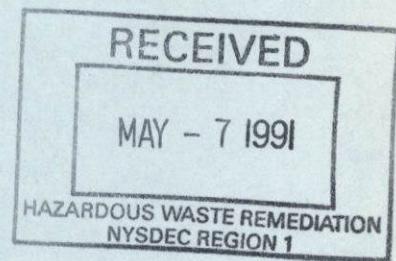


HYDROGEOLOGIC INVESTIGATION

CERRO CONDUIT SITE SYOSSET, N.Y.



DECEMBER 1987



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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CERRO CONDUIT SITE

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HYDROGEOLOGIC INVESTIGATION

CERRO CONDUIT SITE

SYOSSET, N.Y.

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

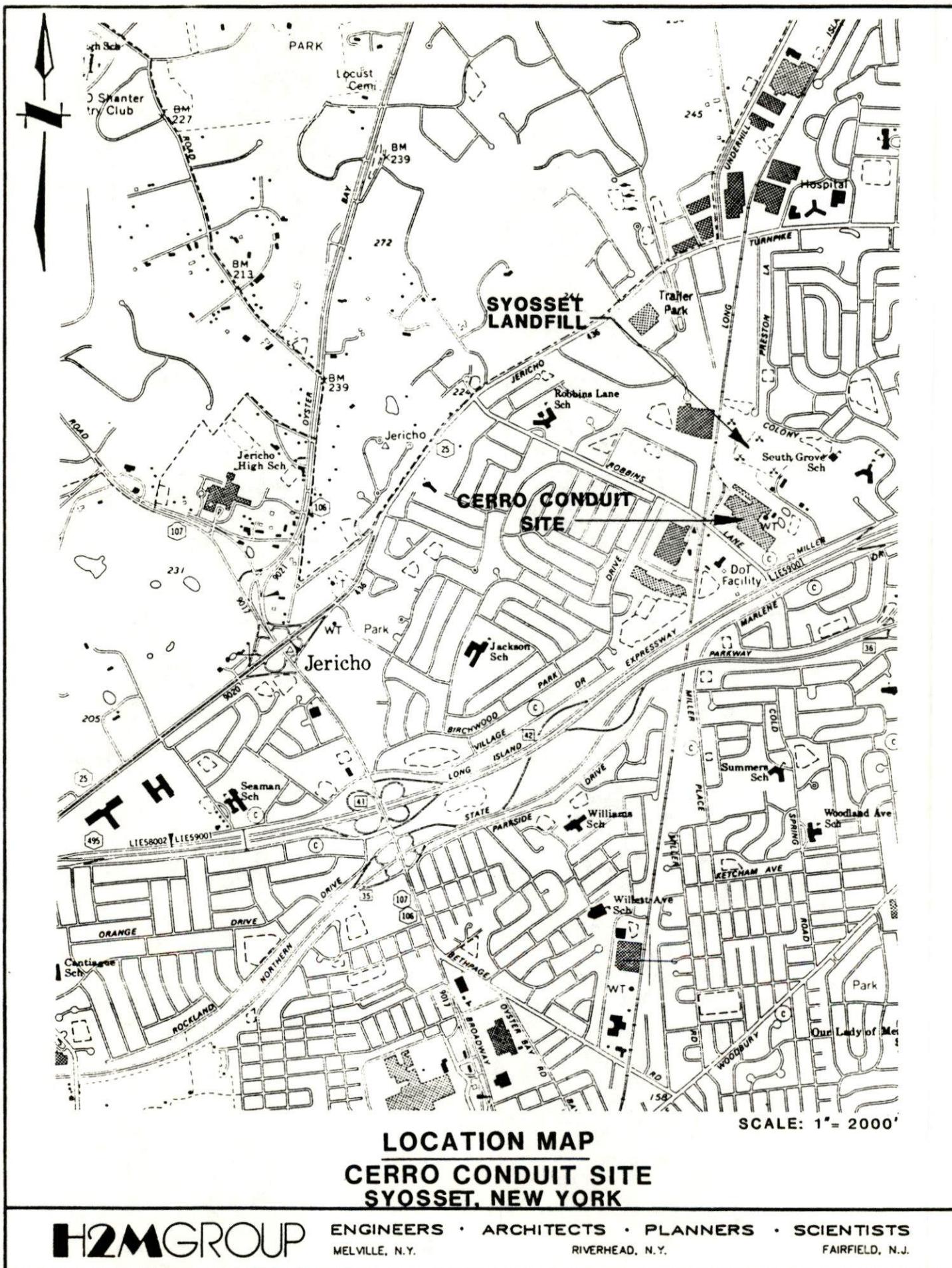
The Cerro Conduit site is located along Robbins Lane and Miller Place in Syosset, New York. It is bounded on the north by an inactive landfill and on the west by the Long Island Rail Road (Figure 1). The total area of the site is approximately 40 acres.

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



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

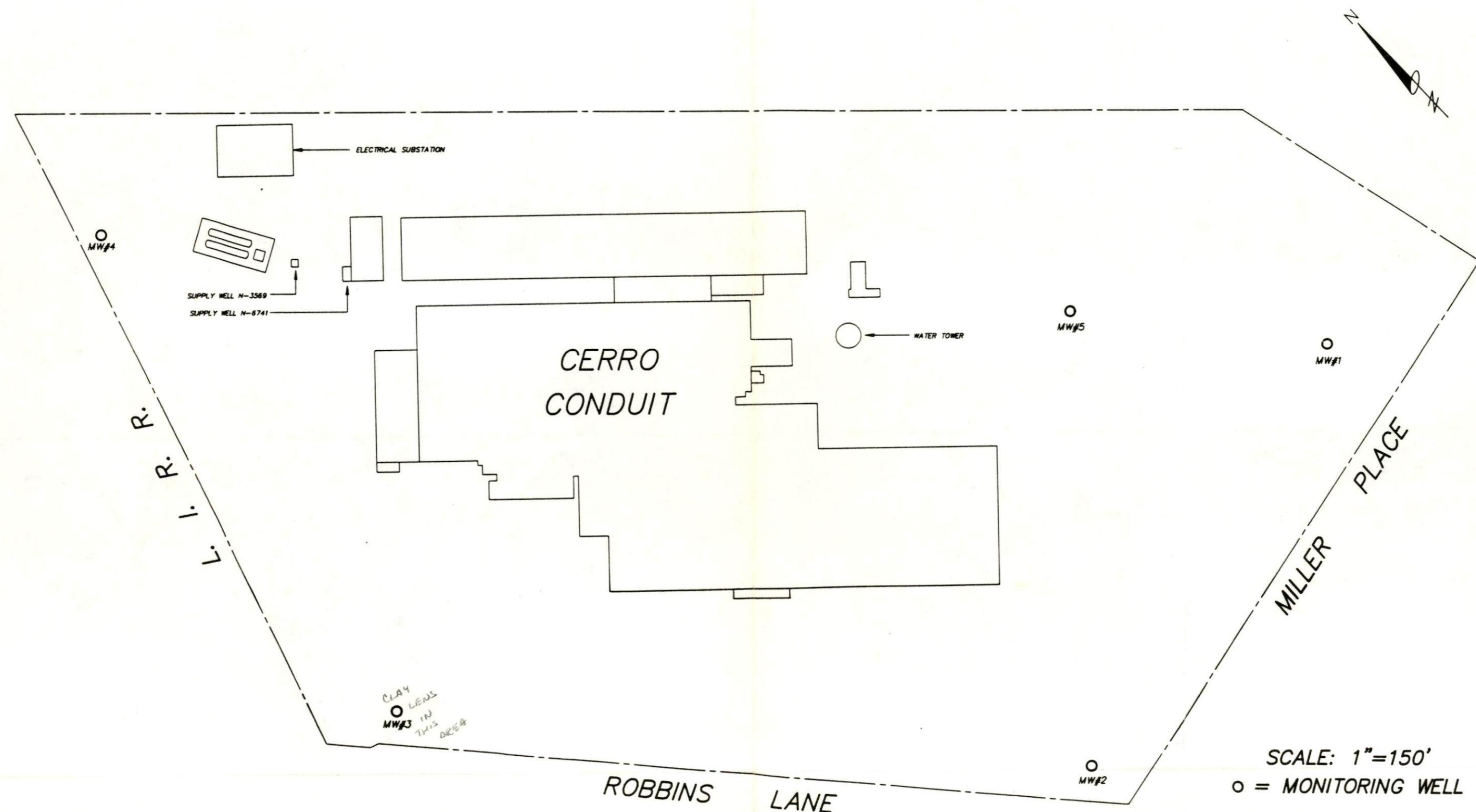
Four on-site monitoring wells were installed for this study during July/August 1987. A pre-existing monitoring well (MW #5), installed under the supervision of a geologist from H2M during October/November 1984, was also utilized in this investigation. Figure 2, Site Plan, shows the locations of each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

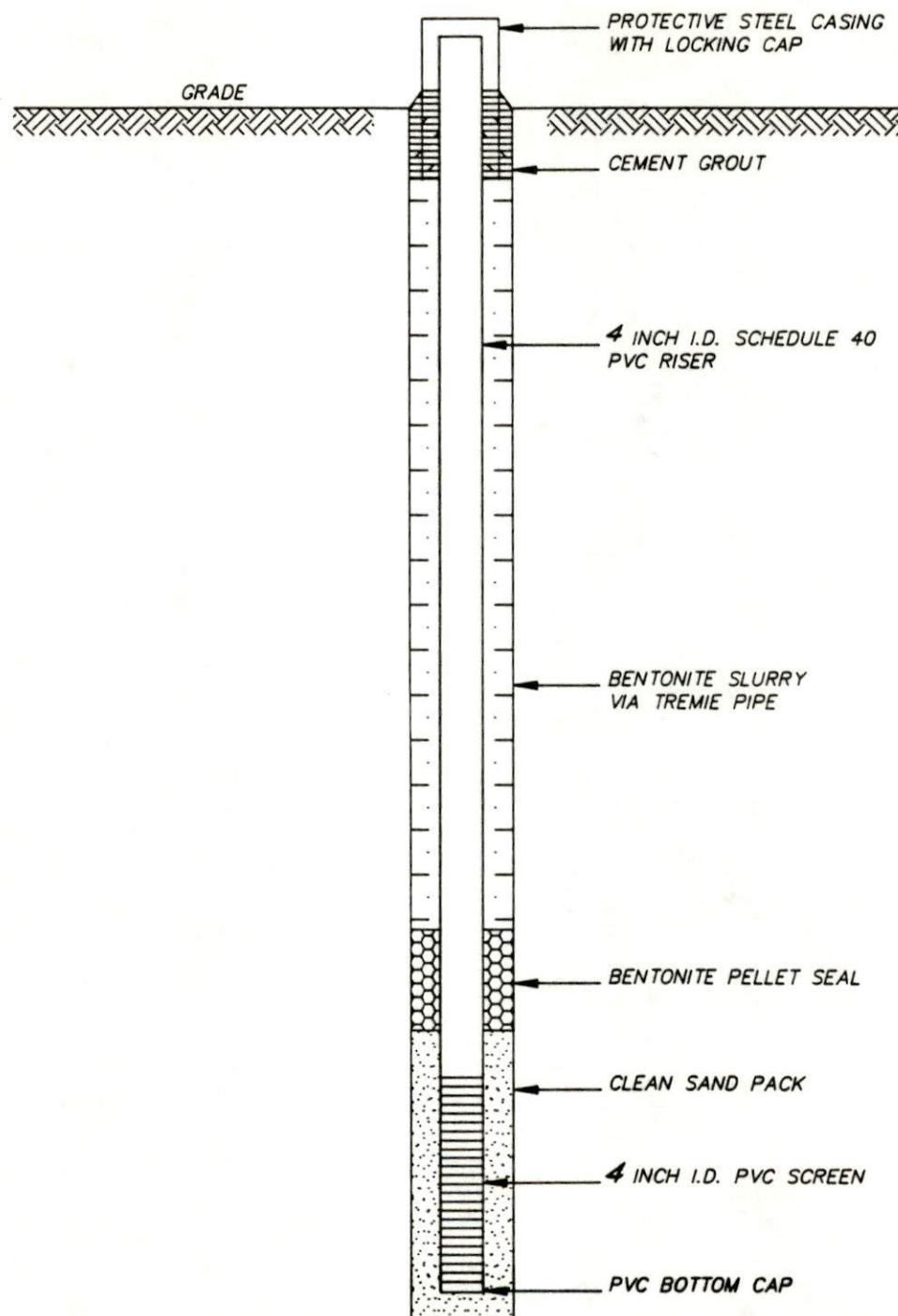


through the hollow stem. The casing and screen consists of Schedule 40, 4-inch diameter, flush-joint, threaded PVC casing and ten feet of #20 slot, 4-inch PVC screen. The drilling crew attempted to target each well depth approximately 15 feet below the water table. The annular space between the augers 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)



HOLZMACHER, McLENDON & MURRELL, P.C.
CONSULTING ENGINEERS, ENVIRONMENTAL SCIENTISTS, ARCHITECTS and PLANNERS

MELVILLE, N.Y.
FARMINGDALE, N.Y.
RIVERHEAD, N.Y.
FAIRFIELD, N.J.

TABLE 1
MONITORING WELL DETAILS

<u>WELL NO.</u>	<u>DIAMETER (INCHES)</u>	<u>DEPTH OF SCREENED ZONE (FEET)</u>	<u>GROUND ELEVATION (FEET)*</u>	<u>MEASURING POINT ELEVATION (FEET)*</u>
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-exist- ing)	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 OR 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		8/28/87		9/14/87		9/28/87		10/29/87		12/2/87		12/14/87	
		DEPTH TO WATER	WATER TABLE ELEVATION												
1	171.51	88.72	82.79	88.85	82.66	89.06	82.45	89.20	82.31	89.50	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	81.06	109.65	81.75	109.86	81.54	109.65	81.75	109.97	81.43
5	182.40	89.89	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 9/28/87 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

DORMANTIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL

CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. Field Blank 6-25 OC 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	24	15. Mercury	134
4. Barium	1004	16. Nickel	154
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	34	18. Selenium	24
7. Calcium	NR	19. Silver	54
8. Chromium	34	20. Sodium	NR
9. Cobalt	NR	21. Thallium	NR
10. Copper	104	22. Tin	NR
11. Iron	NR	23. Vanadium	NR
12. Lead	14	24. Zinc	24
Cyanide			

Percent Solids (1)

ICP Interelement and background corrections applied? Yes No .

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

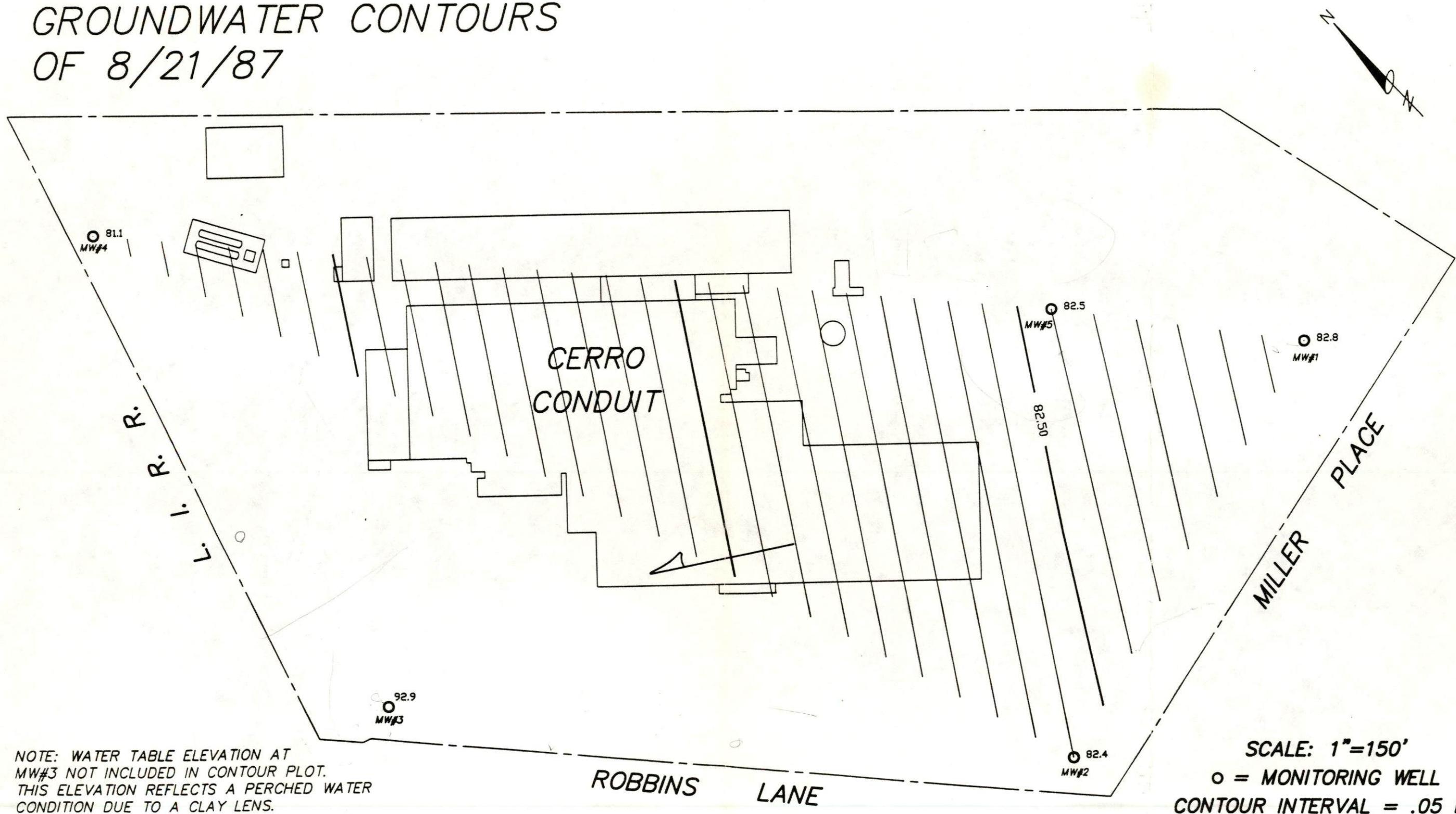
Footnote:

NR - not required by contract at this time

Footnote: For reporting results to NYSDC, 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: _____

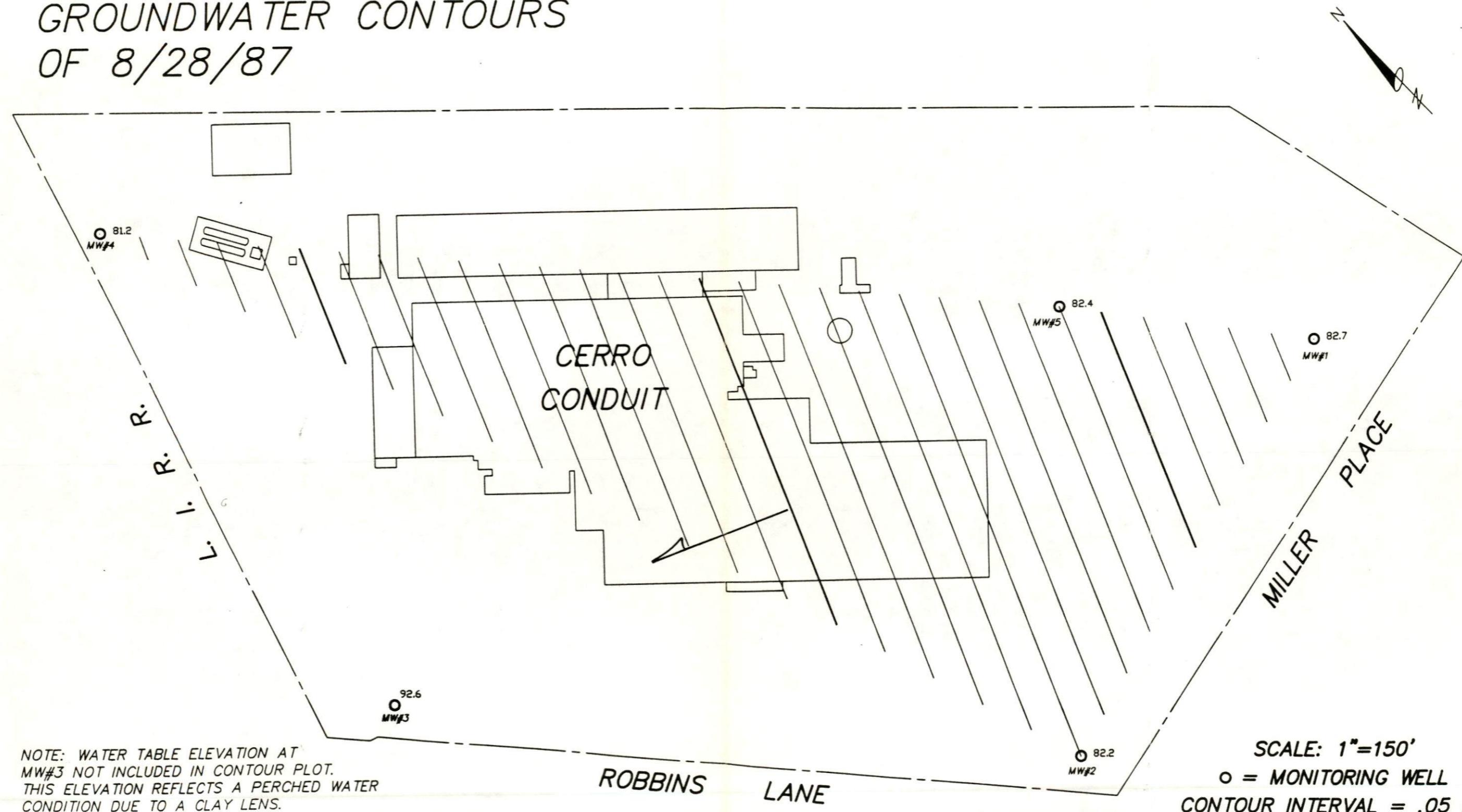
MAGOOTHY AQUIFER
GROUNDWATER CONTOURS
OF 8/21/87



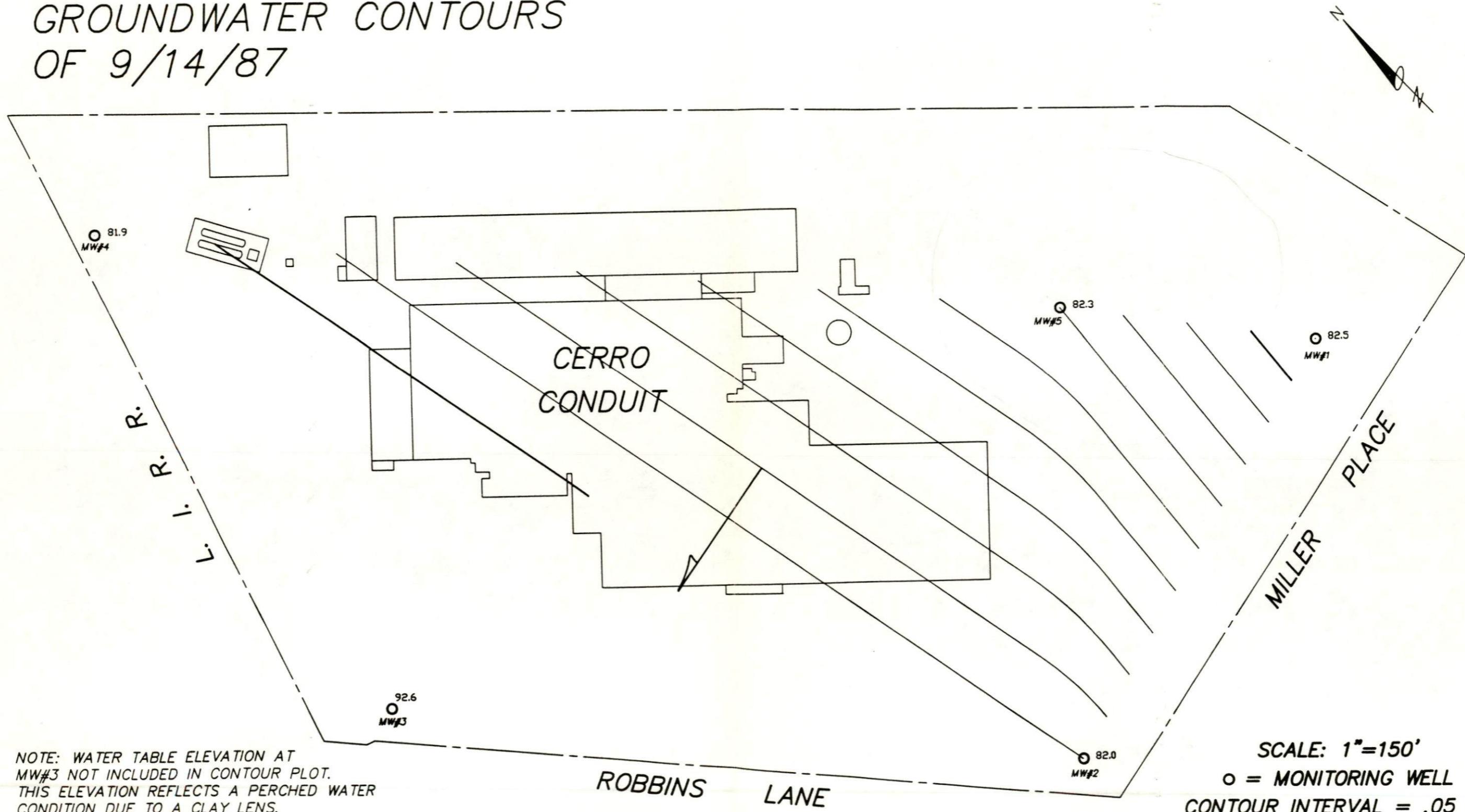
NOTE: WATER TABLE ELEVATION AT
MW#3 NOT INCLUDED IN CONTOUR PLOT.
THIS ELEVATION REFLECTS A PERCHED WATER
CONDITION DUE TO A CLAY LENS.

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

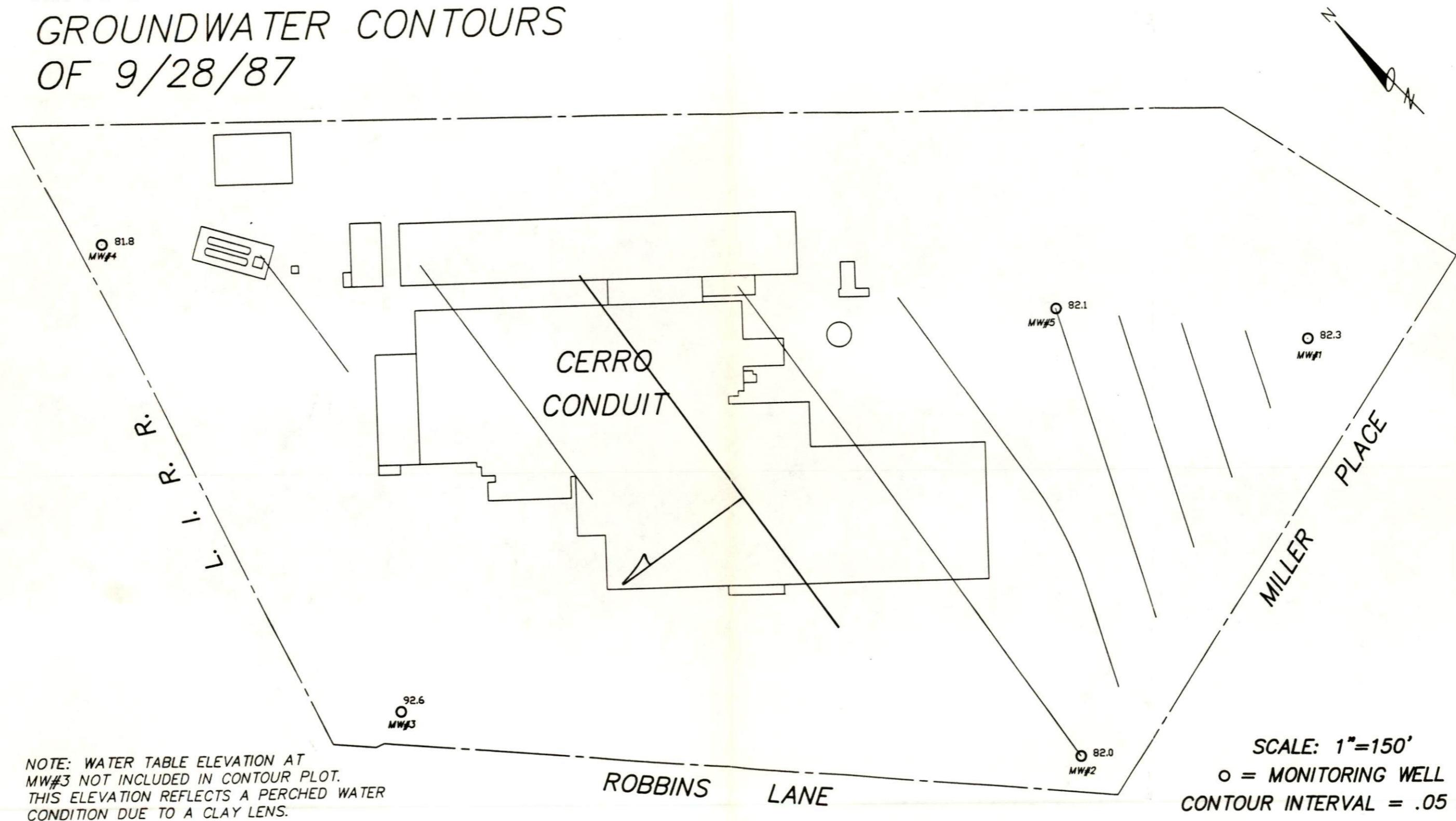
MAGOOTHY AQUIFER
GROUNDWATER CONTOURS
OF 8/28/87



MAGOOTHY AQUIFER
GROUNDWATER CONTOURS
OF 9/14/87

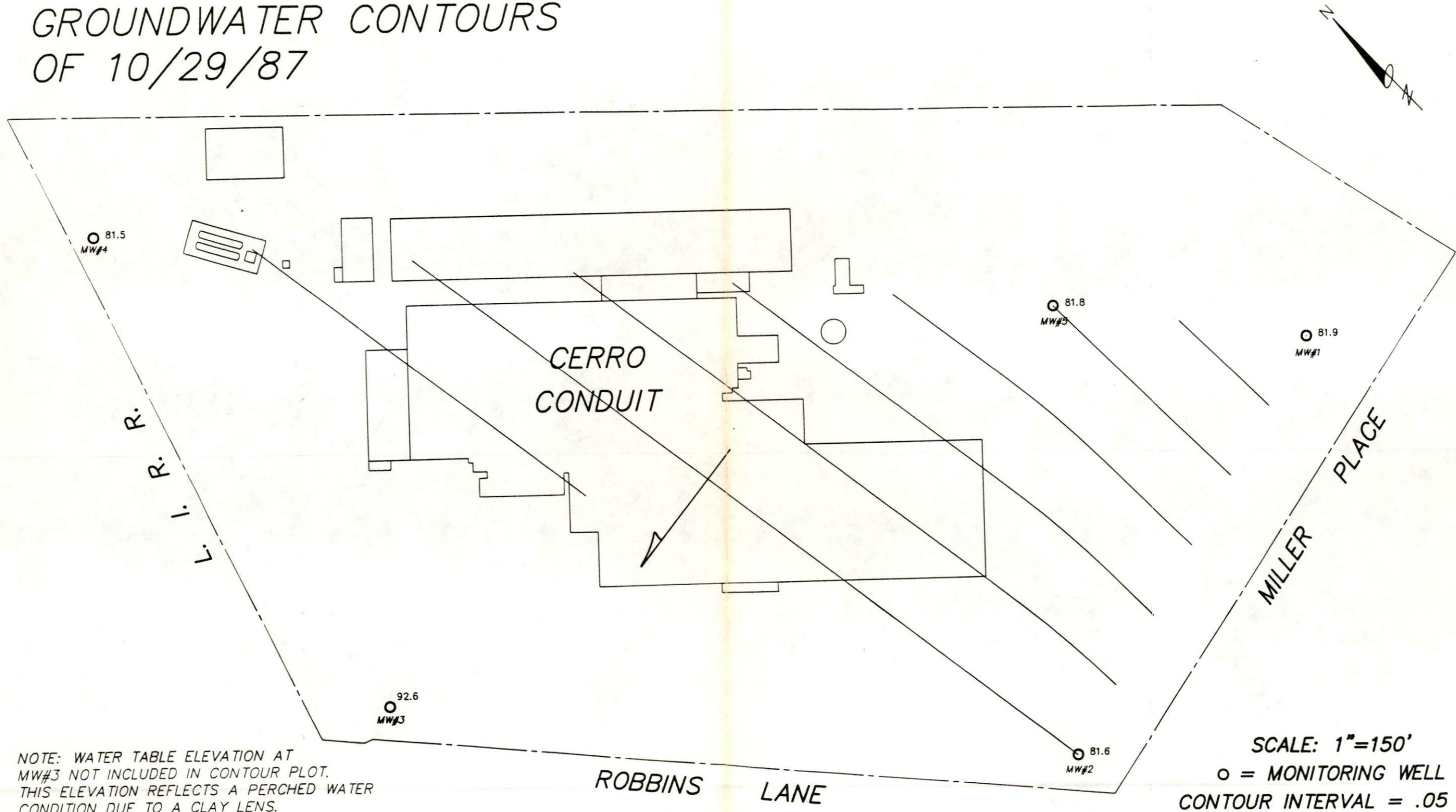


MAGOOTHY AQUIFER
GROUNDWATER CONTOURS
OF 9/28/87



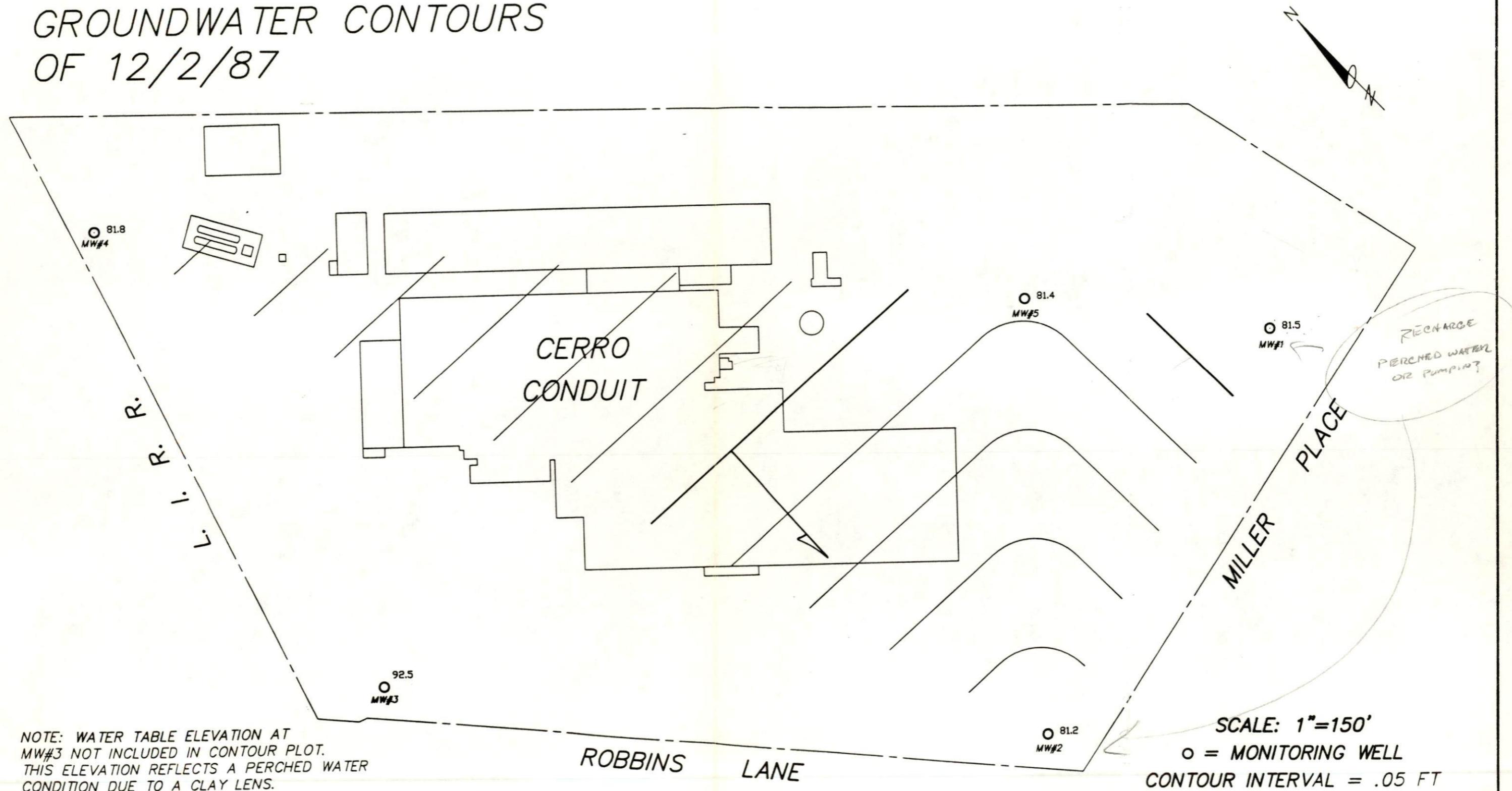
NOTE: WATER TABLE ELEVATION AT
MW#3 NOT INCLUDED IN CONTOUR PLOT.
THIS ELEVATION REFLECTS A PERCHED WATER
CONDITION DUE TO A CLAY LENS.

MAGOOTHY AQUIFER
GROUNDWATER CONTOURS
OF 10/29/87



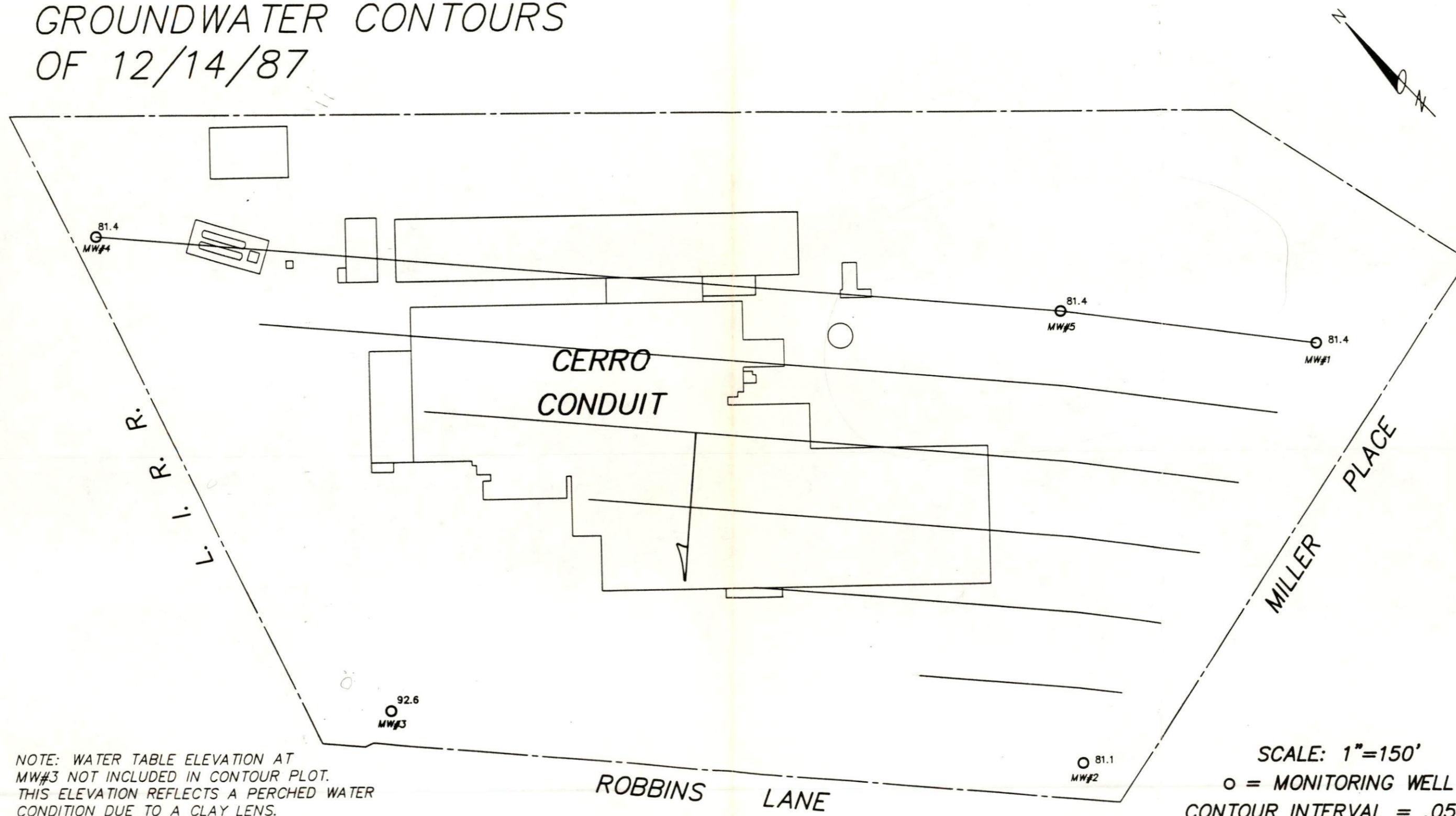
SCALE: 1"=150'
○ = MONITORING WELL
CONTOUR INTERVAL = .05 FT

MAGOOTHY 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.

MAGOOTHY 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'
○ = 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.

JUL 20 1986
EPA

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)	1,1,1-				METHYLENE CHLORIDE
			ACETONE	TRICHLORO- ETHENE	TRICHLORO- ETHANE	2-BUTANONE	
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 whitewash

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

WELL NO.	SAMPLE NO.	DEPTH	IN SOIL SAMPLES*										
			As	Ba	Cd	Cr	Pb	Se	Aq	Hg	Cu	Zn	Ni
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	-	-	-	-	-	-	.006	-	.440
2	16	80	-	.150	-	-	-	-	-	-	-	-	.440
2	18	90	-	.130	-	-	.010	-	-	-	-	-	-
3	10	50	-	-	-	-	-	.043	-	.001	-	.023	-
3	12	60	.002	-	-	-	-	.044	-	.017	-	.020	-
3	14	70	-	-	-	-	-	.048	-	-	-	-	.730
3	16	80	-	-	-	-	-	-	-	.010	-	-	-
3	18	90	-	-	-	-	-	-	-	-	-	-	-
4	13	65	-	-	-	-	-	.018	-	-	.014	.004	.330
4	15	75	-	-	-	-	-	.010	-	.001	.021	.005	.500
4	17	85	-	-	-	-	-	.036	-	.013	-	-	-
4	19	95	-	-	-	-	-	.019	-	-	-	-	-
4	21	105	-	.003	-	-	-	.008	-	-	-	-	-
F.	Blank 1	-	-	-	-	-	-	-	-	-	-	.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 5CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDSQUANTIFIED IN ROUND ONE GROUNDWATER SAMPLES (PPM)

<u>WELL NO.</u>	<u>ACETONE</u>
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	-	-	-	.003 - Guidance Value
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	-	-	-	35
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	*	*	-	-

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	.349	.10	.09	-	0.05
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	6.66	5.61	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, & NYCCR 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		4/22/83		2/13/86	
	N-3569	N-6741	N-3569	N-6741	N-3569	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
CO ₂ (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
SiO ₂	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

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

THERE GOES THAT
 NATURALLY OCCURRING SEDIMENT
 AGAIN!

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.

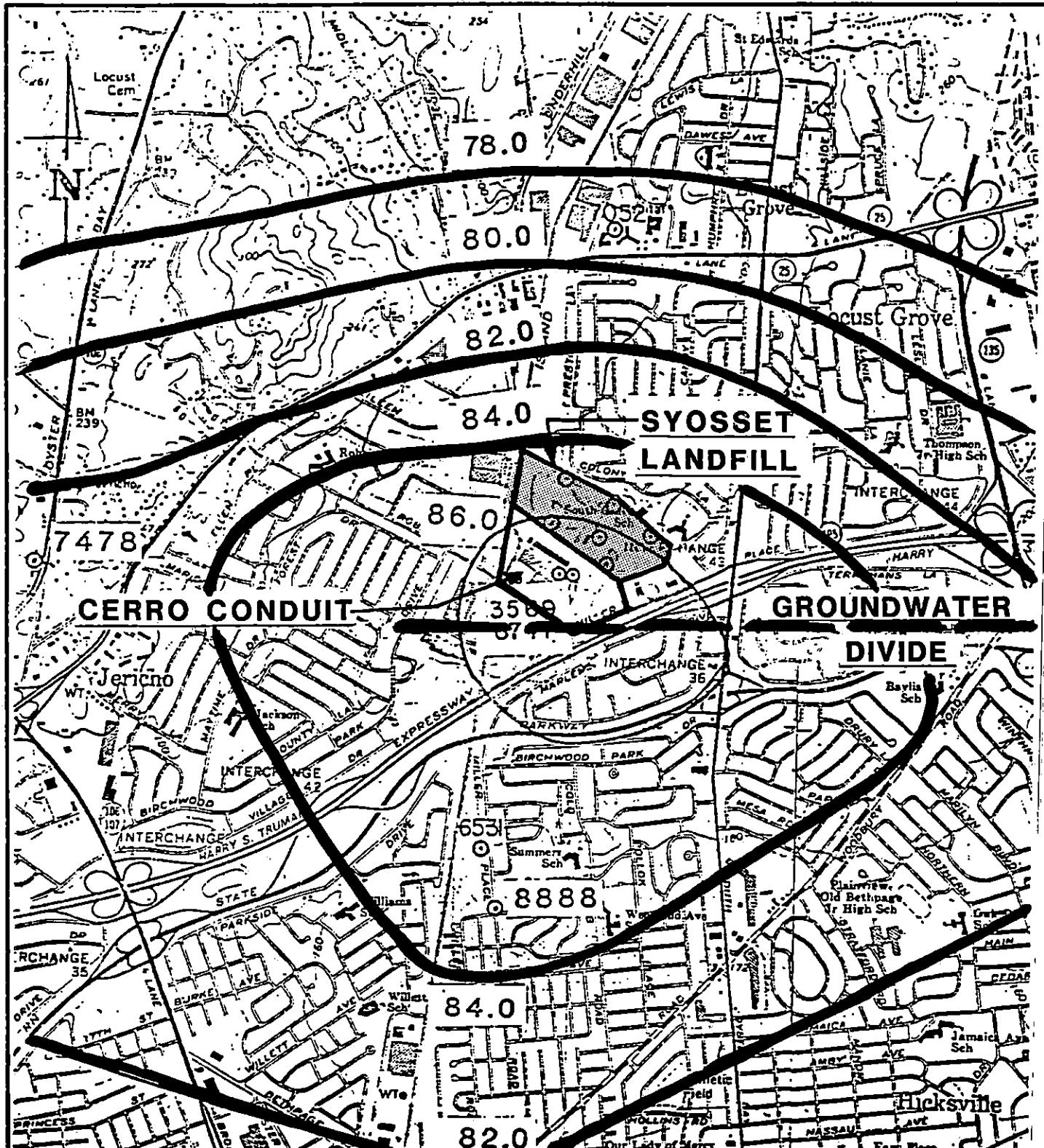
The monitoring well system design and construction for this investigation was conducted in accordance with the work plan developed by Eldon Associates, Inc., of Great Neck, N.Y. This system provides an assessment of the quality of groundwater existing in the shallow groundwater zone of the Magothy aquifer,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

H2M GROUP

ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS

AN INFERENCE THAT NEEDS FURTHER SUPPORT
SUCH AS PERMEABILITY DATA AND CAPTURE AREA
CALCULATIONS

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 the vertical 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



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

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

<u>Sample Identification</u>	<u>Laboratory Number</u>	<u>Type of Sample</u>	<u>Date and Time of Sample Collection</u>
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

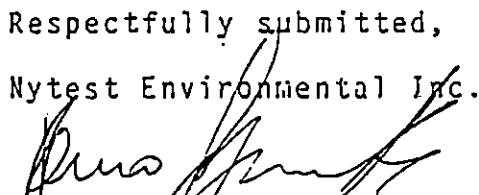
Report prepared by:

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

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Lab. No.: 87-13596

<u>Sample Identification</u>	<u>Laboratory Number</u>	<u>Type of Sample</u>	<u>Date and Time of Sample Collection</u>
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 -

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G. W-1/S-7	19 - 20
H. W-1/S-8	21 - 22
I. W-1/S-9	23 - 24
J. W-1/S-10	25 - 26
K. W-1/S-11	27 - 28
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Lab. No. 87-13596

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TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

PROJECT NO.		PROJECT NAME		CHAIN OF CUSTODY RECORD													
CLIENT NAME:	SOIL MECHANICS	LAB #	CERRO CORP.	NO. OF CONTAINERS	ANALYSIS								REMARKS				
					NITROGEN	OIL & GREASE	CYANIDE	PHENOL	VOLATILE	METALS	ORGANICS	BACTERIAL	TOC COD	OTHER	UNPRESERVED		
W-1/S-1	6/23/88	9:35		✓	WELL #1 5'-7' DEPTH	2			1								
W-1/S-4		9:45		✓	WELL #1 10'-12' DEPTH	2			1								/
N-1/S-3		9:50		✓	WELL #1 15'-17' DEPTH	2			1								/
N-1/S-4		9:53		✓	WELL #1 20-22' DEPTH	2			1								/
V-1/S-5		10:05		✓	WELL #1 23-27' DEPTH	2			1								/
N-1/S-6		10:12		✓	WELL #1 30-32' DEPTH	2			1								/
V-1/S-7		10:21		✓	WELL #1 35'-37' DEPTH	2			1								/
V-1/S-8		10:37		✓	WELL #1 40'-42' DEPTH	2			1								/
V-1/S-9		10:50		✓	WELL #1 45'-47' DEPTH	2			1								/
V-1/S-10		11:10		✓	WELL #1 50'-52' DEPTH	2			1								/
I-1/S-11		11:22		✓	WELL #1 55'-57' DEPTH	2			1								/
I-1/S-12		11:39		✓	WELL #1 60'-62' DEPTH	2			1								/
I-1/S-13		11:56		✓	WELL #1 65'-67' DEPTH	2			1								/
I-1/S-14		12:12		✓	WELL #2 70'-72' DEPTH	2			1								/
Shipped Via:																	
Inquainted by (Signature)				Date/Time	Agent of:				Rec'd. by (Signature)				Date/Time	Agent of:			
Printed Name				10:00													
Inquainted by (Signature)				Date/Time	Agent of:				Rec'd. by (Signature)				Date/Time	Agent of:			
Printed Name				10:00													
Inquainted by (Signature)				Date/Time	Received for Laboratory by: (Signature) CHRISTINE SUPPLIES Printed Name				Date/Time				Remarks:				
Printed Name				6/23/88	CHRISTINE SUPPLIES				6/23/88								
Master (Signature)				Date/Time	Samplers Name (Print)												
CHARLES NEHRK				6/23/88													



nytest environmental

LAB ICAP AS WIF

PROJECT NO.

PROJECT NAME

CERRO, CORP.

LAB.#

87-13596

CHAIN OF CUSTODY RECORD

CLIENT NAME:

SOIL MECHANICS

SAMPLE I.D. NO.

DATE

TIME

SP

GRAB

SAMPLE LOCATION

NO. OF CONTAINERS

ANALYSIS

NITROGEN	OIL & GREASE	CYANIDE	PHENOL	VOLATILE	METALS	ORGANICS	BACTERIAL	TOC COD	OTHER	UNPRESERVED
----------	--------------	---------	--------	----------	--------	----------	-----------	---------	-------	-------------

✓ NELL #1 35'-77' DEPTH 2
 ✓ NELL #1 80'-82' DEPTH 2
 ✓ NELL #1 85'-87' DEPTH 2
 ✓ FIELD BLANK #1
 ✓ TRIP BLANK #1

REMARKS
ADDITIONAL REQUIREMENTS

Shipped Via:

Inquished by (Signature)

Printed Name

Inquished by (Signature)

Printed Name

Inquished by (Signature)

Printed Name

Date/Time

Date/Time

Date/Time

Date/Time

Agent of:

Agent of:

Agent of:

Received for Laboratory by:
(Signature) *CHARLES NEHRIE*

Printed Name

Samplers Name (Print)

Rec'd. by (Signature)

Printed Name

Rec'd. by (Signature)

Printed Name

Rec'd. by (Signature)

Printed Name

Date/Time	Agent of:
Date/Time	Agent of:
Date/Time	Agent of:
Date/Time	Remarks:

Date/Time
6/23/87 00

Laboratory Chronicle

Project No: 87-13596

Client Name: Soil Mechanics

Date Received: 6/23/87 + 6/24/87
Sample ID: W-1/S-1 - 17; F8-1; 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

000000

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)

	<u>Method</u>
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

000094

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	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

Extraction Procedure Toxicity	<u>Method</u>
Ignitability	1310
Corrosivity	1010
Reactivity	1110
	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

SubG05

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..

000006

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

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): 2.5

CAS Number	(<input checked="" type="checkbox"/> ug/l) or ug/Kg (Circle One)	CAS Number	(<input checked="" type="checkbox"/> 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 Trichloroethane	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	59-17-6 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. 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.
- 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. 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.
- 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). O 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.

060007

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				
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030609

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

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 pt:
Percent Moisture:NA
Percent Moisture (Decanted): 3.2

CAS Number		ug/l or pp/Kg (Circle One)	CAS Number		ug/l or pp/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 8	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, it
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.	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.
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.	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.
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).	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	VCA	12.708	6 J
2	Unknown Siloxane	VCA	31.315	12 J
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
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000010

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

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/Oil 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	106-10-1	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 This flag applies to pesticide parameters where the identification has limit, report the value. 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.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B This flag is used when the analyte is found in the blank as well as a 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. OT 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.
- 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).

000011

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	<i>R</i> or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	Unknown	VCA	12.729	S J
2	Unknown Siloxane	VCA	31.318	11 J
3				
4				
5				
6				
7				
8				
9				
10				
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000012

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

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: 6/30/87
Conc/Oil 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
72-93-3	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.	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.
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.	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.
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).	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.

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.

0000013

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	VCA	12.723	8 J
2	Unknown	VOA	14.835	6 J
3				
4				
5				
6				
7				
8				
9				
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360014

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

QC Report No:
Project No: 87-13596
Date Sample Received: 5/23/87

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)	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	10051-02-6	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	17.0 S	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	33.0	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	10051-01-5	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	106-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 !!
71-55-6	1,1,1-Trichloroethane	5.0 U	108-68-3	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.	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.
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.	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.
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).	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.

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.

000015

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				
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090016

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: *[Signature]*

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)	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	76-87-5	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	Trichloroethane	5.0 U
75-09-2	Methylene Chloride	5.0 U	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-Chlorethylvinylether	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 FPA, 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.	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.
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.	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.
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).	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.

060017

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 mg/kg)
1	No Compounds Found	VCA		
2				
3				
4				
5				
6				
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8v0018

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

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 (Circle One)	CAS Number		ug/l or (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
75-03-2	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 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. OT

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides greater than or equal to 10 mg/L 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.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 11 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. 10).

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.

000019

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	VCA	31.189	10 J
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
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080020

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

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)	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	10051-02-6	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	Dibromochlormethane	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-Chloroethylvinyl ether	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. 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.
- 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. 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.
- 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). O 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.

000021

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	RF 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				
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060022

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2912
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/Oil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 2.3

CAS Number		ug/l or <u>ug/kg</u> (Circle One)	CAS Number		ug/l or <u>ug/kg</u> (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	110-75-6	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	3.0 J
71-55-6	1,1,1-Trichloroethane	6.0	108-88-3	Toluene	5.0 U
55-23-5	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, it
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. | 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. |
| 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. | 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. |
| 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). | 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-9

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-1356

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	Unknown Siloxane	VCA	31.241	8 J
2				
3				
4				
5				
6				
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060624

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

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/Oil Factor: 1 pH:
 Percent Moisture: NA
 Percent Moisture (Decanted): 17.2

CAS Number		ug/l or <input checked="" type="checkbox"/> ug/Kg (Circle One)	CAS Number		ug/l or <input checked="" type="checkbox"/> 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	79-01-5 Trichloroethene	5.0 U		
75-09-2 Methylene Chloride	13.0 8	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 This flag applies to pesticide parameters where the identification has limit, report the value. 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.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 1CU 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).
- O 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.

030025

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: N-1/S-10

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

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RP or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	Unknown	VOC	15.046	8 J
2				
3				
4				
5				
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000026

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N7-2914
Sample Matrix: SOIL *Leach*
Data Release Authorized By: *[Signature]*

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/Oil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 6.4

CAS Number		ug/l or <u>ug/Kg</u> (Circle One)	CAS Number		ug/l or <u>ug/Kg</u> (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	78-67-5	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	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, it
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. | 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. |
| 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. | 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. |
| 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). | 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. |

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	RP or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	Unknown	VCA	12.565	7 J
2	Unknown	VCA	31.214	7 J
3				
4				
5				
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000028

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-2915

Sample Matrix: SOIL

Data Release Authorized By: *JM*

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-Chlorethylvinylether	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	106-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butancne	10.0 U	127-18-4	Tetrachloroethane	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 This flag applies to pesticide parameters where the identification has limit, report the value. 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.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B This flag is used when the analyte is found in the blank as well as a based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should sample. It indicates possible/probable blank contamination and warns read U-Compound was analyzed for but not detected. The number is the data user to take appropriate action.
- 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. 1W).
- 000029

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	<u>RI</u> or Scan Number	Estimated Concentration (ug/l or ug/Kg)
1	No Compounds Found	VOA		
2				
3				
4				
5				
6				
7				
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000030

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-2916

Sample Matrix: SOIL

Data Release Authorized By: *JW*

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 <u>ug/kg</u> (Circle One)	CAS Number		ug/l or <u>ug/kg</u> (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 limit, report the value. 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.
- 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. 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.
- 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). O 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.

000031

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 (μ g/l or μ g/kg)
1	Unknown Siloxane	VOA	33.614	6 J
2				
3				
4				
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000002

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

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 <u>mg/kg</u> (Circle One)	CAS Number		ug/l or <u>mg/kg</u> (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	23.0 B	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	3.0 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	9.0	108-08-3	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 This flag applies to pesticide parameters where the identification has limit, report the value. 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.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) 8 This flag is used when the analyte is found in the blank as well as a 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).
- 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.
- 060033

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-1/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	No Compounds Found	VCA		
2				
3				
4				
5				
6				
7				
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060034

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

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: 7/3/87
 Conc/Oil 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-Dichloropropene	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	79-01-5	Trichloroethane	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 limit, report the value. 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.
- 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. 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.
- 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). 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.

060635

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	VCA	12.503	15 J
2	Pentane	VOA	14.697	8 J
3	Unknown	VCA	15.022	6 J
4	Unknown	VOA	18.495	7 J
5	Unknown	VCA	31.193	5 J
6				
7				
8				
9				
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060036

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

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/Oil Factor: 1 pH:
Percent Moisture:NA
Percent Moisture (Decanted): 4.9

CAS Number		ug/l or <u>ug/kg</u> (Circle One)	CAS Number		ug/l or <u>ug/kg</u> (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	Chlorgathane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	7.0 S	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	12.0 S	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, it
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. | 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. |
| 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. | 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. |
| 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). | 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. |

0000037

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: H-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/mg)
1	Unknown	VOA	12.686	17 J
2 109560	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
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033639

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/Oil 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	Dibromoformmethane	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-Chlorethylvinylether	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	108-68-3	Toluene	5.0 U
55-23-5	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 This flag applies to pesticide parameters where the identification has limit, report the value. been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/µl in the final extract should be confirmed by GC/MS.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B This flag is used when the analyte is found in the blank as well as a 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. 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.
- 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).

000039

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	Pentane	VOA	14.718	9 J
3	Unknown Alkane	VOA	17.765	9 J
4	Unknown	VCA	18.516	10 J
5	Unknown	VOA	28.187	7 J
6				
7				
8				
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060040

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

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/Oil 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	10051-02-6	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	11.0	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	10051-01-5	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	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 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).
- 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 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.

030041

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	VOC	31.413	6 J
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
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000042

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: *[Signature]*

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		(<u>ug/l</u> or ug/Kg Circle One)	CAS Number		(<u>ug/l</u> 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	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-Dichloroethane	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-3	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. 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.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) B This flag is used when the analyte is found in the blank as well as a 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. 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.
- 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). 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.

030043

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				
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000044

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	CRL
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	
V3009	7/3/87	VOA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride	23	ug/l	5
						57-64-1	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:

030045

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- CHLOREDATE (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

Volatile: 0 out of 72 ; outside of QC limits
 Semi-Volatile: 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	SAMPLE	CONC.	%	CONC.	%	RPD	QC LIMITS *	
		ADDED (ug)	RESULT	MG	RECOVERY		MGD	RECOVERY		RPD	RECOVERY
VOA	1,1-Dichloroethene	50.00		43.00	86.00	44.00	88.00	2.30	22	59-172	
S/N	Trichloroethene	50.00		58.00	116.00	59.00	118.00	1.71	24	52-137	
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	
B/N	1,2,4-Trichlorobenzene	50.00			0		0		23	38-107	
	Acenaphthene	50.00			0		0		19	31-137	
	SMO	2,4-Dinitrotoluene	50.00		0		0		47	28-89	
									40	11-117	
	Pyrene	50.00			0		0		36	35-142	
	N-Nitroso-Di-n-Propylamine	50.00			0		0		38	41-128	
	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	
PEST	Lindane	0.20			0.00		0.00		50	46-127	
	Heptachlor	0.20			0.00		0.00		31	35-130	
	SMO	Aldrin	0.20		0.00		0.00		43	34-132	
	SAMPLE NO.	Oieldrin	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
	8/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:

060047

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (8FB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: NYT 1 Date: 6/22/87

Lab ID: V2805::N2 Data Release Authorized By: *[Signature]*

Project No: 87-13556

Time: 8:39

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	14:15
200 ng. Std.	V2813	6/22/87	14:56

060049

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BF8)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: NYT 1 Date: 6/30/87

Lab ID: V2907::D1

Data Release Authorized By: *[Signature]*

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 [6.095]**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	LAS ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Perf. Std.	V2807	6/30/87	9:25
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

060049

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Contractor: NYTEST ENVIRONMENTAL INC.
 Instrument ID: NYT 1 Date: 7/1/87
 Lab ID: V2933::D1 Data Release Authorized By: *[Signature]*

Project No: 87-135S6
 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
T8-1	N7-2922	7/1/87	12:52
H-1/S-6	N7-2909	7/1/87	13:35
H-1/S-7	N7-2910	7/1/87	14:16
H-1/S-8	N7-2911	7/1/87	14:58
H-1/S-9	N7-2912	7/1/87	15:39
H-1/S-10	N7-2913	7/1/87	16:20
H-1/S-11	N7-2914	7/1/87	17:03
H-1/S-12	N7-2915	7/1/87	18:36
H-1/S-13	N7-2916	7/1/87	19:18
H-1/S-14	N7-2917	7/1/87	20:03

000050

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: *JPN*

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.	VA652	7/3/87	17:37

060051

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (8FB)

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

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 [3.661]*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 at 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.	VAS53	7/3/87	18:26
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

060052



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

<u>Sample Identification</u>	<u>Laboratory Number</u>	<u>Type of Sample</u>	<u>Date and Time of Sample Collection</u>
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

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

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Laboratory Chronicle

Project No: 87-13596

Client Name: Soil Mechanics

Date Received: 6/24/87
Sample ID: W-2/5-10, 12, 14, 16, 18; FS; 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: *[Signature]*

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.

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nytest environmental inc.

Methodology Summary NYTEST ENVIRONMENTAL INC.

AQUEOUS SAMPLE PREPARATION - Reference (1)

	<u>Method</u>
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

060002

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METHODOLOGY SUMMARY - Cont'd

FURNACE AA - Reference (1) (2)

	<u>Method</u>
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

	<u>Method</u>
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

000003

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..

060004

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

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 <i>ppm</i> (Circle One)	CAS Number		ug/l or <i>ppm</i> (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-63-9	Bromomethane	10.0 U	76-97-5	1,2-Dichloropropene	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
75-03-2	Methylene Chloride	6.0 B	124-48-1	Dichlorochloromethane	5.0 U
67-64-1	Acetone	17.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-3	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10051-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinyl Ether	10.0 U
158-50-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-72-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	106-10-1	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 This flag applies to pesticide parameters where the identification has limit, report the value. 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/NS.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) 8 This flag is used when the analyte is found in the blank as well as a 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. 8 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.
- 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 (e.g. 10J).

060005

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-2/S-10

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

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	<input checked="" type="checkbox"/> or Scan Number	Estimated Concentration (ug/l or <input checked="" type="checkbox"/> mg/kg)
1	Unknown	VCA	12.442	13 J
2	1066408	Trimethyl Silanol (Column Bleed)	VCA	15.448
3	Unknown	VCA	17.785	7 J
4				
5				
6				
7				
8				
9				
10				
11				
12				
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060006

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: 6/25/87

VOLATILE COMPOUNDS

Concentration: ICW 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	78-37-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10051-32-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-5	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	10031-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinyl ether	10.0 U
158-60-5	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	Tetrachloroethylene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-38-3	Toluene	4.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
103-05-4	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.	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.
U	Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U 3 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.	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.
O	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.	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.

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.

360007

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-2/S-12

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

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	✓ or Scan Number	Estimated Concentration ($\mu\text{g/l}$) or ✓/AC
1	Unknown	VCA	12.534	2 J
2 1055405	Trimethyl Silanol (Column Bleed)	VCA	15.439	110 J
3	Unknown Hydrocarbon	VCA	17.753	7 J
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
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060008

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

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/Oil Factor: 1 pH:
 Percent Moisture: NA
 Percent Moisture (Decanted): 8.7

CAS Number		ug/l or <input checked="" type="radio"/> mg/kg (Circle One)	CAS Number		ug/l or <input checked="" type="radio"/> mg/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	73-67-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10051-02-6	Trans-1,3-Dichloropropene	5.0 U
73-00-3	Chloroethane	10.0 U	79-01-5	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	8.0 S	124-48-1	Dichlorochromethane	5.0 U
67-64-1	Acetone	56.0 S	79-00-3	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	10051-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinyl ether	10.0 U
155-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-86-3	Chloroform	5.0 U	591-76-6	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	127-16-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-69-3	Toluene	8.0
56-23-5	Carbon Tetrachloride	5.0 U	106-90-7	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.
- J 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.
- J 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 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.
- J 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.
- 56-0009

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 $\mu\text{g/g}$)
1	Unknown	VCA	12.605	13 J
2	1056405 Trimethyl Silanol (Column Bleed)	VCA	15.509	150 J
3	Unknown	VCA	15.546	9 J
4	Unknown Hydrocarbon	VCA	17.825	9 J
5	Unknown Siloxane	VCA	31.359	9 J
6	Unknown Hydrocarbon	VCA	35.443	6 J
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060010

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-2952

Sample Matrix: SOIL

Data Release Authorized By: *[Signature]*

QC Report No:

Project No: 87-13595

Date Sample Received: 5/24/87

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): 4.5

CAS Number		ug/l or <u>ng/l</u> (Circle One)	CAS Number		ug/l or <u>ng/l</u> (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	10061-02-5	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 U	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethene	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
156-50-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-65-3	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-Eutanone	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
55-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethybenzene	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 (e.g. 10J) is less than the specified detection limit.
- 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.
- 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.

003011

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	VCA	8.732	8 J
2	Unknown	VCA	12.511	14 J
3	1066405 Trimethyl Silanol (Column Bleed)	VCA	15.437	140 J
4	Unknown	VCA	17.713	9 J
5	Unknown Siloxane	VCA	33.889	4 J
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060012

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No:N7-2954

Sample Matrix: SOIL

Data Release Authorized By: *JW*

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/Oil Factor: 1 pH:
 Percent Moisture:NA
 Percent Moisture (Decanted): 6.8

CAS Number		ug/l or <u>ppm</u> (Circle One)	CAS Number		ug/l or <u>ug/kg</u> (Circle One)
74-87-3	Chloroethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-63-9	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	79-01-5	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	5.0 U	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	10031-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chlorethylvinylether	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 limit, report the value. 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.
- 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. 8 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.
- 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. 1w). 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.

063013

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	VCA	12.526	8 J
2 1066406	Trimethyl Silanol (Column Bleed)	VCA	15.429	100 J
3 1066405	Trimethyl Silanol (Column Bleed)	VCA	16.079	9 J
4	Unknown	VCA	17.684	6 J
5	Unknown	VCA	31.441	8 J
6	Unknown Siloxane	VCA	33.513	35 J
7	Unknown Hydrocarbon	VCA	35.159	7 J
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060014

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-2951

Sample Matrix: WATER

Data Release Authorized By: *[Signature]*

QC Report No:

Project No: 87-13593

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		(<input checked="" type="checkbox"/> or <input type="checkbox"/> ug/Kg (Circle One))	CAS Number		(<input checked="" type="checkbox"/> or <input type="checkbox"/> ug/Kg (Circle One))
74-87-3	Chloroethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Sromooctane	10.0 U	78-37-5	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
75-15-6	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10051-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinyl ether	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
107-05-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
72-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	103-68-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
103-05-4	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 Xylores	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 This flag applies to pesticide parameters where the identification has limit, report the value. 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.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B This flag is used when the analyte is found in the blank as well as a based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- 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 (e.g. 10U).
- 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.

060015

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: T6

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	VCA		
2				
3				
4				
5				
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7				
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060016

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

QC Report No:
Project No: 87-13595
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): 6.6

CAS Number		(g/l) or ug/Kg (Circle One)	CAS Number		(g/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	73-34-5	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	79-91-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	4.0 U	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
156-30-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-72-6	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
71-65-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	2.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	106-41-4	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:

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.

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/L 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.

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.

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.

060017

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 (ppm or ug/Kg)
1	No Compounds Found	VOA		
2				
3				
4				
5				
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063019

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	VCA	WATER	LOW	NYT 1	75-09-2 67-64-1	Methylene Chloride Acetone Unknown Unknown Siloxane	10 8 6 7	ug/l ug/l ug/l ug/l	5 10
V3041	7/4/87	VCA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride Unknown	7 6	ug/l ug/l	5

Comments:

060019

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory: NYTEST ENVIRONMENTAL INC.

Low: **Medium:**

Project No: 37-13596

[----- VOLATILE -----][----- SEMI-VOLATILE -----][PESTICIDES]

C 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:

Project No: 87-13596

[----- VOLATILE -----][----- SEMI-VOLATILE -----][PESTICIDES]

VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

ADVISORY LIMITS ONLY

Copyright

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

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13596

FRACTION	COMPOUND	CONC.	SPIKE	SAMPLE	CONC.	%	CONC.	%	RPD	QC LIMITS *	
		ADDED (ug)	RESULT	MS	RECOVERY	XSD	RECOVERY	RPD		RPD	RECOVERY
VCA	1,1-Dichloroethane	50.00		41.00	82.00	40.00	80.00	2.47	22	59-172	
S/N	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	6.57	21	60-133	
W-3/C-19	Toluene	50.00	2.00	76.00	148.00 *	71.00	138.00	6.93	21	59-139	
	Benzene	50.00		52.00	104.00	48.00	96.00	8.00	21	65-142	
S/N	1,2,4-Trichlorobenzene	50.00			0		0		23	38-107	
S/N	Aceanaphthene	50.00			0		0		19	31-137	
S/N	2,4-Dinitrotoluene	50.00			0		0		47	28-99	
SAMPLE NO.									40	11-117	
	Pyrene	50.00			0		0		36	35-142	
	N-Nitroso-Di-n-Propylamine	50.00			0		0		38	41-125	
	1,4-Dichlorobenzene	50.00			0		0		27	28-104	
ACID	Pentachlorophenol	100.00			0		0		47	17-109	
S/N	Phenol	100.00			0		0		35	25-60	
SAMPLE NO.	2-Chlorophenol	100.00			0		0		50	25-102	
	4-Chloro-3-Methylphenol	100.00			0		0		33	25-103	
	4-Nitrophenol	100.00			0		0		50	11-114	
PEST	Lindane	0.20			0.00		0.00		50	46-127	
PEST	Heptachlor	0.20			0.00		0.00		31	35-130	
S/N	Aldrin	0.20			0.00		0.00		43	34-132	
SAMPLE NO.	Gieldrin	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:	VCA'S	0	out of	5 ;outside QC limits	RECOVERY VCA'S	1	out of	10 ;outside QC limits
	B/A		out of	6 ;outside QC limits	B/A		out of	12 ;outside QC limits
	AC10		out of	5 ;outside QC limits	AC10'S		out of	10 ;outside QC limits
	PEST		out of	6 ;outside QC limits	PEST		out of	12 ;outside QC limits

Comments:

063022

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: *[Signature]*

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	7.64
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 [7.794]*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 [6.425]**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	2:45
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	16:06
200 ng. Std.	VA662	7/3/87	17:37

000023

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUORENE (BF8)

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

Project No: 87-13596
 Time: 8:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.53
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	8.60
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 [8.737]*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	9:23
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-15	N7-2952	7/4/87	13:38
W-2/S-18	N7-2954	7/4/87	14:20

030024

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: *JW*

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	51.35
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	38.13
175	5.0 - 9.0% of mass 174	7.39 [8.950]*1
176	Greater than 55.0%, 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-12 MS	N7-3109	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

060025



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

<u>Sample Identification</u>	<u>Laboratory Number</u>	<u>Type of Sample</u>	<u>Date and Time of Sample Collection</u>
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.

A handwritten signature in black ink, appearing to read "Remo Gigante".

Remo Gigante
Laboratory Director

jw

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

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Lab. No. 87-13596(B)

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Laboratory Chronicle

Project No: 87-13596

Client Name: Soil Mechanics

Date Received: 5/25/87

Sample ID: W-3/3-10,12,14,16,18;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.

000001

nytest environmental inc.

Methodology Summary NYTEST ENVIRONMENTAL INC.

AQUEOUS SAMPLE PREPARATION - Reference (1)

	<u>Method</u>
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	285.1/7910
Zinc	289.1/7950

060002

nytest environmental inc.

METHODOLOGY SUMMARY - Cont'd

FURNACE AA - Reference (1) (2)

	<u>Method</u>
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

	<u>Method</u>
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

060003

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..

060004

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: 7/4/01
Conc/Dil Factor: 1 pH:
Percent Moisture: NA
Percent Moisture (Decanted): 3.1

CAS Number		ug/l or (Circle One)	CAS Number		ug/l or (Circle One)
74-67-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-63-6	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-5	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 S	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
156-50-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
57-55-3	Chloroform	5.0 U	591-73-6	2-Hexanone	10.0 U
107-03-2	1,2-Dichloroethane	5.0 U	103-10-1	4-Methyl-2-Pentanone	10.0 U
76-93-3	2-Butanone	10.0 U	127-18-1	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	103-88-3	Toluene	2.0 J
56-23-5	Carbon Tetrachloride	5.0 U	106-90-7	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, see

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.	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.
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.	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.
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).	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.

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.

000009

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	R _t or Scan Number	Estimated Concentration ($\mu\text{g/l}$ or ppm)
1	Unknown	VCA	12.525	10 J
2	1066406 Trimethyl Silanol (Column Bleed)	VCA	15.430	72 J
3	Unknown	VCA	17.760	5 J
4	Unknown Siloxane	VCA	32.111	6 J
5				
6				
7				
8				
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063006

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

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 (Circle One)	CAS Number		ug/l or (Circle One)
74-67-3	Chloromethane	9.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-63-9	Bromomethane	10.0 U	78-37-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10051-02-6	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 U	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	10051-01-5	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
73-93-3	2-Butanone	10.0 U	127-13-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-08-3	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	Bromodichromethane	5.0 U	100-42-5	Syrene	5.0 U
				Total Xylenes	5.0 U

For reporting results to EPA, it
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.	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.
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.	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.
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 (e.g. 10J).	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.

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.

060007

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-3/S-12

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

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration ($\mu\text{g/l}$ or mg/kg)
1	Unknown	VCA	12.578	6 J
2	1066406	Trimethyl Silanol (Column Bleed)	VCA	15.543
3	Unknown	VCA	17.798	9 J
4	Unknown	VCA	18.875	5 J
5	Unknown	VCA	23.792	6 J
6	Unknown	VCA	28.426	6 J
7	Unknown Siloxane	VCA	31.129	15 J
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066008

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

QC Report No:
 Project No: 87-13596
 Date Sample Received: 5/25/87

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 <input checked="" type="radio"/> ug/Kg (Circle One)	CAS Number		ug/l or <input checked="" type="radio"/> ug/Kg (Circle One)
74-67-3	Chloromethane	9.0 J	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-33-9	Bromomethane	10.0 U	79-57-5	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	561-78-6	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 This flag applies to pesticide parameters where the identification has limit, report the value. 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.
- U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) 8 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.
- 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).
- 060091

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	R ¹ or Scan Number	Estimated Concentration ($\mu\text{g/l}$ or $\mu\text{g/kg}$)
1	Unknown	VCA	12.527	10 J
2	1066406	Trimethyl Silanol (Column Bleed)	VOA	15.412
3	Unknown	VCA	17.749	7 J
4	Unknown Siloxane	VCA	31.000	22 J
5				
6				
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06603.0

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-3108

Sample Matrix: SOIL

Data Release Authorized By: *J.W.H.*

QC Report No:

Project No: 87-13596

Date Sample Received: 6/25/87

VOLATILE COMPOUNDS

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

CAS Number		ug/l or <u>ppm</u> (Circle One)	CAS Number		ug/l or <u>ppm</u> (Circle One)
74-87-3	Chloromethane	10.0 U	79-31-5	1,1,2,2-Tetrachloroethane	5.0 U
74-63-9	Bromomethane	10.0 U	78-97-5	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	75-01-5	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	11.0 8	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	31.0	75-00-5	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	10061-31-5	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
57-66-3	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	Ethybenzene	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. 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/ml in the final extract should be confirmed by GC/MS.
- 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 (e.g. 10U) is less than the specified detection limit.
- 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 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-3/G-16

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

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration ($\mu\text{g/l}$ or $\mu\text{g/Kg}$)
1	Unknown	VCA	12.528	10 J
2	1066406 Trimethyl Silanol (Column Bleed)	VCA	15.453	57 J
3	Unknown	VCA	17.728	12 J
4	Unknown Siloxane	VCA	31.138	7 J
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060012

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-3109

Sample Matrix: SOIL

Data Release Authorized By: *[Signature]*

QC Report No:

Project No: 87-13595

Date Sample Received: 6/25/87

VOLATILE COMPOUNDS

Concentration: 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 $\mu\text{g}/\text{kg}$ (Circle One)	CAS Number		ug/l or $\mu\text{g}/\text{kg}$ (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	76-01-5	Trichloroethane	5.0 U
75-09-2	Methylene Chloride	21.0 B	124-48-1	Dibromochloromethane	5.0 U
57-64-1	Acetone	190.0	76-00-5	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
155-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-65-3	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	127-18-1	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. 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/ μl in the final extract should be confirmed by GC/MS.
- 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. 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.
- 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. 1w). O 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.

030033

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 mg/kg)
1	Unknown	VOA	12.531	15 J
2	Unknown Hydrocarbon	VOA	14.685	14 J
3	1065406 Trimethyl Silanol (Column Bleed)	VOA	15.477	16 J
4	Unknown	VOA	17.752	9 J
5	Unknown Hydrocarbon	VOA	18.463	9 J
6	Unknown Siloxane	VOA	31.182	9 J
7	Unknown Siloxane	VOA	33.173	10 J
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080014

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: 78

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

QC Report No:
Project No: 87-13596
Date Sample Received: 8/25/87

VOLATILE COMPOUNDS

Concentration: Lcu Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/4/87
Conc/Bil 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	Chlormethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-63-9	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 B	124-48-1	Dibromochlormethane	5.0 U
57-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethene	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	110-75-0	2-Chlorethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
57-66-3	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	127-12-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
55-23-5	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	Bromodichlormethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 U

For reporting results to E34:

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. This flag applies to pesticide parameters where the detection limit reported 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.

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.

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 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.

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).

060015

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: TB

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

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	R _i or Scan Number	Estimated Concentration (<u>ug/l</u> or <u>ug/Kg</u>)
1	1066405	Trimethyl Silanol (Column Bleed)	VCA	15.867
2		Unknown	VCA	17.751
3		Unknown Siloxane	VCA	33.376
4				
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060014

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-3111

Sample Matrix: WATER

Data Release Authorized By: *[Signature]*

QC Report No:

Project No: 87-13595

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	Trichloroethane	5.0 U
75-09-2	Methylene Chloride	2.0 BJ	124-48-1	Dibromochloromethane	5.0 U
57-64-1	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
57-65-3	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
76-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethane	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-68-3	Toluene	1.0 J
55-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	108-41-4	Ethybenzene	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 This flag applies to pesticide parameters where the identification has 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 This flag is used when the analyte is found in the blank as well as a 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
- 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.
- 000017

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: FB

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

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	(R) or Scan Number	Estimated Concentration (ppm or ug/Kg)
1	No Compounds Found	VCA		
2				
3				
4				
5				
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7				
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069018

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	VCA	WATER	LOW	NYT 1	75-09-2 57-64-1	Methylene Chloride Acetone Unknown Unknown S ₂ oxane	10 3 6 7	ug/l	5 10
V3041	7/4/87	VCA	WATER	LOW	NYT 1	75-09-2	Methylene Chloride Unknown	7 6	ug/l	5

Comments:

060019

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory: NYTEST ENVIRONMENTAL INC.

Low: **Medium:**

Project No: 87-13595

[----- VOLATILE -----] [----- SEMI-VOLATILE -----] [PESTICIDES]

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatile: 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]

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**** ADVISORY LIMITS ONLY**

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

Contents:

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 87-13596

FRACTION	COMPOUND	CONC.	SPIKE	SAMPLE	CONC.	%	CONC.	%	RPD	QC LIMITS *		
		ADDED (ug)	RESULT	MS	RECOVERY		MSD	RECOVERY	RPD	RECOVERY		
SAMPLE NO.	VOA	1,1-Dichloroethene	50.00	41.00	82.00	40.00	88.00	2.47	22	59-172		
	SNO	Trichloroethene	50.00	57.00	114.00	54.00	108.00	5.41	24	62-137		
	W-3/S-13	Chlorobenzene	50.00	62.00	124.00	56.00	116.00	5.67	21	60-133		
		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		
SAMPLE NO.	B/N	1,2,4-Trichlorobenzene	50.00		0		0		23	38-107		
		Acenaphthene	50.00		0		0		19	31-137		
		SNO	2,4-Dinitrotoluene	50.00		0		0	47	28-86		
			Pyrene	50.00		0		0	40	11-117		
			N-Nitroso-3-n-Propylamine	50.00		0		0	38	41-126		
			1,4-Dichlorobenzene	50.00		0		0	27	28-104		
SAMPLE NO.	ACID	Pentachlorophenol	100.00		0		0		47	17-109		
	SNO	Phenol	100.00		0		0		35	28-80		
		2-Chlorophenol	100.00		0		0		53	25-102		
		4-Chloro-3-Methylphenol	100.00		0		0		33	28-103		
		4-Nitrophenol	100.00		0		0		50	11-114		
SAMPLE NO.	PEST	Lindane	0.20		0.00		0.00		50	46-127		
		Heptachlor	0.20		0.00		0.00		31	35-130		
		SNO	Aldrin	0.20		0.00		0.00	43	34-132		
			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:	VCAs	0	out of	5	;outside QC limits	RECOVERY	VCA'S	1	out of	10	;outside QC limits
	B/AI		out of	5	;outside QC limits		B/AI		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:

000023

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (8F5)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: NYT 1 Date: 7/3/87

Lab ID: V3000::01

Data Release Authorized By:

Project No: 67-13556

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	7.64
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	8:45
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.	V4652	7/3/87	17:37

063020

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (EFB)

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

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 [3.737]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	63.69 [100.6]*1
177	5.0 - 9.0% of mass 176	7.18 [8.535]**2

* Value in parenthesis is $\frac{1}{2}$ mass 174.

* Value in parenthesis is a 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

060024

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (8FB)

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: NYT 1 Date: 7/04/87

Lab ID: V3039::N2

Data Release Authorized by: *[Signature]*

Project No: 87-13596

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	LAS 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	N7-3105	7/4/87	19:55
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

030025



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 Mechanics3770 Merrick RoadSeaford, New York 11783

Att: Carl Vernick

<u>Sample Identification</u>	<u>Laboratory Number</u>	<u>Type of Sample</u>	<u>Date and Time of Sample Collection</u>
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

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

Laboratory Chronicle

Project No: 87-13596

Client Name: Soil Mechanics

Date Received: 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:

6/4/87 - 6/5/87

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.

6-6-87

nytest environmental inc.

Methodology Summary NYTEST ENVIRONMENTAL INC.

AQUEOUS SAMPLE PREPARATION - Reference (1)

	<u>Method</u>
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

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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

Extraction Procedure Toxicity	<u>Method</u>
Ignitability	1310
Corrosivity	1010
Reactivity	1110
	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

630001

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.

643004

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-3112

Sample Matrix: SOIL

Data Release Authorized By: *[Signature]*

QC Report No:

Project No: S7-13536

Data Sample Received: 6/30/87

VOLATILE COMPOUNDS

Concentration: 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 <input checked="" type="checkbox"/> (Circle One)	CAS Number		ug/l or <input checked="" type="checkbox"/> (Circle One)
74-97-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-07-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-5	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-11-5	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	7.0 E	124-43-1	Dibromochloromethane	5.0 U
67-34-1	Acetone	35.0 E	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	10051-01-5	cis-1,2-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinyl ether	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	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, c

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 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.
- 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.
- U 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.
- U 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.
- U 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(s) is less than the specified detection limit.

C8 C8 C8

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 %)
1	Unknown	VCA	12.532	6.3
2 1055426	Trimethyl Stenol (Column Bleed)	VCA	15.519	5.3
3	Unknown hydrocarbon	VCA	17.730	8.3
4				
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CCCC06

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

QC Report No:
Project No: 87-13596
Date Sample Received: 1/30/97

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 (Circle One)	CAS Number		ug/l or (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	73-87-5	1,2-Dichloropropane	5.0 U
75-31-4	Vinyl Chloride	10.0 U	10031-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-5	Trichloroethane	5.0 U
75-09-2	Methylene Chloride	5.0 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	10051-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-6	2-Chloroethylvinyl ether	10.0 U
155-50-5	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
76-93-3	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
56-20-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
103-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethybenzene	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, see

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. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides greater than or

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/L in the final extract should be confirmed by GC/MS.

b Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 'U 2 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.

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.

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 signal is less than the specified detection limit.

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.

Category

Contractor: NYTEST ENVIRONMENTAL INC.
Project No. 37-13566

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	<i>R</i> _t or Scan Number	Estimated Concentration (ug/l) or <i>c</i> / _v
1	Unknown	VCA	10.545	6.0
2	Unknown	VCA	17.705	7.0
3	Unknown	VCA	31.033	5.0
4	Unknown SiIoxene	VCA	33.574	17.0
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C600003

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-3114

Sample Matrix: 50%

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X Report 10

200-13520

Page 2 of 2

VOLATILE COMPOUNDS

Concentration: 50 Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 1/6/87
Conc/Dil Factor: 1 pH:
Percent Moisture: NA
Percent Moisture (Decapitated): 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
75-30-3	Chloroethane	10.0 U	79-01-5	Trichloroethane	5.0 U
75-09-2	Methylene Chloride	2.0 BU	124-46-1	Dibromochloromethane	5.0 U
57-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	78-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	trans-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	Chloroform	5.0 U
57-65-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-03-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-63-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-38-3	Toluene	1.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-98-7	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	Scorane	5.0 U
				Total Xylenes	5.0 U

For reporting results to E2E-1

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. 0.003). This flag is used when the analyte is found in the blank as well as a based on necessary concentration dilution actions. (This is not a sample. It indicates possible/probable blank contamination and warns 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. Other specific flags and footnotes may be required to properly define

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

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.

660204

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: W-4/S-17

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 97-12595

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	<u>R</u> or Scan Number	Estimated Concentration (μ g/l or μ g/ m^3)
1	Unknown	VCA	12.715	9 J
2	1066403	Trimethyl Stanol (Column Bleed)	VCA	15.513
3	Unknown	VCA	17.043	5 v
4	Unknown	VCA	17.713	11 J
5	Unknown	VCA	18.607	5 J
6	Unknown	VCA	31.615	5 J
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GC/MS

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: NY-3115
Sample Matrix: C01L
Data Release Authorized By: [Signature]

QC Report No:
Project No. 87-13536
Date Sample Received: 11/17/87

VOLATILE COMPOUNDS

Concentration: 14% Medium: (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/5/87
Conc/Oil Factor: 1 %:
Percent Moisture: NA
Percent Moisture (Decanted): 5.8

CAS Number		ug/l or mg/kg (Circle One)	CAS Number		ug/l or mg/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	73-84-5	1,1,2,2-Tetrachloroethane	5.0 U
74-99-9	Bromomethane	10.0 U	78-97-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	100361-02-6	Trans-1,3-Dichloropropene	5.0 U
75-03-3	Chloroethane	10.0 U	73-01-6	Trichloroethane	5.0 U
75-09-2	Methylene Chloride	10.0 B	124-48-1	Dibromochloromethane	5.0 U
67-34-1	Acetone	34.0 B	78-00-5	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	10031-01-3	cis-1,2-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-3	3-Chloroacrylvinylether	10.0 U
156-59-5	Trans-1,2-Dichloroethene	5.0 U	75-05-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	561-78-6	2-Hexanone	10.0 U
107-05-2	1,2-Dichloroethane	5.0 U	109-10-1	1-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	103-98-3	Toluene	2.0 U
56-23-5	Carbon Tetrachloride	5.0 U	103-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethybenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			-----	"Total" 4-Jenes	5.0 U

For reporting results to EPA, it
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. | 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/dL in the final extract should be confirmed by GC/MS. |
| V | Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the J (e.g. 10U 3 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. | 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. |
| O | 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. | OTH |
| 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 spectra data indicates the presence of a compound that meets the identification criteria but is less than 20% (e.g. less than the specified detection limit) | |

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 37-13556

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT on Scan Number	Estimated Concentration (ug/l or ug/kg)
1	Unknown	VCA	14.721	10.0
2	1066403 Trimethyl Silanol (Column Bleed)	VCA	15.493	22.0
3	Unknown	VCA	16.916	11.0
4	Unknown	VCA	17.607	25.0
5	Unknown	VCA	18.480	10.0
6	Unknown	VCA	33.651	20.0
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000012

Contractor: NYTEST ENVIRONMENTAL INC.
 Lab Sample ID No: W7-3116
 Sample Matrix: SOIL
 Data Release Authorized By: *[Signature]*

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

VOLATILE COMPOUNDS

Concentration: U Medium: (Circle One)
 Date Extracted/Prepared: NA
 Date Analyzed: 7/5/87
 Conc/Dil Factor: 1 pH:
 Percent Moisture: NA
 Percent Moisture (Decanted): 15.6

CAS Number		ug/l or <u>ppm</u> (Circle One)	CAS Number		ug/l or <u>ppm</u> (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-63-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	100-61-32-5	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethane	5.0 U
75-09-2	Methylene Chloride	5.0 U	124-43-1	Bifluorochloroethane	5.0 U
67-64-1	Acetone	125.0 S	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	77-13-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	100-61-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-73-8	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	591-78-9	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
53-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethybenzene	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. 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.
- 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. 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.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assured 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 (e.g. 100).
- 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.

060013

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13566

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1	Unknown	VCA	9.030	25 J
2	Unknown	VCA	12.744	27 J
3	1055405 Trimethyl Silanol (Column B feed)	VCA	15.536	79 J
4	Unknown	VCA	16.524	7 J
5	Unknown Siloxane	VCA	31.002	9 J
6	Unknown Siloxane	VCA	34.355	99 J
7				
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C-0014

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: NY-3117

Sample Matrix: WATER

Data Release Authorized By: *[Signature]*

QC Report No:

Project No: 87-13595

Date Sample Received: 6/26/87

VOLATILE COMPOUNDS

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

CAS Number	<i>(C)</i> or ug/Kg (Circle One)	CAS Number	<i>(C)</i> or ug/Kg (Circle One)		
74-87-3	Chloromethane	10.0 U	79-01-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-37-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10031-02-5	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethane	5.0 U
75-09-2	Methylene Chloride	8.1 E	124-48-1	Dibromoethane	5.0 U
67-64-1	Acetone	7.0 U	76-13-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-09-4	1,1-Dichloroethane	5.0 U	10031-01-5	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
107-35-2	1,2-Dichloroethane	5.0 U	103-10-1	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	102-68-3	Toluene	10.0 U
56-23-5	Carbon Tetrachloride	5.0 U	106-90-7	Chlorobenzene	5.0 U
106-05-4	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. 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.
- 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. 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.
- 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 has zero (e.g. less than the specified detection limit)

C-302-2

ORGANICS ANALYSIS DATA SHEET

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 87-13566

SAMPLE NUMBER: TB

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (%) or (µg/g)
1	Unknown Hydrocarbon	VCA	23.404	3 J
2	Unknown	VCA	26.999	10 J
3	Unknown Hydrocarbon	VCA	27.771	21 J
4	Unknown Hydrocarbon	VCA	31.290	10 J
5	Unknown Sulfurane	VCA	33.729	25 J
6				
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060014

Contractor: NYTEST ENVIRONMENTAL INC.

Lab Sample ID No: N7-318

Sample Matrix: WATER

Data Release Authorized by

CC Report No:

Project No: 87-13595

Date Sample Received: 5/15/97

WHITE MOUNTAINS

Concentration: 3 Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 7/6/97
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	73-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-67-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10361-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	75-51-5	Trichloroethane	5.0 U
75-09-2	Methylene Chloride	6.0 U	124-48-1	Dibromochloromethane	5.0 U
57-56-1	Acetone	10.0 U	73-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-55-4	1,1-Dichloroethene	5.0 U	10001-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
158-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
57-66-3	Chloroform	5.0 U	591-78-5	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	121-18-4	Tetrachloroethene	5.0 U
77-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
55-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
103-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethybenzene	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 ESI:

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.

• indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 11 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.

37) 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.

0.3317

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 97-13556

negative ligand compounds

CAS Number	Compound Name	Fraction	 Scan Number	 Concentration (µg/kg)	Estimated
26	2,2-dimethylpropane	VOM	17.05	7.0	
25	2,2-dimethylbutane	VOM	17.05	7.0	
24	2,2-dimethylpentane	VOM	17.05	7.0	
23	2,2-dimethylhexane	VOM	17.05	7.0	
22	2,2-dimethylheptane	VOM	17.05	7.0	
21	2,2-dimethyloctane	VOM	17.05	7.0	
20	2,2-dimethylnonane	VOM	17.05	7.0	
19	2,2-dimethyldecane	VOM	17.05	7.0	
18	2,2-dimethylundecane	VOM	17.05	7.0	
17	2,2-dimethyltridecane	VOM	17.05	7.0	
16	2,2-dimethylpentadecane	VOM	17.05	7.0	
15	2,2-dimethylheptadecane	VOM	17.05	7.0	
14	2,2-dimethylnonyadecane	VOM	17.05	7.0	
13	2,2-dimethylundecadecane	VOM	17.05	7.0	
12	2,2-dimethyltridecadecane	VOM	17.05	7.0	
11	2,2-dimethylpentadecadecane	VOM	17.05	7.0	
10	2,2-dimethylheptadecadecane	VOM	17.05	7.0	
9	2,2-dimethylnonyadecadecane	VOM	17.05	7.0	
8	2,2-dimethylundecadecadecane	VOM	17.05	7.0	
7	2,2-dimethyltridecadecadecane	VOM	17.05	7.0	
6	2,2-dimethylpentadecadecadecane	VOM	17.05	7.0	
5	2,2-dimethylheptadecadecadecane	VOM	17.05	7.0	
4	2,2-dimethylnonyadecadecadecane	VOM	17.05	7.0	
3	2,2-dimethylundecadecadecadecane	VOM	17.05	7.0	
2	2,2-dimethyltridecadecadecadecane	VOM	17.05	7.0	
1	2,2-dimethylpentadecadecadecadecane	VOM	17.05	7.0	

NETTOD S. A. MK. COMPANY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No: 37-3586

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL,TIC OR UNKNOWN)	CONC.	UNITS	CRC
V3041	7/4/87	VCA	WATER	LOW	NYT 1 TIC	75-09-2 67-64-1	Methylene Chloride Unknown	7 6	ug/l ug/l	5
V3048	7/6/87	VCA	WATER	LOW	NYT 1 TIC	75-09-2 67-64-1	Methylene Chloride Acetone Unknown	5 12 15	ug/l ug/l ug/l	5

Comments:

C-223

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory: NYTEST ENVIRONMENTAL INC.

Project No: 87-13596

Medium:

VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

* ADVISORY LIMITS ONLY

Volatiles:
Semi-Volatiles
Pesticides:

0 out of 12 ; outside of QC limits
out of ; outside of QC limits
out of ; outside of QC limits

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory: NYTEST ENVIRONMENTAL INC.

Low: **Medium:**

Project No: 87-13598

VOLATILE **IF** **-SEMI-VOLATILE-** **PESTICIDES**

• • • VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

© 2014 ADVISORY LIMITS ONLY

Volatiles:
Semi-Volatiles
Pesticides:

0 cut of 21 ; outside of QC limits
cut of ; outside of QC limits
cut of ; outside of QC limits

Contents

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Contractor: NYTEST ENVIRONMENTAL INC.

Project No. 97-13555

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	%	CONC. MSD	%	REPO RECOVERY	QC LIMITS *	
									REPO	RECOVERY
SAMPLE NO. W-3/S-18	VOA	50.00		41.00	82.00	40.00	80.00	2.47	22	59-172
	SMO	50.00		57.00	114.00	54.00	108.00	5.41	24	52-137
	Chlorobenzene	50.00		52.00	104.00	58.00	116.00	6.67	21	60-133
	Toluene	50.00	2.00	76.00	148.00	71.00	136.00	6.93	21	59-139
	Benzene	50.00		52.00	104.00	48.00	96.00	8.00	21	56-142
SAMPLE NO.	S/N	1,2,4-Trichlorobenzene	50.00						23	33-107
	SMC	Acenaphthene	50.00						19	31-137
		2,4-Dinitrotoluene	50.00						47	23-86
		Pyrene	50.00						40	11-177
		4-Nitroso-Di-n-Propylamine	50.00						36	41-125
		1,4-Dichrobenzene	50.00						27	22-104
SAMPLE NO.	ACID	Pentachlorophenol	100.00						57	17-103
	SMO	Phenol	100.00						35	26-50
		2-Chlorophenol	100.00						50	25-102
		4-Chloro-3-Methylphenol	100.00						33	26-103
		4-Nitrophenol	100.00						50	11-114
SAMPLE NO.	PEST	Lindane	0.20		0.00		0.00		50	45-127
	SMO	Heptachlor	0.20		0.00		0.00		31	35-130
		Aldrin	0.20		0.00		0.00		43	34-132
		Dieldrin	0.50		0.00		0.00		38	31-134
		Endrin	0.50		0.00		0.00		45	43-139
		4,4'-DDT	0.50		0.00		0.00		53	23-134

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

REPO:	VOAs	0	out of	5	; outside QC limits	RECOVERY VOA'S		out of	10	; outside QC limits
	S/N		out of	6	; outside QC limits	S/N		out of	12	; outside QC limits
	AC10		out of	5	; outside QC limits	AC10		out of	10	; outside QC limits
	PEST		out of	6	; outside QC limits	PEST		out of	12	; outside QC limits

Comments:

C-00122

**GC/MS TUNING AND MASS CALIBRATION:
PROMEX-1200E ZEROS (SF3)**

Contractor: NYTEST ENVIRONMENTAL INC.

Instrument ID: NYT-1 Date: 7/3/87

Case ID: V3000::D1 Data Release Authorized By:

Project No: 37-13595

Time. 6.45

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	7.64
173	Less than 1.0% of the base peak	0.00
174	Greater than 50.0% of the base peak	76.56
175	5.0 - 9.0% of mass 174	5.13 [7.734]*1
176	Greater than 65.0%, but less than 100.0% of mass 174	76.06 [100.0]*1
177	5.0 - 9.0% of mass 176	5.69 [8.405]**2

* Value in parenthesis is mass 174.

* Value in parenthesis is at mass 176.

THIS PERFORMANCE TIME APPLIES TO THE FOLLOWING SAMPLES, PLATES AND STANDARDS.

SAMPLE ID	LAS ID	DATE OF ANALYSIS	TIME OF ANALYSIS
Ref. 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.	V3001	7/3/87	15:24
150 ng. Std.	V3005	7/3/87	16:03
200 ng. Std.	VA662	7/3/87	17:37

60031

GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (3FB)

Contractor: NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/03/87
Lab ID: V3039::N2 Data Release Authorized By: *JW*

Project No: 87-10556
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 [0.950]*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 VS	N7-3109	7/4/87	22:37
W-3/S-18 MGD	N7-3109	7/4/87	23:17
TB	N7-3117	7/5/87	1:13
W-4/S-19	N7-3115	7/5/87	2:06

6-30-87-24

SC/MS TUNING AND MASS CALIBRATION BROMOPHENYLICENE (BPE)

Contractor: NYTEST ENVIRONMENTAL INC.
Instrument ID: NYT 1 Date: 7/06/87
Lab ID: V3045::N2 Data Release

Project No. 37-13565
Time: 9:10

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
35	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	88.88
175	5.0 - 9.0% of mass 174	5.92 [7.19]*1
176	Greater than 95.0%, but less than 101.0% of mass 174	76.74 [93.85]**1
177	5.0 - 9.0% of mass 176	6.75 [2.469]**2

* Value in parenthesis is at mass 174.

* Value in parenthesis is at mass 176.

THIS PERFORMANCE TIME 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
73	N7-3113	7/6/87	13:19
W-4/5-13	N7-3112	7/6/87	14:01
W-4/5-15	N7-3113	7/6/87	14:44
W-4/5-17	N7-3114	7/6/87	15:55
W-4/5-21	N7-3116	7/6/87	17:09

Date _____

COVER PAGE

ANAYLTICAL DATA PACKAGE

Lab Name NYTEST ENVIRONMENTAL Case No. _____

SOW No. _____ Q.C. Report No. 00132-87

Sample Numbers

<u>Soil M No.</u>	<u>Lab ID No.</u>		<u>Soil M No.</u>	<u>Lab ID No.</u>
<u>W-1 S-1</u>	<u>8713596</u>	1	<u>W-1 S-10</u>	<u>8713596</u>
<u>W-1 S-2</u>	_____	1	<u>W-1 S-11</u>	_____
<u>W-1 S-3</u>	_____	1	<u>W-1 S-12</u>	_____
<u>W-1 S-4</u>	_____	1	<u>W-1 S-13</u>	_____
<u>W-1 S-5</u>	_____	1	<u>W-1 S-14</u>	_____
<u>W-1 S-6</u>	_____	1	<u>W-1 S-15</u>	_____
<u>W-1 S-7</u>	_____	1	<u>W-1 S-16</u>	_____
<u>W-1 S-8</u>	_____	1	<u>W-1 S-17</u>	_____
<u>W-1 S-9</u>	_____	1	<u>F B - 1</u>	_____

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

<u>Soil M No.</u>	<u>Lab ID No.</u>		<u>Soil M No.</u>	<u>Lab ID No.</u>
<u>W-2-S-10</u>	<u>8713596</u>	1	<u>W-3-S-16</u>	<u>8713596</u>
<u>W-2-S-12</u>	_____	1	<u>W-3-S-18</u>	_____
<u>W-2-S-14</u>	_____	1	<u>Field Blank</u>	_____
<u>W-2-S-16</u>	_____	1	<u>W-4-S-13</u>	_____
<u>W-2-S-18</u>	_____	1	<u>W-4-S-15</u>	_____
<u>Field Blank</u>	_____	1	<u>W-4-S-17</u>	_____
<u>W-3-S-10</u>	_____	1	<u>W-4-S-19</u>	_____
<u>W-3-S-12</u>	_____	1	<u>W-4-S-21</u>	_____
<u>W-3-S-14</u>	_____	1	<u>Field Blank</u>	_____

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.

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 G-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	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 NYSDOC, 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. _____

SOL NO. _____

LAB SAMPLE ID NO. W-1 S-2 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	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	NR
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 NYSDCC, 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

ORIGINIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOI NO. _____

WS SAMPLE ID NO. W-1 S-3 6-23 EPTox AC 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	<u>NR</u>	13. Magnesium	<u>NR</u>
2. Antimony	<u>NR</u>	14. Manganese	<u>NR</u>
3. Arsenic	<u>ZU</u>	15. Mercury	<u>.13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>NR</u>
5. Beryllium	<u>NR</u>	17. Potassium	<u>NR</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>C 2J F</u>
7. Calcium	<u>NR</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>NR</u>
9. Cobalt	<u>NR</u>	21. Thallium	<u>NR</u>
10. Copper	<u>NR</u>	22. Tin	<u>NR</u>
11. Iron	<u>NR</u>	23. Vanadium	<u>NR</u>
12. Lead	<u>21</u>	24. Zinc	
Cyanide		Percent Solids (%)	

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 are 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. WT 5-4 6-23 EPTox OC REPORT NO. 00132-87

Elements Identified and Measured

Concentration:

Low

Medium

Other EPTox

Matrix: Water

Soil

Sludge

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

1. Aluminum NR
2. Antimony NR
3. Arsenic 24
4. Barium 1004
5. Beryllium NR
6. Cadmium 34
7. Calcium NR
8. Chromium 941
9. Cobalt NR
10. Copper NR
11. Iron NR
12. Lead 22

Cyanide

13. Magnesium NR
14. Manganese NR
15. Mercury 1341
16. Nickel NR
17. Potassium NR
18. Selenium 8
19. Silver 54
20. Sodium NR
21. Thallium NR
22. Tin NR
23. Vanadium NR
24. Zinc

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-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 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	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	NR
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-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 OC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low Medium
Matrix: Water Soil Sludge Other EPTOX

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

1. Aluminum	<u>NR</u>	13. Magnesium	<u>NR</u>
2. Antimony	<u>NR</u>	14. Manganese	<u>NR</u>
3. Arsenic	<u>2U</u>	15. Mercury	<u>13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>NR</u>
5. Beryllium	<u>NR</u>	17. Potassium	<u>NR</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>2U</u>
7. Calcium	<u>NR</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>NR</u>
9. Cobalt	<u>NR</u>	21. Thallium	<u>NR</u>
10. Copper	<u>NR</u>	22. Tin	<u>NR</u>
11. Iron	<u>NR</u>	23. Vanadium	<u>NR</u>
12. Lead	<u>75</u>	24. Zinc	<u>NR</u>

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 NYSDC, 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-7 EPTOX
Sample No.

6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOL NO. _____

LAB SAMPLE ID NO. W-1 S-7 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
2. Antimony	NR
3. Arsenic	24
4. Barium	1004
5. Beryllium	NR
6. Cadmium	34
7. Calcium	NR
8. Chromium	94
9. Cobalt	NR
10. Copper	NR
11. Iron	NR
12. Lead	26
Cyanide	

13. Magnesium	NR
14. Manganese	NR
15. Mercury	134
16. Nickel	NR
17. Potassium	NR
18. Selenium	24
19. Silver	54
20. Sodium	NR
21. Thallium	NR
22. Tin	NR
23. Vanadium	NR
24. Zinc	

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: _____

Comments:

For reporting results to MSDS, standard result units shall be chosen as follows:
measures at encountered on Cover Page. Additional listing of such tables must be explicit.
and contained on Cover Page. Results or factors are used as

NR - not indicated by contact at this time.

Notes:

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

Compound	Symbol	Percent Solids (%)
Zinc	Zn	142
Titanium	NR	100
Tin	Ti	NR
Manganese	Mn	NR
Sodium	Na	11
Silicon	Si	NR
Selenite	Se	32
Potassium	K	NR
Nickel	Ni	NR
Manganese	Mn	132
Arsenic	As	22
Boron	B	210
Barium	Ba	NR
Lead	Pb	NR
Antimony	Sb	NR
Magnesium	Mg	NR
Aluminum	Al	NR

(mg/kg dry weight (critical one))

Sample: water Soil Sludge other Epx
Concentration: low / medium / high

Elements identified and measured

Lab sample ID no. W-1 S-8 6-23 Epx ac Report no. 00132-87

SO. NO.

Lab name NYTEST ENVIRONMENTAL CASE NO.

MECHANIC ANALYSIS DATA SHEET

6-23-87

Sample no.

W-1 S-8 Epx

W-1 S-9 Eptox
Sample No.

6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOI NO. _____

LAB SAMPLE ID NO. W-1 S-9 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	100 U	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	NR
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 are 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. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 S-10 6-23-87 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
2. Antimony	NR
3. Arsenic	[2]F
4. Barium	1000
5. Beryllium	NR
6. Cadmium	30
7. Calcium	NR
8. Chromium	90
9. Cobalt	NR
10. Copper	NR
11. Iron	NR
12. Lead	27

Cyanide

13. Magnesium	NR
14. Manganese	NR
15. Mercury	134
16. Nickel	NR
17. Potassium	NR
18. Selenium	24
19. Silver	60
20. Sodium	NR
21. Thallium	NR
22. Tin	NR
23. Vanadium	NR
24. Zinc	

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 NYSDCC, 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. _____

SOW 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	[3]U
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	NR
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

Footnotes: 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 J-12 EPTox
Sample No.

6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOW NO. _____

LAB SAMPLE ID NO. W-1 J-12 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	[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	54
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	NR
Cyanide		Percent Solids (%)	

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 NYSDCC, 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: _____

Comments:

for reporting results to NSDEC. Standard results quality qualifiers are used as defined on cover page. Definition of such flags must be explicitly mentioned at each page; however.

NR - not required by contract at this time

Comments:

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

10. If yes, corrections applied before or after generation of new data? Yes No

Percent Solids (%)		Quantity
21.	Zinc	181
22.	Vanadium	NR
22.	Tin	NR
21.	Manganese	NR
20.	Sodium	NR
19.	Silver	51
18.	Selenium	31
17.	Possassium	NR
16.	Nickel	100
15.	Manganese	(4) F
14.	Manganese	NR
13.	Manganese	NR
12.	Lead	NR
11.	Titan	NR
10.	Copper	NR
9.	Gold	NR
8.	Chromium	91
7.	Calcium	NR
6.	Chlorine	NR
5.	Boron	NR
4.	Barium	100
3.	Asbestos	NR
2.	Manganese	NR
1.	Aluminum	NR

14/1 ac mg/kg dry weight (dilute air)

Materials: Water Soil Sludge Residue
Concentrations: Low /
Elements Identified and measured

LIA SHARE ID NO. W-1 S-13 6-23 Epx as REPORT NO. 00132-87

SO. NO.

LIA NAME NYTEST ENVIRONMENTAL CASE NO.

DOCKWICH ANALYSIS DATA SHEET

6-23

Sample No.

W-1 S-13 Epx

W-1 S-14 Eptox
Sample No.

6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOR NO. _____

LAB SAMPLE ID NO. W-1 S-14 6-23 Eptox OC REPORT NO. 00132-87

Elements Identified and Measured

Concentration: Low Medium
Matrix: Water Soil Sludge Other Eptox

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

1. Aluminum	NR	13. Magnesium	NR
2. Antimony	NR	14. Manganese	NR
3. Arsenic	[3]F	15. Mercury	[13]U
4. Barium	[100]P	16. Nickel	NR
5. Beryllium	NR	17. Potassium	NR
6. Cadmium	34	18. Selenium	24
7. Calcium	NR	19. Silver	54
8. Chromium	94	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	NR

Cyanide Percent Solids (%)

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 MNSDEC, 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: _____

Comments:

For reporting results to NYSDCC, standard results shall reflect the test as described on Cover Page. Definition of such terms must be explicit.
NR - not required by contract at this time
Note: If fees, contracts and background conditions applied before or after generation of new data.

ICP Inertial Centrifuge and background conditions applied before or after generation of new data

ICP Inertial Centrifuge and background conditions applied Yes No

	Element Solids (%)	Quantity
21. Zinc	24	12. Lead
22. Vanadium	NR	11. Iron
23. Tin	NR	10. Copper
24. Thallium	NR	9. Cobalt
25. Sodium	94	8. Chromium
26. Silver	NR	7. Calcium
27. Selenium	24	6. Cadmium
28. Boron	34	5. Barium
29. Process	NR	4. Nitrate
30. Nickel	NR	3. Arsenic
31. Manganese	134	2. Antimony
32. Mercury	24	1. Aluminum
33. Hemisulfur	NR	
34. Hemisulfur	NR	
35. Hemisulfur	NR	
36. Hemisulfur	NR	
37. Hemisulfur	NR	
38. Hemisulfur	NR	
39. Hemisulfur	NR	
40. Hemisulfur	NR	
41. Hemisulfur	NR	
42. Hemisulfur	NR	
43. Hemisulfur	NR	
44. Hemisulfur	NR	
45. Hemisulfur	NR	
46. Hemisulfur	NR	
47. Hemisulfur	NR	
48. Hemisulfur	NR	
49. Hemisulfur	NR	
50. Hemisulfur	NR	
51. Hemisulfur	NR	
52. Hemisulfur	NR	
53. Hemisulfur	NR	
54. Hemisulfur	NR	
55. Hemisulfur	NR	
56. Hemisulfur	NR	
57. Hemisulfur	NR	
58. Hemisulfur	NR	
59. Hemisulfur	NR	
60. Hemisulfur	NR	
61. Hemisulfur	NR	
62. Hemisulfur	NR	
63. Hemisulfur	NR	
64. Hemisulfur	NR	
65. Hemisulfur	NR	
66. Hemisulfur	NR	
67. Hemisulfur	NR	
68. Hemisulfur	NR	
69. Hemisulfur	NR	
70. Hemisulfur	NR	
71. Hemisulfur	NR	
72. Hemisulfur	NR	
73. Hemisulfur	NR	
74. Hemisulfur	NR	
75. Hemisulfur	NR	
76. Hemisulfur	NR	
77. Hemisulfur	NR	
78. Hemisulfur	NR	
79. Hemisulfur	NR	
80. Hemisulfur	NR	
81. Hemisulfur	NR	
82. Hemisulfur	NR	
83. Hemisulfur	NR	
84. Hemisulfur	NR	
85. Hemisulfur	NR	
86. Hemisulfur	NR	
87. Hemisulfur	NR	
88. Hemisulfur	NR	
89. Hemisulfur	NR	
90. Hemisulfur	NR	
91. Hemisulfur	NR	
92. Hemisulfur	NR	
93. Hemisulfur	NR	
94. Hemisulfur	NR	
95. Hemisulfur	NR	
96. Hemisulfur	NR	
97. Hemisulfur	NR	
98. Hemisulfur	NR	
99. Hemisulfur	NR	
100. Hemisulfur	NR	
101. Hemisulfur	NR	
102. Hemisulfur	NR	
103. Hemisulfur	NR	
104. Hemisulfur	NR	
105. Hemisulfur	NR	
106. Hemisulfur	NR	
107. Hemisulfur	NR	
108. Hemisulfur	NR	
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110. Hemisulfur	NR	
111. Hemisulfur	NR	
112. Hemisulfur	NR	
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116. Hemisulfur	NR	
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131. Hemisulfur	NR	
132. Hemisulfur	NR	
133. Hemisulfur	NR	
134. Hemisulfur	NR	
135. Hemisulfur	NR	
136. Hemisulfur	NR	
137. Hemisulfur	NR	
138. Hemisulfur	NR	
139. Hemisulfur	NR	
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141. Hemisulfur	NR	
142. Hemisulfur	NR	
143. Hemisulfur	NR	
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145. Hemisulfur	NR	
146. Hemisulfur	NR	
147. Hemisulfur	NR	
148. Hemisulfur	NR	
149. Hemisulfur	NR	
150. Hemisulfur	NR	
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154. Hemisulfur	NR	
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157. Hemisulfur	NR	
158. Hemisulfur	NR	
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162. Hemisulfur	NR	
163. Hemisulfur	NR	
164. Hemisulfur	NR	
165. Hemisulfur	NR	
166. Hemisulfur	NR	
167. Hemisulfur	NR	
168. Hemisulfur	NR	
169. Hemisulfur	NR	
170. Hemisulfur	NR	
171. Hemisulfur	NR	
172. Hemisulfur	NR	
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180. Hemisulfur	NR	
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182. Hemisulfur	NR	
183. Hemisulfur	NR	
184. Hemisulfur	NR	
185. Hemisulfur	NR	
186. Hemisulfur	NR	
187. Hemisulfur	NR	
188. Hemisulfur	NR	
189. Hemisulfur	NR	
190. Hemisulfur	NR	
191. Hemisulfur	NR	
192. Hemisulfur	NR	
193. Hemisulfur	NR	
194. Hemisulfur	NR	
195. Hemisulfur	NR	
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230. Hemisulfur	NR	
231. Hemisulfur	NR	
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234. Hemisulfur	NR	
235. Hemisulfur	NR	
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239. Hemisulfur	NR	
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251. Hemisulfur	NR	
252. Hemisulfur	NR	
253. Hemisulfur	NR	
254. Hemisulfur	NR	
255. Hemisulfur	NR	
256. Hemisulfur	NR	
257. Hemisulfur	NR	
258. Hemisulfur	NR	
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261. Hemisulfur	NR	
262. Hemisulfur	NR	
263. Hemisulfur	NR	
264. Hemisulfur	NR	
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267. Hemisulfur	NR	
268. Hemisulfur	NR	
269. Hemisulfur	NR	
270. Hemisulfur	NR	
271. Hemisulfur	NR	
272. Hemisulfur	NR	
273. Hemisulfur	NR	
274. Hemisulfur	NR	
275. Hemisulfur	NR	
276. Hemisulfur	NR	
277. Hemisulfur	NR	
278. Hemisulfur	NR	
279. Hemisulfur	NR	
280. Hemisulfur	NR	
281. Hemisulfur	NR	
282. Hemisulfur	NR	
283. Hemisulfur	NR	
284. Hemisulfur	NR	
285. Hemisulfur	NR	
286. Hemisulfur	NR	
287. Hemisulfur	NR	
288. Hemisulfur	NR	
289. Hemisulfur	NR	
290. Hemisulfur	NR	
291. Hemisulfur	NR	
292. Hemisulfur	NR	
293. Hemisulfur	NR	
294. Hemisulfur	NR	
295. Hemisulfur	NR	
296. Hemisulfur	NR	
297. Hemisulfur	NR	
298. Hemisulfur	NR	
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303. Hemisulfur	NR	
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314. Hemisulfur	NR	
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318. Hemisulfur	NR	
319. Hemisulfur	NR	
320. Hemisulfur	NR	
321. Hemisulfur	NR	
322. Hemisulfur	NR	
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326. Hemisulfur	NR	
327. Hemisulfur	NR	
328. Hemisulfur	NR	
329. Hemisulfur	NR	
330. Hemisulfur	NR	
331. Hemisulfur	NR	
332. Hemisulfur	NR	
333. Hemisulfur	NR	
334. Hemisulfur	NR	
335. Hemisulfur	NR	
336. Hemisulfur	NR	
337. Hemisulfur	NR	
338. Hemisulfur	NR	
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340. Hemisulfur	NR	
341. Hemisulfur	NR	
342. Hemisulfur	NR	
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351. Hemisulfur	NR	
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353. Hemisulfur	NR	
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360. Hemisulfur	NR	
361. Hemisulfur	NR	
362. Hemisulfur	NR	
363. Hemisulfur	NR	
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366. Hemisulfur	NR	
367. Hemisulfur	NR	
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369. Hemisulfur	NR	
370. Hemisulfur	NR	
371. Hemisulfur	NR	
372. Hemisulfur	NR	
373. Hemisulfur	NR	
374. Hemisulfur	NR	
375. Hemisulfur	NR	
376. Hemisulfur	NR	
377. Hemisulfur	NR	
378. Hemisulfur	NR	
379. Hemisulfur	NR	
380. Hemisulfur	NR	
381. Hemisulfur	NR	
382. Hemisulfur	NR	
383. Hemisulfur	NR	
384. Hemisulfur	NR	
385. Hemisulfur	NR	
386. Hemisulfur	NR	
387. Hemisulfur	NR	
388. Hemisulfur	NR	
389. Hemisulfur	NR	
390. Hemisulfur	NR	
391. Hemisulfur	NR	
392. Hemisulfur	NR	
393. Hemisulfur	NR	
394. Hemisulfur	NR	
395. Hemisulfur	NR	
396. Hemisulfur	NR	
397. Hemisulfur	NR	
398. Hemisulfur	NR	
399. Hemisulfur	NR	
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401. Hemisulfur	NR	
402. Hemisulfur	NR	
403. Hemisulfur	NR	
404. Hemisulfur	NR	
405. Hemisulfur	NR	
406. Hemisulfur	NR	
407. Hemisulfur	NR	
408. Hemisulfur	NR	
409. Hemisulfur	NR	
410. Hemisulfur	NR	
411. Hemisulfur	NR	
412. Hemisulfur	NR	
413. Hemisulfur	NR	
414. Hemisulfur	NR	
415. Hemisulfur	NR	
416. Hemisulfur	NR	
417. Hemisulfur	NR	
418. Hemisulfur	NR	
419. Hemisulfur	NR	
420. Hemisulfur	NR	
421. Hemisulfur		

W-1 S-16 EPtox
Sample No.

6-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME NYTEST ENVIRONMENTAL CASE NO. _____

SOI NO. _____

LAB SAMPLE ID NO. W-1 S-16 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	C3JF	15. Mercury	13U
4. Barium	C120JP	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	NR
Cyanide		Percent Solids (%)	

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 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. _____

US SAMPLE ID NO. W-1 S-17 6-23-87 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	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	24	24. Zinc	NR
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 NYSDER, 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: _____

Comments:

Note: For reporting results to NSDEC, standard result units must be used as defined on Cover page. Additioanl pages or footnotes explaining results as encountered may be used.

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

Element	Conc.	Unit	Comments
1. Aluminum	NR	mg/kg dry weight (circled)	
2. Antimony	NR	mg/kg	
3. Arsenic	2.1	mg/kg	
4. Barium	100.1	mg/kg	
5. Beryllium	NR	mg/kg	
6. Cadmium	3.4	mg/kg	
7. Calcium	NR	mg/kg	
8. Chromium	9.4	mg/kg	
9. Cobalt	NR	mg/kg	
10. Copper	NR	mg/kg	
11. Iron	NR	mg/kg	
12. Lead	2.6	mg/kg	
13. Magnesium	NR	mg/kg	
14. Manganese	NR	mg/kg	
15. Mercury	0.131	mg/kg	
16. Nickel	NR	mg/kg	
17. Potassium	NR	mg/kg	
18. Selenium	2.1	mg/kg	
19. Silver	5.1	mg/kg	
20. Sodium	NR	mg/kg	
21. Thallium	NR	mg/kg	
22. Tin	NR	mg/kg	
23. Vanadium	NR	mg/kg	
24. Zinc	2.6	mg/kg	

Elements identified and measured

Concentrations: mg/kg dry weight (circled)

Soil Sludge Mud

Matrix: Water

Others Epx

LAB SAMPLE ID NO. Epx 00132-B7

SOW. NO.

LAB NAME NYTEST ENVIRONMENTAL

CASE NO.

BIOCHEMICAL ANALYSIS DATA SHEET

6-2387
Sample No.

Field Bulk Epx

(1) 100-101-01-01

Notes: For reporting results to MSDS, standard results quality guides are used as follows:
 and conclusions on Cover Page, however,
 results are summarized. Definition of such flags may be found
 detailed on Cover Page. Additions of flags or footnotes explaining
 and conclusions on Cover Page to MSDS.

NR - not required by contract at this time

Notes:

If yes, corrections applied before _____ or after _____ generation of new data.
 If integrations and back-calculations applied? Yes _____ No _____

Element	Percent Solids (%)
12. Lead	16
11. Iron	NR
10. Copper	100
9. Cobalt	NR
8. Chromium	92
7. Calcium	NR
6. Cadmium	32
5. Barium	NR
4. Barium	[130]P
3. Arsenic	22
2. Antimony	NR
1. Aluminum	NR
23. Manganese	NR
22. Sodium	NR
21. Zinc	22
20. Sulfur	NR
19. Silver	50
18. Selenium	22
17. Potassium	NR
16. Nickel	150
15. Mercury	130
14. Arsenic	NR
13. Sodium	NR
12. Zinc	22
11. Vanadium	NR
10. Tin	NR
9. Manganese	NR
8. Chlorine	NR
7. Chlorine	NR
6. Cadmium	NR
5. Barium	NR
4. Barium	NR
3. Arsenic	NR
2. Antimony	NR
1. Aluminum	NR

mg/L or mg/kg dry weight (circle one)

Method: HgC or Soil Sludge Other Epx

Concentration:

low /

mod

Elements identified and measured

Lab Sample ID No. 00132-87

SC No.

Lab Name NYCEST ENVIRONMENTAL

Case No.

ROCKAWIC ANALYSIS DATA SHEET

6-24-87

Sample No. [redacted]

W-2-S-10 Epx

W-2-S-12 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-12 EPTox 6-24 OC REPORT NO. 00132-B7

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 (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-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 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	<u>NR</u>	13. Magnesium	<u>NR</u>
2. Antimony	<u>NR</u>	14. Manganese	<u>NR</u>
3. Arsenic	<u>2U</u>	15. Mercury	<u>13U</u>
4. Barium	<u>[150]P</u>	16. Nickel	<u>15U</u>
5. Beryllium	<u>NR</u>	17. Potassium	<u>NR</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>2U</u>
7. Calcium	<u>NR</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>NR</u>
9. Cobalt	<u>NR</u>	21. Thallium	<u>NR</u>
10. Copper	<u>10U</u>	22. Tin	<u>NR</u>
11. Iron	<u>NR</u>	23. Vanadium	<u>NR</u>
12. Lead	<u>1U</u>	24. Zinc	<u>2U</u>
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-2-S-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-S-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	150JP	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	14	24. Zinc	66JP
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-2-S-18 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-18 EPtox 6-24 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	<u>NR</u>	13. Magnesium	<u>NR</u>
2. Antimony	<u>NR</u>	14. Manganese	<u>NR</u>
3. Arsenic	<u>24</u>	15. Mercury	<u>.13U</u>
4. Barium	<u>1303P</u>	16. Nickel	<u>15U</u>
5. Beryllium	<u>NR</u>	17. Potassium	<u>NR</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>2U</u>
7. Calcium	<u>NR</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>NR</u>
9. Cobalt	<u>NR</u>	21. Thallium	<u>NR</u>
10. Copper	<u>10U</u>	22. Tin	<u>NR</u>
11. Iron	<u>10U</u>	23. Vanadium	<u>NR</u>
12. Lead	<u>10</u>	24. Zinc	<u>2U</u>
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: _____

Comments:

Footnote: For reporting results to NIOSC, standard results usually differ as follows:
 and concluded on Cover page; however,
 results are concluded. Definition of such flags must be explicit
 defined on Cover page. Additioinal flags or outcomes depending

NR - not reported by contractor at this time

Footnote:

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

Element	Concentration	Method	Notes
Aluminum	NR	Magnesium	NR
Antimony	NR	Hg	NR
Arsenic	24	As	NR
Boron	154	As	NR
Boron	1004	As	NR
Cadmium	154	As	NR
Copper	104	As	NR
Iron	104	As	NR
Nickel	16	As	NR
Potassium	NR	As	NR
Selenium	24	As	NR
Silver	54	As	NR
Sodium	944	As	NR
Thallium	NR	As	NR
Tin	104	As	NR
Titanium	NR	As	NR
Vanadium	104	As	NR
Zinc	144	As	NR
Zinc	24	As	NR
Zinc	24	As	NR

14/16 mg/kg dry weight (circle one)

Elements identified and measured

Concentrations:

Antimony	As	Lead	Mercury	Other
144	144	144	144	144

Lab sample ID no. Field Sample 6-24-87 CC Report No. 00132-87

SO. NO.

Lab Name: NYTEST ENVIRONMENTAL CASE NO.

ROCKWELL ANALYSIS DATA SHEET

6-24-87

Sample No.

Field Sample

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 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	11. 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 are encouraged. 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. _____

SOW NO. _____

LAB SAMPLE ID NO. W-3-S-12 Eptox 6-25-87 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	<u>NR</u>	13. Magnesium	<u>NR</u>
2. Antimony	<u>NR</u>	14. Manganese	<u>NR</u>
3. Arsenic	<u>[2]F</u>	15. Mercury	<u>.13U</u>
4. Barium	<u>100U</u>	16. Nickel	<u>[20]JP</u>
5. Beryllium	<u>NR</u>	17. Potassium	<u>NR</u>
6. Cadmium	<u>3U</u>	18. Selenium	<u>:2U</u>
7. Calcium	<u>NR</u>	19. Silver	<u>5U</u>
8. Chromium	<u>9U</u>	20. Sodium	<u>..NR</u>
9. Cobalt	<u>NR</u>	21. Thallium	<u>NR</u>
10. Copper	<u>[17]JP</u>	22. Tin	<u>NR</u>
11. Iron	<u>NR</u>	23. Vanadium	<u>NR</u>
12. Lead	<u>43</u>	24. Zinc	<u>2U</u>
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: _____

Comments:

Footnote: For reporting results to NSDEC, standard result qualifiers are used as results are encouraged. Definition of flags or footnotes must be explained on Cover Page. Additonal qualifiers must be explained and contained on Cover Page.

NR - not reported by contract at this time

Footnote:

If yes, corrections applied before _____ or after _____ generation of raw data.
ICP Intercalibration and background corrections applied? Yes No

		Percent Solids (%)	Quantity
21.	Zinc	44	Lead
22.	Vanadium	NR	Titan
23.	Thallium	100	Copper
24.	Tin	NR	Cobalt
25.	Mercury	NR	Chromium
26.	Sodium	.. NR	Calcium
27.	Selenium	50	Nickel
28.	Silver	NR	Barium
29.	Barium	100	Arsenic
30.	Potassium	NR	Aluminum
31.	Iron	150	Manganese
32.	Hydrogen	130	Phosphorus
33.	Hydroxide	100	NR
34.	Hydrogen	150	NR
35.	Hydroxide	150	NR
36.	Hydroxide	150	NR
37.	Hydroxide	150	NR
38.	Hydroxide	150	NR
39.	Hydroxide	150	NR
40.	Hydroxide	150	NR
41.	Hydroxide	150	NR
42.	Hydroxide	150	NR
43.	Hydroxide	150	NR
44.	Hydroxide	150	NR

14/10 mg/kg dry weight (circle one)

Concentration: Low / Medium
Matrix: Matrix Soil Sludge Medium
Elements Identified and Measured

LAB SAMPLE ID NO. W-3-S-14 EPHX 6-25 CC REPORT NO. 00132-87

SOW NO.

LAB NAME NYTEST ENVIRONMENTAL CASE NO.

ORGANIC ANALYSIS DATA SHEET

6-25-87

Sample No.
W-3-S-14 EPHX

W-3-S-16 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-16 EPTox 6-25 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	20	15. Mercury	•134
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:

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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 G-25 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	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
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: _____