

2021 Hazardous Waste Scanning Project

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Note 1: Each category is separated by a period "."

Note 2: Each word within category is separated by an underscore "_"

Specific File Naming Convention Label:

Report.HW.932020.1992-10-01.Data_Collection_IRM.pdf



Occidental Chemical Corporation

**FINAL REPORT
DATA COLLECTION AND
INTERIM REMEDIAL PROGRAM**

**10500 CAYUGA DRIVE
NIAGARA FALLS, NEW YORK**



Occidental Chemical Corporation

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DATA COLLECTION AND
INTERIM REMEDIAL PROGRAM**

**10500 CAYUGA DRIVE
NIAGARA FALLS, NEW YORK**

OCTOBER 1992

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1.0 INTRODUCTION

An interim remedial program has been completed by Occidental Chemical Corporation (OxyChem) on the property at 10500 Cayuga Drive and two adjacent residential properties (1331 and 1335 104th Street) in Niagara Falls, New York.

The project was conducted in accordance with the Order on Consent (AOC) (No. B9-0263-89-03) between the New York State Department of Environmental Conservation (NYSDEC) and OxyChem.

The project consisted of iterative rounds of soil sampling to define the remediation areas and three phases of excavation activities to remove the soils which exhibited chemical presence.

This document presents a comprehensive, certified report of the sampling and excavation activities conducted.

2.0 BACKGROUND

In the fall of 1988, while installing a sewer line, construction workers observed evidence of chemical presence in the soils under the parking lot at 10500 Cayuga Drive. The location of the project site within the City of Niagara Falls is shown on Figure 2.1.

Between March 1989 and July 1990, six rounds of sample collection (two by the NYSDEC and four by OxyChem) and two phases of soil excavation (Phases I and II) were conducted at the parking area. The purpose of these activities was to define the extent of soils exhibiting chemical presence and to remove these materials from the parking area.

Since chemicals were detected in soil samples collected just off the west edge of the parking area, the project was expanded into the rear yards of the properties located at 1331 and 1335 104th Street.

Between July 1990 and January 1991 a third phase of sampling and excavation was conducted (Phase III) on these residential properties to further define the extent of soils exhibiting chemical presence and to remove that soil material from the residential properties.

Figure 2.2 presents a plan view of the project Site. Table 2.1 presents a chronology of site activities.

3.0 NYSDEC INVESTIGATION

Following the report of the observation of possible chemical presence in site soils, the NYSDEC conducted investigations in March and April 1989 to attempt to define the nature and extent of chemical presence at the Site. The locations of all NYSDEC sample points (1 through 9 and A through L) are shown on Plan 1.

In March 1989 soil and water samples were collected by NYSDEC and analyzed for the parameters listed on Table 3.1. Documentation of the sampling procedures has not been provided to OxyChem and therefore is not included in this report.

In April 1989 NYSDEC conducted a second round of soil and water sampling. A memo dated April 24, 1989 from R.W. Schick (NYSDEC) to A.S. Nagi (NYSDEC) describes the sampling program. A copy of this memo is contained in Appendix A.

The results of the NYSDEC investigations confirmed the presence of chlorinated organic compounds in soils on the property at 10500 Cayuga Drive. The analytical data from these two sampling rounds was forwarded to OxyChem and is contained in Appendix A.

4.0 INTERIM REMEDIAL PROGRAM

Pursuant to the conditions of the AOC the documents listed on Table 4.1 were submitted by OxyChem and approved by NYSDEC. All sampling and remedial activities performed by OxyChem were executed in accordance with these documents.

Interim progress reports have been submitted by OxyChem to NYSDEC. These reports included descriptions of activities performed, presentations of results, proposed additional activities, and detailed Quality Assurance/Quality Control (QA/QC) reviews when analytical data was presented. It is to be noted that all samples were analyzed for the parameters listed on Table 4.2, as required by the approved Quality Assurance Project Plan (QAPP). This list includes the 2,4- and 2,5-isomers of dichlorophenol. Some of the interim progress reports incorrectly reported 2,3-dichlorophenol rather than 2,5-dichlorophenol. These tables have been corrected and the proper parameters are presented in this report.

4.1 PHASE I ACTIVITIES

In accordance with the document entitled "Work Plan, Interim Remedial Program, 10500 Cayuga Drive" (October 1989) OxyChem completed the excavation and restoration activities briefly described below. A detailed description of these activities has been submitted previously in the document entitled "Comprehensive Summary Report, Data Collection Program and Interim Remedial Activities, 10500 Cayuga Drive" (March 1991).

4.1.1 Excavation

The March and April 1989 analytical data was used to define an area from which soil material was removed in early November 1989. The area of the Phase I excavation is shown on Plan 2.

The Phase I excavation was performed by SLC Project oversight was provided by Conestoga-Rovers & Associates (CRA) on behalf of OxyChem. NYSDEC representatives were present at all times during the excavation and sampling program.

Removal of the soils was accomplished using a track-mounted backhoe. The excavated material was placed directly into plastic lined dump trailers and transported to the Chemical Waste Management (CWM) Hazardous Waste Landfill, Model City, New York, for disposal as non-hazardous material. The excavation extended from the existing ground surface to a depth of six inches to 12 inches into the native clay/till layer. Approximately 710 cubic yards of material were removed.

After completing the excavation of a given area, the sidewalls were visually examined and monitored with an HNU photoionization detector for signs of chemical presence. Additional soils were removed beyond the excavation limits as deemed necessary based on this inspection.

All areas excavated during Phase I were backfilled (maximum 12 inch lift) using #2 run of crusher stone and compacted using a vibratory roller. Prior to backfilling, the excavation was lined with polyethylene to provide a visible delineation of the area of remediation.

4.1.2 Confirmatory Sampling

Prior to restoration of the excavated area, confirmation samples were taken from 12 locations on the excavation walls and from four locations on the excavation floor. The locations of the sample points (NCC-1 through NCC-12 and NCC-1F, NCC-3F, NCC-7F and NCC-FF) are shown on Plan 1. These samples and all subsequent samples were analyzed for the parameters shown on Table 4.2.

Analytical data from this round of confirmation samples is contained in Appendix A. A QA/QC review was performed by OxyChem and all data was determined to be acceptable for its intended purpose. The QA/QC review has been submitted previously in the Comprehensive Summary Report.

The analytical data revealed chemicals remaining in the excavation sidewalls, indicating the area of elevated chemistry at the Site extended beyond the excavated area. The excavation was backfilled before the confirmatory analytical data was received.

4.2 DATA COLLECTION PROGRAM

Following receipt and review of the analytical data from the Phase I excavation confirmation sampling, an additional data collection program was proposed by OxyChem and approved by the NYSDEC to further define the extent of contamination at the Site.

This additional data collection program was conducted in a series of events. The extent of each sampling event was based on the analytical results of the previous event. The NYSDEC approved each round of sampling prior to its being conducted and had a representative present during all activities. A sample collection summary for the Data Collection Program is presented on Table 4.3. The locations of all sample points are shown on Plan 1 and stratigraphic logs of each borehole are contained in Appendix B.

4.2.1 Fourth Round Sample Collection

On March 5-6 and March 14, 1990, OxyChem conducted a round of sample collection at 10500 Cayuga Drive utilizing a rotary drilling rig and split spoon samplers to obtain 30 soil samples from 27 boreholes (NCC-14 through NCC-32 and NCC-35 through NCC-42).

The NYSDEC collected split samples from several of the boreholes completed on March 5 and 6. These split samples were collected

directly from the sampling device. On March 14, the NYSDEC obtained split samples after homogenization at the laboratory.

Analytical results of the samples collected and analyzed in this round are contained in Appendix A. A QA/QC review was performed by OxyChem and all data were determined to be acceptable for their intended use. The QA/QC review has been submitted previously in the Comprehensive Summary Report.

The presence of chemicals was detected in 20 of the boreholes installed during this round of sampling.

4.2.2 Fifth Round Sample Collection

Based on the results of the fourth round sample collection program, 12 additional boreholes (NCC-44 through NCC-55) were completed on June 1, 1990. The boreholes were completed using the same protocols as for the previous round.

Chemistry was detected in four of the samples collected during this sampling round. Results of the chemical analyses are contained in Appendix A. A QA/QC review was performed by OxyChem and all data were found to be acceptable for their intended use. The QA/QC review was submitted previously in the Comprehensive Summary Report.

4.2.3 Sixth Round Sample Collection

Two additional boreholes (NCC-58 and NCC-59) were installed on the east side of the parking area in July 1990. Samples were collected from the boreholes in accordance with the approved protocols.

During the fifth round sampling at 10500 Cayuga Drive, chemical presence was detected in boreholes NCC-53 and NCC-55 located just off the west side of the 10500 Cayuga Drive parking area. Therefore on July 20, 1990, 16 soil samples were collected from eight boreholes (1335-1 through 1335-8) at 1355 104th Street. The locations of these boreholes are shown on Plan 1. From each borehole, analytical samples were collected from ground surface to 6 inches below ground surface (BGS) and from 6 inches BGS to the top of the native clay/till layer.

The analytical data of this sixth sample round are contained in Appendix A. A QA/QC review was performed by OxyChem and all data were found to be acceptable for their intended use. The QA/QC review was submitted previously in the Comprehensive Summary Report and "Soils Investigation Summary Report, 1335 104th Street" (April 1991).

The analytical data revealed no chemical presence in boreholes NCC-58 or NCC-59 on the 10500 Cayuga Drive property. Low levels of chemical presence was detected, however, in all boreholes installed at 1335 104th Street.

4.2.4 Seventh Round Sample Collection

1335 104th Street

On January 3 and 4, 1991, OxyChem returned to 1335 104th Street to collect additional soil samples. Five boreholes (1335-10 through 1335-14) were completed and 10 soil samples submitted for chemical analysis using the same procedures described previously.

Additionally, a water sample was collected from the basement sump of the residence and submitted for chemical analysis. The sump sampling details are presented in Table 4.4.

Chemistry was not detected in any of the soil samples or in the sump water. The analytical data from the 1335 104th Street sample analyses are contained in Appendix A. A QA/QC review as performed by OxyChem and the data were found to be acceptable for their intended use. The QA/QC review was submitted previously in the Soils Investigation Summary Report, 1335 104th Street.

Based on the data collected in July 1990 and January 1991, Dr. Paul O. Nees of Biosurvey, Inc. conducted an evaluation of the risk to human health which would result from ingestion of fruits and vegetables grown in the subsurface soils on this property. This evaluation concluded that the presence of chemicals in the soils did not represent a health risk with respect to ingestion of fruits and vegetables grown in these soils. The complete health risk assessment was presented previously in the Soils Investigation Summary Report, 1335 104th Street.

1331 104th Street

On January 8 to 10, 1991, OxyChem collected soil samples from the rear yard of the residence at 1331 104th Street. Twelve boreholes (1331-1 through 1331-12) were completed with 24 soil samples collected and submitted for chemical analysis.

Additionally, a water sample was collected from the basement sump of the residence for chemical analysis. The sump sampling details are provided in Table 4.5.

Chemistry was not detected in the sump water or surface soil samples. Low levels of chemistry were detected in subsurface samples collected from four of the boreholes.

The analytical results of the 1331 104th Street sampling are contained in Appendix A. A QA/QC review was performed by OxyChem and all data were found to be acceptable for their intended use. The QA/QC review was submitted previously in the report entitled "Soils Investigation Summary Report, 1331 104th Street" (April 1991).

Based on the analytical data, Dr. Paul O. Nees of Biosurvey, Inc. conducted an evaluation of the risk to human health which would result from the ingestion of fruits and vegetables grown in the subsurface soils on this property. This evaluation concluded that the presence of chemicals in these soils did not represent a health risk with respect to ingestion of fruits and vegetables grown in these soils. The complete health risk assessment was

presented previously in the Soils Investigation Summary Report, 1331 104th Street.

4.3 PHASE II ACTIVITIES

Following the review of data obtained from the sixth round of sampling (July 1990), it was determined that the limits of soils exhibiting elevated chemical presence on the 10500 Cayuga Drive property had been adequately defined and a work plan entitled "Phase II Work Plan - Interim Remedial Program, 10500 Cayuga Drive" (October 1990) was developed and approved for removal of these soils.

From November 12 to 16, 1990, the soils underlying the parking area adjacent to the Phase I excavation were removed. The excavation areas are shown on Plan 2. The work was performed by SLC under the direction of the OxyChem on-Site Representative (Conestoga-Rovers & Associates). NYSDEC representatives were present at all times work was being conducted.

Removal of the soils was accomplished using a track-mounted backhoe with a three yard bucket. The excavated material was placed directly into plastic lined dump trailers and transported to the Chemical Waste Management (CWM) Hazardous Waste Landfill, Model City, New York, for disposal as non-hazardous material. The excavation extended from the existing ground surface to a depth of six inches to 12 inches into

native clay/till layer. Approximately 1,350 cubic yards of material were removed.

After completing the excavation of a given area, the sidewalls were visually examined for signs of chemical presence, and additional soils were removed beyond the excavation limits as deemed necessary based on the visual examination. No confirmation sampling was performed as consented to by the NYSDEC.

All areas excavated during Phase II were backfilled (maximum 12 inch lift) using #1 and #2 run of crusher stone and compacted using a vibratory roller. The surface of the parking area overlying both the Phase I and the Phase II excavation areas was paved using blacktop asphalt in November 1990.

4.4 PHASE III ACTIVITIES

Despite the fact that the health risk assessment concluded that no additional risk was posed by the presence of chemicals in the soils on 1331 or 1335 104th Street, a decision was made to remove all soils exhibiting evidence of chemical presence from these properties.

In accordance with the document entitled "Phase III, Final Work Plan, Interim Remedial Program, 10500 Cayuga Drive" (February 1992) the following data collection, excavation, restoration, and soils disposal activities were completed.

4.4.1 Waste Characterization

On April 13, 1992, as part of the Phase III Interim Remedial Program, soil samples were collected from the proposed areas of excavation within the rear yards of 1331 and 1335 104th Street.

The purpose of this sampling program was two-fold:

- i) characterization of the soils to be excavated during the remediation to determine an appropriate disposal facility; and
- ii) at the land owners request: investigation of the northwest area of the rear yard of 1335 104th Street to determine whether OxyChem chemicals were present in the soil.

Samples were collected at the locations shown on Plan 1. At locations 1331-TCLP and 1335-TCLP samples were collected from depths of 0 to 4.0 feet BGS and submitted for analysis by the Toxicity Characteristic Leaching Procedures (TCLP). Two adjacent boreholes were required at location 1331-TCLP to obtain sufficient sample volume. At location 1335-TCLP, two boreholes were installed approximately 12 feet apart (see Plan 1). No waste material was observed at either location. The soils collected from each borehole were composited for the analytical sample.

The owner of the property at 1335 104th Street requested that samples to be collected from an area of his yard where vegetative growth was observed to be sparse. Two samples (1335-20 and 1335-21) were collected from this area and analyzed for the parameters listed on Table 4.2.

The analytical data are presented in Appendix A. A QA/QC review was performed by OxyChem and all data were found to be acceptable for their intended use. A complete QA/QC review was submitted previously in the report entitled "Waste Characterization Sampling Report, Phase III Interim Remedial Program, 10500 Cayuga Drive" (June 1992).

The concentrations of all TCLP compounds were found to be below the regulatory level indicating a hazardous waste. The material excavated, therefore, did not exhibit the characteristic of toxicity. In addition, since the soils exhibited only low level organic chemistry presence they were not expected to exhibit any of the other characteristics of a hazardous waste (ignitibility, corrosivity or reactivity). Therefore, it was deemed appropriate to dispose of the soils at OxyChem's 102nd Street Landfill. Approval was obtained from NYSDEC for this disposal plan.

The samples analyzed for the Table 4.2 parameters showed no detected levels of any of the analytes. The deficient vegetative growth in this area of the yard at 1335 104th Street is therefore not due to any OxyChem-related chemistry.

4.4.2 Excavation

The excavation of soils from the yards at 1331 and 1335 104th Street commenced on June 8, 1992 and was completed on June 9, 1992. The work was performed by Sicoli and Massaro under the direction of the on-Site OxyChem Representative. All work was performed in accordance with the project documents.

With approval of the property owner, access to the excavation area was made from the property at 10500 Cayuga Drive. A track-mounted backhoe was used to excavate the soils and load them directly into tandem dump trucks. Excavation proceeded from the rear of the house at 1331 104th Street to the area east of the garage at 1335 104th Street.

As the excavation progressed, the face and bottom of each excavated area were examined for evidence of chemical presence (i.e. discoloration or staining, odor, etc.) . In addition, a photoionization detector (HNU) was used to screen the excavated area to confirm that soils containing chemical presence had been removed. As each area was determined to be clean by the on-Site OxyChem Representative, concurrence from the on-Site NYSDEC Representative was obtained. The final excavation limits are shown on Plan 2. At the request of the property owner, the southeast corner of the proposed remedial area of the 1331 104th Street property was not excavated in order to preserve a large tree. OxyChem informed NYSDEC in advance of their intent to exclude this area from the excavation area. Excavation was performed to the drip edge of the tree.

After being loaded and prior to leaving the loading area, each truck was inspected and any spilled material removed. Each load was signed for by the contractor superintendent prior to leaving the Site for disposal at the 102nd Street Landfill. Care was taken to ensure that excavated materials were not tracked onto the parking lot at 10500 Cayuga Drive.

A total of 635 cubic yards of material were excavated and removed from the Site in 49 loads. All excavated material was transported to the OxyChem 102nd Street Landfill for disposal. Each load, after dumping, was signed for by the security guard at the 102nd Street Landfill. After the dumping of each load, the on-Site landfill crew spread the material in the existing soil disposal cell.

Verbal approval was given by Mr. James A. Tuk, NYSDEC, to backfill the excavation, OxyChem's on-Site Representative directed the Contractor to proceed with backfilling the excavation with fill from sources previously approved by the OxyChem Site Representative. The backfilling sequence consisted of the following:

- i) general fill to within 18 inches of finished grade;
- ii) sandy loam to within 6 to 9 inches of finished grade;
- iii) topsoil; and
- iv) sod to final grade.

Fill was placed in 12 inch lifts and compacted to a grade suitable for the placement of sod.

4.4.3 Property Restoration

After the backfilling of the excavation was complete to rough grade, the landscape contractor (Menne Nursery) performed the final grading and placed sod. The garden and plant landscaped areas were also restored including all plants, trees, shrubs, and cover material which had been removed.

Upon completion of the landscape work, a 5 foot chain link fence with access gates was installed along the property lines. This work was performed by Argy Fence.

As a result of the movement of trucks and equipment the west edge of the parking lot asphalt at 10500 Cayuga Drive became damaged. Upon completion of the project, the damaged edge of the asphalt parking lot was mechanically cut and the stone base was restored and compacted. A 2 inch layer of binder was placed and rolled and a 1 inch layer of top coat was placed and rolled to match existing asphalt. The area between the asphalt and the chain link fence was lined with clean graded crushed stone.

4.4.4 1327 and 1341 104th Street Sample Collection

The owners of the properties adjacent to 1331 and 1335 104th Street contacted OxyChem and requested that samples be collected from their yards to confirm that no chemicals were present.

On June 10, 1992, soil samples were collected from the rear yards at 1327 and 1341 104th Street. Two soil samples were collected from each yard as shown on Figure 4.1. The samples from 1327 104th Street were collected from two locations (1327-1 and 1327-2). At 1341 104th Street, two boreholes (1341-1 and 1341-2) were completed at opposite ends of the yard.

A sample collection summary is presented in Table 4.3.

The analytical data of the 1327 and 1341 104th Street sampling are contained in Appendix A. QA/QC information for the 1327 and 1341 104th Street samples is contained in Appendix B.

5.0 FINAL CONDITIONS

In accordance with the Interim Remedial Work Plans (Phase I, Phase II and Phase III) soils exhibiting the presence of organic chemicals above the survey levels established have been removed from the properties at 10500 Cayuga Drive, 1331 104th Street and 1335 104th Street.

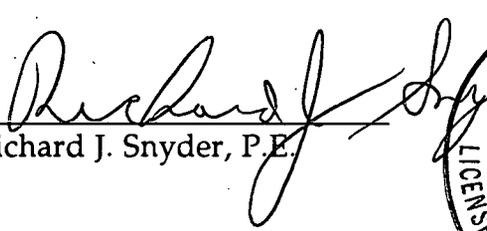
The areas of excavation have been restored to original or improved conditions to enable continued, unrestricted use of these areas.

As indicated by the data obtained from the sample of sump water collected at 1335 104th Street in January 1991 chemicals from the site soils were not present in the area groundwater. Since the potential source of chemicals to groundwater has now been removed there is no need for further groundwater monitoring at this site.

CERTIFICATION

I, Richard J. Snyder, a Professional Engineer in the State of New York, certify, based on site visits during progress of the works and interviews with persons directly responsible for supervising the performance of the work, that the activities performed for the implementation of the Interim Remedial Program, except as otherwise noted in this report, were performed in accordance with the documents entitled:

- i) "Work Plan - Interim Remedial Program"
10500 Cayuga Drive, Niagara Falls, New York
October 1989;
- ii) "Phase II Work Plan - Interim Remedial Program"
10500 Cayuga Drive, Niagara Falls, New York
October 1990; and
- iii) "Phase III Final Work Plan - Interim Remedial Program"
10500 Cayuga Drive, Niagara Falls, New York
February 1992.


Richard J. Snyder, P.E.



10-12-92

Date

LIST OF INFORMATION SOURCES

Correspondence

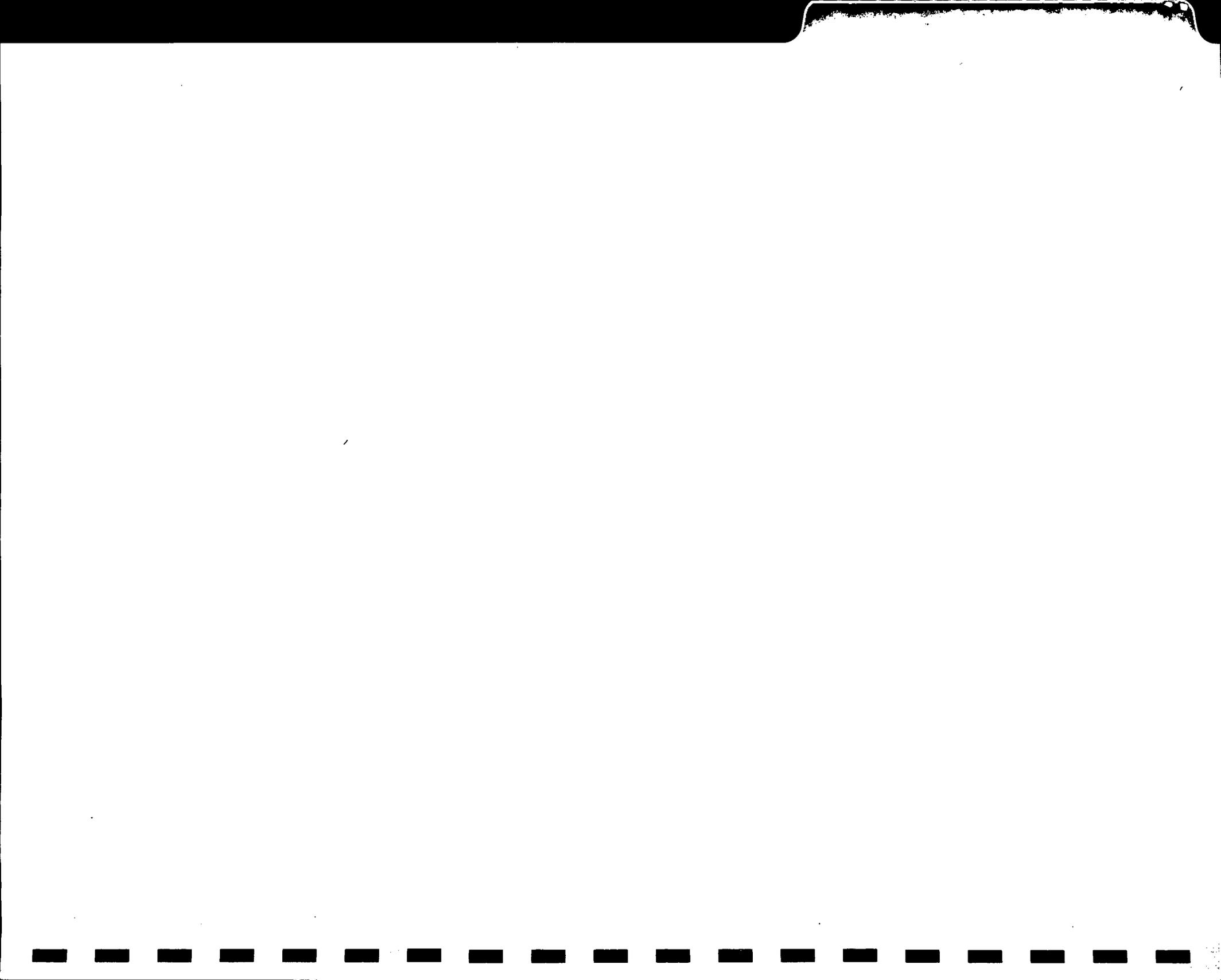
- NYSDEC memorandum to R. Schick from A. Nagi dated April 24, 1989.
- NYSDEC letter to J. Cull from R. Schick dated December 14, 1989.

Project Documents

- Work Plan, Interim Remedial Program
10500 Cayuga Drive
Niagara Falls, New York (October 1989)
- Quality Assurance/Quality Control Plan
Interim Remedial Program
10500 Cayuga Drive
Niagara Falls, New York (October 1989)
- Health and Safety Plan for
Interim Remedial Program
10500 Cayuga Drive
Niagara Falls, New York (October 1989)
- Phase II Work Plan
Interim Remedial Program
10500 Cayuga Drive
Niagara Falls, New York (October 1990)
- Phase III
Final Work Plan
Interim Remedial Program
10500 Cayuga Drive
Niagara Falls, New York (February 1992)

Interim Progress Reports

- Comprehensive Summary Report, Data Collection Program and Interim Remedial Activities, 10500 Cayuga Drive, Niagara Falls, New York (March 1991).
- Soils Investigation Summary Report - 1331 104th Street, Niagara Falls, New York (April 1991).
- Soils Investigation Summary Report - 1335 104th Street, Niagara Falls, New York (April 1991).
- Waste Characterization Sampling Report - Phase III Interim Remedial Program, 10500 Cayuga Drive, Niagara Falls, New York (June 1992).
- Soil Sampling Report, 1327/1341 104th Street, 10500 Cayuga Drive, Niagara Falls, New York (August 1992).



FIGURES

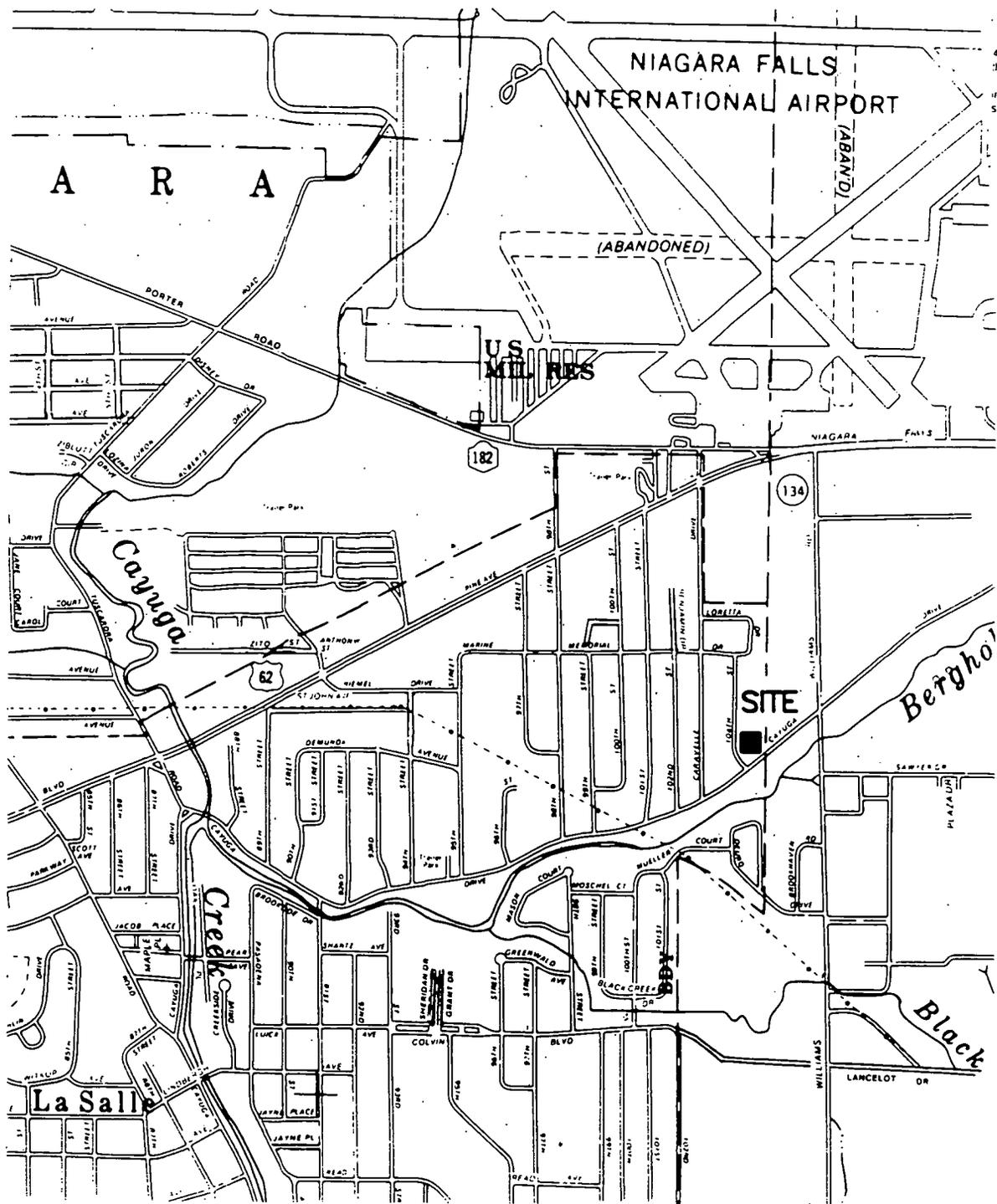
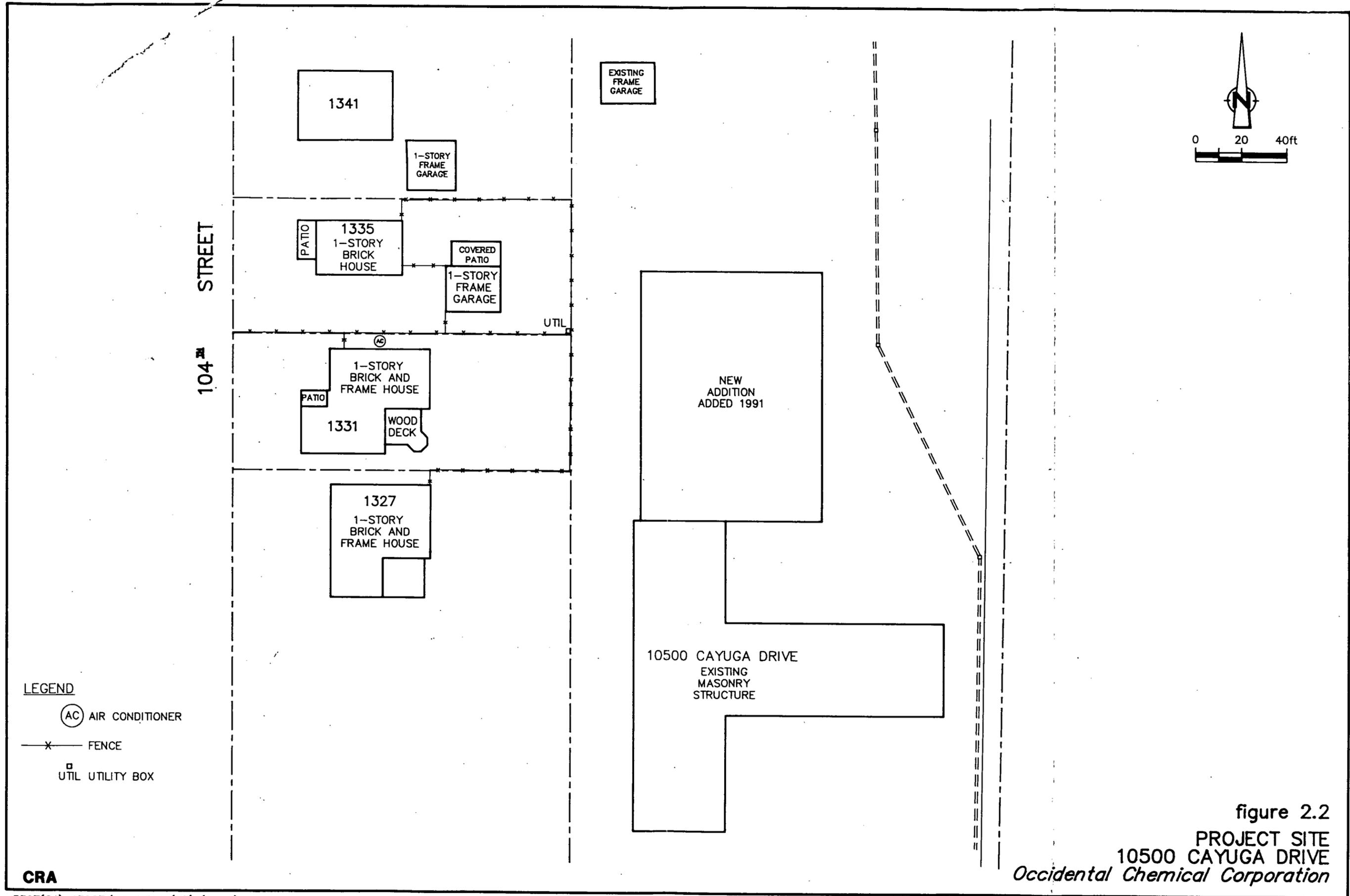


figure 2.1
 SITE LOCATION
 10500 CAYUGA DRIVE
 Occidental Chemical Corporation

CRA

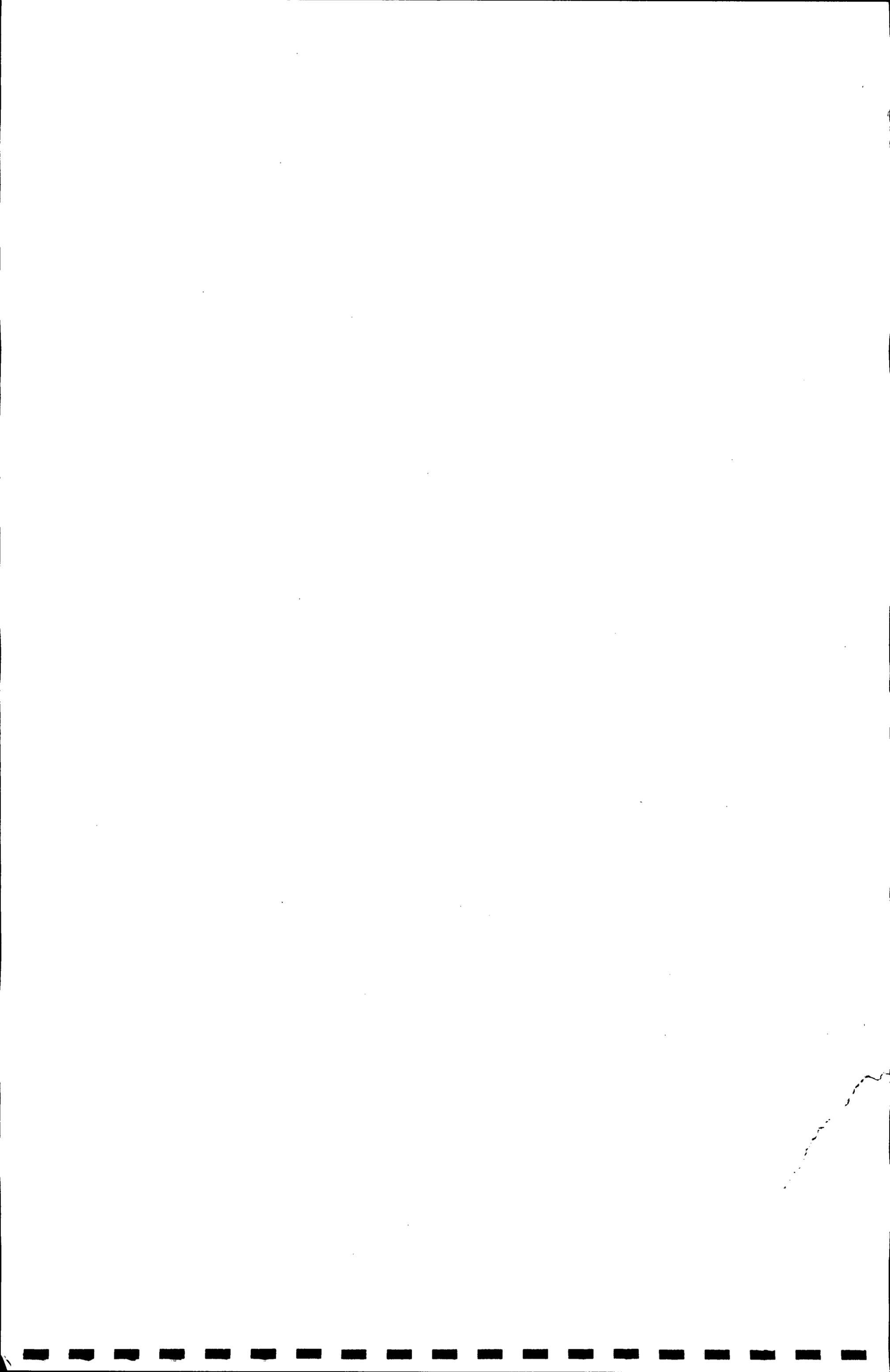


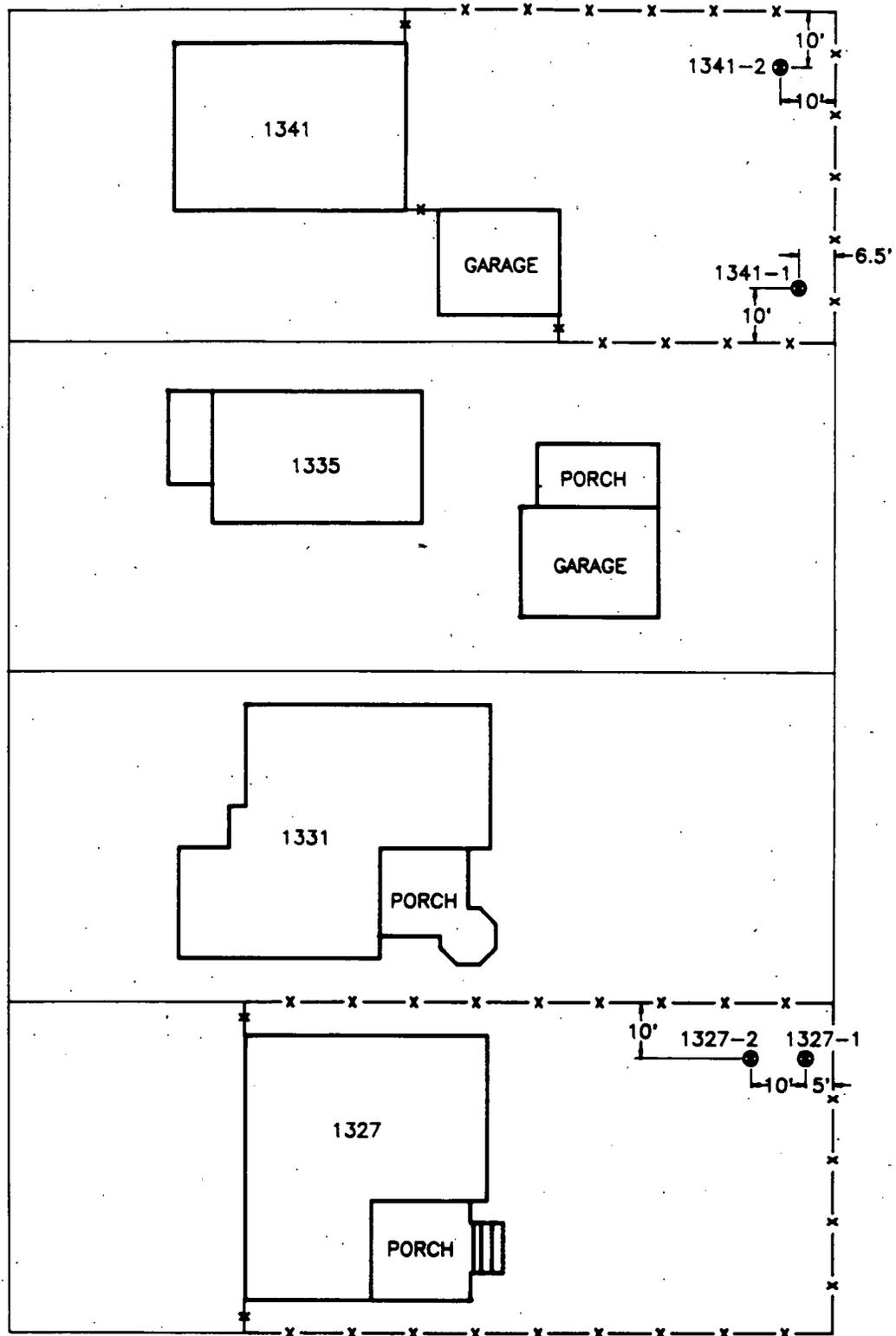
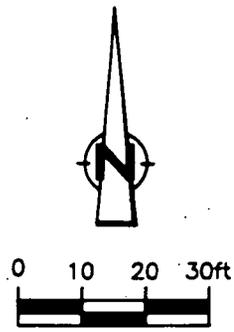
LEGEND

- (AC) AIR CONDITIONER
- X— FENCE
- UTIL UTILITY BOX

CRA

figure 2.2
 PROJECT SITE
 10500 CAYUGA DRIVE
 Occidental Chemical Corporation





LEGEND

- 1327-2 JUNE 10, 1992 SOIL SAMPLE LOCATION
- x— FENCE
- PROPERTY LINE

figure 4.1
1327 AND 1341 — 104th STREET
SAMPLE LOCATIONS
10500 CAYUGA DRIVE
Occidental Chemical Corporation

CRA

TABLES

TABLE 2.1
CHRONOLOGY OF EVENTS
10500 CAYUGA DRIVE

1.	Reported Observation of Chemical Presence	1988
2.	Soil Sampling, 10500 Cayuga Drive (conducted by NYSDEC)	March 1989 April 1989
3.	Order on Consent	August 1989
4.	Phase I Excavation, 10500 Cayuga Drive	November 1989
5.	Phase I Confirmatory Sampling	November 1989
6.	Data Collection Program 10500 Cayuga Drive	March 1990 June 1990 July 1990 January 1991
7.	Phase II Excavation, 10500 Cayuga Drive	November 1990
8.	Waste Characterization Sampling 1331 and 1335 104th Street	April 1992
9.	Phase III Excavation 1331 and 1335 104th Street	June 1992
10.	Soil Sampling 1327 and 1341 104th Street	June 1992

TABLE 3.1
 NYSDEC ANALYTICAL PARAMETER LIST
 10500 CAYUGA DRIVE
 MARCH/APRIL 1989

	<i>March 1989</i>	<i>April 1989</i>
VOLATILE ORGANIC COMPOUNDS		
Benzene	X	X
Toluene	X	X
Chlorobenzene	X	X
Trifluoromethyl benzene	X	X
Cl-trifluoromethyl benzene	X	X
Xylene	X	X
Chlorotoluene	X	X
a,a,a-Trifluorotoluene		X
Ethylbenzene		X
Dichlorobenzene		X
SEMI-VOLATILE ORGANIC COMPOUNDS		
1,4-Dichlorobenzene	X	X
1,3-Dichlorobenzene	X	X
1,2-Dichlorobenzene	X	X
2,3-Dichlorotoluene	X	X
Trimethyl benzene	X	X
Trifluoromethyl benzene amine	X	X
Tetrachlorobutadiene	X	X
1,3-Dichlorotoluene	X	X
Dichlorotoluene	X	X
Trichlorobenzene (isomer)	X	X
Trichlorobenzene (isomer)	X	X
Trichlorobenzene (isomer)	X	X
Trichlorobenzene (total)		X
Hexachlorobutadiene	X	X
Trichlorotoluene (isomer)	X	X
Trichlorotoluene (isomer)	X	X
Trichlorotoluene (isomer)	X	X
Trichlorotoluene (total)		X
Tetrachlorobenzene (isomer)	X	X
Tetrachlorobenzene (isomer)	X	X
Tetrachlorobenzene (total)		X
Pentachlorobenzene	X	X
Hexachlorobenzene	X	X
Trichlorobiphenyl	X	X
Tetrachlorobiphenyl	X	X

TABLE 3.1
NYSDEC ANALYTICAL PARAMETER LIST
10500 CAYUGA DRIVE
MARCH/APRIL 1989

	<i>March 1989</i>	<i>April 1989</i>
SEMI-VOLATILE ORGANIC COMPOUNDS		
Octachlorostyrene		X
Pyrene	X	X
Fluoranthene	X	X
Phenanthrene		X
Anthracene		X
Acenaphthene		X
Fluorene		X
Benzene,2-chloro-1,3,5(1-methylethyl)		X
Octachloronaphthalene		X

TABLE 4.1
APPROVED PROJECT DOCUMENTS
10500 CAYUGA DRIVE

	<i>Title</i>	<i>Date</i>
1.	Work Plan, Interim Remedial Program 10500 Cayuga Drive	October 1989
2.	Quality Assurance/Quality Control Plan Interim Remedial Program 10500 Cayuga Drive	October 1989
3.	Health and Safety Plan for Interim Remedial Program 10500 Cayuga Drive	October 1989
4.	Work Plan Data Collection Program 10500 Cayuga Drive	January 1990
5.	Phase II Work Plan Interim Remedial Program 10500 Cayuga Drive	October 1990
6.	Phase III Final Work Plan Interim Remedial Program 10500 Cayuga Drive	February 1992

TABLE 4.2
 OXYCHEM ANALYTICAL PARAMETER LIST
 10500 CAYUGA DRIVE

<i>Organics</i>	<i>Survey Level (1)</i> <i>(ppb)</i>
VOLATILES	
Benzene	100
Toluene	100
Trichloroethylene	100
Tetrachloroethylene	100
Monochlorobenzene	100
2-Monochlorotoluene	100
4-Monochlorotoluene	100
2-Chlorobenzotrifluoride	100
4-Chlorobenzotrifluoride	100
1,2-Dichlorobenzene	100
1,4-Dichlorobenzene	100
2,4-Dichlorotoluene	100
2,5-Dichlorotoluene	100
2,6-Dichlorotoluene	100
3,4-Dichlorotoluene	100
2,4-Dichlorobenzotrifluoride	100
3,4-Dichlorobenzotrifluoride	100
SEMI-VOLATILES	
1,2,3-Trichlorobenzene	100
1,2,4-Trichlorobenzene	100
1,2,3,4-Tetrachlorobenzene	100
1,2,4,5-Tetrachlorobenzene	100
Pentachlorobenzene	100
Hexachlorobenzene	100
alpha-Hexachlorocyclohexane	100
beta-Hexachlorocyclohexane	100
gamma-Hexachlorocyclohexane	100
delta-Hexachlorocyclohexane	100
2,4-Dichlorophenol	100
2,5-Dichlorophenol	100
2,4,5-Trichlorophenol	100
2,4,6-Trichlorophenol	100
Hexachlorobutadiene	100
Hexachlorocyclopentadiene	100
Octachlorocyclopentene	100
Perchlorocyclopentadecane (Mirex)	100

Note:

- (1) Estimated levels for soil, actual levels are sample dependent and can vary significantly with matrix.

TABLE 4.3
 SAMPLE COLLECTION SUMMARY
 DATA COLLECTION PROGRAM
 10500 CAYUGA DRIVE

<i>Sample Number</i>	<i>Date Collected</i>	<i>Sample Interval (ft. BGS)</i>	<i>Comments</i>
NCC14	03/05/90	0.5 - 3.5	HNU Reading = 1.0 ppm
NCC15	03/05/90	0.2 - 3.2	HNU Reading = 1.5 ppm
NCC16	03/05/90	0.2 - 3.2	HNU Reading = 0.2 ppm (borehole wet)
NCC17	03/05/90	0.5 - 3.5	HNU Reading = 4.0 ppm
NCC18	03/05/90	0.1 - 3.1	HNU Reading = 0.0 ppm (borehole wet)
NCC19	03/05/90	0.5 - 3.5	HNU Reading = 7.0 ppm
NCC20	03/05/90	0.3 - 3.3	HNU Reading = 1.5 ppm
NCC21	03/05/90	0.5 - 3.5	HNU Reading = 0.5 ppm
NCC22	03/05/90	0.5 - 3.5	HNU Reading = 1.5 ppm
NCC23	03/06/90	0.5 - 3.5	HNU Reading = 0.5 ppm
NCC24	03/05/90	0.5 - 3.5	HNU Reading = 0.5 ppm
NCC25	03/06/90	0.5 - 3.5	HNU Reading = 2.0 ppm
NCC26	03/05/90	0.5 - 3.5	HNU Reading = 9.0 ppm
NCC27	03/06/90	0.5 - 4.0	HNU Reading = 2.0 ppm
NCC28	03/06/90	0.5 - 3.5	HNU Reading = 2.2 ppm
NCC29	03/06/90	0.5 - 3.5	HNU Reading = 1.0 ppm
NCC30	03/06/90	3.0 - 3.8	HNU Inoperative
NCC30a	03/06/90	3.8 - 4.5	---
NCC31	03/06/90	2.5 - 4.5	HNU Reading = 0.5 ppm
NCC31a	03/06/90	4.5 - 5.0	HNU Reading = 1.0 ppm
NCC32	03/06/90	3.0 - 3.5	HNU Inoperative
NCC32a	03/06/90	3.5 - 4.0	---
NCC33	03/05/90	0.5 - 3.5	Duplicate of NCC24
NC34	03/06/90	0.5 - 3.5	Duplicate of NCC23
NCC35	03/14/90	0.5 - 3.5	HNU Reading = 0.2 ppm
NCC36	03/14/90	0.5 - 3.5	HNU Reading = 0.6 ppm
NCC37	03/14/90	0.5 - 3.5	HNU Reading = 0.0 ppm
NCC38	03/14/90	0.5 - 3.5	HNU Reading = 0.2 ppm
NCC39	03/14/90	0.5 - 3.5	HNU Reading = 0.0 ppm
NCC40	03/14/90	0.5 - 3.5	HNU Reading = 0.0 ppm
NCC41	03/14/90	0.5 - 3.5	HNU Reading = 0.0 ppm (borehole wet)
NCC42	03/14/90	0.5 - 3.5	HNU Reading = 0.0 ppm
NCC43	03/14/90	0.5 - 3.5	Duplicate of NCC42
NCC44	06/01/90	0.2 - 3.5	HNU Reading = 0.8 ppm
NCC45	06/01/90	0.5 - 4.3	HNU Reading = 1.6 ppm
NCC46	06/01/90	0.3 - 3.8	HNU Reading = 1.6 ppm
NCC47	06/01/90	0.2 - 3.5	HNU Reading = 4.6 ppm
NCC48	06/01/90	0.2 - 4.8	HNU Reading = 7.6 ppm

TABLE 4.3
SAMPLE COLLECTION SUMMARY
DATA COLLECTION PROGRAM
10500 CAYUGA DRIVE

<i>Sample Number</i>	<i>Date Collected</i>	<i>Sample Interval (ft. BGS)</i>	<i>Comments</i>
NCC49	06/01/90	0.5 - 4.0	HNU Reading = 0.6 ppm
NCC50	06/01/90	0.5 - 4.0	HNU Reading = 0.2 ppm
NCC51	06/01/90	0.5 - 4.0	HNU Reading = 0.2 ppm
NCC52	06/01/90	0.5 - 3.5	HNU Reading = 0.5 ppm
NCC53	06/01/90	0.5 - 4.0	HNU Reading = 0.1 ppm
NCC54	06/01/90	0.5 - 4.5	HNU inoperative
NCC55	06/01/90	0.5 - 3.5	HNU inoperative
NCC56	06/01/90	0.5 - 4.0	Duplicate of NCC-51
NCC58	07/20/90	1.0 - 5.0	
NCC59	07/20/90	0.5 - 4.5	White rounded gravel encountered
NCC60	07/20/90	1.0 - 4.5	Duplicate of NCC59
1335-1	07/20/90	0.0 - 0.5	
1335-1	07/20/90	0.5 - 4.5	
1335-2	07/20/90	0.0 - 0.5	
1335-2	07/20/90	0.0 - 4.5	
1335-3	07/20/90	0.0 - 0.5	
1335-3	07/20/90	0.5 - 4.5	White rounded gravel encountered
1335-4	07/20/90	0.0 - 0.5	
1335-4	07/20/90	0.5 - 4.5	
1335-5	07/20/90	0.0 - 0.5	
1335-5	07/20/90	0.5 - 4.5	White rounded gravel encountered
1335-6	07/20/90	0.0 - 0.5	
1335-6	07/20/90	0.5 - 4.5	Slight chemical odor
1335-7	07/20/90	0.0 - 0.5	
1335-7	07/20/90	0.5 - 4.5	White rounded gravel encountered; chemical odor
1335-8	07/20/90	0.0 - 0.5	
1335-8	07/20/90	0.5 - 4.5	
1335-9	07/20/90	0.5 - 4.5	Duplicate of 1335-7, 0.5 - 4.5 feet
1335-10	01/03/91	0.0 - 0.5	
1335-10	01/03/91	0.5 - 3.5	
1335-11	01/03/91	0.0 - 0.5	NYSDEC Split
1335-11	01/03/91	0.5 - 4.5	
1335-12	01/03/91	0.0 - 0.5	
1335-12	01/03/91	0.5 - 4.5	NYSDEC Split
1335-13	01/03/91	0.0 - 0.5	
1335-13	01/03/91	0.5 - 4.0	
1335-14	01/03/91	0.0 - 0.5	
1335-14	01/03/91	0.5 - 4.0	

TABLE 4.3
 SAMPLE COLLECTION SUMMARY
 DATA COLLECTION PROGRAM
 10500 CAYUGA DRIVE

<i>Sample Number</i>	<i>Date Collected</i>	<i>Sample Interval (ft. BGS)</i>	<i>Comments</i>
1335-15	01/03/91	0.5 - 4.5	Duplicate of 1335-10 (0.5 - 3.5 feet)
1335-20	04/13/92	0.0 - 4.0	
1335-21	04/13/92	0.0 - 3.0	
1335-22	04/13/92	0.0 - 4.0	Duplicate of 1335-20 (0.0 - 4.0 feet)
Sump	01/03/91	-	Water Sample
1331-1	01/09/91	0.0 - 0.5	
1331-1	01/09/91	0.5 - 4.5	NYSDEC Split
1331-2	01/09/91	0.0 - 0.5	
1331-2	01/09/91	0.5 - 4.5	
1331-3	01/09/91	0.0 - 0.5	
1331-3	01/09/91	0.5 - 4.5	
1331-4	01/09/91	0.0 - 0.5	
1331-4	01/09/91	0.5 - 4.5	NYSDEC Split
1331-5	01/10/91	0.0 - 0.5	
1331-5	01/10/91	0.5 - 4.5	
1331-6	01/10/91	0.0 - 0.5	
1331-6	01/10/91	0.5 - 4.5	
1331-7	01/09/91	0.0 - 0.5	
1331-7	01/09/91	0.5 - 4.5	NYSDEC Split
1331-8	01/08/91	0.0 - 0.5	
1331-8	01/08/91	0.5 - 4.0	
1331-9	01/08/91	0.0 - 0.5	
1331-9	01/08/91	0.5 - 5.0	Fine white round gravel - slight chemical odor
1331-10	01/10/91	0.0 - 0.5	
1331-10	01/10/91	0.5 - 4.5	Fine white round gravel - slight chemical odor
1331-11	01/08/91	0.0 - 0.5	
1331-11	01/08/91	0.5 - 5.5	
1331-12	01/08/91	0.0 - 0.5	
1331-12	01/08/91	0.5 - 5.0	
1331-13	01/08/91	0.5 - 4.5	Duplicate of 1331-9 (0.5 - 5.0 feet)
1331-14	01/09/91	0.5 - 4.5	Duplicate of 1331-3 (0.5 - 4.5 feet)
Sump	01/08/91	-	Water sample

TABLE 4.3
SAMPLE COLLECTION SUMMARY
DATA COLLECTION PROGRAM
10500 CAYUGA DRIVE

<i>Sample Number</i>	<i>Date Collected</i>	<i>Sample Interval (ft. BGS)</i>	<i>Comments</i>
1327-1	06/10/92	0.0 - 4.5	
1327-2	06/10/92	2.0 - 4.0	
1341-1	06/10/92	0.0 - 1.9	
1341-2	06/10/92	0.0 - 4.5	Extra volume for matrix spike

*HNU reading is maximum above background.

Note:

- (1) Above samples were submitted for volatile and semi-volatile analysis (per Table 1 analytes). See Appendix A for the analytical results.

TABLE 4.4
SUMP WATER SAMPLING DETAILS
1335 104TH STREET

Sampled:	January 3, 1991 at 1730 hours.
pH:	7.13
Conductance:	880 $\mu\text{mho/cm}$
Water Quality:	Clear, no odor, slight surficial second phase (possibly dust), no sheen. No sediments in sump. Possible mineral scale on sump wall coating present.
Samples Taken:	3x40 ml VOCs + 1x1L amber semi-volatiles

TABLE 4.5
SUMP WATER SAMPLING DETAILS
1331 104TH STREET

Sampled:	January 8, 1991 at 1420 hours.
pH:	7.09
Conductance:	770 $\mu\text{mho/cm}$
Water Quality:	Clear, no odor, no sheen. No sediments in sump.
Samples Taken:	3x40 ml VOCs + 1x1L amber semi-volatiles

APPENDIX A

ANALYTICAL RESULTS

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TABLE A.5	WASTE CHARACTERIZATION DATA

TABLE A.1
ANALYTICAL DATA - NYSDEC, 1989
10500 CAYUGA DRIVE

Sample Location: Sample Date: Units:	1 03/08/89 mg/Kg	2 03/08/89 mg/Kg	3 03/08/89 mg/Kg	4 03/08/89 mg/Kg	5 03/08/89 mg/Kg	6 03/08/89 mg/Kg	7 03/08/89 mg/Kg	8 03/08/89 mg/Kg	9 03/08/89 mg/Kg	N. Basin 03/08/89 ug/L	S. Basin 03/08/89 ug/L
Volatile Organic Compounds											
Benzene	ND0.002	0.02	0.01	ND0.002	ND0.002	0.01	ND0.002	0.01	ND0.002	ND1.0	ND1.0
Toluene	2.18	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002	0.09	ND0.002	ND0.002	ND1.0	ND1.0
Chlorobenzene	0.19	0.15	0.08	ND0.002	ND0.002	ND0.002	0.16	ND0.002	ND0.002	ND1.0	ND1.0
Trichloromethyl benzene	0.07	ND0.002	0.05	ND0.002	ND0.002	ND0.002	0.09	ND0.002	ND0.002	ND1.0	ND1.0
Cl-Trifluoromethyl benzene	0.06	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002	0.04	ND0.002	ND0.002	ND1.0	ND1.0
Xylene	0.06	ND0.002	ND1.0	ND1.0							
Chlorotoluene	0.06	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002	0.05	ND0.002	ND0.002	ND1.0	ND1.0
a,a,a-Trifluorotoluene	NA	NA									
Ethylbenzene	NA	NA									
Dichlorobenzene	NA	NA									
Semi-Volatile Organic Compounds											
1,4-Dichlorobenzene	8.38	ND0.1	12.22	ND0.1	ND0.1	ND0.1	4.41	ND0.1	ND0.1	ND5.0	ND5.0
1,3-Dichlorobenzene	10.5	ND0.1	ND0.1	ND0.1	ND0.1	ND0.1	10.78	ND0.1	ND0.1	ND5.0	ND5.0
1,2-Dichlorobenzene	2.99	ND0.1	ND5.0	ND5.0							
2,3-Dichlorotoluene	ND0.1	ND0.1	6.25	ND0.1	ND0.1	ND0.1	ND0.1	ND0.1	ND0.1	ND5.0	ND5.0
Trimethyl benzene	0.54	ND0.1	ND5.0	ND5.0							
Trifluoromethylbenzeneamine	0.3	ND0.1	ND5.0	ND5.0							
Tetrachlorobutadiene	0.16	ND0.1	ND5.0	ND5.0							
1,3-Dichlorotoluene	1.08	ND0.1	ND5.0	ND5.0							
Dichlorotoluene	NA	NA									
Trichlorobenzene (isomer)	9.11	ND0.1	0.2	ND0.1	ND0.1	ND0.1	1.25	ND0.1	ND0.1	ND5.0	ND5.0
Trichlorobenzene (isomer)	13.68	ND0.1	0.2	ND0.1	ND0.1	ND0.1	0.59	ND0.1	ND0.1	ND5.0	ND5.0
Trichlorobenzene (isomer)	3.37	ND0.1	ND5.0	ND5.0							
Trichlorobenzene (total)	NA	NA									
Hexachlorobutadiene	1.41	ND0.1	ND5.0	ND5.0							
Trichlorotoluene (isomer)	0.27	ND0.1	ND5.0	ND5.0							
Trichlorotoluene (isomer)	0.44	ND0.1	ND5.0	ND5.0							
Trichlorotoluene (isomer)	0.37	ND0.1	ND5.0	ND5.0							
Trichlorotoluene (total)	NA	NA									
Tetrachlorobenzene (isomer)	2.36	ND0.1	ND5.0	ND5.0							
Tetrachlorobenzene (isomer)	0.33	ND0.1	ND5.0	ND5.0							
Tetrachlorobenzene (total)	NA	NA									
Pentachlorobenzene	0.57	ND0.1	ND5.0	ND5.0							
Hexachlorobenzene	7.46	ND0.1	ND0.1	0.14	ND0.1	ND0.1	ND0.1	ND0.1	ND0.1	ND5.0	ND5.0
Trichlorobiphenyl	0.18	ND0.1	ND5.0	ND5.0							
Tetrachlorobiphenyl	0.14	ND0.1	ND5.0	ND5.0							
Octachlorostyrene	NA	NA									
Pyrene	0.79	ND0.1	2.96	0.29	ND0.1	0.67	ND0.1	1.03	0.25	ND5.0	ND5.0
Fluoranthene	ND0.1	ND0.1	2.70	0.22	ND0.1	0.9	ND0.1	1.05	0.1	ND5.0	ND5.0
Phenanthrene	NA	NA									
Anthracene	NA	NA									
Acenaphthene	NA	NA									
Fluorene	NA	NA									
Benzene,2-chloro-1,3,5(1-methylethyl)	NA	NA									
Octachloronaphthalene	NA	NA									

TABLE A.1
ANALYTICAL DATA - NYSDEC, 1989
10500 CAYUGA DRIVE

Sample Location:	A	B	C	D	E	F	G	H	I	J	K
Sample Date:	4/17/89	4/17/89	4/17/89	4/17/89	4/17/89	4/17/89	4/17/89	4/17/89	4/17/89	4/17/89	4/17/89
Units:	mg/Kg										
Volatile Organic Compounds											
Benzene	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002	0.63	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002
Toluene	ND0.002										
Chlorobenzene	ND0.002	ND0.002	ND0.002	ND0.002	1.85	0.95	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002
Trifluoromethyl benzene	ND0.002	ND0.002	0.11	ND0.002							
Cl-Trifluoromethyl benzene	ND0.002										
Xylene	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002	0.65	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002
Chlorotoluene	ND0.002	ND0.002	ND0.002	ND0.002	0.34	1.11	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002
a,a,a-Trifluorotoluene	ND0.002										
Ethylbenzene	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002	0.22	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002
Dichlorobenzene	ND0.002	ND0.002	0.61	ND0.002	3.22	1.41	ND0.002	ND0.002	ND0.002	ND0.002	ND0.002
Semi-Volatile Organic Compounds											
1,4-Dichlorobenzene	ND0.1										
1,3-Dichlorobenzene	ND0.1										
1,2-Dichlorobenzene	ND0.1										
2,3-Dichlorotoluene	ND0.1										
Trimethyl benzene	ND0.1	ND0.1	ND0.1	ND0.1	0.91	3.91	ND0.1	ND0.1	ND0.1	ND0.1	ND0.1
Trifluoromethylbenzeneamine	ND0.1										
Tetrachlorobutadiene	ND0.1										
1,3-Dichlorotoluene	ND0.1	ND0.1	ND0.1	ND0.1	ND0.1	ND0.1	NA	ND0.1	ND0.1	ND0.1	ND0.1
Dichlorotoluene	ND0.1	ND0.1	0.63	ND0.1	ND0.1	3.28	ND0.1	ND0.1	ND0.1	ND0.1	ND0.1
Trichlorobenzene (isomer)	NA										
Trichlorobenzene (isomer)	NA										
Trichlorobenzene (isomer)	NA										
Trichlorobenzene (total)	ND0.1	ND0.1	0.59	ND0.1	4.2	0.62	ND0.1	ND0.1	ND0.1	ND0.1	ND0.1
Hexachlorobutadiene	ND0.1										
Trichlorotoluene (isomer)	ND0.1										
Trichlorotoluene (isomer)	ND0.1										
Trichlorotoluene (total)	NA										
Tetrachlorobenzene (isomer)	ND0.1										
Tetrachlorobenzene (isomer)	ND0.1										
Tetrachlorobenzene (total)	NA										
Pentachlorobenzene	ND0.1										
Hexachlorobenzene	ND0.1										
Trichlorobiphenyl	ND0.1										
Tetrachlorobiphenyl	ND0.1	ND0.1	ND0.1	ND0.1	ND0.1	9.16	ND0.1	ND0.1	ND0.1	ND0.1	ND0.1
Octachlorostyrene	NA										
Pyrene	ND0.1										
Fluoranthene	ND0.1										
Phenanthrene	NA										
Anthracene	NA										
Acenaphthene	NA										
Fluorene	NA										
Benzene,2-chloro-1,3,5(1-methylethyl)	NA										
Octachloronaphthalene	NA										

TABLE A.1
ANALYTICAL DATA - NYSDEC, 1989
10500 CAYUGA DRIVE

Sample Location:	L	NCC-1	NCC-2	NCC-3	NCC-4	NCC-5	NCC-6	NCC-7	NCC-8	NCC-9	NCC-10
Sample Date:	04/17/89	11/07/89	11/07/89	11/09/89	11/09/89	11/09/89	11/08/89	11/08/89	11/08/89	11/08/89	11/07/89
Units:	mg/Kg										
Volatile Organic Compounds											
Benzene	ND0.002	ND0.005									
Toluene	ND0.002	ND0.005	ND0.005	ND0.005	ND0.005	0.027	ND0.005	ND0.005	ND0.005	ND0.005	0.03
Chlorobenzene	ND0.002	ND0.005	ND0.005	ND0.005	ND0.005	1.5	ND0.005	ND0.005	ND0.005	ND0.005	0.04
Trifluoromethyl benzene	ND0.002	NA									
Cl-Trifluoromethyl benzene	ND0.002	NA									
Xylene	ND0.002	ND0.005	ND0.005	ND0.005	ND0.005	0.038	ND0.005	ND0.005	ND0.005	ND0.005	0.022
Chlorotoluene	ND0.002	ND0.005	ND0.005	ND0.005	ND0.005	0.16	ND0.005	ND0.005	ND0.005	ND0.005	0.035
a,a,a-Trifluorotoluene	ND0.002	ND0.005	ND0.005	ND0.005	ND0.005	0.029	ND0.005	ND0.005	ND0.005	ND0.005	0.033
Ethylbenzene	ND0.002	ND0.005									
Dichlorobenzene	ND0.002	ND0.005	ND0.005	ND0.005	ND0.005	2.3	ND0.005	ND0.005	ND0.005	ND0.005	0.552
Semi-Volatile Organic Compounds											
1,4-Dichlorobenzene	ND0.1	NA									
1,3-Dichlorobenzene	ND0.1	NA									
1,2-Dichlorobenzene	ND0.1	NA									
2,3-Dichlorotoluene	ND0.1	NA									
Trimethyl benzene	ND0.1	0.002	NA	0.004	NA	0.092	NA	0.003	NA	NA	NA
Trifluoromethylbenzeneamine	ND0.1	NA									
Tetrachlorobutadiene	ND0.1	NA									
1,3-Dichlorotoluene	ND0.1	NA									
Dichlorotoluene	ND0.1	ND0.04	NA	ND0.04	NA	0.17	NA	0.031	NA	NA	NA
Trichlorobenzene (isomer)	NA										
Trichlorobenzene (isomer)	NA										
Trichlorobenzene (isomer)	NA										
Trichlorobenzene (total)	ND0.1	0.007	NA	0.018	NA	0.52	NA	0.09	NA	NA	NA
Hexachlorobutadiene	ND0.1	0.004	NA	ND0.04	NA	0.140	NA	0.003	NA	NA	NA
Trichlorotoluene (isomer)	ND0.1	NA									
Trichlorotoluene (isomer)	ND0.1	NA									
Trichlorotoluene (isomer)	ND0.1	NA									
Trichlorotoluene (total)	NA	ND0.04	NA	ND0.04	NA	0.067	NA	0.013	NA	NA	NA
Tetrachlorobenzene (isomer)	ND0.1	NA									
Tetrachlorobenzene (isomer)	ND0.1	NA									
Tetrachlorobenzene (total)	NA	0.002	NA	0.004	NA	0.05	NA	0.012	NA	NA	NA
Pentachlorobenzene	ND0.1	ND0.04	NA	0.003	NA	0.01	NA	0.004	NA	NA	NA
Hexachlorobenzene	ND0.1	0.011	NA	0.002	NA	0.11	NA	0.026	NA	NA	NA
Trichlorobiphenyl	ND0.1	ND0.04	NA	ND0.04	NA	0.033	NA	ND0.04	NA	NA	NA
Tetrachlorobiphenyl	ND0.1	ND0.04	NA	ND0.04	NA	0.049	NA	0.004	NA	NA	NA
Octachlorostyrene	NA	ND0.04	NA	ND0.04	NA	0.057	NA	0.002	NA	NA	NA
Pyrene	ND0.1	0.029	NA	0.03	NA	ND0.04	NA	0.032	NA	NA	NA
Fluoranthene	ND0.1	ND0.04	NA	0.1	NA	ND0.04	NA	ND0.04	NA	NA	NA
Phenanthrene	NA	0.087	NA	0.137	NA	ND0.04	NA	0.031	NA	NA	NA
Anthracene	NA	0.012	NA	ND0.04	NA	ND0.04	NA	ND0.04	NA	NA	NA
Acenaphthene	NA	ND0.04	NA	ND0.04	NA	ND0.04	NA	ND0.04	NA	NA	NA
Fluorene	NA	ND0.04	NA	ND0.04	NA	ND0.04	NA	ND0.04	NA	NA	NA
Benzene,2-chloro-1,3,5(1-methylethyl)	NA	ND0.04	NA	0.096	NA	ND0.04	NA	ND0.04	NA	NA	NA
Octachloronaphthalene	NA	ND0.04	NA	ND0.04	NA	ND0.04	NA	ND0.04	NA	NA	NA

TABLE A.1
ANALYTICAL DATA - NYSDEC, 1989
10500 CAYUGA DRIVE

Sample Location:	NCC-11	NCC-12	NCC-3F	NCC-FF	NCC-7F	NCC-1F	NCC-1(H)	NCC-2(H)	NCC-3(H)	NCC-4(H)	NCC-5(H)
Sample Date:	11/07/89	11/07/89	11/08/89	11/09/89	11/09/89	11/09/89	11/01/89	11/01/89	11/01/89	11/01/89	11/01/89
Units:	mg/Kg										
Volatile Organic Compounds											
Benzene	ND0.005	0.01									
Toluene	0.012	0.018	ND0.005	ND0.005	ND0.005	0.005	ND0.005	ND0.005	ND0.005	ND0.005	0.008
Chlorobenzene	0.084	0.097	ND0.005	ND0.005	ND0.005	0.042	ND0.005	ND0.005	ND0.005	ND0.005	0.47
Trifluoromethyl benzene	NA										
Cl-Trifluoromethyl benzene	NA										
Xylene	0.063	0.039	ND0.005	ND0.005	ND0.005	0.006	ND0.005	ND0.005	ND0.005	ND0.005	0.011
Chlorotoluene	0.103	0.063	ND0.005	ND0.005	ND0.005	0.038	ND0.005	ND0.005	ND0.005	ND0.005	0.044
a,a,a-Trifluorotoluene	0.43	0.28	ND0.005	ND0.005	ND0.005	0.012	ND0.005	ND0.005	ND0.005	ND0.005	0.005
Ethylbenzene	ND0.005										
Dichlorobenzene	1.9	1.1	ND0.005	ND0.005	ND0.005	1.31	ND0.005	ND0.005	ND0.005	ND0.005	0.604
Semi-Volatile Organic Compounds											
1,4-Dichlorobenzene	NA										
1,3-Dichlorobenzene	NA										
1,2-Dichlorobenzene	NA										
2,3-Dichlorotoluene	NA										
Trimethyl benzene	0.125	NA	NA	ND0.04	NA						
Trifluoromethylbenzeneamine	NA										
Tetrachlorobutadiene	NA										
1,3-Dichlorotoluene	NA										
Dichlorotoluene	0.14	NA	NA	ND0.04	NA						
Trichlorobenzene (isomer)	NA										
Trichlorobenzene (isomer)	NA										
Trichlorobenzene (isomer)	NA										
Trichlorobenzene (total)	1.9	NA	NA	ND0.04	NA						
Hexachlorobutadiene	0.031	NA	NA	ND0.04	NA						
Trichlorotoluene (isomer)	NA										
Trichlorotoluene (isomer)	NA										
Trichlorotoluene (isomer)	NA										
Trichlorotoluene (total)	0.155	NA	NA	ND0.04	NA						
Tetrachlorobenzene (isomer)	NA										
Tetrachlorobenzene (isomer)	NA										
Tetrachlorobenzene (total)	0.039	NA	NA	ND0.04	NA						
Pentachlorobenzene	0.005	NA	NA	ND0.04	NA						
Hexachlorobenzene	0.066	NA	NA	ND0.04	NA						
Trichlorobiphenyl	0.065	NA	NA	ND0.04	NA						
Tetrachlorobiphenyl	0.14	NA	NA	ND0.04	NA						
Octachlorostyrene	0.084	NA	NA	ND0.04	NA						
Pyrene	0.026	NA	NA	ND0.04	NA						
Fluoranthene	ND0.04	NA	NA	ND0.04	NA						
Phenanthrene	0.022	NA	NA	ND0.04	NA						
Anthracene	ND0.04	NA	NA	ND0.04	NA						
Acenaphthene	0.036	NA	NA	ND0.04	NA						
Fluorene	0.058	NA	NA	ND0.04	NA						
Benzene,2-chloro-1,3,5(1-methylethyl)	ND0.04	NA	NA	ND0.04	NA						
Octachloronaphthalene	0.47	NA	NA	ND0.04	NA						

TABLE A.1
ANALYTICAL DATA - NYSDEC, 1989
10500 CAYUGA DRIVE

Sample Location:	NCC-6(H)	NCC-7(H)	NCC-8(H)	NCC-9(H)	NCC-10(H)	NCC-11(H)	NCC-12(H)	NCC-13(H)	NCC-3F(H)	NCC-FF(H)	NCC-7F(H)
Sample Date:	11/01/89	11/01/89	11/01/89	11/01/89	11/01/89	11/01/89	11/01/89	11/01/89	11/01/89	11/01/89	11/01/89
Units:	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Volatile Organic Compounds											
Benzene	ND0.005	ND0.005	ND0.005	0.02	0.007	0.008	0.011	0.01	0.006	ND0.005	0.01
Toluene	ND0.005	ND0.005	ND0.005	0.005	0.01	0.018	0.009	0.005	ND0.005	ND0.005	ND0.005
Chlorobenzene	ND0.005	ND0.005	ND0.005	0.512	0.021	0.036	0.024	0.323	0.01	0.17	0.026
Trifluoromethyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cl-Trifluoromethyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene	ND0.005	ND0.005	ND0.005	ND0.005	0.014	0.04	ND0.005	0.005	ND0.005	ND0.005	ND0.005
Chlorotoluene	ND0.005	ND0.005	ND0.005	0.053	0.008	0.016	0.009	0.019	ND0.005	0.005	ND0.005
a,a,a-Trifluorotoluene	ND0.005	ND0.005	ND0.005	0.014	0.004	1.198	0.11	0.007	ND0.005	ND0.005	ND0.005
Ethylbenzene	ND0.005	ND0.005	ND0.005	ND0.005	ND0.005	0.006	ND0.005	ND0.005	ND0.005	ND0.005	ND0.005
Dichlorobenzene	ND0.005	ND0.005	ND0.005	0.079	0.134	0.097	0.101	0.178	0.031	ND0.005	0.051
Semi-Volatile Organic Compounds											
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3-Dichlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trimethyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trifluoromethylbenzeneamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene (isomer)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene (isomer)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene (isomer)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorotoluene (isomer)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorotoluene (isomer)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorotoluene (isomer)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorotoluene (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorobenzene (isomer)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorobenzene (isomer)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorobenzene (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobiphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorobiphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octachlorostyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene,2-chloro-1,3,5(1-methylethyl)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octachloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A.1
ANALYTICAL DATA - NYSDEC, 1989
10500 CAYUGA DRIVE

<i>Sample Location:</i>	NCC-1F(H)
<i>Sample Date:</i>	11/01/89
<i>Units:</i>	mg/Kg
Volatile Organic Compounds	
Benzene	0.008
Toluene	0.007
Chlorobenzene	0.037
Trifluoromethyl benzene	NA
Cl-Trifluoromethyl benzene	NA
Xylene	0.005
Chlorotoluene	0.032
a,a,a-Trifluorotoluene	ND0.005
Ethylbenzene	ND0.005
Dichlorobenzene	1.12
Semi-Volatile Organic Compounds	
1,4-Dichlorobenzene	NA
1,3-Dichlorobenzene	NA
1,2-Dichlorobenzene	NA
2,3-Dichlorotoluene	NA
Trimethyl benzene	NA
Trifluoromethylbenzeneamine	NA
Tetrachlorobutadiene	NA
1,3-Dichlorotoluene	NA
Dichlorotoluene	NA
Trichlorobenzene (isomer)	NA
Trichlorobenzene (isomer)	NA
Trichlorobenzene (isomer)	NA
Trichlorobenzene (total)	NA
Hexachlorobutadiene	NA
Trichlorotoluene (isomer)	NA
Trichlorotoluene (isomer)	NA
Trichlorotoluene (isomer)	NA
Trichlorotoluene (total)	NA
Tetrachlorobenzene (isomer)	NA
Tetrachlorobenzene (isomer)	NA
Tetrachlorobenzene (total)	NA
Pentachlorobenzene	NA
Hexachlorobenzene	NA
Trichlorobiphenyl	NA
Tetrachlorobiphenyl	NA
Octachlorostyrene	NA
Pyrene	NA
Fluoranthene	NA
Phenanthrene	NA
Anthracene	NA
Acenaphthene	NA
Fluorene	NA
Benzene,2-chloro-1,3,5(1-methylethyl)	NA
Octachloronaphthalene	NA

TABLE A.1
ANALYTICAL DATA - NYSDEC, 1989
10500 CAYUGA DRIVE

Notes:

NA Not analyzed

NDx Compound was not detected at the limit specified

(H) Homogenized sample received directly from the laboratory

SOURCES:

Attachment to memorandum, R.W. Schick (NYSDEC) to A. S. Nagi (NYSDEC) dated April 24, 1989

Attachment to letter R. W. Schick (NYSDEC) to J.A. Cull (OxyChem) dated December 14, 1989

TABLE A.2
ANALYTICAL DATA - PHASE I
10500 CAYUGA DRIVE

Sample Location:	NCC-1	NCC-2	NCC-3	NCC-4	NCC-5	NCC-6	NCC-7	NCC-8	NCC-9	NCC-10	NCC-11
Sample Date:	11/07/89	11/07/89	11/09/89	11/09/89	11/09/89	11/08/89	11/08/89	11/08/89	11/08/89	11/07/89	11/07/89
Units:	ug/Kg										
Volatile Organic Compounds											
Benzene	ND100										
Toluene	ND100										
Trichloroethylene	ND100										
Tetrachloroethylene	ND100										
Monochlorobenzene	ND100	ND100	ND100	ND100	270	ND100	ND100	ND100	380	ND100	ND100
2-Monochlorotoluene	ND100										
4-Monochlorotoluene	ND100	140									
2-Chlorobenzotrifluoride	ND100										
4-Chlorobenzotrifluoride	ND100										
1,2-Dichlorobenzene	ND100										
1,4-Dichlorobenzene	ND100	1900									
2,4-Dichlorotoluene	ND100	ND100	ND100	ND100	190	ND100	ND100	ND100	ND100	620	240
2,5-Dichlorotoluene	ND100	ND100	ND100	ND100	290	ND100	ND100	ND100	ND100	800	300
2,6-Dichlorotoluene	ND100										
3,4-Dichlorotoluene	ND100	ND100	ND100	ND100	270	ND100	ND100	ND100	ND100	ND100	ND100
2,4-Dichlorobenzotrifluoride	ND100	ND100	ND100	ND100	1400	ND100	ND100	ND100	ND100	ND100	ND100
3,4-Dichlorobenzotrifluoride	ND100	340	260								
Semi-Volatile Organic Compounds											
1,2,3-Trichlorobenzene	ND100	ND100	ND100	240	740	ND100	ND100	ND100	ND100	760	790
1,2,4-Trichlorobenzene	ND100	ND100	ND100	500	1700	ND100	ND100	ND100	ND100	2100	2000
1,2,3,4-Tetrachlorobenzene	ND100	250	100								
1,2,4,5-Tetrachlorobenzene	ND100										
Pentachlorobenzene	ND100	150	ND100								
Hexachlorobenzene	ND100	ND100	ND100	ND100	160	ND100	ND100	ND100	ND100	1300	180
alpha-Hexachlorocyclohexane (BHC)	ND100										
beta-Hexachlorocyclohexane (BHC)	ND100										
gamma-Hexachlorocyclohexane (BHC)	ND100										
delta-Hexachlorocyclohexane (BHC)	ND100										
2,3-Dichlorophenol	ND100										
2,4-Dichlorophenol	ND100										
2,4,5-Trichlorophenol	ND100										
2,4,6-Trichlorophenol	ND100										
Hexachlorobutadiene	ND100	ND100	ND100	ND100	170	ND100	ND100	ND100	ND100	200	130
Hexachlorocyclopentadiene	ND100										
Octachlorocyclopentene	ND100										
Perchlorocyclopentadecane (Mirex)	ND100	560	270								

TABLE A.2
ANALYTICAL DATA - PHASE I
10500 CAYUGA DRIVE

Sample Location:	NCC-12	NCC-13	NCC-1F	NCC-3F	NCC-7F	NCC-FF
Sample Date:	11/07/89	11/09/89*	11/09/89	11/08/89	11/09/89	11/08/89
Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds						
Benzene	ND100	ND100	ND100	ND100	ND100	ND100
Toluene	ND100	ND100	ND100	ND100	ND100	ND100
Trichloroethylene	ND100	ND100	ND100	ND100	ND100	ND100
Tetrachloroethylene	ND100	ND100	ND100	ND100	ND100	ND100
Monochlorobenzene	ND100	430	ND100	ND100	ND100	200
2-Monochlorotoluene	ND100	ND100	ND100	ND100	ND100	ND100
4-Monochlorotoluene	ND100	ND100	ND100	ND100	ND100	ND100
2-Chlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND100	ND100
4-Chlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND100	ND100
1,2-Dichlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100
1,4-Dichlorobenzene	ND100	ND100	0.31	ND100	ND100	ND100
2,4-Dichlorotoluene	610	120	ND100	ND100	ND100	ND100
2,5-Dichlorotoluene	1000	190	ND100	ND100	ND100	ND100
2,6-Dichlorotoluene	ND100	ND100	ND100	ND100	ND100	ND100
3,4-Dichlorotoluene	590	150	ND100	ND100	ND100	ND100
2,4-Dichlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND100	ND100
3,4-Dichlorobenzotrifluoride	210	ND100	ND100	ND100	ND100	ND100
Semi-Volatile Organic Compounds						
1,2,3-Trichlorobenzene	270	280	ND100	ND100	ND100	ND100
1,2,4-Trichlorobenzene	1100	870	ND100	ND100	ND100	ND100
1,2,3,4-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100
1,2,4,5-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100
Pentachlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100
Hexachlorobenzene	150	ND100	ND100	ND100	ND100	ND100
alpha-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100	ND100
beta-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100	ND100
gamma-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100	ND100
delta-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100	ND100
2,3-Dichlorophenol	ND100	ND100	ND100	ND100	ND100	ND100
2,4-Dichlorophenol	ND100	ND100	ND100	ND100	ND100	ND100
2,4,5-Trichlorophenol	ND100	ND100	ND100	ND100	ND100	ND100
2,4,6-Trichlorophenol	ND100	ND100	ND100	ND100	ND100	ND100
Hexachlorobutadiene	230	150	ND100	ND100	ND100	ND100
Hexachlorocyclopentadiene	ND100	ND100	ND100	ND100	ND100	ND100
Octachlorocyclopentene	ND100	ND100	ND100	ND100	ND100	ND100
Perchlorocyclopentadecane (Mirex)	360	ND0.1	ND100	ND100	ND100	ND100

Notes:

NDx Compound not detected at the level specified

* Duplicate of sample NCC-5.

TABLE A.3
ANALYTICAL DATA - DATA COLLECTION PROGRAM
10500 CAYUGA DRIVE

<i>Sample Location:</i>	NCC-14	NCC-15	NCC-16	NCC-17	NCC-18	NCC-19	NCC-20	NCC-21	NCC-22	NCC-23	NCC-34*
<i>Sample Depth (Ft.):</i>	0.5-3.5	0.2-3.2	0.2-3.2	0.5-3.5	0.1-3.1	0.5-3.5	0.3-3.3	0.5-3.5	0.5-35	0.5-3.5	0.5-3.5
<i>Sample Date:</i>	03/05/90	03/05/90	03/05/90	03/05/90	03/05/90	03/05/90	03/05/90	03/05/90	03/05/90	03/06/90	03/06/90
<i>Units:</i>	ug/Kg										
Volatile Organic Compounds											
Benzene	ND100										
Toluene	ND100	3600	ND100								
Trichloroethylene	ND100										
Tetrachloroethylene	ND100	130	ND100								
Monochlorobenzene	540	1900	ND100	ND100	ND100	ND100	ND100	ND100	290	ND100	ND100
2-Monochlorotoluene	ND100	1500	ND100								
4-Monochlorotoluene	ND100	510	ND100								
2-Chlorobenzotrifluoride	ND100	320	ND100								
4-Chlorobenzotrifluoride	ND100	110	ND100								
1,2-Dichlorobenzene	ND100										
1,4-Dichlorobenzene	530	10000	ND100	ND100	ND100	620	340	ND100	280	ND100	ND100
2,4-Dichlorotoluene	140	180	290	160	ND100	250	ND100	ND100	ND100	ND100	ND100
2,5-Dichlorotoluene	230	290	500	250	ND100	570	ND100	ND100	ND100	ND100	ND100
2,6-Dichlorotoluene	ND100										
3,4-Dichlorotoluene	ND100	ND100	130	110	ND100	460	ND100	ND100	ND100	ND100	ND100
2,4-Dichlorobenzotrifluoride	ND100	260	510	450	ND100	950	ND100	ND100	ND100	ND100	ND100
3,4-Dichlorobenzotrifluoride	ND100										
Semi-Volatile Organic Compounds											
1,2,3-Trichlorobenzene	ND100	ND100	150	150	ND100	8600	ND100	ND100	ND100	ND100	ND100
1,2,4-Trichlorobenzene	210	400	1300	880	ND100	26000	ND100	ND100	110	ND100	ND100
1,2,3,4-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND100	610	ND100	ND100	ND100	ND100	ND100
1,2,4,5-Tetrachlorobenzene	ND100	ND100	530	230	ND100	5000	ND100	ND100	ND100	ND100	ND100
Pentachlorobenzene	ND100	ND100	ND100	ND100	ND100	2800	ND100	ND100	ND100	ND100	ND100
Hexachlorobenzene	ND100	ND100	1100	640	ND100	15000	ND100	ND100	ND100	ND100	ND100
alpha-Hexachlorocyclohexane (BHC)	ND100										
beta-Hexachlorocyclohexane (BHC)	ND100										
gamma-Hexachlorocyclohexane (BHC)	ND100										
delta-Hexachlorocyclohexane (BHC)	ND100	ND100	510	110	ND100	150	ND100	ND100	ND100	ND100	ND100
2,4-Dichlorophenol	1800	2400	8300	5700	ND100	8800	ND100	ND100	ND100	ND100	ND100
2,5-Dichlorophenol	ND100										
2,4,5-Trichlorophenol	ND100										
2,4,6-Trichlorophenol	ND100										
Hexachlorobutadiene	ND100	180	690	330	ND100	1600	ND100	ND100	ND100	ND100	ND100
Hexachlorocyclopentadiene	ND100										
Octachlorocyclopentene	ND100										
Perchlorocyclopentadecane (Mirex)	190	130	650	330	ND100	1100	ND100	ND100	ND100	ND100	ND100

TABLE A.3
ANALYTICAL DATA - DATA COLLECTION PROGRAM
10500 CAYUGA DRIVE

<i>Sample Location:</i>	NCC-24	NCC-33**	NCC-25	NCC-26	NCC-27	NCC-28	NCC-29	NCC-30	NCC-30A	NCC-31	NCC-31A
<i>Sample Depth (Ft.):</i>	0.5-3.5	0.5-3.5	0.5-3.5	0.5-3.5	0.5-4.0	0.5-3.5	0.5-3.5	3.0-3.8	3.8-4.5	2.5-4.5	4.5-5.0
<i>Sample Date:</i>	03/05/90	03/05/90	03/06/90	03/05/90	03/06/90	03/06/90	03/06/90	03/06/90	03/06/90	03/06/90	03/06/90
<i>Units:</i>	ug/Kg										
Volatile Organic Compounds											
Benzene	ND100										
Toluene	ND100										
Trichloroethylene	ND100										
Tetrachloroethylene	ND100										
Monochlorobenzene	1300	ND100	200	ND100	ND100						
2-Monochlorotoluene	210	ND100									
4-Monochlorotoluene	ND100										
2-Chlorobenzotrifluoride	ND100										
4-Chlorobenzotrifluoride	ND100										
1,2-Dichlorobenzene	ND100										
1,4-Dichlorobenzene	1800	ND100	290								
2,4-Dichlorotoluene	ND100										
2,5-Dichlorotoluene	ND100										
2,6-Dichlorotoluene	ND100										
3,4-Dichlorotoluene	ND100										
2,4-Dichlorobenzotrifluoride	ND100										
3,4-Dichlorobenzotrifluoride	ND100										
Semi-Volatile Organic Compounds											
1,2,3-Trichlorobenzene	ND100	ND100	170	ND100							
1,2,4-Trichlorobenzene	240	ND100	550	190	ND100	190	110	ND100	ND100	ND100	ND100
1,2,3,4-Tetrachlorobenzene	ND100										
1,2,4,5-Tetrachlorobenzene	ND100										
Pentachlorobenzene	ND100										
Hexachlorobenzene	ND100										
alpha-Hexachlorocyclohexane (BHC)	ND100										
beta-Hexachlorocyclohexane (BHC)	ND100										
gamma-Hexachlorocyclohexane (BHC)	ND100										
delta-Hexachlorocyclohexane (BHC)	ND100										
2,4-Dichlorophenol	ND100										
2,5-Dichlorophenol	ND100										
2,4,5-Trichlorophenol	ND100										
2,4,6-Trichlorophenol	ND100										
Hexachlorobutadiene	ND100	ND100	110	ND100							
Hexachlorocyclopentadiene	ND100										
Octachlorocyclopentene	ND100										
Perchlorocyclopentadecane (Mirex)	ND100										

TABLE A.3
ANALYTICAL DATA - DATA COLLECTION PROGRAM
10500 CAYUGA DRIVE

<i>Sample Location:</i>	NCC-32	NCC-32A	NCC-35	NCC-36	NCC-37	NCC-38	NCC-39	NCC-40	NCC-41	NCC-42	NCC-43***
<i>Sample Depth (Ft.):</i>	3.0-3.5	3.5-4.0	0.5-3.5	0.5-3.5	0.5-3.5	0.5-3.5	0.5-3.5	0.5-3.5	0.5-3.5	0.5-3.5	0.5-3.5
<i>Sample Date:</i>	03/06/90	03/06/90	03/14/90	03/14/90	03/14/90	03/14/90	03/14/90	03/14/90	03/14/90	03/14/90	03/14/90
<i>Units:</i>	ug/Kg										
Volatile Organic Compounds											
Benzene	ND100										
Toluene	ND100	230	ND100								
Trichloroethylene	ND100										
Tetrachloroethylene	ND100										
Monochlorobenzene	ND100	1900	ND100	ND100	960	ND100	260	ND100	290	ND100	ND100
2-Monochlorotoluene	ND100	870	ND100								
4-Monochlorotoluene	ND100	230	ND100								
2-Chlorobenzotrifluoride	ND100										
4-Chlorobenzotrifluoride	ND100										
1,2-Dichlorobenzene	ND100										
1,4-Dichlorobenzene	ND100	12000	ND100	ND100	140	ND100	ND100	ND100	ND100	ND100	ND100
2,4-Dichlorotoluene	ND100	250	ND100	ND100							
2,5-Dichlorotoluene	ND100	410	ND100	ND100							
2,6-Dichlorotoluene	ND100										
3,4-Dichlorotoluene	ND100	150	ND100	ND100							
2,4-Dichlorobenzotrifluoride	ND100	430	ND100	ND100							
3,4-Dichlorobenzotrifluoride	ND100										
Semi-Volatile Organic Compounds											
1,2,3-Trichlorobenzene	390	ND100	ND100	ND100	190	ND100	120	ND100	1600	ND100	ND100
1,2,4-Trichlorobenzene	1500	290	ND100	ND100	440	250	470	390	6100	ND100	ND100
1,2,3,4-Tetrachlorobenzene	ND100	120	ND100	ND100							
1,2,4,5-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND100	120	ND100	110	590	ND100	ND100
Pentachlorobenzene	ND100										
Hexachlorobenzene	ND100	330	230	ND100	ND100						
alpha-Hexachlorocyclohexane (BHC)	ND100										
beta-Hexachlorocyclohexane (BHC)	ND100										
gamma-Hexachlorocyclohexane (BHC)	ND100										
delta-Hexachlorocyclohexane (BHC)	ND100										
2,4-Dichlorophenol	460	170	ND100	ND100	ND100	190	ND100	280	330	ND100	ND100
2,5-Dichlorophenol	ND100										
2,4,5-Trichlorophenol	ND100										
2,4,6-Trichlorophenol	ND100										
Hexachlorobutadiene	170	ND100	ND100	ND100	ND100	ND100	ND100	170	190	ND100	ND100
Hexachlorocyclopentadiene	ND100	350	ND100	ND100							
Octachlorocyclopentene	ND100										
Perchlorocyclopentadecane (Mirex)	ND100	ND100	ND100	ND100	ND100	150	ND100	ND100	170	ND100	ND100

TABLE A.3
ANALYTICAL DATA - DATA COLLECTION PROGRAM
10500 CAYUGA DRIVE

Sample Location:	NCC-44	NCC-45	NCC-46	NCC-47	NCC-48	NCC-49	NCC-50	NCC-51	NCC-52	NCC-53	NCC-54
Sample Depth (Ft.):	0.2-3.5	0.5-4.3	0.3-3.8	0.2-3.5	0.2-4.8	0.5-4.0	0.5-4.0	0.5-4.0	0.5-3.5	0.5-4.0	0.5-4.5
Sample Date:	06/01/90	06/01/90	06/01/90	06/01/90	06/01/90	06/01/90	06/01/90	06/01/90	06/01/90	06/01/90	06/01/90
Units:	ug/Kg										
Volatile Organic Compounds											
Benzene	ND100										
Toluene	ND100	ND100	ND100	270	230	ND100	ND100	ND100	ND100	ND100	ND100
Trichloroethylene	ND100										
Tetrachloroethylene	ND100										
Monochlorobenzene	ND100	ND100	ND100	14000	5000	280	ND100	ND100	ND100	ND100	110
2-Monochlorotoluene	ND100	ND100	ND100	400	210	ND100	ND100	ND100	ND100	ND100	ND100
4-Monochlorotoluene	ND100	ND100	ND100	110	ND100						
2-Chlorobenzotrifluoride	ND100										
4-Chlorobenzotrifluoride	ND100										
1,2-Dichlorobenzene	ND100										
1,4-Dichlorobenzene	ND100	ND100	ND100	1100	330	ND100	ND100	ND100	ND100	ND100	480
2,4-Dichlorotoluene	ND100	ND100	ND100	390	ND100						
2,5-Dichlorotoluene	ND100	ND100	ND100	1100	230	180	ND100	ND100	ND100	ND100	ND100
2,6-Dichlorotoluene	ND100										
3,4-Dichlorotoluene	ND100										
2,4-Dichlorobenzotrifluoride	ND100	ND100	ND100	150	ND100	540	ND100	ND100	ND100	ND100	ND100
3,4-Dichlorobenzotrifluoride	ND100										
Semi-Volatile Organic Compounds											
1,2,3-Trichlorobenzene	ND100	ND100	ND100	1900	920	ND100	ND100	ND100	ND100	ND100	1000
1,2,4-Trichlorobenzene	ND100	ND100	ND100	5600	1700	240	ND100	ND100	ND100	ND100	3100
1,2,3,4-Tetrachlorobenzene	ND100	ND100	ND100	190	100	ND100	ND100	ND100	ND100	ND100	ND100
1,2,4,5-Tetrachlorobenzene	ND100	ND100	ND100	520	230	ND100	ND100	ND100	ND100	ND100	200
Pentachlorobenzene	ND100	ND100	ND100	130	ND100						
Hexachlorobenzene	ND100	ND100	ND100	620	570	ND100	ND100	ND100	ND100	ND100	280
alpha-Hexachlorocyclohexane (BHC)	ND100										
beta-Hexachlorocyclohexane (BHC)	ND100										
gamma-Hexachlorocyclohexane (BHC)	ND100										
delta-Hexachlorocyclohexane (BHC)	ND100										
2,4-Dichlorophenol	ND100	ND100	ND100	400	220	ND100	ND100	ND100	ND100	ND100	ND100
2,5-Dichlorophenol	ND100										
2,4,5-Trichlorophenol	ND100										
2,4,6-Trichlorophenol	ND100										
Hexachlorobutadiene	ND100	ND100	ND100	320	250	ND100	ND100	ND100	ND100	ND100	ND100
Hexachlorocyclopentadiene	ND100	ND100	ND100	170	ND100						
Octachlorocyclopentene	ND100										
Perchlorocyclopentadecane (Mirex)	ND100	ND100	ND100	160	ND100						

TABLE A.3
ANALYTICAL DATA - DATA COLLECTION PROGRAM
10500 CAYUGA DRIVE

<i>Sample Location:</i>	<i>NCC-55</i>	<i>NCC-56****</i>	<i>NCC-58</i>	<i>NCC-59</i>	<i>NCC-60*****</i>
<i>Sample Depth (Ft.):</i>	0.5-3.5	0.5-4.0	1.0-5.0	0.5-4.5	1.0-4.5
<i>Sample Date:</i>	06/01/90	06/01/90	07/20/90	07/20/90	07/20/90
<i>Units:</i>	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds					
Benzene	ND100	ND100	ND100	ND100	ND100
Toluene	ND100	ND100	ND100	ND100	ND100
Trichloroethylene	ND100	ND100	ND100	ND100	ND100
Tetrachloroethylene	ND100	ND100	ND100	ND100	ND100
Monochlorobenzene	ND100	ND100	ND100	ND100	ND100
2-Monochlorotoluene	ND100	ND100	ND100	ND100	ND100
4-Monochlorotoluene	ND100	ND100	ND100	ND100	ND100
2-Chlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND100
4-Chlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND100
1,2-Dichlorobenzene	ND100	ND100	ND100	ND100	ND100
1,4-Dichlorobenzene	ND100	ND100	ND100	ND100	ND100
2,4-Dichlorotoluene	ND100	ND100	ND100	ND100	ND100
2,5-Dichlorotoluene	ND100	ND100	ND100	ND100	ND100
2,6-Dichlorotoluene	ND100	ND100	ND100	ND100	ND100
3,4-Dichlorotoluene	ND100	ND100	ND100	ND100	ND100
2,4-Dichlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND100
3,4-Dichlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND100
Semi-Volatile Organic Compounds					
1,2,3-Trichlorobenzene	ND100	ND100	ND100	ND100	ND100
1,2,4-Trichlorobenzene	ND100	ND100	ND100	ND100	ND100
1,2,3,4-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND100
1,2,4,5-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND100
Pentachlorobenzene	ND100	ND100	ND100	ND100	ND100
Hexachlorobenzene	ND100	ND100	ND100	ND100	ND100
alpha-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100
beta-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100
gamma-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100
delta-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100
2,4-Dichlorophenol	ND100	ND100	ND100	ND100	ND100
2,5-Dichlorophenol	ND100	ND100	ND100	ND100	ND100
2,4,5-Trichlorophenol	ND100	ND100	ND100	ND100	ND100
2,4,6-Trichlorophenol	ND100	ND100	ND100	ND100	ND100
Hexachlorobutadiene	ND100	ND100	ND100	ND100	ND100
Hexachlorocyclopentadiene	ND100	ND100	ND100	ND100	ND100
Octachlorocyclopentene	ND100	ND100	ND100	ND100	ND100
Perchlorocyclopentadecane (Mirex)	ND100	ND100	ND100	ND100	ND100

TABLE A.3
ANALYTICAL DATA - DATA COLLECTION PROGRAM
10500 CAYUGA DRIVE

Notes:

NDx Compound not detected at the limit specified

* Duplicate of sample NCC-23.

** Duplicate of sample NCC-24.

*** Duplicate of sample NCC-42.

**** Duplicate of sample NCC-51.

***** Duplicate of sample NCC-59.

TABLE A.4
ANALYTICAL DATA - RESIDENTIAL PROPERTIES
10500 CAYUGA DRIVE

Sample Location:	1335-1	1335-1	1335-2	1335-2	1335-3	1335-3	1335-4	1335-4	1335-5	1335-5	1335-6
Sample Depth (Ft.):	0-0.5	0.5-4.5	0-0.5	0.5-4.5	0-0.5	0.5-4.5	0-0.5	0.5-4.5	0-0.5	0.5-4.5	0-0.5
Sample Date:	07/20/90	07/20/90	07/20/90	07/20/90	07/20/90	07/20/90	07/20/90	07/20/90	07/20/90	07/20/90	07/20/90
Units:	ug/Kg										
Volatile Organic Compounds											
Benzene	ND100										
Toluene	ND100	ND100	ND100	ND100	370	ND100	ND100	ND100	ND100	270	ND100
Trichloroethylene	ND100										
Tetrachloroethylene	ND100										
Monochlorobenzene	ND100										
2-Monochlorotoluene	ND100										
4-Monochlorotoluene	ND100										
2-Chlorobenzotrifluoride	ND100										
4-Chlorobenzotrifluoride	ND100										
1,2-Dichlorobenzene	ND100	ND100	220	ND100							
1,4-Dichlorobenzene	ND100	ND100	260	ND100							
2,4-Dichlorotoluene	ND100										
2,5-Dichlorotoluene	ND100										
2,6-Dichlorotoluene	ND100										
3,4-Dichlorotoluene	ND100										
2,4-Dichlorobenzotrifluoride	ND100										
3,4-Dichlorobenzotrifluoride	ND100										
Semi-Volatile Organic Compounds											
1,2,3-Trichlorobenzene	ND100	160	ND100	ND100	ND100	420	ND100	ND100	ND100	490	ND100
1,2,4-Trichlorobenzene	ND100	440	ND100	ND100	ND100	1400	ND100	ND100	ND100	1600	ND100
1,2,3,4-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND100	120	ND100	ND100	ND100	140	ND100
1,2,4,5-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND100	110	ND100	ND100	ND100	180	ND100
Pentachlorobenzene	ND100										
Hexachlorobenzene	ND100	410	ND100	ND100	ND100	590	ND100	ND100	ND100	880	ND100
alpha-Hexachlorocyclohexane (BHC)	ND100										
beta-Hexachlorocyclohexane (BHC)	ND100										
gamma-Hexachlorocyclohexane (BHC)	ND100										
delta-Hexachlorocyclohexane (BHC)	ND100										
2,4-Dichlorophenol	ND100										
2,5-Dichlorophenol	ND100										
2,4,5-Trichlorophenol	ND100	ND100	ND100	ND100	ND100	160	ND100	ND100	ND100	ND100	ND100
2,4,6-Trichlorophenol	ND100										
Hexachlorobutadiene	ND100	ND100	ND100	ND100	ND100	120	ND100	ND100	ND100	280	ND100
Hexachlorocyclopentadiene	ND100										
Octachlorocyclopentene	ND100										
Perchlorocyclopentadecane (Mirex)	ND100										

TABLE A.4
ANALYTICAL DATA - RESIDENTIAL PROPERTIES
10500 CAYUGA DRIVE

Sample Location:	1335-6	1335-7	1335-7	1335-8	1335-8	1335-9*	1335-10	1335-10	1335-11	1335-11	1335-12
Sample Depth (Ft.):	0.5-4.5	0-0.5	0.5-4.5	0-0.5	0.5-4.5	0.5-4.5	0-0.5	0.5-3.5	0-0.5	0.5-4.0	0-0.5
Sample Date:	07/20/90	07/20/90	07/20/90	07/20/90	07/20/90	07/20/90	01/03/91	01/03/91	01/03/91	01/03/91	01/03/91
Units:	ug/Kg										
Volatile Organic Compounds											
Benzene	ND100										
Toluene	ND100	ND100	1800	ND100	ND100	160	ND100	ND100	ND100	ND100	ND100
Trichloroethylene	ND100										
Tetrachloroethylene	ND100	ND100	200	ND100							
Monochlorobenzene	ND100										
2-Monochlorotoluene	ND100										
4-Monochlorotoluene	ND100										
2-Chlorobenzotrifluoride	ND100										
4-Chlorobenzotrifluoride	ND100										
1,2-Dichlorobenzene	1600	ND100	1800	ND100							
1,4-Dichlorobenzene	ND100										
2,4-Dichlorotoluene	ND100										
2,5-Dichlorotoluene	ND100										
2,6-Dichlorotoluene	ND100										
3,4-Dichlorotoluene	ND100										
2,4-Dichlorobenzotrifluoride	ND100										
3,4-Dichlorobenzotrifluoride	ND100										
Semi-Volatile Organic Compounds											
1,2,3-Trichlorobenzene	180	ND100	100	ND100							
1,2,4-Trichlorobenzene	580	ND100	270	ND100	180	200	ND100	ND100	ND100	ND100	ND100
1,2,3,4-Tetrachlorobenzene	ND100										
1,2,4,5-Tetrachlorobenzene	ND100										
Pentachlorobenzene	ND100										
Hexachlorobenzene	460	ND100	290	ND100	ND100	200	ND100	ND100	ND100	ND100	ND100
alpha-Hexachlorocyclohexane (BHC)	ND100										
beta-Hexachlorocyclohexane (BHC)	ND100										
gamma-Hexachlorocyclohexane (BHC)	ND100										
delta-Hexachlorocyclohexane (BHC)	ND100										
2,4-Dichlorophenol	ND100										
2,5-Dichlorophenol	ND100										
2,4,5-Trichlorophenol	ND100										
2,4,6-Trichlorophenol	ND100										
Hexachlorobutadiene	ND100										
Hexachlorocyclopentadiene	ND100										
Octachlorocyclopentene	ND100										
Perchlorocyclopentadecane (Mirex)	ND100										

TABLE A.4
ANALYTICAL DATA - RESIDENTIAL PROPERTIES
10500 CAYUGA DRIVE

Sample Location:	1335-12	1335-13	1335-13	1335-14	1335-14	1335-15**	1335-20	1335-21	1335-22***	1335
Sample Depth (Ft.):	0.5-4.0	0-0.5	0.5-4.0	0-0.5	0.5-4.0	0.5-3.5	0.0-4.0	0.0-3.0	0.0-4.0	SUMP
Sample Date:	01/03/91	01/03/91	01/03/91	01/03/91	01/03/91	01/03/91	4/13/92	04/13/92	04/13/92	01/03/91
Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L
Volatile Organic Compounds										
Benzene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
Toluene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
Trichloroethylene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
Tetrachloroethylene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
Monochlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
2-Monochlorotoluene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
4-Monochlorotoluene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
2-Chlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
4-Chlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
1,2-Dichlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
1,4-Dichlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
2,4-Dichlorotoluene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
2,5-Dichlorotoluene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
2,6-Dichlorotoluene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
3,4-Dichlorotoluene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
2,4-Dichlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
3,4-Dichlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
Semi-Volatile Organic Compounds										
1,2,3-Trichlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
1,2,4-Trichlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
1,2,3,4-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
1,2,4,5-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
Pentachlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
Hexachlorobenzene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
alpha-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
beta-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
gamma-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
delta-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
2,4-Dichlorophenol	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
2,5-Dichlorophenol	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
2,4,5-Trichlorophenol	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND10
2,4,6-Trichlorophenol	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
Hexachlorobutadiene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
Hexachlorocyclopentadiene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
Octachlorocyclopentene	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1
Perchlorocyclopentadecane (Mirex)	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND100	ND1

TABLE A.4
ANALYTICAL DATA - RESIDENTIAL PROPERTIES
10500 CAYUGA DRIVE

Sample Location:	1331-1	1331-1	1331-2	1331-2	1331-3	1331-3	1331-4	1331-4	1331-5	1331-5	1331-6
Sample Depth (Ft.):	0-0.5	0.5-4.5	0-0.5	0.5-4.5	0-0.5	0.5-4.5	0-0.5	0.5-4.5	0-0.5	0.5-4.5	0-0.5
Sample Date:	01/09/91	01/09/91	01/09/91	01/09/91	01/09/91	01/09/91	01/09/91	01/09/91	01/10/91	01/10/91	01/10/91
Units:	ug/Kg										
Volatile Organic Compounds											
Benzene	ND100										
Toluene	ND100										
Trichloroethylene	ND100										
Tetrachloroethylene	ND100	120	ND100								
Monochlorobenzene	ND100										
2-Monochlorotoluene	ND100										
4-Monochlorotoluene	ND100										
2-Chlorobenzotrifluoride	ND100										
4-Chlorobenzotrifluoride	ND100										
1,2-Dichlorobenzene	ND100										
1,4-Dichlorobenzene	ND100										
2,4-Dichlorotoluene	ND100										
2,5-Dichlorotoluene	ND100										
2,6-Dichlorotoluene	ND100										
3,4-Dichlorotoluene	ND100										
2,4-Dichlorobenzotrifluoride	ND100										
3,4-Dichlorobenzotrifluoride	ND100										
Semi-Volatile Organic Compounds											
1,2,3-Trichlorobenzene	ND100										
1,2,4-Trichlorobenzene	ND100	130	ND100								
1,2,3,4-Tetrachlorobenzene	ND100										
1,2,4,5-Tetrachlorobenzene	ND100										
Pentachlorobenzene	ND100										
Hexachlorobenzene	ND100										
alpha-Hexachlorocyclohexane (BHC)	ND100										
beta-Hexachlorocyclohexane (BHC)	ND100										
gamma-Hexachlorocyclohexane (BHC)	ND100										
delta-Hexachlorocyclohexane (BHC)	ND100										
2,4-Dichlorophenol	ND100	510	ND100	750	ND100	ND100	ND100	ND100	ND100	330	ND100
2,5-Dichlorophenol	ND100										
2,4,5-Trichlorophenol	ND100										
2,4,6-Trichlorophenol	ND100										
Hexachlorobutadiene	ND100										
Hexachlorocyclopentadiene	ND100										
Octachlorocyclopentene	ND100										
Perchlorocyclopentadecane (Mirex)	ND100										

TABLE A.4
ANALYTICAL DATA - RESIDENTIAL PROPERTIES
10500 CAYUGA DRIVE

Sample Location:	1331-6	1331-7	1331-7	1331-8	1331-8	1331-9	1331-9	1331-10	1331-10	1331-11	1331-11
Sample Depth (Ft.):	0.5-4.5	0-0.5	0.5-4.5	0-0.5	0.5-4.0	0-0.5	0.5-5.0	0-0.5	0.5-4.5	0-0.5	0.5-4.5
Sample Date:	01/10/91	01/09/91	01/09/91	01/08/91	01/08/91	01/08/91	01/08/91	01/10/91	01/10/91	01/08/91	01/08/91
Units:	ug/Kg										
Volatile Organic Compounds											
Benzene	ND100										
Toluene	ND100										
Trichloroethylene	ND100										
Tetrachloroethylene	ND100										
Monochlorobenzene	ND100										
2-Monochlorotoluene	ND100										
4-Monochlorotoluene	ND100										
2-Chlorobenzotrifluoride	ND100										
4-Chlorobenzotrifluoride	ND100										
1,2-Dichlorobenzene	ND100										
1,4-Dichlorobenzene	ND100										
2,4-Dichlorotoluene	ND100										
2,5-Dichlorotoluene	ND100										
2,6-Dichlorotoluene	ND100										
3,4-Dichlorotoluene	ND100										
2,4-Dichlorobenzotrifluoride	ND100										
3,4-Dichlorobenzotrifluoride	ND100										
Semi-Volatile Organic Compounds											
1,2,3-Trichlorobenzene	ND100										
1,2,4-Trichlorobenzene	120	ND100									
1,2,3,4-Tetrachlorobenzene	390	ND100									
1,2,4,5-Tetrachlorobenzene	ND100										
Pentachlorobenzene	ND100										
Hexachlorobenzene	ND100										
alpha-Hexachlorocyclohexane (BHC)	ND100										
beta-Hexachlorocyclohexane (BHC)	760	ND100									
gamma-Hexachlorocyclohexane (BHC)	ND100										
delta-Hexachlorocyclohexane (BHC)	ND100										
2,3-Dichlorophenol	ND100										
2,4-Dichlorophenol	ND100										
2,4,5-Trichlorophenol	ND100										
2,4,6-Trichlorophenol	ND100										
Hexachlorobutadiene	ND100										
Hexachlorocyclopentadiene	ND100										
Octachlorocyclopentene	ND100										
Perchlorocyclopentadecane (Mirex)	ND100										

TABLE A.4
ANALYTICAL DATA - RESIDENTIAL PROPERTIES
10500 CAYUGA DRIVE

Sample Location:	1331-12	1331-12	1331-13****	1331-14*****	1331	1327-1	1327-2	1341-1	1341-2
Sample Depth (Ft.):	0-0.5	0.5-5.0	0.5-5.0	0.5-4.5	SUMP	0-4.5	0-4.0	0-1.9	0-4.5
Sample Date:	01/08/91	01/08/91	01/08/91	01/09/91	1/8/91	6/10/92	6/10/92	6/10/92	6/10/92
Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/kg	ug/kg	ug/kg	ug/kg
Volatile Organic Compounds									
Benzene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
Toluene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
Trichloroethylene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
Tetrachloroethylene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
Monochlorobenzene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
2-Monochlorotoluene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
4-Monochlorotoluene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
2-Chlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
4-Chlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
1,2-Dichlorobenzene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
1,4-Dichlorobenzene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
2,4-Dichlorotoluene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
2,5-Dichlorotoluene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
2,6-Dichlorotoluene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
3,4-Dichlorotoluene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
2,4-Dichlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
3,4-Dichlorobenzotrifluoride	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
Semi-Volatile Organic Compounds									
1,2,3-Trichlorobenzene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
1,2,4-Trichlorobenzene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
1,2,3,4-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
1,2,4,5-Tetrachlorobenzene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
Pentachlorobenzene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
Hexachlorobenzene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
alpha-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
beta-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
gamma-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
delta-Hexachlorocyclohexane (BHC)	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
2,4-Dichlorophenol	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
2,5-Dichlorophenol	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
2,4,5-Trichlorophenol	ND100	ND100	ND100	ND100	ND10	ND100	ND100	ND100	ND100
2,4,6-Trichlorophenol	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
Hexachlorobutadiene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
Hexachlorocyclopentadiene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
Octachlorocyclopentene	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100
Perchlorocyclopentadecane (Mirex)	ND100	ND100	ND100	ND100	ND1	ND100	ND100	ND100	ND100

TABLE A.4
ANALYTICAL DATA - RESIDENTIAL PROPERTIES
10500 CAYUGA DRIVE

Notes:

- NDx Compound not detected at the limit specified
- * Duplicate of 1335-7.
- ** Duplicate of sample 1335-10.
- *** Duplicate of sample 1335-20.
- **** Duplicate of sample 1331-9.
- ***** Duplicate of sample 1331-3.

TABLE A.5
WASTE CHARACTERIZATION DATA
10500 CAYUGA DRIVE

Sample Date:				4/13/92	4/13/92
Sample Description:				1331-TCLP	1335-TCLP
	Units:	Method Detection Limit:	Regulatory Level*		
TCLP Volatiles					
Benzene	mg/L	0.05	0.5	ND	ND
Carbon Tetrachloride	mg/L	0.05	0.5	ND	ND
Chlorobenzene	mg/L	0.05	100	ND	ND
Chloroform	mg/L	0.05	6.0	ND	ND
1,2-Dichloroethane	mg/L	0.05	0.5	ND	ND
1,1-Dichloroethylene	mg/L	0.05	0.7	ND	ND
Methyl Ethyl Ketone	mg/L	0.1	200	ND	ND
Tetrachloroethene	mg/L	0.05	0.7	ND	ND
Trichloroethene	mg/L	0.05	0.5	ND	ND
Vinyl Chloride	mg/L	0.1	0.2	ND	ND
TCLP Semi-Volatiles					
O-Cresol	mg/L	0.03	200	ND	ND
m/p-Cresol	mg/L	0.03	200	ND	ND
1,4-Dichlorobenzene	mg/L	0.03	7.5	ND	ND
2,4-Dinitrotoluene	mg/L	0.03	0.13	ND	ND
Hexachlorobenzene	mg/L	0.03	0.13	ND	ND
Hexachlorobutadiene	mg/L	0.03	0.52	ND	ND
Hexachloroethane	mg/L	0.03	3.0	ND	ND
Nitrobenzene	mg/L	0.03	2.0	ND	ND
Pentachlorophenol	mg/L	0.2	100	ND	ND
Pyridine	mg/L	0.03	5.0	ND	ND
2,4,5-Trichlorophenol	mg/L	0.2	400	ND	ND
2,4,6-Trichlorophenol	mg/L	0.03	2.0	ND	ND
TCLP Pesticides/Herbicides					
Chlorodane	mg/L	0.0017	0.03	ND	ND
Endrin	mg/L	0.0003	0.02	ND	ND
Heptachlor	mg/L	0.0002	0.008	ND	ND
Heptachlor epoxide	mg/L	0.0002	0.008	ND	ND
Lindane	mg/L	0.0002	0.4	ND	ND
Methoxychlor	mg/L	0.0007	10.0	ND	ND
Toxaphene	mg/L	0.0067	0.5	ND	ND
2,4-D	mg/L	0.0002	10.0	ND	ND
2,4,5-TP	mg/L	0.0002	1.0	ND	ND
TCLP Metals					
Total Arsenic	mg/L	0.005	5.0	ND	ND
Total Barium	mg/L	0.03	100.0	0.75	0.77
Total Cadmium	mg/L	0.01	1.0	0.02	0.024
Total Chromium	mg/L	0.01	5.0	0.016	0.023
Total Lead	mg/L	0.003	5.0	0.014J	0.009J
Total Mercury	mg/L	0.0002	0.2	ND	ND
Total Selenium	mg/L	0.005	1.0	ND	ND
Total Silver	mg/L	0.01	5.0	ND	ND

Notes:

- J The associated value is estimated indicating a low bias.
- * Maximum concentration for the Toxicity Characteristic, 40 CFR 261.24.

APPENDIX B

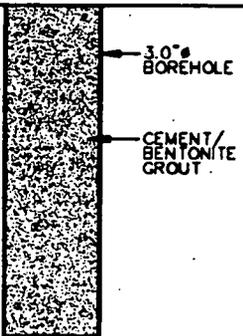
STRATIGRAPHIC LOGS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-01)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-14
 DATE COMPLETED: MARCH 5, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt and sub-base gravel. Brown CLAY with some fine to coarse sand, trace wood, dry, FILL		 <p style="font-size: small;">3.0" BOREHOLE CEMENT/BENTONITE GROUT</p>	(1SS)	X	36	
2.0	Brown to gray CLAY, some sand, trace brick, slag and gravel, moist, slight chemical odor					X	
3.0	Gray mottled CLAY, some silt and fine sand, moist, NATIVE	-2.8			(2SS)	X	30
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.	-3.5					
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-02)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-15

PROJECT NO.: 3307

DATE COMPLETED: MARCH 5, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Brown fine to coarse SAND, some fine to coarse angular gravel, dry, FILL		 <p style="font-size: small;">3.0" BOREHOLE CEMENT/ BENTONITE GROUT</p>	(1SS)	X	35	
2.0	Dark gray CLAY, trace fine angular gravel, moist, slight chemical odor Same with trace brown resinous material, moist, slight chemical odor	-1.4 -2.1			(2SS)	X	30
3.0	Same with trace silt and plant roots, moist, NATIVE	-3.2					
4.0	END OF HOLE @ 3.2 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.2 to 3.2 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.						
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-03)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-16
 DATE COMPLETED: MARCH 5, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Brown SAND, trace fine to coarse angular gravel, dry, FILL Black CLAY, some sand, trace gravel, slag and coal, moist to wet	-0.3	 <p>3.0" BOREHOLE CEMENT/BENTONITE GROUT</p>	(1SS)	X	27	
2.0	Dark gray SAND, some fine gravel, wet	-1.7		X			
3.0	Gray CLAY, some fine sand and silt, trace roots, moist, NATIVE Green-gray mottled CLAY with trace silt and roots, moist	-2.2		X	(2SS)	X	28
4.0	END OF HOLE @ 3.2 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.2 to 3.2 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.	-3.2		X			
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-04)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-17
 DATE COMPLETED: MARCH 5, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Gray SAND, trace brick and gravel, moist, FILL		 <p style="margin: 0;">← 3.0" BOREHOLE</p> <p style="margin: 0;">← CEMENT/BENTONITE GROUT</p>	(1SS)	X	44	
2.0	Black to red-brown CLAY, some sand, trace weathered concrete, metal, wood and coal, moist Same, moist	-1.4		(2SS)	X	28	
3.0	Gray mottled CLAY, trace silt and fine sand, moist, NATIVE	-3.1					
4.0	END OF HOLE @ 3.5 FT. BGS	-3.5					
5.0	NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.						
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

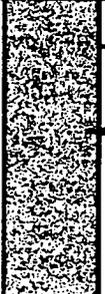
CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-05)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-18
 DATE COMPLETED: MARCH 5, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Brown SAND, some clay, trace rounded fine gravel, wet, FILL		 <p style="font-size: small;">3.0" BOREHOLE CEMENT/ BENTONITE GROUT</p>	(1SS)	X	33
2.0	Same	-2.1		(2SS)	X	32
3.0	Dark gray CLAY, some silt, moist, NATIVE Green-gray mottled CLAY, some silt and fine sand, moist	-3.1				
4.0	END OF HOLE @ 3.1 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.1 to 3.1 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.					
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS
 WATER FOUND ∇
 STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-06)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-19
 DATE COMPLETED: MARCH 5, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Black SAND, some silt, trace concrete, brick coal, slag, dry to moist, FILL, slight chemical odor		 <p>3.0" BOREHOLE CEMENT/ BENTONITE GROUT</p>	(1SS)	X	34	
2.0	Red-brown CLAY, some concrete and gravel, moist Same, moist	-1.6 -2.1				X	
3.0	Dark gray SILT, some concrete and gravel, moist	-2.6			(2SS)	X	54
4.0	Gray/green mottled CLAY, some fine sand and silt, moist, NATIVE	-3.5					
5.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.						
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-07)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-20
 DATE COMPLETED: MARCH 5, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Brown SAND, some fine to coarse angular gravel, moist, FILL		 <p>3.0" Ø BOREHOLE</p> <p>CEMENT/BENTONITE GROUT</p>	(1SS)	X	64
	Black SILT, moist	-1.2				
2.0	Brown SAND, some fine gravel, trace slag, moist Same without slag and gravel, dry to moist	-1.6 -2.0				
3.0	Gray CLAY, some silt and fine sand, dry to moist, NATIVE Gray-green mottled CLAY, some silt and sand, dry to moist	-3.3		(2SS)	X	38
4.0	END OF HOLE @ 3.3 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.3 to 3.3 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.					
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

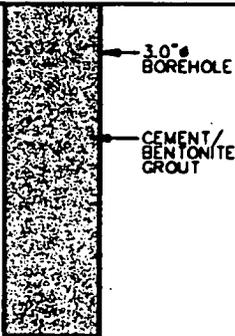
STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-08)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-21
 DATE COMPLETED: MARCH 5, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Gray CLAY, some glass, trace coal, metal, wood and rounded white fine gravel, moist, FILL		 <p style="font-size: small;">3.0" BOREHOLE CEMENT/ BENTONITE GROUT</p>	(1SS)	X	72	
2.0	White, rounded fine GRAVEL, some gray clay, moist Same	-1.8				X	
3.0	Dark gray mottled CLAY, some silt, moist, NATIVE	-2.5			(2SS)	X	30
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.	-3.5					
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

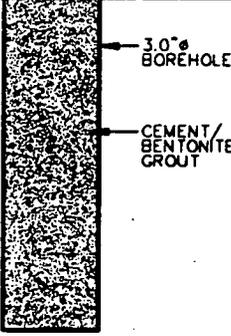
STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-09)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-22
 DATE COMPLETED: MARCH 5, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUCLE R NUMBER	STA TE	VA LUE	
1.0	Auger through asphalt Gray fine to coarse GRAVEL, some sand, FILL Some CLAY, some gravel, trace brick, moist	-0.7	 <p style="font-size: small;">3.0" Ø BOREHOLE CEMENT/ BENTONITE GROUT</p>	(1SS)	X	49	
2.0	Same, no brick, moist				X		
3.0	Dark to light gray mottled CLAY, some silt and fine sand, moist, NATIVE	-2.6			(2SS)	X	39
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.	-3.5				X	
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-10)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-23

PROJECT NO.: 3307

DATE COMPLETED: MARCH 6, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Gray SAND, some gravel, dry, FILL			(1SS)	X	90
2.0	Dark gray CLAY, some sand and fine to coarse gravel, moist Same, moist	-1.5		(2SS)	X	103
3.0	Same with some silt, moist, NATIVE Light gray mottled, same, some fine sand and silt, moist Same with some silt and trace fine subround gravel, moist	-2.2				
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Duplicate soil sample collected and submitted as NCC-34. 3. Borehole backfilled to surface with cement/bentonite grout.	-3.5				
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-11)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-24
 DATE COMPLETED: MARCH 5, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Dark gray mottled CLAY, some fine to coarse gravel, moist, FILL		 <p style="font-size: small;">3.0" BOREHOLE CEMENT/BENTONITE GROUT</p>	(1SS)	X	56	
2.0	White rounded fine GRAVEL, some clay, moist Same	-1.9				X	
3.0	Gray mottled CLAY, some silt, moist, NATIVE	-2.7			(2SS)	X	29
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Duplicate soil sample collected and submitted for chemical analysis as NCC-33. 3. Borehole backfilled to surface with cement/bentonite grout.	-3.5					
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○
 WATER FOUND ∇
 STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-12)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-25
 DATE COMPLETED: MARCH 6, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Dark gray CLAY, some fine gravel, moist, FILL			(1SS)	X	76	
2.0	Same, moist			(2SS)	X	80	
3.0	Same without gravel, moist, NATIVE Light gray mottled CLAY, moist Brown CLAY, some fine to coarse sand, moist	-2.6					
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.	-3.5					
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

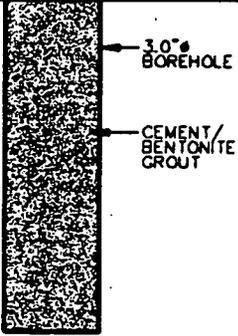
STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-13)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-26
 DATE COMPLETED: MARCH 5, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				DEPTH	STATE	VALUE
1.0	Auger through asphalt Gray SILT, some clay and fine to coarse gravel, trace coal, moist, FILL		 <p>3.0" BOREHOLE CEMENT/BENTONITE GROUT</p>			
2.0	Gray CLAY, trace gravel, moist Same, moist	-1.4		1SS	X	57
3.0	Same with some white rounded gravel, moist Gray mottled CLAY, some silt, moist, NATIVE	-3.0		2SS	X	47
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.	-3.5				
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-14)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-27

PROJECT NO.: 3307

DATE COMPLETED: MARCH 6, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Brown SILT, some fine to coarse gravel and sand, trace weathered concrete, moist, FILL		 <p style="font-size: small;">3.0" BOREHOLE CEMENT/ BENTONITE GROUT</p>			
2.0	Dark gray CLAY, some silt, trace white rounded fine gravel, moist Same	-1.1		(1SS)	X	64
3.0	White fine rounded GRAVEL, some clay, moist Same except wet Same	-3.1 -3.6		(2SS)	X	75
4.0	Gray mottled CLAY, some silt, moist, NATIVE	-4.0		(3SS)	X	
4.0	END OF HOLE @ 4 FT. BGS					
5.0	NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 4.0 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.					
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND: ▽

STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-15)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-28
 DATE COMPLETED: MARCH 6, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Brown SAND, some fine to coarse angular gravel, dry, FILL				X	
2.0	Gray CLAY, some silt and white fine rounded gravel, moist Red-brown same, moist Same, moist	-1.5		(1SS)	X	30
3.0	Dark gray CLAY, some silt, moist, NATIVE Light gray mottled CLAY, moist	-2.8		(2SS)	X	35
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.	-3.5				
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-16)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-29
 DATE COMPLETED: MARCH 6, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Light gray SAND, some weathered concrete, trace gravel, moist, FILL		 <p style="margin-left: 20px;">3.0" Ø BOREHOLE</p> <p style="margin-left: 20px;">CEMENT/BENTONITE GROUT</p>	(1SS)	X	60	
2.0	Gray-brown CLAY, some sand, trace gravel, moist Same, moist	-1.6			X		
3.0	Dark gray CLAY, some silt, moist, NATIVE Light gray mottled CLAY, moist	-2.7			(2SS)	X	43
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout.	-3.5					
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

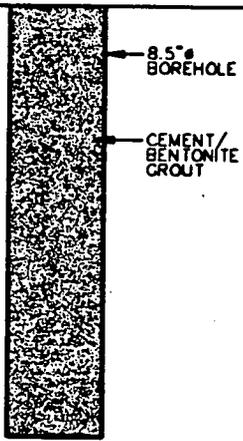
STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-17)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-30
 DATE COMPLETED: MARCH 6, 1990
 DRILLING METHOD: 4 1/4" ID HSA
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger to 2.5 ft. BGS through fine to coarse angular gravel and sand fill		 <p style="font-size: small;">8.5" BOREHOLE CEMENT/BENTONITE GROUT</p>			
2.0	Gray and tan SAND, some fine to coarse angular gravel, dry to moist, FILL					
3.0						
4.0					(ISS)	72
4.0	Gray SILT, some clay, dry to moist	-4.1				
4.5	Red/brown CLAY, some silt, dry to moist, NATIVE	-4.3				
5.0	END OF HOLE @ 4.5 FT. BGS	-4.5				
6.0	NOTES: 1. Soil sample NCC-30 collected for chemical analysis from 3.0 to 3.8 ft. BGS. Soil sample NCC-30a collected for chemical analysis from 3.8 to 4.5 ft. BGS.					
7.0	2. Borehole backfilled to surface with cement/bentonite grout.					
8.0	3. Borehole was located in area excavated in November 1989.					
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-18)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-31
 DATE COMPLETED: MARCH 6, 1990
 DRILLING METHOD: 4 1/4" ID HSA
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through fine to coarse gravel and sand fill					
2.0	Brown SAND, some gray fine to coarse angular gravel, dry, FILL					
3.0						
4.0	Gray fine to coarse angular GRAVEL, some gray and red-brown clay, wet, FILL				1SS	40
5.0					2SS	
6.0	END OF HOLE @ 5 FT. BGS NOTES: 1. Soil sample NCC-31 collected for chemical analysis from 2.5 to 4.5 ft. BGS. Soil sample NCC-31a collected for chemical analysis from 4.5 to 5.0 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout. 3. Borehole was located in area excavated in November 1989.	-5.0				
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS WATER FOUND STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-19)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-32

PROJECT NO.: 3307

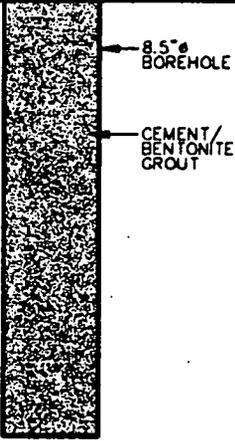
DATE COMPLETED: MARCH 6, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 4 1/4" ID HSA

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through fine to coarse angular gravel and sand fill		 <p style="font-size: small;">8.5" BOREHOLE CEMENT/BENTONITE GROUT</p>	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">155</div>	<div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">X</div> </div>	52
2.0	Light gray SAND, some gravel, dry, FILL					
3.0						
4.0	Dark gray mottled CLAY, some silt and fine sand, moist, NATIVE Red-brown mottled Same, some silt and fine sand, moist	-3.7 -4.5				
5.0	END OF HOLE @ 4.5 FT. BGS NOTES: 1. Soil sample NCC-32 collected for chemical analysis from 3.0 to 3.5 ft. BGS. Soil sample NCC-32a collected for chemical analysis from 3.5 to 4.0 ft. BGS. 2. Borehole backfilled to surface with cement/bentonite grout. 3. Borehole was located in area excavated in November 1989.					
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

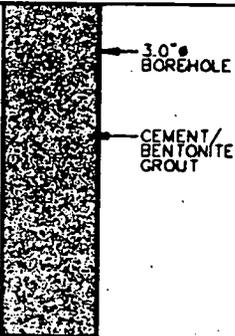
CHEMICAL ANALYSIS WATER FOUND ∇ STATIC WATER LEVEL ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-20)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-35
 DATE COMPLETED: MARCH 14, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Brown to gray GRAVEL, some fine to coarse sand and clay, trace asphalt and coal, FILL		 <p style="font-size: small;">3.0" BOREHOLE CEMENT/BENTONITE GROUT</p>	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 5px;">1SS</div>	<div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black; width: 100%; height: 100%;"></div> </div>	34
2.0	Same, except moist to wet					
3.0	Red brown mottled CLAY, some silt, dry to moist	-2.7				
	Green-brown SILT, some fine sand, trace sub-rounded gravel, moist	-3.0 -3.2 -3.5				
4.0	Dark gray mottled CLAY, dry to moist, NATIVE END OF HOLE @ 3.5 FT. BGS			<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 5px;">2SS</div>	<div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black; width: 100%; height: 100%;"></div> </div>	24
5.0	NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout.					
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS
 WATER FOUND ∇
 STATIC WATER LEVEL ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-21)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-36
 DATE COMPLETED: MARCH 14, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Gray GRAVEL, some sand, red-brown clay and wood, wet, FILL		 <p style="font-size: small;">3.0" BOREHOLE CEMENT/BENTONITE GROUT</p>	(1SS)	X	33	
2.0	Same, with some fine sand			(2SS)	X	22	
3.0				(3SS)	X	30	
4.0	Light gray mottled CLAY, some silt, trace rounded gravel, dry to moist, Native Red brown CLAY, dense, dry to moist	-3.8					
5.0	END OF HOLE @ 5 FT. BGS	-5.0					
6.0	NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.8 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout.						
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-22)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-37
 DATE COMPLETED: MARCH 14, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Gray SAND, some fine to coarse angular gravel, dry to moist, FILL	-0.5	 <p>3.0" BOREHOLE CEMENT/BENTONITE GROUT</p>			
2.0	Gray and red brown CLAY, some gravel, trace coal, cobbles and metal, moist	-1.2		(1SS)	X	30
3.0	Gray mottled CLAY, moist, NATIVE	-3.1		(2SS)	X	30
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout.	-3.5				
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-23)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-38

PROJECT NO.: 3307

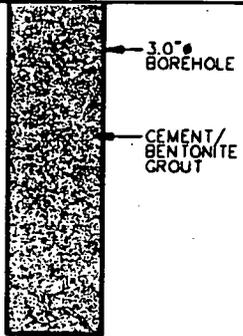
DATE COMPLETED: MARCH 14, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Dark gray SAND, some clay and silt, trace fine to coarse gravel, clinkers and weathered concrete, moist, FILL	-0.5	 <p style="font-size: small;">3.0" BOREHOLE CEMENT/ BENTONITE GROUT</p>	(1SS)	X	22	
2.0							
3.0	Gray CLAY, trace vegetation (roots), moist Same, with cobbles Light gray mottled CLAY, moist, NATIVE	-2.3 -2.5			(2SS)	X	26
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout.	-3.5					
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-24)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-39
 DATE COMPLETED: MARCH 14, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Dark brown to gray SAND, some fine gravel, trace coarse gravel, moist, FILL	-0.5				
2.0	Dark gray SILT, some sand, weathered concrete and brick, moist	-2.1				
3.0	Dark gray SILT, some fine sand, weathered concrete and brick, moist, NATIVE	-2.8				
3.5	Light gray mottled CLAY, some silt, moist	-3.5				
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout.					
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-25)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-40

PROJECT NO.: 3307

DATE COMPLETED: MARCH 14, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Gray SAND, some fine gravel, trace brick, Wet, FILL	-0.5	 <p style="font-size: small;">3.0" BOREHOLE CEMENT/ BENTONITE GROUT</p>	(1SS)	X	21	
2.0	Gray and red brown CLAY, some silt, weathered concrete and cobbles, moist Same, with sand, weathered concrete and angular fine to coarse gravel, wet	-1.6		X	(2SS)	X	40
3.0	Gray mottled CLAY, some silt, dry, NATIVE	-2.8		X			
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout.	-3.5					
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-26)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-41

PROJECT NO.: 3307

DATE COMPLETED: MARCH 14, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
	Auger through asphalt					
1.0	Brown and gray SAND, some fine to coarse angular and white rounded gravel, wet, Fill Same, except dark gray with cobbles and wood	-0.5	 <p>3.0" BOREHOLE CEMENT/BENTONITE GROUT</p>	(1SS)	X	30
2.0	Gray CLAY, trace gravel, moist	-1.9		(2SS)	X	
3.0	Light gray mottled CLAY, dry, NATIVE	-3.1				26
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout.	-3.5				
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS WATER FOUND STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-27)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-42

PROJECT NO.: 3307

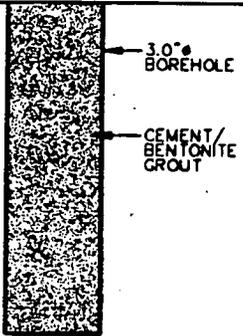
DATE COMPLETED: MARCH 14, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
	Auger through asphalt		 <p style="font-size: small;">3.0" Ø BOREHOLE CEMENT/BENTONITE GROUT</p>				
1.0	Brown to gray SAND, some weathered concrete cobbles, trace wood, silt and rounded white gravel, moist, FILL				(1SS)	X	42
2.0	Same, except gray					X	
3.0	Gray CLAY, some silt and fine sand, moist	-2.5			(2SS)	X	22
	Gray mottled CLAY, some silt, dry, NATIVE	-2.9				X	
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout. 3. Duplicate soil sample submitted for chemical analysis as NCC-43.	-3.5					
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-28)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-44
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
	Black SILT, some fine to coarse sand and vegetation, moist, TOPSOIL	-0.2				
-1.0	Gray fine to coarse SAND, some fine to coarse angular gravel, dry to moist, FILL	-0.8		1SS	X	28
-2.0	Red-brown CLAY, some fine to coarse angular gravel, trace sand, dense, hard, moist Same, with trace concrete and metal slag, trace wood				X	
-3.0	Gray mottled CLAY, some silt, soft, plastic, moist, NATIVE	-2.9		2SS	X	30
-4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.2 to 3.5 ft. BGS. 2. Borehole backfilled to surface with gravel and topsoil 3. Borehole located in grass off west edge of pavement	-3.5				
-5.0						
-6.0						
-7.0						
-8.0						
-9.0						
-10.0						
-11.0						
-12.0						
-13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE.

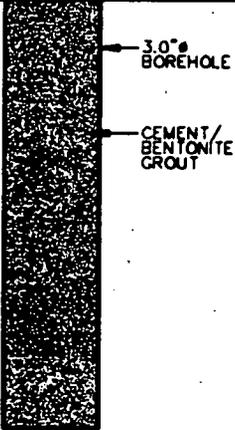
CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-29)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-45
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3"Ø SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Gray fine to coarse GRAVEL, some coarse sand dry, FILL		 <p style="font-size: small;">3.0"Ø BOREHOLE CEMENT/BENTONITE GROUT</p>	(1SS)	X	24	
2.0	Dark gray SILT, trace gravel and fine to coarse sand, (black tar on gravel), moist	-1.7 -2.0			(2SS)	X	27
3.0	Gray fine angular GRAVEL, trace fine to coarse sand, moist				(3SS)	X	31
4.0	Gray mottled CLAY, some silt, soft, plastic, moist, NATIVE	-3.5					
4.5	Same, except red-brown, fine to coarse sand, dense, very slightly plastic	-4.5					
5.0	END OF HOLE @ 4.5 FT. BGS						
6.0	NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 4.3 ft. BGS.						
7.0	2. Stratigraphy from 3.0 to 4.5 ft. from borehole 1 ft. east of original borehole.						
8.0	3. Borehole backfilled to surface with cement-bentonite grout and blacktop patch.						
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

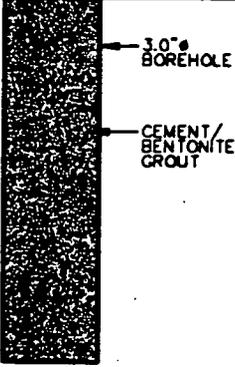
CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-30)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-46
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Gray fine to coarse SAND, some fine to coarse angular gravel, trace black tar, dry to moist, FILL		 <p style="font-size: small;">3.0" BOREHOLE CEMENT/BENTONITE GROUT</p>			
2.0	Red-brown mottled CLAY, some silt, fine to coarse sand, strongly laminated, moist, NATIVE	-1.2		(1SS)	X	21
3.0	Black fine to coarse SAND, some silt, moist, slight chemical odor Gray CLAY, trace silt, moist	-2.8 -3.1		(2SS)	X	38
4.0	END OF HOLE ● 3.8 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.2 to 3.8 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout. 3. Interval from 0.2 to 0.8 ft. BGS sampled by hand.	-3.8				
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

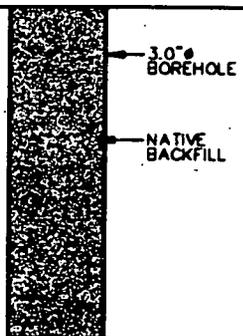
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-31)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-47
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3" ϕ SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Black SILT, some fine to coarse sand, fine angular gravel, vegetation, moist to wet, TOPSOIL	-0.6		(1SS)	 	18	
2.0	Red-brown CLAY, dry, FILL Same, except black, some fine to coarse sand, trace rounded white pebbles, some cinders and wood, dry to moist, chemical odor				 	 	
3.0	Same, except moist, chemical odor Same, except gray, some fine to coarse black sand layers, trace metal and glass slag, no pebbles, cinders or wood, moist to wet	-2.9			(2SS)	 	21
3.5	Gray mottled CLAY, some silt, dry to moist, NATIVE	-3.5			 	 	
4.0	END OF HOLE \odot 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.2 to 3.5 ft. BGS. 2. Borehole backfilled to surface with gravel and topsoil. 3. Borehole located in grass off west edge of pavement.						
5.0							
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 CHEMICAL ANALYSIS \circ WATER FOUND ∇ STATIC WATER LEVEL ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-32)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-48
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Black SILT, some fine to coarse sand, trace fine rounded white gravel, moist, TOPSOIL	-0.3		(1SS)	X	70
2.0	Dark gray SAND, some clay, fine round white gravel, moist, FILL Same, except black, some white pasty material, no clay or gravel, slight chemical odor			(2SS)	X	112/6"
3.0	Sampler refusal, no recovery, wood in shoe of split spoon sampler - augered to 3.0 ft. BGS Black SAND, some clay, fine round white gravel, moist to wet			(3SS)	X	18
4.0	Gray and brown mottled CLAY, some silt and fine to coarse sand, trace subrounded gravel, dry to moist, NATIVE	-4.0				
5.0	Same, except red-brown, no sand or gravel, dense, hard, dry	-5.0				
6.0	END OF HOLE @ 5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.2 to 4.8 ft. BGS. 2. Borehole backfilled to surface with gravel and top soil. 3. Borehole located in grass off west edge of pavement.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-33)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-49
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3" ϕ SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Auger through asphalt Gray fine to coarse angular GRAVEL, some fine to coarse sand, concrete pieces, trace fine rounded white gravel, moist to wet, FILL		 <p>3.0" ϕ BOREHOLE CEMENT/BENTONITE GROUT</p>	(1SS)	X	58	
2.0	Red-brown CLAY, some fine to coarse sub-rounded gravel, moist to wet Same, with trace brick	-2.0			X		
3.0	Gray and brown mottled CLAY, some silt, hard, dense, dry to moist, NATIVE	-3.0			(2SS)	X	45
4.0							
5.0	END OF HOLE @ 4.5 FT. BGS	-4.5					
6.0	NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 4.0 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout.						
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 CHEMICAL ANALYSIS ○ WATER FOUND STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-34)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-50
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3" ϕ SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE			
				NUM R B K	S T A T E	V A L U E	
1.0	Auger through asphalt Brown fine to coarse SAND, some fine to coarse angular gravel, trace clay, slag, coal and ash, moist, FILL		 <p style="font-size: small;">3.0" ϕ BOREHOLE CEMENT/BENTONITE GROUT</p>	(1SS)	X	58	
2.0					X		
3.0	Red-brown CLAY, some silt, hard, dense, dry to moist, <u>NATIVE</u>	-3.0				X	
4.0	Gray coarse SAND, trace shells, wet	-3.5			(2SS)	X	38
5.0	Gray CLAY, trace silt, soft, plastic, dry to moist	-3.8				X	
6.0	END OF HOLE @ 4.8 FT. BGS	-4.8					
7.0	NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 4.0 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout.						
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

WATER FOUND

STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-35)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-51
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3" ϕ SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Brown fine to coarse SAND, some fine to coarse angular gravel, dry to moist, FILL					
2.0	Red-brown CLAY, some silt, trace wood and glass slag, moist	-1.5		(1SS)	X	39
3.0	Gray mottled CLAY, some fine to coarse sand and silt, moist to wet, NATIVE	-3.1		(2SS)	X	37
4.0	END OF HOLE \odot 4 FT. BGS	-4.0				
5.0	NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Duplicate soil sample submitted for chemical analysis as NCC-56 at time 17:45 from 0.5 to 4.0 ft. BGS. 3. Borehole backfilled to surface with cement-bentonite grout.					
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS \circ

WATER FOUND ∇

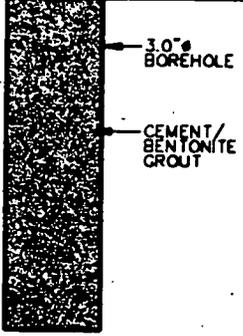
STATIC WATER LEVEL ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-36)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-52
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Gray fine to coarse SAND, some fine to coarse angular gravel, dry, FILL		 <p>3.0" BOREHOLE CEMENT/BENTONITE GROUT</p>			
2.0	Dark gray CLAY, some fine to coarse sand, moist, slight chemical odor	-1.5		1SS	X	48
3.0	Brown CLAY, some fine to coarse sand, moist, NATIVE	-2.4		2SS	X	41
4.0	END OF HOLE @ 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout.	-3.5				
5.0						
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-37)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-53
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Black SILT, some fine to coarse sand and fine angular gravel, moist, TOPSOIL					
2.0	Red-brown and gray CLAY, some silt, trace fine angular gravel, moist, FILL	-0.9		(1SS)	X	35
3.0	Same, with trace red brick				X	
4.0	Gray and brown CLAY, trace silt, soft, plastic, moist, NATIVE	-2.8		(2SS)	X	44
4.0	Red-brown mottled CLAY, some silt, hard, dense, moist	-4.0			X	
5.0	END OF HOLE ⊙ 4 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with gravel and topsoil. 3. Borehole is located in grass off east edge of pavement.					
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-38)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-54
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3" Ø SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Auger through asphalt Brown SILT, some fine to coarse sand, trace clay and fine to coarse rounded gravel, dry to moist, FILL					
2.0	Black CLAY, some fine to coarse sand, fine rounded white gravel, trace wood, moist, chemical odor	-1.8		(1SS)	X	46
3.0						
4.0	Gray CLAY, some fine to coarse sand, silt, moist, NATIVE	-3.9		(2SS)	X	38
5.0	Same, except red-brown, some silt, no sand, dense, hard, dry	-4.5				
6.0	END OF HOLE @ 4.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 4.5 ft. BGS. 2. Borehole backfilled to surface with cement-bentonite grout.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-39)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-55
 DATE COMPLETED: JUNE 1, 1990
 DRILLING METHOD: 3" ϕ SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Black SILT, some fine to coarse sand, some vegetation, fine angular gravel, trace fine white round gravel, moist, TOPSOIL	-0.9		(1SS)	X	31
2.0	Red-brown CLAY, some silt and fine sand, some coarse angular gravel, moist, FILL Same, except red-brown to brown	-2.2		(2SS)	X	
3.0	Gray fine to coarse SAND, some silt and clay, moist, NATIVE	-3.1			X	43
4.0	Red-brown CLAY, some silt, trace fine sub-rounded gravel, moist	-3.5				
5.0	END OF HOLE \odot 3.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 3.5 ft. BGS. 2. Borehole backfilled to surface with gravel and topsoil. 3. Borehole is located in grass off east edge of pavement.					
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS \circ

WATER FOUND ∇

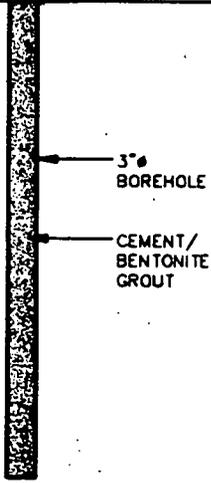
STATIC WATER LEVEL ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-40)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-58
 DATE COMPLETED: JULY 20, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
	Auger through asphalt					
1.0	Brown SAND, some fine white subround gravel, trace angular gravel, dry to moist, FILL		 <p>3" BOREHOLE CEMENT/ BENTONITE GROUT</p>			
2.0	Red-brown CLAY, some silt, stiff, dry to moist, FILL Gray SILT, some clay, soft, moist	-1.7 -2.0		(1SS)	X	17
3.0					X	
4.0				(2SS)	X	12
5.0	Red-brown CLAY, some silt, trace subround medium gravel, moist, NATIVE	-4.6 -5.0			X	
6.0	END OF HOLE @ 5.0 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 4.6 ft. BGS 2. Borehole backfilled to surface with cement/bentonite grout.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-41)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: NCC-59
 DATE COMPLETED: JULY 20, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	AUGER through asphalt Brown SAND, some fine angular gravel, trace fine white round gravel, dry, FILL					
2.0	Gray CLAY, trace silt, fine angular gravel, moist	-1.5		(1SS)	X	12
3.0						
4.0	Red-brown SILT, some clay, some fine gravel, moist, NATIVE	-3.3		(2SS)	X	29
4.5	Red-brown CLAY, some silt, moist	-4.2				
5.0	END OF HOLE @ 4.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.5 to 4.5 ft. BGS 2. Duplicate soil sample collected for chemical analysis as NCC-60. 3. Borehole backfilled to surface with cement/bentonite grout.	-4.5				
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



WATER FOUND



STATIC WATER LEVEL



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-65)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM

HOLE DESIGNATION: 1331-1

PROJECT NO.: 3307

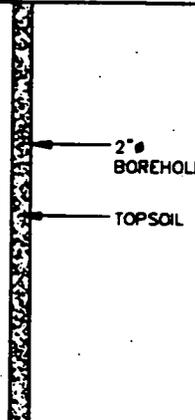
DATE COMPLETED: JANUARY 9, 1991

CLIENT: OCCIDENTAL CHEMICAL CORPORATION

DRILLING METHOD: 2" Ø SPLIT SPOON

LOCATION: 1331 104th ST.

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Remove sod and topsoil with spade. Sampled by hand Gray and brown SILT, some sand, little clay, moist, FILL		 <p style="font-size: small;">2" Ø BOREHOLE TOPSOIL</p>	(1HS)	X		
2.0	Black CINDERS, some medium sand, trace slag and coal, moist, no odor	-1.8			(1SS)	X	
4.0					(2SS)	X	
5.0	Gray and red-brown CLAY, some fine sand and silt, dry to moist, NATIVE END OF HOLE @ 4.5 FT. BGS	-4.4 -4.5					
6.0	NOTES: 1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.5 ft. BGS. 2. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.						
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-54)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM

HOLE DESIGNATION: 1331-2

PROJECT NO.: 3307

DATE COMPLETED: JANUARY 9, 1991

CLIENT: OCCIDENTAL CHEMICAL CORPORATION

DRILLING METHOD: 2" Ø SPLIT SPOON

LOCATION: 1331 104th ST.

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
-1.0	Remove sod and topsoil with spade. Sampled by hand Brown fine SAND, some silt, dry to moist, FILL(TOPSOIL)			(1HS)	X		
	Red-brown CLAY, some silt, trace gravel, dry to moist	-1.1			(1SS)	X	
-2.0	Black coarse SAND, some silt, dry, no odor	-1.8				X	
	Red-brown CLAY, some silt, trace gravel, dry to moist	-2.2				X	
-3.0	Brown and red-brown SILT, some clay, dry to moist	-2.5			(2SS)	X	
-4.0					X		
-5.0	END OF HOLE @ 4.5 FT. BGS	-4.5			X		
5.0	NOTES: 1. Borehole was not advanced to native clay. 2. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.5 ft. BGS. 3. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.				X		
6.0					X		
7.0					X		
8.0					X		
9.0					X		
10.0					X		
11.0					X		
12.0					X		
13.0					X		

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-55)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM

HOLE DESIGNATION: 1331-3

PROJECT NO.: 3307

DATE COMPLETED: JANUARY 9, 1991

CLIENT: OCCIDENTAL CHEMICAL CORPORATION

DRILLING METHOD: 2"Ø SPLIT SPOON

LOCATION: 1331 104th ST.

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Remove sod and topsoil with spade. Sample by hand Red and brown CLAY, some silt and fine sand, moist, FILL			(1HS)	X	
2.0	Black SILT, moist, no odor	-1.9		(1SS)	X	
3.0	Brown SAND, some silt, moist	-2.4			X	
4.0	Red-brown SILT, some fine to medium sand, dry to moist, NATIVE (TILL)	-3.6		(2SS)	X	
5.0	END OF HOLE @ 4.5 FT. BGS	-4.5				
6.0	NOTES: 1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.5 ft. BGS. 2. Duplicate soil sample collected for chemical analysis as 1331-14 from 0.5 to 4.5 ft. BGS. 3. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-56)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 1331 104th ST.

HOLE DESIGNATION: 1331-4
 DATE COMPLETED: JANUARY 9, 1991
 DRILLING METHOD: 2" Ø SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Remove sod and topsoil with spade. Sampled by hand Brown fine to medium SAND, some vegetation, little silt, trace coal, moist, TOPSOIL Red-brown CLAY, some silt, little fine sand and gravel, dry to moist, FILL	-0.8		(1HS)	X	
2.0				(1SS)	X	
3.0				(2SS)	X	
4.0	Red-brown CLAY, some silt, trace fine subround gravel, dry, NATIVE (TILL)	-3.8 -4.2			X	
5.0	Brown medium SAND, dry to moist END OF HOLE @ 4.5 FT. BGS	-4.5				
6.0	NOTES: 1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.5 ft. BGS. 2. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ▽

STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-57)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 1331 104th ST.

HOLE DESIGNATION: 1331-5
 DATE COMPLETED: JANUARY 10, 1991
 DRILLING METHOD: 2" ϕ SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Remove sod and topsoil with spade. Sample by hand Brown SAND, some silt, little vegetation, dry to moist, FILL (TOPSOIL) Red-brown CLAY, some silt, dry to moist	-0.6	<p style="text-align: center;">2" ϕ BOREHOLE TOPSOIL</p>	1HS	X	
2.0				1SS	X	
3.0				2SS	X	
4.0	Red-brown CLAY, some silt and fine sand, little subangular gravel, dry to moist, NATIVE	-3.5				
5.0	END OF HOLE @ 4.5 FT. BGS NOTES: 1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.5 ft. BGS. 2. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.	-4.5				
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



WATER FOUND



STATIC WATER LEVEL



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-58)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM

HOLE DESIGNATION: 1331-6

PROJECT NO.: 3307

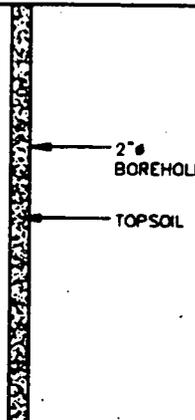
DATE COMPLETED: JANUARY 10, 1991

CLIENT: OCCIDENTAL CHEMICAL CORPORATION

DRILLING METHOD: 2" Ø SPLIT SPOON

LOCATION: 1331 104th ST.

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Remove sod and topsoil with spade. Sample by hand Brown SAND, trace silt and vegetation, dry to moist, FILL (TOPSOIL)	-0.6	 <p style="font-size: small;">2" Ø BOREHOLE TOPSOIL</p>	(1HS)	X	
2.0	Red-brown CLAY and SILT, some fine sand, trace fine gravel, dry			(1SS)	X	
3.0					X	
4.0	Red-brown SILT, some clay and fine sand, dry to moist, NATIVE (TILL)	-3.5		(2SS)	X	
5.0	Dark brown fine to medium SAND, some silt, moist	-4.4 -4.5				
6.0	END OF HOLE @ 4.5 FT. BGS NOTES: 1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.5 ft. BGS. 2. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-66)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM

HOLE DESIGNATION: 1331-7

PROJECT NO.: 3307

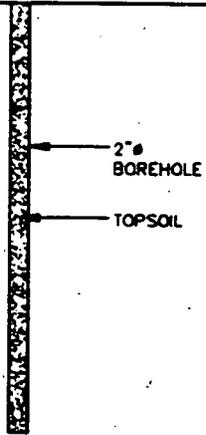
DATE COMPLETED: JANUARY 9, 1991

CLIENT: OCCIDENTAL CHEMICAL CORPORATION

DRILLING METHOD: 2" Ø SPLIT SPOON

LOCATION: 1331 104th ST.

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Remove sod and topsoil with spade. Sampled by hand Red-brown and gray CLAY, some fine sand and silt, moist, FILL		 <p style="font-size: small;">2" Ø BOREHOLE TOPSOIL</p>	(1HS)	X	
2.0				(1SS)	X	
3.0				(2SS)	X	
4.0				(2SS)	X	
5.0	<p>END OF HOLE @ 4.5 FT. BGS</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. Borehole was not advanced to native clay. 2. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.5 ft. BGS. 3. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole. 	-4.5				
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-67)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM

HOLE DESIGNATION: 1331-8

PROJECT NO.: 3307

DATE COMPLETED: JANUARY 8, 1991

CLIENT: OCCIDENTAL CHEMICAL CORPORATION

DRILLING METHOD: 2" ϕ SPLIT SPOON

LOCATION: 1331 104th ST.

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Remove sod and topsoil with spade. Sampled by hand Brown fine to medium SAND, some silt, dry, <u>FILL (TOPSOIL)</u> Red-brown CLAY, some silt, trace fine to medium angular subround gravel, trace vegetation, moist	-0.6	<p style="text-align: center;">2" ϕ BOREHOLE TOPSOIL</p>	(1HS)	X		
2.0				(1SS)	X		
3.0					X		
4.0					(2SS)	X	
4.0	Red-brown CLAY, some silt, hard, dense, dry, <u>NATIVE</u>	-4.0				X	
4.0		-4.2				X	
4.0		-4.5				X	
5.0	Brown medium SAND, dry to moist END OF HOLE @ 4.5 FT. BGS					X	
6.0	NOTES: 1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.0 ft. BGS. 2. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.					X	
7.0						X	
8.0						X	
9.0						X	
10.0						X	
11.0					X		
12.0					X		
13.0					X		

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-68)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 1331 104th ST.

HOLE DESIGNATION: 1331-9
 DATE COMPLETED: JANUARY 8, 1991
 DRILLING METHOD: 2" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Remove sod and topsoil with spade. Sampled by hand Brown and gray fine to medium SAND, some fine white round gravel, dry to moist, no odor, FILL			(1HS)	X		
2.0	Red-brown and gray CLAY, some silt, some fine to medium angular and subround gravel, trace glassy slag and metallic slag, dry	-2.0		← 2" BOREHOLE	(1SS)	X	
3.0		← TOPSOIL		(2SS)	X		
4.0	Brown SAND, moist to wet, NATIVE Same, except wet	-4.2			(3SS)	X	
5.0		-5.0					
6.0	END OF HOLE @ 5.0 FT. BGS NOTES: 1. Borehole was not advanced to native clay. 2. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 5.0 ft. BGS. 3. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.						
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ∇

STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-59)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM

HOLE DESIGNATION: 1331-10

PROJECT NO.: 3307

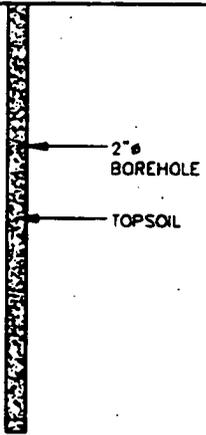
DATE COMPLETED: JANUARY 10, 1991

CLIENT: OCCIDENTAL CHEMICAL CORPORATION

DRILLING METHOD: 2"Ø SPLIT SPOON

LOCATION: 1331 104th ST.

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUM BER	S T A T E	V A L U E
1.0	Remove sod and topsoil with spade. Sampled by hand Brown fine SAND, some silt and vegetation, dry to moist, FILL (TOPSOIL)	-0.8	 <p style="margin-left: 20px;">2"Ø BOREHOLE</p> <p style="margin-left: 20px;">TOPSOIL</p>	(1HS)	X	
2.0	Red-brown CLAY, some silt and fine gravel, dry to moist Black SAND, some silt and fine to medium round white gravel, moist, slight chemical odor Dark brown SAND, some silt and subround gravel, moist	-1.5 -2.0		(1SS)	X	
4.0	Red-brown CLAY, some silt and fine sand, dry to moist, NATIVE (TILL)	-3.4		(2SS)	X	
5.0	END OF HOLE @ 4.5 FT. BGS	-4.5				
6.0	NOTES: 1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.5 ft. BGS. 2. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-69)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 1331 104th ST.

HOLE DESIGNATION: 1331-11
 DATE COMPLETED: JANUARY 8, 1991
 DRILLING METHOD: 2" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Remove sod and topsoil with spade. Sampled by hand Brown fine to medium SAND, some to little vegetation, FILL (TOPSOIL)			(1HS)	X	
2.0	Same, except black, some white fine round gravel, little wood, trace metallic slag, dry Gray SILT, some fine sand, trace clay, dry to moist	-1.9		(1SS)	X	
3.0	Same, except moist to wet				X	
4.0	Brown fine SAND, some silt, moist			(2SS)	X	
5.0	Red-brown SILT, some silt, moist, NATIVE END OF HOLE @ 4.5 FT. BGS NOTES:	-4.3 -4.5			X	
6.0	1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.5 ft. BGS.					
7.0	2. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.					
8.0	3. Water in borehole at completion.					
9.0	4. Sample depth noted incorrectly on Chain of Custody as 5.5 ft. rather than 4.5 ft. BGS.					
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



WATER FOUND



STATIC WATER LEVEL



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-70)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 1331 104th ST.

HOLE DESIGNATION: 1331-12
 DATE COMPLETED: JANUARY 8, 1991
 DRILLING METHOD: 2" ϕ SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Remove sod and topsoil with spade. Sampled by hand Brown fine to medium SAND, some vegetation (roots), dry to moist, FILL (TOPSOIL) Black and gray SAND, some clay, little cinders, coal, trace slag, dry		<p style="text-align: center;">2" ϕ BOREHOLE TOPSOIL</p>	(1HS)	X	
2.0	Brown medium SAND, trace silt, moist			(1SS)	X	
3.0				(2SS)	X	
4.0				(3SS)	X	
5.0	Red-brown CLAY, some to little silt, trace clay, dry to moist, NATIVE	-4.7				
6.0	END OF HOLE @ 5.5 FT. BGS	-5.5				
7.0	NOTES: 1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 5.0 ft. BGS. 2. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.					
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-42)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: 1335-1
 DATE COMPLETED: JULY 20, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
	Sample collected by hand	-0.1		(1HS)	X	
1.0	Light and dark brown, fine to medium grained SAND and SILT, some fine to coarse angular gravel, dry to moist, FILL			(1SS)	X	78
2.0	Light brown SAND, some silt, trace clay, dry to moist				X	
3.0	Same, except trace silt, small angular gravel				X	
4.0	Concrete cobble	-2.0			X	
5.0	Light brown SILT, some clay, trace fine angular gravel, dry, trace brick, trace very fine clinkers	-2.5			(2SS)	60
6.0	Gray and brown SILT, some clay, trace fine sand, moist, NATIVE	-3.9				
7.0	Red-brown CLAY, trace silt, soft, mottled, moist	-4.5				
8.0	END OF HOLE @ 4.5 FT. BGS					
9.0	NOTES:					
10.0	1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. BGS and 0.5 to 4.5 ft. BGS					
11.0	2. Borehole backfilled with clean commercial topsoil, with the original sod placed over the borehole.					
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○
 WATER FOUND
 STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-43)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: 1335-2

PROJECT NO.: 3307

DATE COMPLETED: JULY 20, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	N VALUE
1.0	Sample collected by hand Light and dark brown, fine to medium grained SAND and SILT; some fine to medium angular gravel, moist, FILL			(1HS)	X	
2.0	Light gray fine to coarse grained SAND, some medium to coarse angular gravel, moist, metal Increase in silt content Brick			(1SS)	X	>100
3.0	Light gray fine to coarse grained SAND, some medium gravel, moist, trace coal	-2.9 -3.0		(2SS)	X	
4.0	Gray CLAY, some fine sand and silt, moist Dark gray SAND, some silt, some clay, moist	-3.5			X	43
5.0	Gray CLAY, some silt, trace sand, moist, NATIVE	-4.5				
5.0	END OF HOLE @ 4.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.0 to 0.5 ft. BGS and 0.5 to 4.5 ft. BGS. 2. Ants and earthworms found in soil from 0.0 to 0.5 ft. BGS. 3. Borehole backfilled with clean commercial topsoil with the original sod placed over the borehole.					
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-44)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: 1335-3
 DATE COMPLETED: JULY 20, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Sample collected by hand Brown, fine to medium grained SAND, trace silt, dry to moist, FILL		<p style="text-align: center;">3" BOREHOLE TOPSOIL</p>	(1HS)	X	
2.0	Light brown SILT, some fine sand, some gravel, trace white rounded gravel, dry to moist, no apparent chemical odor	-2.0		(1SS)	X	68
3.0	Red-brown SILT, trace clay, dry to moist				X	
4.0	Black SILT, trace slag, loose, moist	-4.1		(2SS)	X	40
4.5	Red-brown SILT, some clay, moist, NATIVE Gray CLAY, some silt, moist	-4.2 -4.5			X	
5.0	END OF HOLE @ 4.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.0 to 0.5 ft. BGS, and 4.5 ft. BGS. 2. Numerous ants in soil from 0.0 to 0.5 ft. BGS. 3. Borehole backfilled with clean commercial topsoil with the original sod placed over borehole.					
6.0						
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-45)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: 1335-4

PROJECT NO.: 3307

DATE COMPLETED: JULY 20, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Sample collected by hand Brown fine to medium grained SAND, trace silt, dry to moist, FILL			(1HS)	X	
2.0	<u>Red-brown CLAY, some silt, dry</u> Brown SILT, some clay, dry, trace white powder, no odor	-1.9 -2.1		(1SS)	X	60
3.0	Brown to red-brown SILT, some sand and clay, dry, trace concrete				X	
4.0	Gray SILT, some clay, some fine sand, dry to moist, trace rust color			(2SS)	X	35
5.0	Red-brown CLAY, moist, NATIVE	-4.2 -4.5			X	
6.0	END OF HOLE @ 4.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.0 to 0.5 ft. BGS. and 4.5 ft. BGS. 2. Earthworms in soil from 0.0 to 0.25 ft. BGS. 3. Borehole backfilled with clean commercial topsoil with the original sod placed over borehole.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-46)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: 1335-5

PROJECT NO.: 3307

DATE COMPLETED: JULY 20, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Sample collected by hand Brown SAND and SILT, topsoil, dry to moist, FILL Red-brown CLAY, trace sand, trace silt, trace angular gravel, moist	-0.3	<p style="text-align: center;">3" BOREHOLE TOPSOIL</p>	(1HS)	X	
2.0	Dark gray SILT, some clay, some fine white round gravel, moist to wet, trace brick, no apparent chemical odor	-2.0		(1SS)	X	17
3.0				(2SS)	X	
4.0	Gray CLAY, some silt, moist, NATIVE Red-brown CLAY, some silt, moist	-4.1			X	
5.0	END OF HOLE @ 4.5 FT. BGS	-4.5				
6.0	NOTES: 1. Soil sample collected for chemical analysis from 0.0 to 0.5 ft. BGS. and 4.5 ft. BGS. 2. Earthworms found in soil from 0.0 to 0.25 ft. BGS. 3. Borehole backfilled with clean commercial topsoil with the original sod placed over borehole.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-47)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: 1335-6

PROJECT NO.: 3307

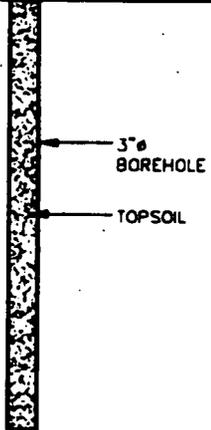
DATE COMPLETED: JULY 20, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	VALUE	
1.0	Sample collected by hand Brown, fine to medium grained SAND, some silt, dry to moist, FILL Same, except trace brick		 <p style="font-size: small;">3" BOREHOLE TOPSOIL</p>	(1HS)	X		
2.0				(1SS)	X	24	
3.0					X		
4.0	Black fine SAND, some red-brown clay and silt, trace gravel, moist, trace brick, trace wood	-3.3			(2SS)	X	8
4.5	Gray mottled CLAY, some silt, soft, moist, NATIVE	-4.0				X	
5.0	END OF HOLE @ 4.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.0 to 0.5 ft. BGS. and 4.5 ft. BGS. 2. Borehole backfilled with clean commercial topsoil with the original sod placed over borehole.	-4.5					
6.0							
7.0							
8.0							
9.0							
10.0							
11.0							
12.0							
13.0							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-48)

PROJECT NAME: 10500 CAYUGA DRIVE

HOLE DESIGNATION: 1335-7

PROJECT NO.: 3307

DATE COMPLETED: JULY 20, 1990

CLIENT: OXYCHEM

DRILLING METHOD: 3" SPLIT SPOON

LOCATION: 10500 CAYUGA DRIVE

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
	Sample collected by hand Brown SAND and SILT, dry to moist, some grass and roots	-0.3 -0.5		(1HS)	X	
1.0	Light brown CLAY, some silt, dry to moist Light brown SAND, some silt, dry to moist			(1SS)	X	11
2.0	Light brown SILT, some clay, trace fine some clay, trace fine gravel, dry to moist Same, except dark brown	-1.6 -2.3		(2SS)	X	
3.0	Gray CLAY, some fine round white pebbles, moist, trace brick, chemical odor Same, except trace silt, no odor				X	
4.0	Gray mottled CLAY, moist, NATIVE	-4.2			X	
5.0	END OF HOLE @ 4.5 FT. BGS NOTES: 1. Soil sample collected for chemical analysis from 0.0 to 0.5 ft. BGS. and 4.5 ft. BGS. 2. Duplicate soil sample collected for chemical analysis from 0.5 to 4.5 ft. BGS, as 1335-9. 3. Numerous ants and several earthworms noted from 0.0 to 0.3 ft. BGS. 4. Borehole backfilled with clean commercial topsoil with the original sod placed over borehole.	-4.5			X	
6.0					X	
7.0					X	
8.0					X	
9.0					X	
10.0				X		
11.0				X		
12.0				X		
13.0				X		

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



WATER FOUND



STATIC WATER LEVEL

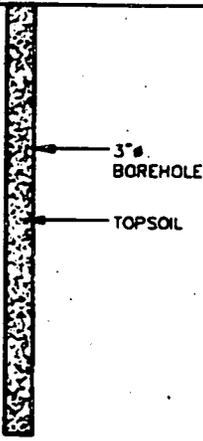


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-49)

PROJECT NAME: 10500 CAYUGA DRIVE
 PROJECT NO.: 3307
 CLIENT: OXYCHEM
 LOCATION: 10500 CAYUGA DRIVE

HOLE DESIGNATION: 1335-8
 DATE COMPLETED: JULY 20, 1990
 DRILLING METHOD: 3" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				N U M B E R	S T A T E	N V A L U E
1.0	Sample collected by hand Brown SAND and SILT, dry to moist, FILL Light brown CLAY, some silt, trace gravel, dry to moist	-0.3	 <p style="text-align: center;">3" BOREHOLE TOPSOIL</p>	1HS	<input checked="" type="checkbox"/>	
2.0	Dark brown SILT, some medium grained SILT, dry to moist Light brown SILT, some clay, dry to moist	-1.3		1SS	<input checked="" type="checkbox"/>	33
3.0	White weathered CEMENT, some fine gravel, trace sand, dry to moist Light brown SILT, some sand, dry to moist	-2.2 -2.5 -3.0		2SS	<input checked="" type="checkbox"/>	35
4.0	Gray CLAY, some silt, some sand lenses, moist, NATIVE, mottled toward bottom				<input checked="" type="checkbox"/>	
5.0	END OF HOLE @ 4.5 FT. BGS	-4.5				
6.0	NOTES: 1. Soil sample collected for chemical analysis from 0.0 to 0.5 ft. BGS. and 4.5 ft. BGS. 2. Borehole backfilled with clean commercial topsoil with the original sod placed over borehole.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

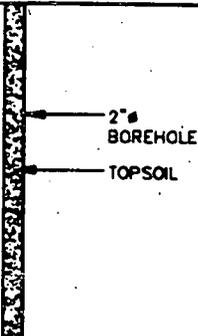
CHEMICAL ANALYSIS WATER FOUND STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-60)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 1335 104th ST.

HOLE DESIGNATION: 1335-10
 DATE COMPLETED: JANUARY 3, 1991
 DRILLING METHOD: 2" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Remove sod and topsoil with spade. Sampled by hand Brown and gray SILT, some clay, little fine to medium gravel, moist, FILL		 <p style="font-size: small;">2" BOREHOLE TOPSOIL</p>	(1HS)	X	
2.0				(1SS)	X	
3.0				(2SS)	X	
4.0	Red-brown and gray CLAY, some silt, little fine sand and gravel, dry to moist, NATIVE	-3.2				
5.0	END OF HOLE @ 3.5 FT. BGS	-3.5				
6.0	NOTES: 1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 3.5 ft. BGS. 2. Duplicate soil sample collected for chemical analysis from 0.0 to 3.5 ft. BGS. as 1335-15. 3. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-62)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM

HOLE DESIGNATION: 1335-12

PROJECT NO.: 3307

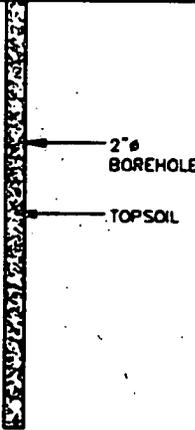
DATE COMPLETED: JANUARY 4, 1991

CLIENT: OCCIDENTAL CHEMICAL CORPORATION

DRILLING METHOD: 2" Ø SPLIT SPOON

LOCATION: 1335 104th ST.

CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Remove sod and topsoil with spade. Sampled by hand Red-brown and gray SILT and fine to medium SAND, some fine to medium gravel, dry to moist, FILL			(1HS)	X	
2.0		(1SS)		X		
3.0		(2SS)		X		
4.0	Red-brown CLAY, some silt, trace fine subround gravel, dry to moist, NATIVE	-3.9				
5.0	END OF HOLE @ 4.5 FT. BGS NOTES:	-4.5				
6.0	1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.0 ft. BGS.					
7.0	2. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.					
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ▽ STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-63)

PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 1335 104th ST.

HOLE DESIGNATION: 1335-13
 DATE COMPLETED: JANUARY 3, 1991
 DRILLING METHOD: 2" Ø SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Remove sod and topsoil with spade. Sampled by hand Dark brown fine SAND, some silt, trace vegetation, trace coal, moist, FILL		<p style="text-align: center;">2" Ø BOREHOLE TOPSOIL</p>	1SS	X	
2.0	Red-brown CLAY, some silt, trace coal and fine white round gravel, dense, moist Red-brown and gray CLAY, some silt, little subround gravel, moist, some black discoloration, no odor	-1.2		1SS	X	
3.0				2SS	X	
4.0				3SS	X	
5.0	Red-brown CLAY, some silt, little fine sand, dry to moist, NATIVE	-4.6 -4.8		3SS	X	
6.0	END OF HOLE @ 4.8 FT. BGS NOTES: 1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.0 ft. BGS. 2. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole. 3. Water in borehole was 2.5 ft. BGS. at completion.					
7.0						
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

WATER FOUND ∇

STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-64)

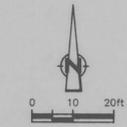
PROJECT NAME: 104th ST. DATA COLLECTION PROGRAM
 PROJECT NO.: 3307
 CLIENT: OCCIDENTAL CHEMICAL CORPORATION
 LOCATION: 1335 104th ST.

HOLE DESIGNATION: 1335-14
 DATE COMPLETED: JANUARY 3, 1991
 DRILLING METHOD: 2" SPLIT SPOON
 CRA SUPERVISOR: K. LYNCH

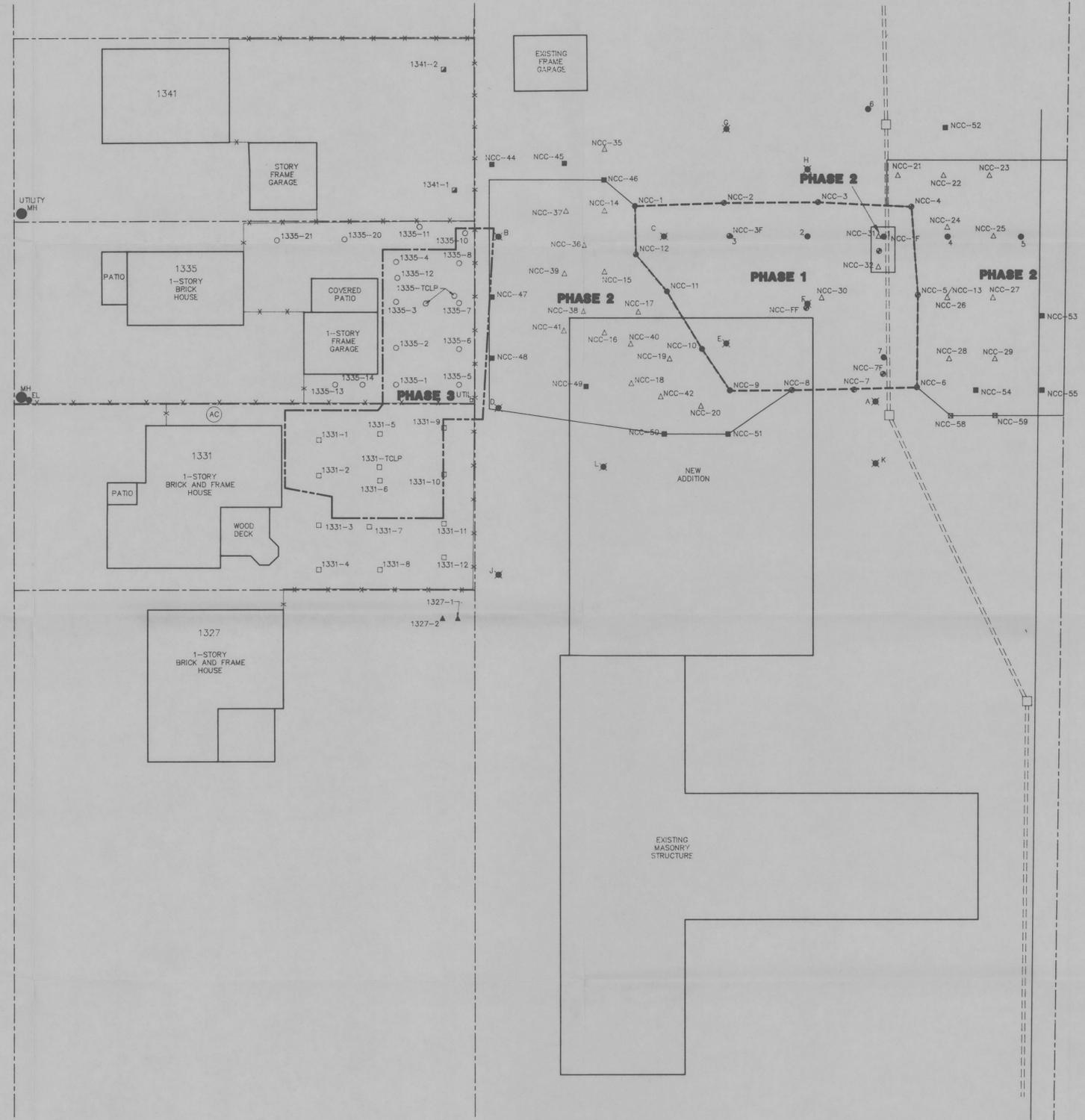
DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE		
				NUMBER	STATE	VALUE
1.0	Remove sod and topsoil with spade. Sampled by hand Dark brown fine SAND, some silt, trace fine gravel, moist, FILL (TOPSOIL)	-0.8		(1HS)	X	
2.0	Brown SILT, some clay, little fine gravel, moist			(1SS)	X	
3.0				(2SS)	X	
4.0	Gray CLAY, some silt, moist, NATIVE Same, except red-brown	-3.8			X	
5.0	END OF HOLE @ 4.5 FT. BGS NOTES:	-4.5				
6.0	1. Soil samples collected for chemical analysis from 0.0 to 0.5 ft. and 0.5 to 4.0 ft. BGS.					
7.0	2. At completion the borehole was backfilled using clean commercial topsoil and the sod was replaced over the borehole.					
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○ WATER FOUND ∇ STATIC WATER LEVEL ▼



104TH STREET



- LEGEND**
- PHASE I
 - ORIGINAL SAMPLE POINT (MARCH 1989)
 - SECOND ROUND SAMPLE POINT (APRIL 1989)
 - THIRD ROUND SAMPLE POINT (NOVEMBER 1989)
 - PHASE II
 - △ FOURTH ROUND SAMPLE POINT (MARCH 1990)
 - FIFTH ROUND SAMPLE POINT (JUNE 1990)
 - SIXTH ROUND SAMPLE POINT (JULY 1990)
 - PHASE III
 - 1331-104th STREET SAMPLE POINT
 - 1335-104th STREET SAMPLE POINT
 - ▲ 1327-104th STREET SAMPLE POINT
 - 1341-104th STREET SAMPLE POINT
 - ⊙ AIR CONDITIONER
 - MH ● MANHOLE
 - FENCE
 - UTIL. UTILITY BOX
 - EL ● ELECTRIC BOX

NO.	Revision	Date	Initial

Approved

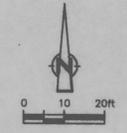
OXY Occidental Chemical Corporation
Buffalo Avenue Plant

SITE REMEDIATION

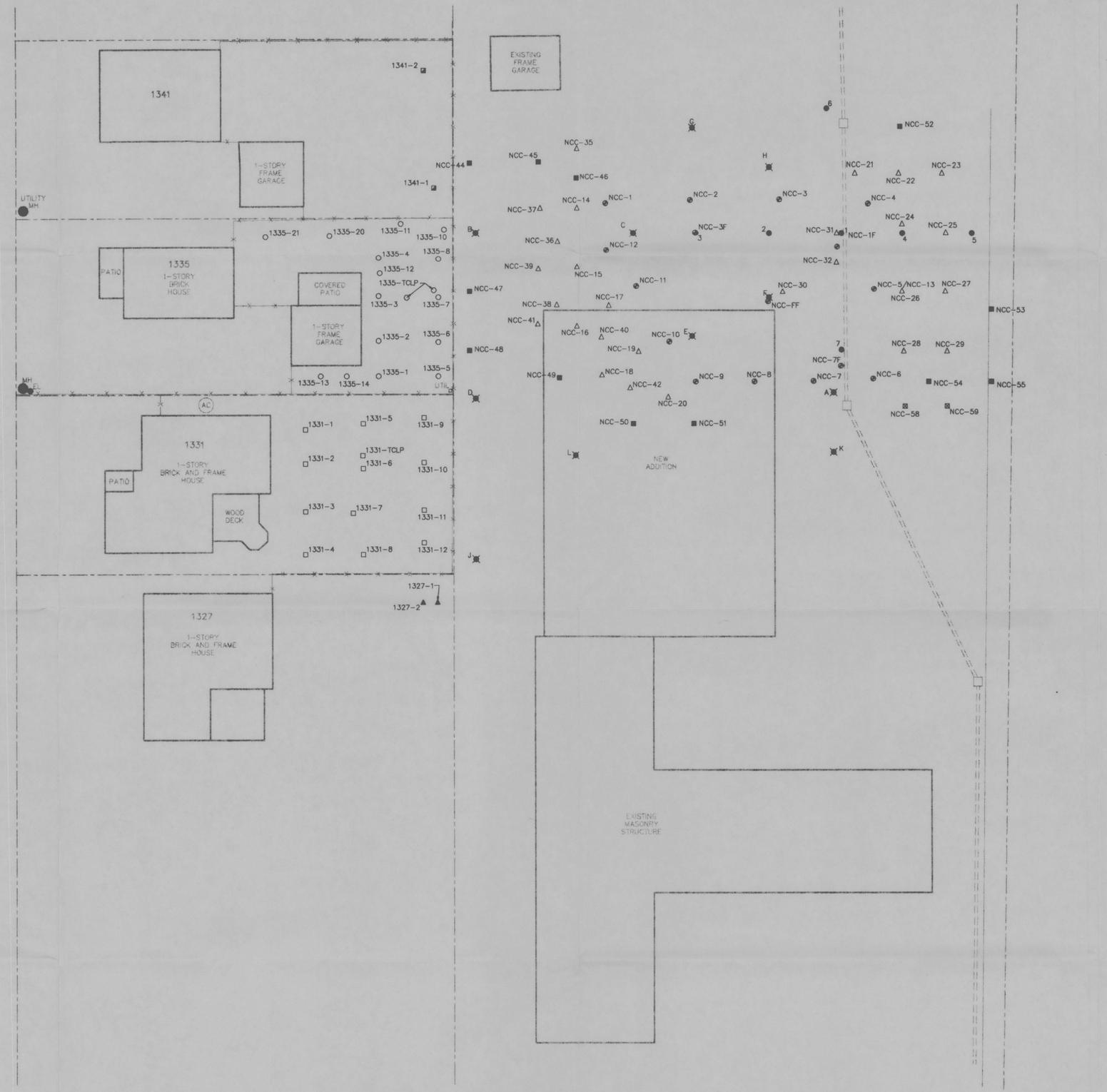
104th STREET
LIMITS OF EXCAVATED AREAS

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: I.W.R.	Scale: 1"=20'	Date: SEPTEMBER	File No: P-14	Rev. No: 0
Designed by: J.P.	Field book:	Project No: 3307	Drawing No: 2	
Checked by: J.K.				



104TH STREET



- LEGEND**
- PHASE I
 - ORIGINAL SAMPLE POINT (MARCH 1989)
 - SECOND ROUND SAMPLE POINT (APRIL 1989)
 - THIRD ROUND SAMPLE POINT (NOVEMBER 1989)
 - PHASE II
 - ▲ FOURTH ROUND SAMPLE POINT (MARCH 1990)
 - FIFTH ROUND SAMPLE POINT (JUNE 1990)
 - SIXTH ROUND SAMPLE POINT (JULY 1990)
 - PHASE III
 - 1331-104th STREET SAMPLE POINT
 - 1335-104th STREET SAMPLE POINT
 - ▲ 1327-104th STREET SAMPLE POINT
 - 1341-104th STREET SAMPLE POINT
 - AC AIR CONDITIONER
 - MH MANHOLE
 - FENCE
 - UTILITY BOX
 - EL ELECTRIC BOX

NO	Revision	Date	Initial

Approved

OXY Occidental Chemical Corporation
Buffalo Avenue Plant

SITE REMEDIATION
10500 CAYUGA DRIVE
SAMPLE LOCATIONS

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: I.W.R.	Scale: 1"=20'	Date: SEPTEMBER 1992	File No: P-13	Rev. No: 0
Designed by: J.P.	Field book:	Project No: 3307	Drawing No: 1	
Checked by: J.K.				

