4 (70-121)	NITRO-BENZENE-D5 (23-120)	2-FLUORO-BIPHENYL (30-115)	TERPHENYL-D14 (18-137)			PHENOL-D5 (24-113)	2-FLUORO-PHENOL (25-121)	2,4,6 TRIBROMO-PHENOL (19-122)	** DIBUTYL-CHLORENDATE (20-150)
W-3/S-10	96	102	100									
W-3/S-12	96	102	101									
W-3/S-14	97	98	100									
W-3/S-16	98	102	97									
W-3/S-18	100	100	102									
W-3/S-18 MS	105	102	97									
W-3/S-18 MSD	106	103	97									

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: 0 out of 21 ; outside of QC limits
Semi-Volatiles out of ; outside of QC limits
Pesticides: out of ; outside of QC limits

Comments:

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory:NYTEST ENVIRONMENTAL INC.
Low: Medium:

Project No: 87-13596

[VOLATILE][SEMI-VOLATILE][PESTICIDES]

SMO TRAFFIC NO.	TOLUENE-D8 (88-110)	BFB (86-115)	1,2 DICHLORO-ETHANE-D4 (76-114)	NITRO-BENZENE-D5 (35-114)	2-FLUORO-BIPHENYL (43-116)	TERPHENYL-D14 (33-141)			PHENOL-D5 (10-94)	2-FLUORO-PHENOL (21-100)	2,4,6 TRIBROMO-PHENOL (10-123)	** DIBUTYL-CHLORENDATE (24-154)
Method Blank	100	100	100									
Method Blank	98	102	98									
Field Blank	99	99	98									
Trip Blank	98	100	100									

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: 0 out of 12 ; outside of QC limits
Semi-Volatiles out of ; outside of QC limits
Pesticides: out of ; outside of QC limits

Comments:

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Contractor:NYTEST ENVIRONMENTAL INC. Project No:87-13596

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	% RECOVERY	CONC. MSD	% RECOVERY	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA	1,1-Dichloroethene	50.00		41.00	82.00	40.00	80.00	2.47	22	59-172
SMO	Trichloroethene	50.00		57.00	114.00	54.00	108.00	5.41	24	62-137
SAMPLE NO.	Chlorobenzene	50.00		62.00	124.00	58.00	116.00	6.67	21	60-133
W-3/S-18	Toluene	50.00	2.00	76.00	148.00 *	71.00	138.00	6.99	21	59-139
	Benzene	50.00		52.00	104.00	48.00	96.00	8.00	21	66-142
	1,2,4-Trichlorobenzene	50.00			0		0		23	38-107
B/N	Acenaphthene	50.00			0		0		19	31-137
SMO	2,4-Dinitrotoluene	50.00			0		0		47	28-89
SAMPLE NO.									40	11-117
	Pyrene	50.00			0		0		36	35-142
	N-Nitroso-Di-n-Propylamine	50.00			0		0		38	41-126
	1,4-Dichlorobenzene	50.00			0		0		27	28-104
ACID	Pentachlorophenol	100.00			0		0		47	17-109
SMO	Phenol	100.00			0		0		35	26-90
SAMPLE NO.	2-Chlorophenol	100.00			0		0		50	25-102
	4-Chloro-3-Methylphenol	100.00			0		0		33	26-103
	4-Nitrophenol	100.00			0		0		50	11-114
	Lindane	0.20			0.00		0.00		50	46-127
PEST	Heptachlor	0.20			0.00		0.00		31	35-130
SMO	Aldrin	0.20			0.00		0.00		43	34-132
SAMPLE NO.	Dieldrin	0.50			0.00		0.00		38	31-134
	Endrin	0.50			0.00		0.00		45	42-139
	4,4'-DDT	0.50			0.00		0.00		50	23-134

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD:	VOAs	0	out of	5 ;outside QC limits	RECOVERY VOA'S	1	out of	10	;outside QC limits
	B/N		out of	6 ;outside QC limits	B/N		out of	12	;outside QC limits
	ACID		out of	5 ;outside QC limits	ACIDS		out of	10	;outside QC limits
	PEST		out of	6 ;outside QC limits	PEST		out of	12	;outside QC limits

Comments:

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/3/87
Lab ID: V3000::D1 Data Release Authorized By:

Project No: 87-13556
Time: 8:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.70
75	30.0 - 60.0% of the base peak	45.94
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	7.64
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	78.65
175	5.0 - 9.0% of mass 174	6.13 [7.794]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	79.38 [100.9]*1
177	5.0 - 9.0% of mass 176	6.69 [8.425]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V3000	7/3/87	8:46
50 ng. Std.	V3006	7/3/87	13:03
20 ng. Std.	V3003	7/3/87	14:42
100 ng. Std.	V3004	7/3/87	15:24
150 ng. Std.	V3005	7/3/87	16:05
200 ng. Std.	VA662	7/3/87	17:37

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/04/87
Lab ID: V3018 Data Release Authorized By:

Project No: 87-13596
Time: 8:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.63
75	30.0 - 60.0% of the base peak	46.93
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	8.90
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	83.16
175	5.0 - 9.0% of mass 174	7.31 [8.787]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.69 [100.6]*1
177	5.0 - 9.0% of mass 176	7.18 [8.535]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V3018	7/4/87	8:08
Working Std.	V3019	7/4/87	8:47
Method Blank	V3020	7/4/87	9:28
TB	N7-3110	7/4/87	15:02
FB	N7-3111	7/4/87	15:47

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/04/87
Lab ID: V3039::N2 Data Release Authorized By:

Project No: 87-13556
Time: 16:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	22.41
75	30.0 - 60.0% of the base peak	51.95
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	5.55
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	88.18
175	5.0 - 9.0% of mass 174	7.89 [8.950]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	89.03 [101.0]*1
177	5.0 - 9.0% of mass 176	4.75 [5.340]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V3039	7/4/87	16:32
Method Blank	V3041	7/4/87	17:55
W-3/S-10	N7-3105	7/4/87	19:16
W-3/S-12	N7-3106	7/4/87	19:56
W-3/S-14	N7-3107	7/4/87	20:37
W-3/S-16	N7-3108	7/4/87	21:17
W-3/S-18	N7-3109	7/4/87	21:57
W-3/S-18 MS	N7-3109	7/4/87	22:37
W-3/S-18 MSD	N7-3109	7/4/87	23:17

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT
nytest environmental inc.

LAB. NO.:87-13596(C)

P.O. NO.: Pending

July 31, 1987

ANALYTICAL DATA REPORT PACKAGE

FOR

Soil Mechanics

3770 Merrick Road

Seaford, New York 11783

Att: Carl Vernick

Sample Identification	Laboratory Number	Type of Sample	Date and Time of Sample Collection
W-4-S-13	N7-3112	Soil	NA
W-4-S-15	N7-3113	Soil	NA
W-4-S-17	N7-3114	Soil	NA
W-4-S-19	N7-3114	Soil	NA
W-4-S-21	N7-3116	Soil	NA
Trip Blank	N7-3117	Water	NA
Field Blank	N7-3118	Water	NA

NA = Not Available

Report prepared by:

Parag K. Shah, Ph.D.
Organic Lab. Manager

We certify that this report is a true report of results obtained from our tests of this material.

Respectfully submitted,

Nytest Environmental Inc.

Remo Gigante
Laboratory Director

jw

Table of Contents

Lab. No. 87-13596(C)

Laboratory Chronicle

Project No: 87-10385

Client Name: Soil Mechanics

Date Recieved: 6/25/87
Sample ID: W-4/S-13,15,17,19,21;TB;FB

Organics Extraction:

1. Acids _____

2. Base/Neutrals _____

3. Pesticides/PCBs _____

4. Dioxin _____

Analysis:

7/4/87 - 7/5/87

1. Volatiles _____

2. Acids _____

3. Base/Neutrals _____

4. Pesticides/PCBs _____

5. Dioxin _____

Section Supervisor
Review & Approval _____

Inorganics:

1. Metals _____

2. Cyanides _____

3. Phenols _____

Other Analysis:

_____

_____

_____

Section Supervisor
Review & Approval _____

Quality Control Supervisor
Review & Approval _____

If fractions are re-extracted and re-analyzed include dates for both.

000091

nytest environmental inc.

Methodology Summary
NYTEST ENVIRONMENTAL INC.

AQUEOUS SAMPLE PREPARATION - Reference (1)

	Method
Flame Sample Preparation	200.0
Furnace Sample Preparation	200.0
Mercury Sample Preparation	245.1
Hexavalent Chromium Sample Preparation	218.5

NON-AQUEOUS EXTRACTIONS - Reference (2)

SOIL AND SEDIMENT SAMPLES:

Flame, Sample Preparation	3050
Furnace Sample Preparation	3050
Mercury Sample Preparation	7471

SLUDGE/PETROLEUM BASED SAMPLES: - Reference (2)

Flame, Sample Preparation	3010 /3030 /3050
Furnace Sample Preparation	3020 /3030 /3050
Mercury Sample Preparation	7471

FLAME AA (Aqueous/Non-Aqueous) - Reference (1) (2)

Aluminum	202.1
Antimony	204.1/7040
Barium	208.1/7080
Beryllium	210.1/7090
Cadmium	213.1/7130
Chromium	218.1/7190
Cobalt	219.1
Copper	220.1/7210
Iron	236.1/7381
Lead	239.1/7420
Manganese	243.1/7460
Molybdenum	246.1
Nickel	249.1/7520
Potassium	258.1
Silver	272.1/7760
Sodium	273.1/7770
Tin	284.1
Vanadium	286.1/7910
Zinc	289.1/7950

METHODOLOGY SUMMARY - Cont'd

FURNACE AA - Reference (1) (2)	Method
Antimony	204.1/7041
Arsenic	206.2/7060
Lead	239.2/7421
Selenium	270.2/7740
Thallium	279.2/7841
Tin	282.2
Vanadium	286.2/7911

AQUEOUS METHODOLOGIES - Reference (3)

Organochlorine Pesticides and PCB's by Gas Chromatography	608
Herbicides by Gas Chromatography	362
Purgeable Organics by GC/MS	624
Base/Neutral, Acids by GC/MS	625
2,3,7,8-TCDD by GC/MS	613/625
Petroleum Hydrocarbons - Ref. (1)	418.1

NON-AQUEOUS METHODOLOGIES - Reference (2)

Gas Chromatography/Mass Spectrometry for:

Purgeable Organics	8240
Base/Neutral and Acid Extractables	8270
Organochlorine Pesticides and PCB's by Gas Chromatography	8080
Petroleum Hydrocarbons - Ref. (1 & 4)	418.1

MISCELLANEOUS ANALYSIS: Reference 2

	Method
Extraction Procedure Toxicity	1310
Ignitability	1010
Corrosivity	1110
Reactivity	Chapt.8.3

REFERENCE:

(1) - 600/4-79-002 Methods for Chemical Analysis of Water and Waste
(2) - SW 846 Test Methods for Evaluating Solid Waste
(3) - 40 CFR Part 136, Vol. 49, No. 209 Test Parameters for the Analysis of Pollutants
(4) - as modified by NJDEP-BISE

ORGANIC DATA REPORTING QUALIFIERS

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g.: If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.)

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3112
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13536
Date Sample Received: 6/30/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/6/87
Conc/Dil Factor: 1 pH:
Percent Moisture: NA
Percent Moisture (Decanted): 3.3

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	7.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	35.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	9.0
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U 8 based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

P This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

SAMPLE NUMBER: W-4/S-13

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13598

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.552	6 J
2	1066405	Trimethyl Sianol (Column Bleed)	VOA	15.919	5 J
3		Unknown hydrocarbon	VOA	17.792	8 J
4					
5					
6					
7					
8					
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30					

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3113
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/26/87

VOLATILE COMPOUNDS

Concentration: (LOW) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/6/87
Conc/Dil Factor: 1 pH:
Percent Moisture: NA
Percent Moisture (Decanted): 3.3

CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	5.0 B
67-64-1	Acetone	12.0 B
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or (ug/Kg) (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. "10 U" based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. "3J").

P This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

C000097

SAMPLE NUMBER: [illegible]

Contractor: NYTEST ENVIRONMENTAL INC.
Project No. 87-[illegible]3555

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.595	6 J
2		Unknown	VOA	17.705	7 J
3		Unknown	VOA	31.335	5 J
4		Unknown Siloxane	VOA	33.574	17 J
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
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29					
30					

[illegible]

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3174
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No. 87-1053S
Date Sample Received: 6/25/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/6/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 0.32

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	8.0 BJ	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	1.0 J
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

SAMPLE NUMBER: W-4/5-17

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 97-[illegible]5

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	12.715	9 J
2	1066408	Trimethyl Silanol (Column Bleed)	VOA	15.513	45 J
3		Unknown	VOA	17.043	5 J
4		Unknown	VOA	17.713	11 J
5		Unknown	VOA	18.837	5 J
6		Unknown	VOA	31.815	5 J
7					
8					
9					
10					
11					
12					
13					
14					
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16					
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30					

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3175
Sample Matrix: SOIL
Data Release Authorized By:

QC Report No:
Project No. 87-13838
Date Sample Received: 7/3/87

VOLATILE COMPOUNDS

Concentration: LOW (Circle One) Medium
Date Extracted/Prepared: NA
Date Analyzed: 7/5/87
Conc/Dil Factor: 1 pH:
Percent Moisture: NA
Percent Moisture (Decanted): 5.8

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	96-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	10.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	34.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	2.0 J
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			----	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification [illegible] than zero (e.g. 7J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

SAMPLE NUMBER: A-4/S-19

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13556

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1		Unknown	VOA	14.721	10 J
2	1066408	Trimethyl Silanol (Column Bleed)	VOA	15.493	28 J
3		Unknown	VOA	16.916	11 J
4		Unknown	VOA	17.607	25 J
5		Unknown	VOA	18.480	10 J
6		Unknown	VOA	33.651	28 J
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
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29					
30					

SAMPLE NUMBER: W-4/5-1

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: V7-3116
Sample Matrix: SOIL
Data Release Authorized By:

CF Report No:
Project No: 87-13596
Date Sample Received: 6/08/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium - (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/5/87
Conc/Dil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 16.6

CAS Number		ug/l or (ug/Kg) (Circle One)	CAS Number		ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	125.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			----	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection C limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 : 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

SAMPLE NUMBER: W-4/3-21

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13556

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1		Unknown	VOA	8.230	25 J
2		Unknown	VOA	12.744	27 J
3	1066408	Trimethyl Silanol (Column Bleed)	VOA	15.536	70 J
4		Unknown	VOA	16.584	7 J
5		Unknown Siloxane	VOA	31.692	9 J
6		Unknown Siloxane	VOA	34.356	99 J
7					
8					
9					
10					
11					
12					
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30					

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3117
Sample Matrix: WATER
Data Release Authorized By:

QC Report No:
Project No: 87-13595
Date Sample Received: 6/23/87

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/5/87
Conc/Dil Factor: 1 pH:
Percent Moisture: NA
Percent Moisture (Decanted): NA

CAS Number		ug/L or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	8.0 B
67-64-1	Acetone	7.0 J
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/L or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	1.0 J
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U 8 based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 5J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: TB

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13596

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/L or ug/Kg)
1	Unknown Hydrocarbon	VOA	23.401	3 J
2	Unknown	VOA	25.999	10 J
3	Unknown Hydrocarbon	VOA	27.771	21 J
4	Unknown Hydrocarbon	VOA	31.290	10 J
5	Unknown Siloxane	VOA	33.729	25 J
6				
7				
8				
9				
10				
11				
12				
13				
14				
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Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-3118
Sample Matrix: WATER
Data Release Authorized By:

QC Report No:
Project No: 87-13596
Date Sample Received: 6/25/87

VOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/6/87
Conc/Dil Factor: 1 pH:
Percent Moisture: NA
Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	6.0 B
67-64-1	Acetone	18.0 B
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	6.0
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
---	Total Xylenes	5.0 U

For reporting results to EPA, t
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHER Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: FB

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 97-13596

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/L or ug/Kg)
1	Unknown	VOA	17.765	7 J
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
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28				
29				
30				

METHOD BLANK SUMMARY

Contractor:NYTEST ENVIRONMENTAL INC.

Project No: 87-[illegible]SS6

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL.TIC OR UNKNOWN)	CONC.	UNITS	CRDL
V3041	7/4/87	VOA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride	7	ug/l	5
					TIC		Unknown	6	ug/l	
V3048	7/5/87	VOA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride	5	ug/l	5
						67-64-1	Acetone	12	ug/l	10
					TIC		Unknown	15	ug/l	

Comments:

[illegible]

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory: NYTEST ENVIRONMENTAL INC.
Low: Medium:

Project No: 87-13596

	VOLATILE			SEMI-VOLATILE								PESTICIDES
SMO TRAFFIC NO.	TOLUENE-D8 (88-110)	BFB (86-115)	1,2 DICHLORO-ETHANE-D4 (76-114)	NITRO-BENZENE-D5 (35-114)	2-FLUORO-BIPHENYL (43-116)	TERPHENYL-D14 (33-141)			PHENOL-D5 (10-94)	2-FLUORO-PHENOL (21-100)	2,4,6 TRIBROMO-PHENOL (10-123)	** DIBUTYL-CHLORENDATE (24-154)
Method Blank	98	102	98									
Method Blank	97	110	102									
Trip Blank	95	94	92									
Field Blank	98	111	95									

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles:	0 out of 12	; outside of QC limits
Semi-Volatiles	out of	; outside of QC limits
Pesticides:	out of	; outside of QC limits

Comments:

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory:NYTEST ENVIRONMENTAL INC.
Low: Medium:

Project No: 87-13596

	VOLATILE			SEMI-VOLATILE							PESTICIDES
SMO TRAFFIC NO.	TOLUENE-D8 (81-117)	BFB (74-121)	1,2 DICHLORO-ETHANE-D4 (70-121)	NITRO-BENZENE-D5 (23-120)	2-FLUORO-BIPHENYL (30-115)	TERPHENYL-D14 (18-137)			PHENOL-D5 (24-113)	2-FLUORO-PHENOL (25-121)	2,4,6 TRIBROMO-PHENOL (19-122)	** DIBUTYL-CHLORENDATE (20-150)
W-4/S-13	96	100	101									
W-4/S-15	96	110	100									
W-4/S-17	97	110	101									
W-4/S-19	95	91	96									
W-4/S-21	95	116	110									
W-3/S-18 MS	105	102	97									
W-3/S-18 MSD	106	103	97									

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: 0 out of 21 ; outside of QC limits
Semi-Volatiles out of ; outside of QC limits
Pesticides: out of ; outside of QC limits

Comments:

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Contractor:NYTEST ENVIRONMENTAL INC. Project No.87-1355

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	% RECOVERY	CONC. MSD	% RECOVERY	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA	1,1-Dichloroethene	50.00		41.00	82.00	40.00	80.00	2.47	22	59-172
SMO	Trichloroethene	50.00		57.00	114.00	54.00	108.00	5.41	24	62-137
SAMPLE NO.	Chlorobenzene	50.00		62.00	124.00	58.00	116.00	6.67	21	60-133
W-3/S-18	Toluene	50.00	2.00	76.00	148.00 *	71.00	138.00	6.99	21	59-139
	Benzene	50.00		52.00	104.00	48.00	96.00	8.00	21	66-142
	1,2,4-Trichlorobenzene	50.00		0	0		0		23	39-107
B/N	Acenaphthene	50.00		0	0		0		19	31-137
SMO	2,4-Dinitrotoluene	50.00		0	0		0		47	28-89
SAMPLE NO.									40	11-117
	Pyrene	50.00		0	0		0		36	35-142
	N-Nitroso-Di-n-Propylamine	50.00		0	0		0		38	41-126
	1,4-Dichlorobenzene	50.00		0	0		0		27	28-104
ACID	Pentachlorophenol	100.00		0	0		0		47	17-109
SMO	Phenol	100.00		0	0		0		35	26-90
SAMPLE NO.	2-Chlorophenol	100.00		0	0		0		50	25-102
	4-Chloro-3-Methylphenol	100.00		0	0		0		33	26-103
	4-Nitrophenol	100.00		0	0		0		50	11-114
	Lindane	0.20		0.00	0.00		0.00		50	46-127
PEST	Heptachlor	0.20		0.00	0.00		0.00		31	35-130
SMO	Aldrin	0.20		0.00	0.00		0.00		43	34-132
SAMPLE NO.	Dieldrin	0.50		0.00	0.00		0.00		38	31-134
	Endrin	0.50		0.00	0.00		0.00		45	42-139
	4,4'-DDT	0.50		0.00	0.00		0.00		50	23-134

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD:	VOAs	0	out of	5	;outside QC limits	RECOVERY VOA'S	1	out of	10	;outside QC limits
	B/N		out of	6	;outside QC limits	B/N		out of	12	;outside QC limits
	ACID		out of	5	;outside QC limits	ACIDS		out of	10	;outside QC limits
	PEST		out of	6	;outside QC limits	PEST		out of	12	;outside QC limits

Comments:

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/3/87
Lab ID: V3000::D1 Data Release Authorized By:

Project No: 87-3595
Time: 8:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.70
75	30.0 - 60.0% of the base peak	45.94
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	7.84
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	78.56
175	5.0 - 9.0% of mass 174	5.13 (7.794)*1
176	Greater than 95.0%, but less than 101.0% of mass 174	76.38 (100.9)*1
177	5.0 - 9.0% of mass 176	6.69 (8.425)**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V3000	7/3/87	8:45
50 ng. Std.	V3005	7/3/87	13:03
20 ng. Std.	V3003	7/3/87	14:42
100 ng. Std.	V3004	7/3/87	15:24
150 ng. Std.	V3005	7/3/87	16:05
200 ng. Std.	VA662	7/3/87	17:37

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/04/87
Lab ID: V3039::N2 Data Release Authorized By: [signature]

Project No: 87-13598
Time: 16:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	22.41
75	30.0 - 60.0% of the base peak	51.95
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	5.55
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	88.16
175	5.0 - 9.0% of mass 174	7.89 [8.950]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	89.03 [101.0]*1
177	5.0 - 9.0% of mass 176	4.75 [5.340]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V3039	7/4/87	16:32
Working Std.	V3040	7/4/87	17.15
Method Blank	V3041	7/4/87	17:55
W-3/S-18 MS	N7-3109	7/4/87	22:37
W-3/S-18 MSD	N7-3109	7/4/87	23:17
TB	N7-3117	7/5/87	1:13
W-4/S-19	N7-3115	7/5/87	2:09

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor:NYTEST ENVIRONMENTAL INC. Project No. 87-1355
Instrument ID: NYT 1 Date: 7/06/87 Time: 9:10
Lab ID: V3045::N2 Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	18.13
75	30.0 - 60.0% of the base peak	45.33
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	8.00
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	80.33
175	5.0 - 9.0% of mass 174	5.92 [7.191]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	79.74 [98.85]*1
177	5.0 - 9.0% of mass 176	6.75 [8.459]**2

* Value in parenthesis is % mass 174.
** Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V3045	7/6/87	9:10
Working Std.	V3046	7/6/87	11:42
Method Blank	V3047	7/6/87	12:23
FB	N7-3112	7/6/87	13:19
W-4/S-13	N7-3112	7/6/87	14:01
W-4/S-15	N7-3113	7/6/87	14:44
W-4/S-17	N7-3114	7/6/87	15:56
W-4/S-21	N7-3116	7/6/87	17:29

Date _____

COVER PAGE

ANAYLTICAL DATA PACKAGE

Lab Name NYTEST ENVIRONMENTAL Case No. _____

SOW No. _____ Q.C. Report No. 00132-87

Sample Numbers

Soil/M No.	Lab ID No.		Soil/M No.	Lab ID No.
W-1 S-1	8713596	1	W-1 S-10	8713596
W-1 S-2		1	W-1 S-11	
W-1 S-3		1	W-1 S-12	
W-1 S-4		1	W-1 S-13	
W-1 S-5		1	W-1 S-14	
W-1 S-6		1	W-1 S-15	
W-1 S-7		1	W-1 S-16	
W-1 S-8		1	W-1 S-17	
W-1 S-9		1	FB-1	

Comments: _____

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., IOU).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method fo standard addition is less than 0.995.

Date _____

COVER PAGE

ANAYLTICAL DATA PACKAGE

Lab Name NYTEST ENVIRONMENTAL Case No. _____

SOW No. _____ Q.C. Report No. 00132-87

Sample Numbers

Soil M No.	Lab ID No.		Soil M No.	Lab ID No.
W-2-S-10	8713596	1	W-3-S-16	8713596
W-2-S-12		1	W-3-S-18	
W-2-S-14		1	Field Blank	
W-2-S-16		1	W-4-S-13	
W-2-S-18		1	W-4-S-15	
Field Blanks		1	W-4-S-17	
W-3-S-10		1	W-4-S-19	
W-3-S-12		1	W-4-S-21	
W-3-S-14		1	Field Blank	

Comments: _____

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., IOU).

E - Indicates a value estimated or not reported due to the presence of interferenoe. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method fo standard addition is less than 0.995.

W-1 S-1 EPtox
Sample No.
6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-1 6-23 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	2U	15. Mercury	.13U
4. Barium	100U	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	[2]F
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	25	24. Zinc	
Cyanide		Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-1 S-2 EPtox
Sample No.

6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-2 6-23 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	2U	15. Mercury	.13U
4. Barium	100U	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	[3]F
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	35	24. Zinc	
Cyanide		Percent Solids (1)	

ICP Interelement and background corrections applied? Yes _____ No _____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-1 S-3 EPtox
Sample No.

6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-3 6-23 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	2U	15. Mercury	.13U
4. Barium	100U	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	[2]F
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	2I	24. Zinc	
Cyanide		Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR = not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar encouraged. Definition of such flags must be explicit and contained on Cover Page. however.

Comments: _____

W-1 S-4 EPtox
Sample No.
6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-4 6-23 EPtox OR REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	2U	15. Mercury	.13U
4. Barium	100U	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	8
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	22	24. Zinc	
Cyanide		Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar encouraged. Definition of such flags must be explicit and contained on Cover Page. however.

Comments: _____

W-1 S-5 EPtox
Sample No.

6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-5 - 6-23-87 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	2U	15. Mercury	.13U
4. Barium	100U	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	E2JF
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	21	24. Zinc	
Cyanide		Percent Solids (1)	

ICP Interelement and background corrections applied? Yes _____ No _____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-1 S-6 EPtox
Sample No.

6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-6 6-23 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	2U	15. Mercury	.13U
4. Barium	100U	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	2U
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	75	24. Zinc	
Cyanide		Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

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Comments: _____

W-1 S-7 EPtox
Sample No.
6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SDG NO. _____

LAB SAMPLE ID NO. W-1 S-7 6-23 EPtox OR REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	2U	15. Mercury	.13U
4. Barium	1004	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	2U
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	26	24. Zinc	
Cyanide		Percent Solids (%)	

ICP Interelement and background corrections applied? Yes _____ No _____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR = not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-1 S-8 EPtox
Sample No.
6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SDG NO. _____

LAB SAMPLE ID NO. W-1 S-8 6-23 EPtox OR REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

ug/L or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	2U	15. Mercury	.13U
4. Barium	210	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	2U
7. Calcium	NR	19. Silver	5U
8. Chromium	11	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper		22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	142	24. Zinc	
Cyanide		Percent Solids (%)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-1 S-9 EPtox
Sample No.

6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SDG NO. _____

LAB SAMPLE ID NO. W-1 S-9 6-23 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	[4]F	15. Mercury	.13U
4. Barium	100U	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	[2]F
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	19	24. Zinc	
Cyanide		Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR = not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-1 S-10 EPtox
Sample No.
6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SDG NO. _____

LAB SAMPLE ID NO. W-1 S-10 6-23-87 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	[2]F	15.	Mercury	.13U
4.	Barium	100U	16.	Nickel	NR
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	NR	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	27	24.	Zinc	
	Cyanide			Percent Solids (1)	

ICP Interelement and background corrections applied? Yes _____ No _____

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-1 S-11 EPtox
Sample No.
6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SDG NO. _____

LAB SAMPLE ID NO. W-1 S-11 6-23 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	[4] F	15. Mercury	.13U
4. Barium	[160] P	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	2U
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	26	24. Zinc	
Cyanide		Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-1 J-12 EPtox
Sample No.
6-23-89

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SDG NO. _____

LAB SAMPLE ID NO. W-1 J-12 6-23 EPtox OC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	[4] F	15. Mercury	.13U
4. Barium	[190] P	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	2U
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	23	24. Zinc	
Cyanide		Percent Solids (1)	

ICP Interelement and background corrections applied? Yes _____ No _____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W1-S-13 EPtox
Sample No.
6-23

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-13 6-23 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	[4]F	15. Mercury	.13U
4. Barium	100U	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	2U
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	181	24. Zinc	
Cyanide		Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-1 S-14 EPtox
Sample No.
6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-14 6-23 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	[3]F	15. Mercury	.13U
4. Barium	[100]P	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	2U
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	42	24. Zinc	
Cyanide		Percent Solids (1)	

ICP Interelement and background corrections applied? Yes _____ No _____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR = not required by contract at this time

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Comments: _____

W-1 S-15 EPtox
Sample No.

6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-15 6-23 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	2U	15. Mercury	.13U
4. Barium	[100]P	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	1.24
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	24	24. Zinc	
Cyanide		Percent Solids (%)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-1 S-16 EPtox
Sample No.
6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-16 6-23 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	[3]F	15.	Mercury	.13U
4.	Barium	[120]P	16.	Nickel	NR
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	NR	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	27	24.	Zinc	
	Cyanide			Percent Solids (%)	

ICP Interelement and background corrections applied? Yes _____ No _____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-1 S-17 EPtox
Sample No.
6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-17 6-23-87 EPtox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	[4] F	15. Mercury	.13U
4. Barium	100U	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	.2U
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	2J	24. Zinc	
Cyanide		Percent Solids (%)	

ICP Interelement and background corrections applied? Yes ____ No ____

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Field Blank Eptox
Sample No.
6-2387

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. Eptox QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other Eptox

(ug/L) or mg/kg dry weight (Circle One)

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	2U	15. Mercury	.13U
4. Barium	100U	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	3U	18. Selenium	2U
7. Calcium	NR	19. Silver	5U
8. Chromium	9U	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	NR	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	26	24. Zinc	
Cyanide		Percent Solids (%)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-2-5-10 EPtox
[redacted] Sample No.
6-24-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SDG NO. _____

LAB SAMPLE ID NO. _____ QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	2U	15.	Mercury	.13U
4.	Barium	[130JP	16.	Nickel	15U
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR.	21.	Thallium	NR
10.	Copper	10U	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	1U	24.	Zinc	2U
	Cyanide			Percent Solids (%)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-2-S-12 EPtox
Sample No.

6-24-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SDG NO. _____

LAB SAMPLE ID NO. W-2-S-12 EPtox 6-24 QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	2U	15.	Mercury	.13U
4.	Barium	[140] P	16.	Nickel	15U
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	10U	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	1U	24.	Zinc	2U
	Cyanide			Percent Solids (%)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

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Comments: _____

W-2-S-14 EPtox
Sample No.

6-24-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-2-S-14 EPtox 6-24 QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low / Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	2U	15.	Mercury	.13U
4.	Barium	[150] P	16.	Nickel	15U
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	10U	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	1U	24.	Zinc	2U
	Cyanide			Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

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Comments: _____

W-2-5-16 EPtox
Sample No.

6-24-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-2-5-16 EPtox 6-24 QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	2U	15.	Mercury	.13U
4.	Barium	[150]P	16.	Nickel	15U
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	10U	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	1U	24.	Zinc	[6]P
	Cyanide			Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

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Comments: _____

W-2-S-18 EPtox
Sample No.

6-24-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: NYTEST ENVIRONMENTAL CASE NO. _____

SDG NO. _____

LAB SAMPLE ID NO. W-2-S-18 EPtox 6-24. QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	2U	15.	Mercury	.13U
4.	Barium	[130]P	16.	Nickel	15U
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	10U	22.	Tin	NR
11.	Iron	10U	23.	Vanadium	NR
12.	Lead	10	24.	Zinc	2U
	Cyanide			Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar eencouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Field Blank
Sample No.
6-24-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. Field Blank 6-24-87 QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	2U	15.	Mercury	.13U
4.	Barium	100U	16.	Nickel	15U
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	10U	22.	Tin	NR
11.	Iron	10U	23.	Vanadium	NR
12.	Lead	1U	24.	Zinc	2U
	Cyanide			Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

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Comments: _____

W-3-S-10 EPtox
Sample NO.

6-25

INORGANIC ANALYSIS DATA SHEET

LAB NAME: NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-3-S-10 EPtox 6-25 QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	2U	15.	Mercury	1.3
4.	Barium	100U	16.	Nickel	15U
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	10U	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	2U	24.	Zinc	23
	Cyanide			Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar eencouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-3-S-12 EPtox
Sample No.

6-25-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: NYTEST ENVIRONMENTAL CASE NO. _____

SDG NO. _____

LAB SAMPLE ID NO. W-3-S-12 EPtox 6-25-87 QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	[2] F	15.	Mercury	.13U
4.	Barium	100U	16.	Nickel	[20]P
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	[17]P	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	43	24.	Zinc	2U
	Cyanide			Percent Solids (%)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar eencouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-3-S-14 EPtox
Sample No.

6-25-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-3-S-14 EPtox 6-25 QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	24	15.	Mercury	.13U
4.	Barium	100U	16.	Nickel	15U
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	10U	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	44	24.	Zinc	2U
	Cyanide			Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar eencouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-3-S-16 EPtox
Sample No.

6-25-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SDG NO. _____

LAB SAMPLE ID NO. W-3-S-16 EPtox 6-25 QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	2U	15.	Mercury	.13U
4.	Barium	100U	16.	Nickel	15U
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	10U	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	48	24.	Zinc	2U
	Cyanide			Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar eencouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

W-3-S-18 EPtox
Sample No.
6-25-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-3-S-18 EPtox 6-25 QC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other EPtox

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	NR	13.	Magnesium	NR
2.	Antimony	NR	14.	Manganese	NR
3.	Arsenic	2U	15.	Mercury	.13U
4.	Barium	100U	16.	Nickel	15U
5.	Beryllium	NR	17.	Potassium	NR
6.	Cadmium	3U	18.	Selenium	2U
7.	Calcium	NR	19.	Silver	5U
8.	Chromium	9U	20.	Sodium	NR
9.	Cobalt	NR	21.	Thallium	NR
10.	Copper	[10] F	22.	Tin	NR
11.	Iron	NR	23.	Vanadium	NR
12.	Lead	1U	24.	Zinc	2U
	Cyanide			Percent Solids (1)	

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDEC, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results ar eencouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____