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Engineering Report

LOVE CANAL ADDITIONAL CREEK SAMPLING AND SANITARY SEWER INSPECTION



Prepared for:
New York State
Department of
Environmental Conservation
50 Wolf Road, Albany, New York 12233
Henry G. Williams, Commissioner

Division of Solid and Hazardous Waste
Norman H. Nosenchuck, P.E., Director
NYSDEC Amendment To Contract No. D-000303

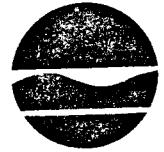
June 1987

Project: 266-30-9

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ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS

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



OCT 22 1987

Thomas C. Jorling
Commissioner

Mr. John Tygert
New York State Department
of Environmental Conservation
Regional Office
600 Delaware Avenue
Buffalo, New York 14202

RE: Love Canal Additional Creek Sampling
and Sanitary Sewer Inspection, Love
Canal, Niagara Falls(C), Niagara
County, Site No. 9-32-020

Enclosed is the Engineering Report, Love Canal Additional Creek Sampling and Sanitary Sewer Inspection, dated June 1987 and prepared by Malcolm Pirnie Inc., Niagara Falls, New York.

This report is accepted by the New York State Department of Environmental Conservation.

If you have any questions, please call Mr. Guy T. Bobersky at 518-457-4343.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert W. Schick".

Robert W. Schick, P.E.
Supervisor
Western Remediation Section A
Bureau of Western Remediation
Division of Hazardous Waste Remediation

RWS:tav
Enclosure

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

LOVE CANAL ADDITIONAL CREEK SAMPLING
AND SANITARY SEWER INSPECTION

JUNE 1987

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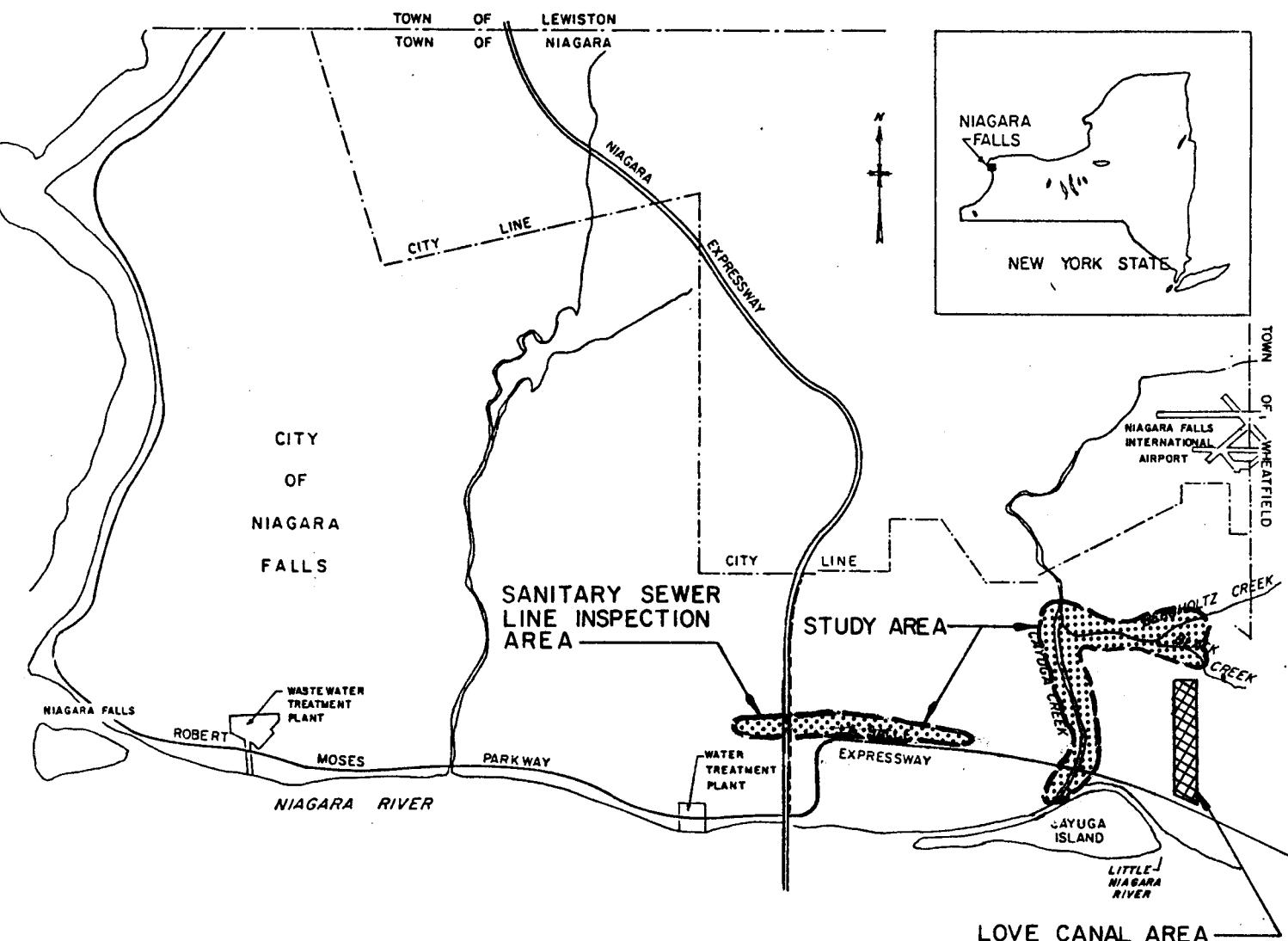
1.0 INTRODUCTION

1.1 Purpose

A sampling and analysis program was undertaken to provide additional information to the New York State Department of Environmental Conservation (NYSDEC) for determining the extent of remedial activities required in creeks and sanitary sewers affected by dioxin at Love Canal, shown in Figure 1. Previous environmental information documents ^(1,2) expressed the need for additional soil and sediment sampling along Bergholtz, Black and Cayuga Creeks, and for additional investigations of sanitary sewers downstream of 81st Street (Lift Station No. 6). The previous studies had detected dioxin in the sediments of Black and Bergholtz Creeks and in the sanitary sewers up to the 81st Street Pump Station. However, several important issues remained unresolved, specifically:

- Whether dioxin-contaminated soils had been deposited along the banks of Black and Bergholtz Creeks during high stream flow;
- Whether dioxin-contaminated soils had been used to fill in the former stream channel at Oak Island or deposited on Oak Island during construction of the Cayuga Drive Bridge;
- The extent of dioxin contamination in Cayuga Creek sediments;
- The extent of dioxin-contaminated sediment deposition in sanitary sewers between Lift Station 6 and the intersection of 56th Street and John Street; and

-
1. "Site Investigations and Remedial Alternatives: Love Canal.", Malcolm Pirnie, Inc., October 1983.
 2. "Love Canal Sewers and Creeks Remedial Alternatives, Evaluations and Risk Assessment." CH₂M Hill, March 1985.



**LOVE CANAL
ADDITIONAL CREEK SAMPLING
REGIONAL MAP**

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OF ENVIRONMENTAL CONSERVATION

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- o Whether dioxin contaminated stormwater runoff was entering Bergholtz Creek from the swale behind the 93rd Street School.

Since these investigations were beyond the scope of previous studies, NYSDEC contracted with Malcolm Pirnie, Inc. to provide additional sampling and manhole inspections as an amendment to existing NYSDEC Contract No. D-000303.

1.2 Scope

In March 1986, Malcolm Pirnie submitted a revised Work Plan to NYSDEC which was subsequently approved for implementation. The approved scope of the project included the analysis of samples obtained from:

- o Black and Bergholtz Creek banks;
- o Cayuga Creek bed sediment;
- o Oak Island soils;
- o Stormwater runoff from the 93rd Street School; and
- o Sanitary sewers beyond Lift Station No. 6.

Soil and sediment sampling began in May and was completed in June 1986. The stormwater samples were collected in September 1986. Composited soil, sediment and runoff samples were shipped to the New York State Department of Health (NYSDOH) for analysis. This report includes a description of field work performed by Malcolm Pirnie and a summary of the laboratory results.

2.0 SAMPLE COLLECTION ACTIVITIES AND OBSERVATIONS

2.1 Sanitary Sewers

A physical inspection of 49 manholes along the main sanitary sewer line from Lift Station No. 6 to the intersection of John and 56th Streets was conducted. Manhole inspection logs are attached in Appendix A. Visual observations indicated that only Manholes 1, 2, 3 and 5 contained a sufficient quantity of deposited sediment for sampling. The location of the manholes which were inspected and where samples were collected is shown in Figure 2.

The degree of sedimentation in manholes generally is controlled by the physical configuration and flow characteristics. Intermittent pump station discharge was observed during the inspection and sampling program. This cyclic variation of flow appeared to prevent the deposition of solids in the sanitary sewers, except in manholes just downstream of the pump station. Manholes 1 through 5 are also older square-shaped structures, in contrast to the downstream manholes (Nos. 6 through 40) which are circular with well-formed flow channels. Higher uniform flows, which would tend to scour the sewers clean, were observed downstream of Manhole No. 5.

Field personnel did not enter the manholes to collect sediment samples. Samples were collected using long-handled stainless steel strainers lowered from the street surface. The sampling equipment was decontaminated following each use to prevent cross-contamination of samples. Details of the sampling protocols are outlined in the approved Work Plan submitted to NYSDEC.

2.2 Black and Bergholtz Creeks

Creek bank samples were obtained along Black and Bergholtz Creeks at the locations shown on Figure 3. The locations of the samples were generally one foot below the top of the bank and one

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SEWERS FOR WHICH
MANHOLES WERE INSPECTED

AREA WHERE SAMPLES
WERE COLLECTED

LOVE CANAL ADDITIONAL CREEK SAMPLING
SANITARY SEWER LOCATION MAP

NEW YORK STATE DEPARTMENT
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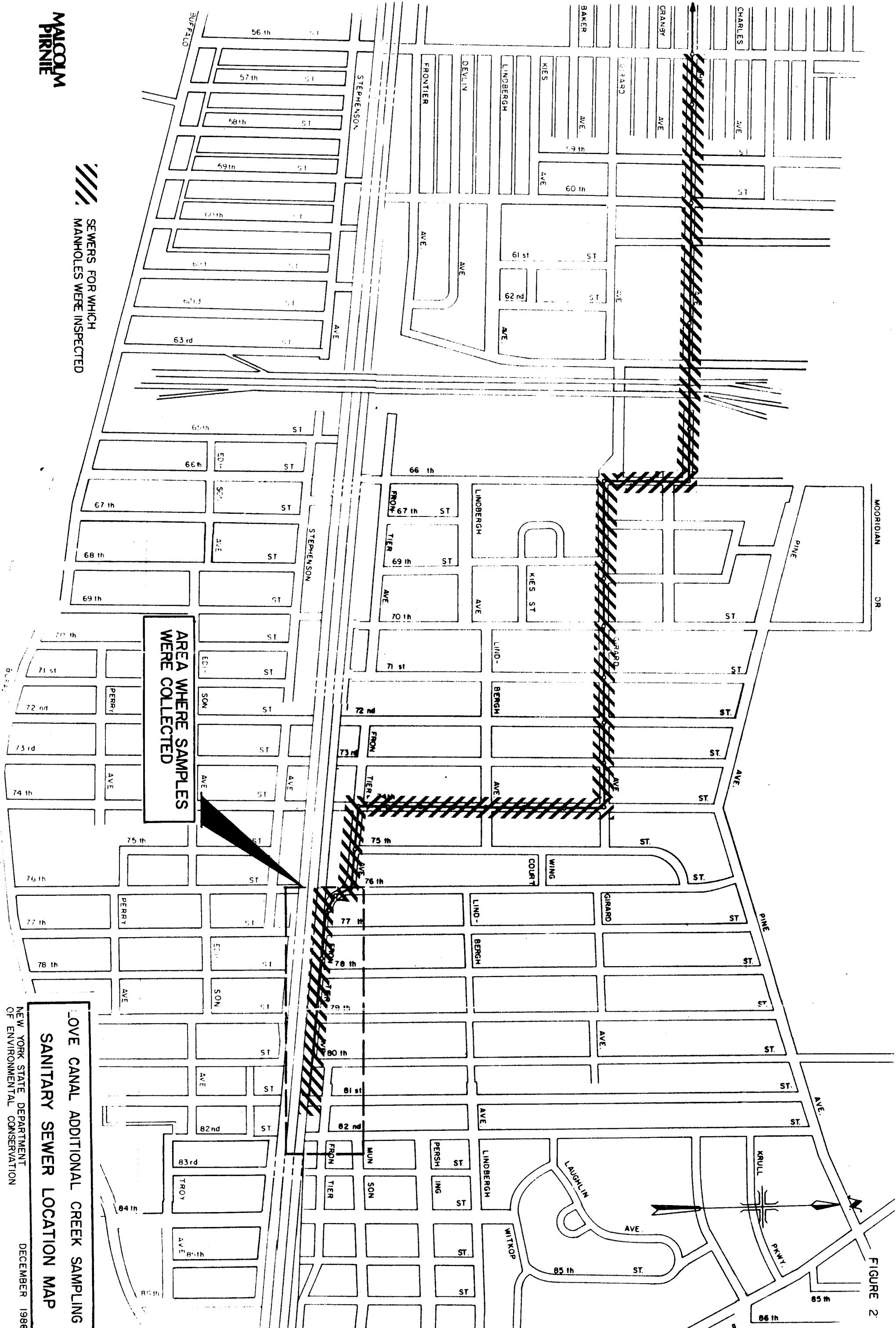
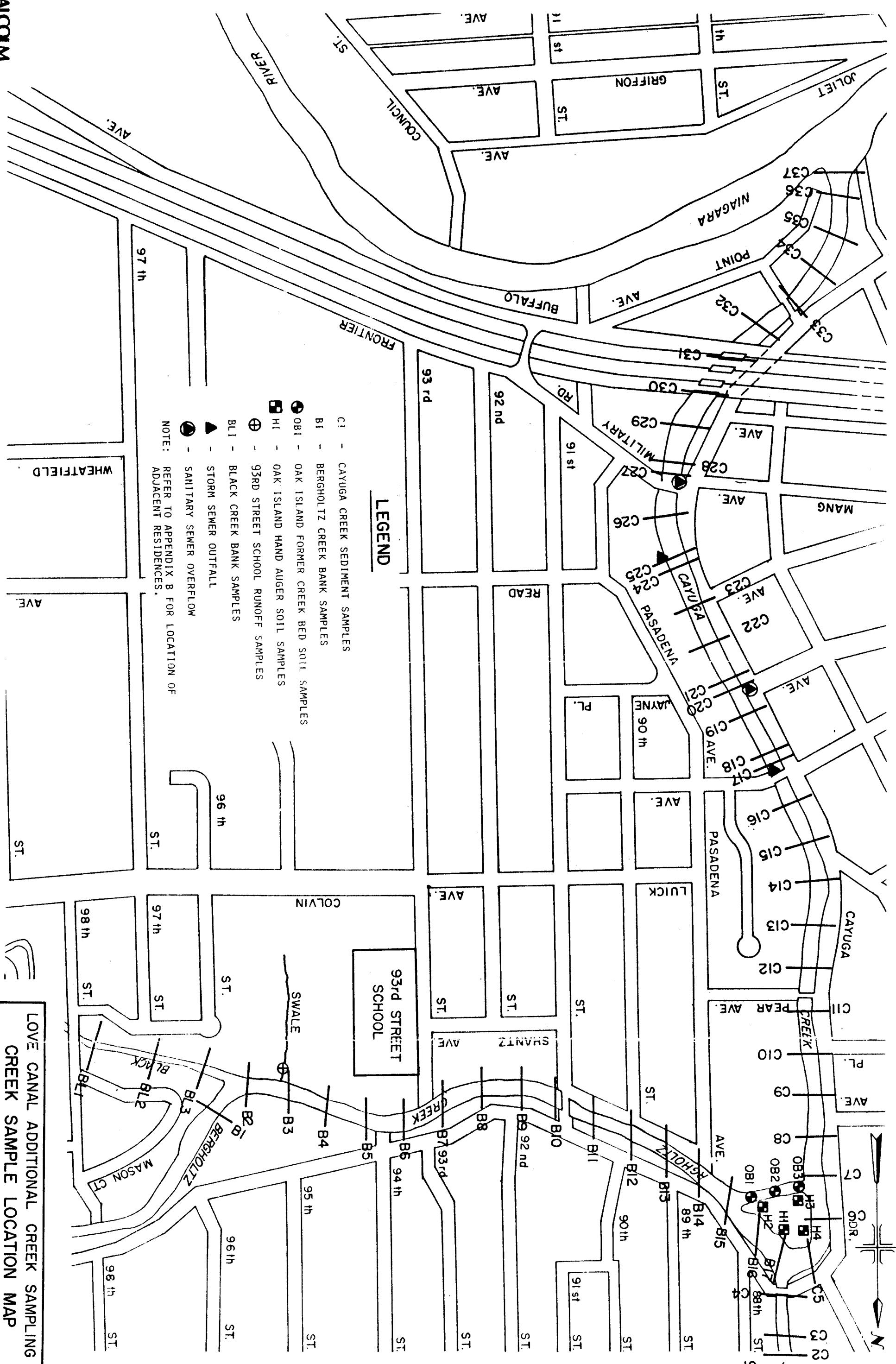


FIGURE 3



to two feet above the creek water surface at each cross section. The cross sections were delineated by survey stakes and flagging at intervals of approximately 200 feet. The locations were determined by survey activities performed prior to sampling. Survey notes are attached as Appendix B.

A total of 79 discrete bank soil samples were collected at 17 cross sections along Bergholtz Creek beginning approximately 150 feet upstream of the Bergholtz/Black Creek confluence. Samples were also collected at three locations on Black Creek. Four discrete soil samples were typically collected at each cross section. Soil samples were obtained at a maximum depth of two to three inches using small garden shovels. The samples were placed into mason jars which had been pedigreed and provided by NYSDOH.

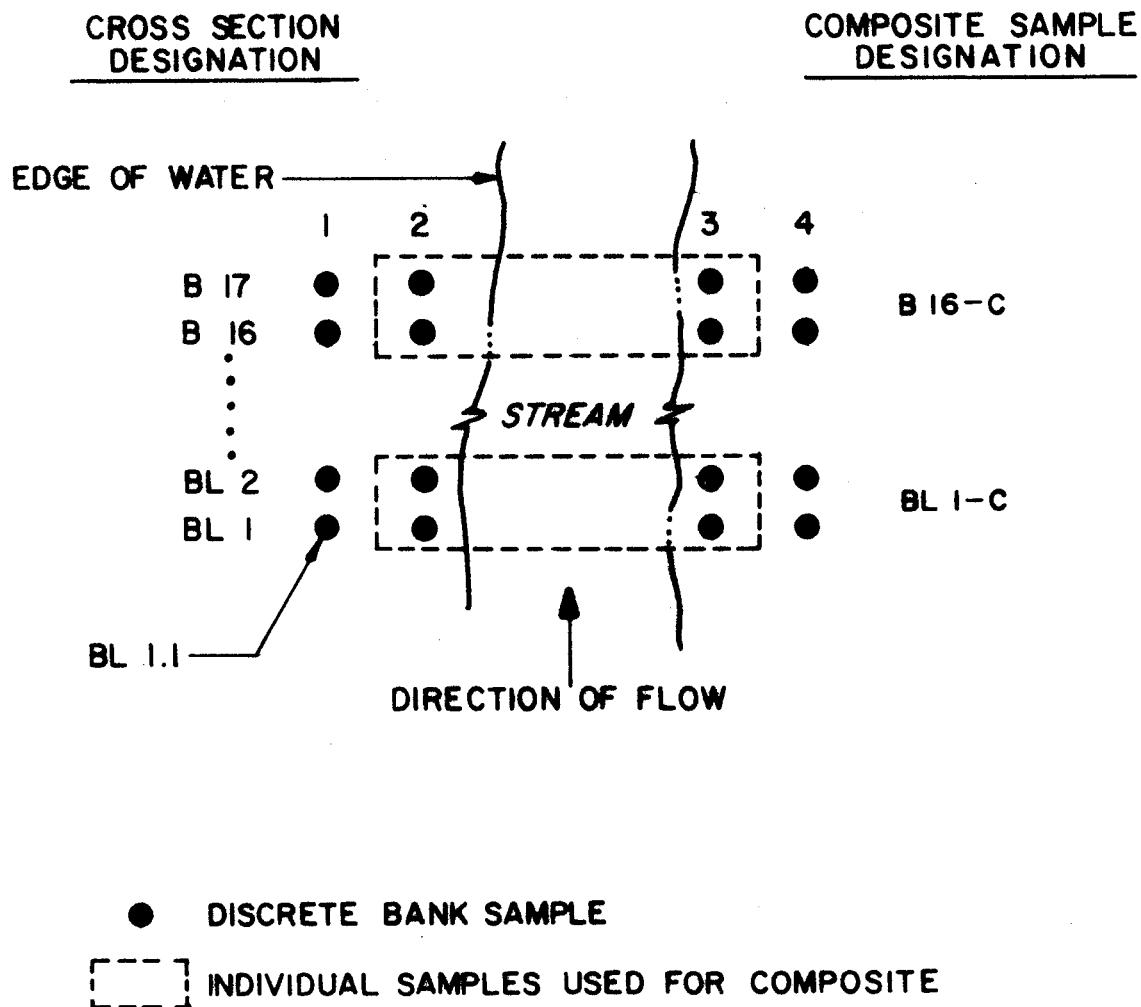
Composited samples consisted of the four discrete samples collected from the lower bank elevations for every two adjacent cross sections. The sample compositing and labeling format is illustrated in Figure 4. Ten composite samples were submitted to the NYSDOH for analysis. All individual samples were sent to NYSDOH for future reference or analysis, if required. A detailed discussion of the compositing procedure and Quality Assurance/Quality Control (QA/QC) protocol is included in the Work Plan.

A discrete soil sample could not be obtained at B17.4 because the sample site was on a bridge approach. However, this discrete sample was not required for composite sample B17, therefore, the omission does not affect the analytical results presented in this report.

2.3 Cayuga Creek

The Cayuga Creek bed samples were obtained on May 30 and June 2, 3 and 4, 1986 from the locations shown in Figure 3. Sediment samples were collected at cross sections spaced approximately 200 feet apart along the length of Cayuga Creek, beginning approximately 600 feet above the Bergholtz Creek confluence. Additional sampling was performed about fifty feet downstream of

FIGURE 4



LOVE CANAL ADDITIONAL CREEK SAMPLING
BANK SAMPLE LABELING AND
COMPOSING FORMAT

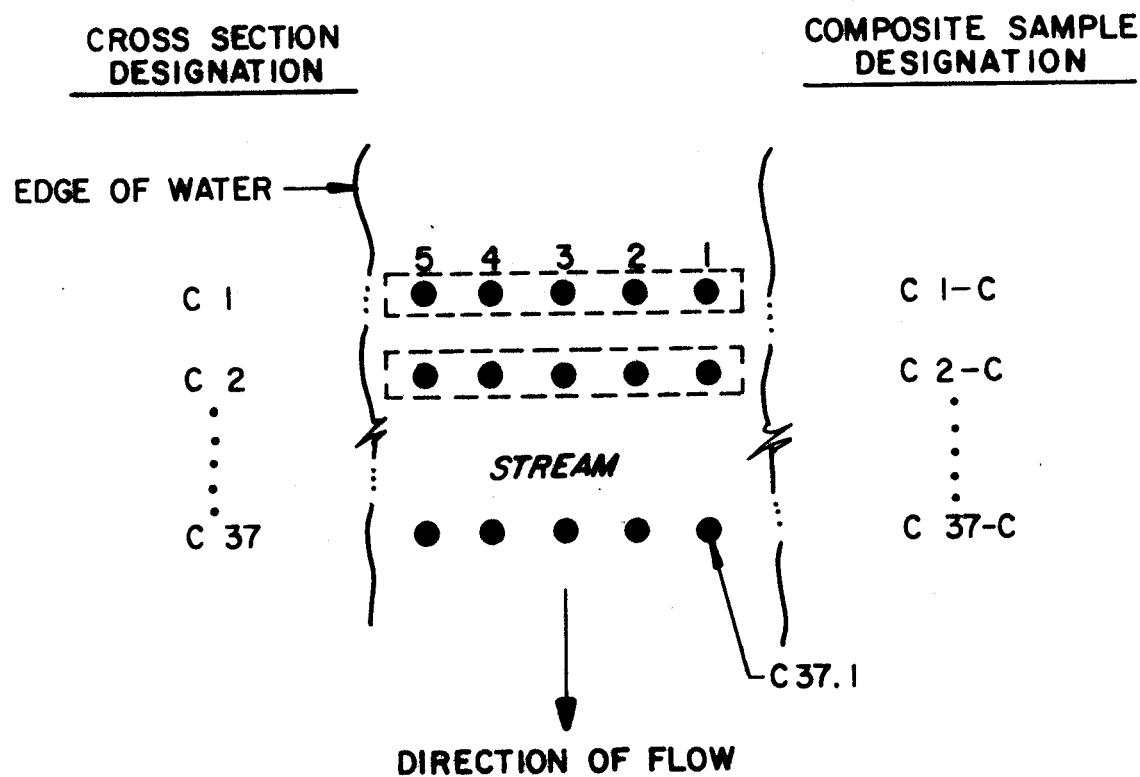
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three storm sewer outfalls (e.g. Lindbergh Avenue Bridge, Read Avenue, and the Pershing Avenue overflow bypass from Lift Station #6), and the Military Road sanitary sewer overflow to Cayuga Creek. Five samples were collected at even intervals across the stream bed at each cross section.

The samples from cross sections C1, C2, C3 and C4 upstream of Cayuga Drive were obtained by wading. All samples in cross sections C5 through C37 were obtained by a crew which operated from a pontoon boat. Sample tubes consisted of 1½-inch steel tubing cut into two-foot sections, with each section used for a single sample. A total of 177 individual cores were taken and 37 cross section composite samples prepared. The creek bed samples were extruded from the sample tubes on June 5 and composited on June 6 and June 9, 1986. All composite samples were shipped to NYSDOH for laboratory analysis. The individual samples were shipped to NYSDOH for future reference or analysis. The compositing and labeling format is illustrated in Figure 5.

Discrete samples could not be obtained at eight of the scheduled sample locations (i.e. locations C31.1, C30.1, C30.2, C29.1, C27.1, C27.3, C27.5 and C3.2). The sample tubes could not penetrate the sediment due to the presence of construction rubble (at cross sections 27, 29, 30 and 31), stones and tree stumps (cross section 3). The composite sample for cross-section 31 was broken during transport to the laboratory, therefore the results are not available.

Work Plan compositing protocols were followed, although the composites prepared for the cross sections where samples could not be collected consisted of proportionately greater portions of the available discrete samples. Cross section C27 is represented by a composite of two samples (i.e. C27.2 and C27.4) which are evenly spaced. Three samples at cross section C30 are more representative of the west side of Cayuga Creek. Cross sections C31, C29 and C3 are each represented by composites of four discrete samples.



● DISCRETE SEDIMENT SAMPLE

[] DISCRETE SAMPLES USED FOR COMPOSITE

LOVE CANAL ADDITIONAL CREEK SAMPLING
CREEK SAMPLE LABELING AND
COMPOSITING FORMAT

2.4 Oak Island

Soil borings with continuous split spoon sampling were taken at three locations on Oak Island over the former creek bed. The Oak Island soil boring logs are attached as Appendix D. Samples of the apparent former creek bed were collected at borings OB-1 and OB-2. Overburden in each of the three borings was composited as described in the Work Plan. Composite sample OB-1 consisted of four individual two-feet deep samples representing the first eight feet of soil depth. Composite sample OB-2 consisted of five individual samples representative of a ten foot depth. Composite sample OB-3 consisted of two individual samples representative of the boring from two to six feet deep. An individual sample of boring OB-3 to two feet deep could not be obtained because the "soil" was mostly discarded concrete rubble. Drilling was stopped at a six foot depth because of the presence of concrete boulders. Attempts at relocating the boring were unsuccessful for the same reason.

Four hand auger samples were collected on Oak Island per the approved sampling protocol (see Figure 3). However, hand augering at location H-2 could not be completed beyond a 30-inch depth because of buried concrete rubble. Composites representative of the entire depth of each hand-augered boring were submitted for analysis, and individual samples were sent to NYSDOH for future reference or analysis.

2.5 93rd Street School Runoff

Storm water runoff samples were collected from the swale located adjacent to the 93rd Street School as shown on Figure 3. One grab sample was collected at 10:30 a.m. during a storm on September 11, 1986. According to the National Weather Service at Buffalo International Airport, the storm of September 11 began at 3:30 a.m. Approximately 0.24 inches of precipitation was recorded by 10:30 a.m., and approximately 0.32 inches of rainfall

was recorded by 1:00 p.m. A second grab sample was collected during a storm on September 15 at 3:00 p.m. Precipitation was measured at 0.42 inches over the eight-hour storm duration from 7:00 a.m. to 3:00 p.m.

3.0 SUMMARY OF ANALYTICAL RESULTS

3.1 Quality Assurance/Quality Control

All sample containers were supplied by the NYSDOH Laboratory for Organic Analytical Chemistry, Wadsworth Center for Laboratories and Research (WCLR). Sample bottles and teflon liners were prepared and "pedigreed" per WCLR protocol. Chain of custody forms were prepared and maintained throughout the sampling and analytical procedure. All individual and composite samples were returned to WCLR for analysis, along with soil field blanks and samples of hexane rinse.

3.2 Methodology

The analysis of samples for 2,3,7,8-tetrachlorodibenzodioxin (2,3,7,8 TCDD) is a complex series of steps involving the use of solvent extraction, liquid chromatography sample "cleanup", followed by capillary gas chromatography/mass spectrometry. WCLR followed a modified USEPA Method 8280 for the dioxin analysis. Quality control criteria included: initial multi-standard calibration curve, daily calibration standard, chromatographic resolution performance check sample, internal standard recovery, blanks, spiked samples and duplicate samples.

During the course of the analysis, different quality assurance techniques were used. The comparison of results from duplicate samples indicated that the repeatability of the analysis was good. Results obtained from spiked samples were consistent with the spiked values. Several blanks and rinse samples were analyzed and found to contain no detectable dioxin at the stated detection limits.

The samples were analyzed for dioxin and results were reported as 2,3,7,8 TCDD. Analytical results are contained in Appendix C. Concentrations of dioxin in soil and sediment samples were reported in nanograms per gram (ng/g); aqueous samples were reported in nanograms per liter (ng/l).

For this contract, NYSDEC required a minimum sample detection limit of 0.2 ng/g dioxin. In practice, sample detection limits vary depending on the percent recovery of a known spike and the degree to which interferences with 2,3,7,8-TCDD are removed during the extraction (cleanup) process. Analytical results which exceeded the sample detection limit were reported as the measured value. Those samples which did not exceed the sample detection limit were reported as "less than" that limit. This designation indicates that the analytical procedure detected no 2,3,7,8 TCDD at the stated limit.

3.3 Creek Sampling Results

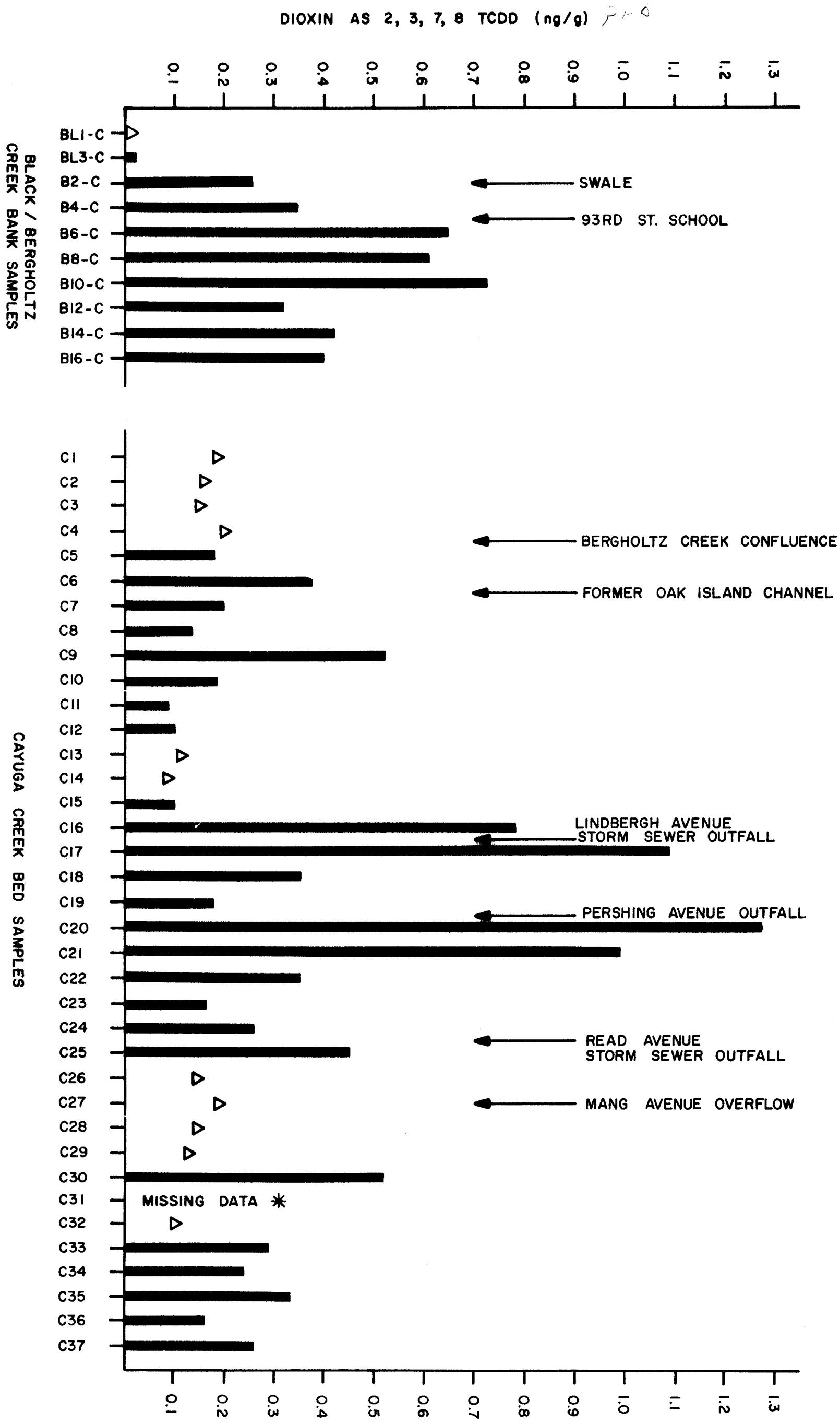
3.3.1 Black and Bergholtz Creek Bank Samples

The results of laboratory analysis of Black and Bergholtz Creek bank samples are summarized in Figure 6 and Appendix C. The dioxin concentration in one of the composite bank samples from Black Creek was reported at less than 0.01 ng/g; dioxin in the other sample was measured at 0.02 ng/g.

Figure 6 illustrates that dioxin concentrations increase steadily as one progresses downstream along Bergholtz Creek. The greatest concentrations of dioxin found in Bergholtz Creek bank composite samples were 0.65 ng/g, 0.61 ng/g and 0.73 ng/g, downstream of the 93rd Street School.

3.3.2 Cayuga Creek Sediment Samples

The analytical results obtained from Cayuga Creek sediment samples are also summarized in Figure 6 and Appendix C. The results indicate a possible relationship between dioxin concentrations and storm sewer outfalls to the creek. A regular pattern of increased concentrations in the vicinity of known storm and sanitary sewer discharges can be observed along the entire length of the creek.



LOVE CANAL ADDITIONAL CREEK SAMPLING
CREEK SAMPLE RESULTS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DECEMBER 1986

The first increase in concentration was detected downstream of the Cayuga/Bergholtz Creek confluence, at a level of 0.38 ng/g. Elevated concentrations of dioxin were also detected at C-16 (0.78 ng/g), C-17 (1.09 ng/g), C-20 (1.28 ng/g) and C-21 (0.99 ng/g). Survey notes which show the exact location of these cross-sections are attached in Appendix B.

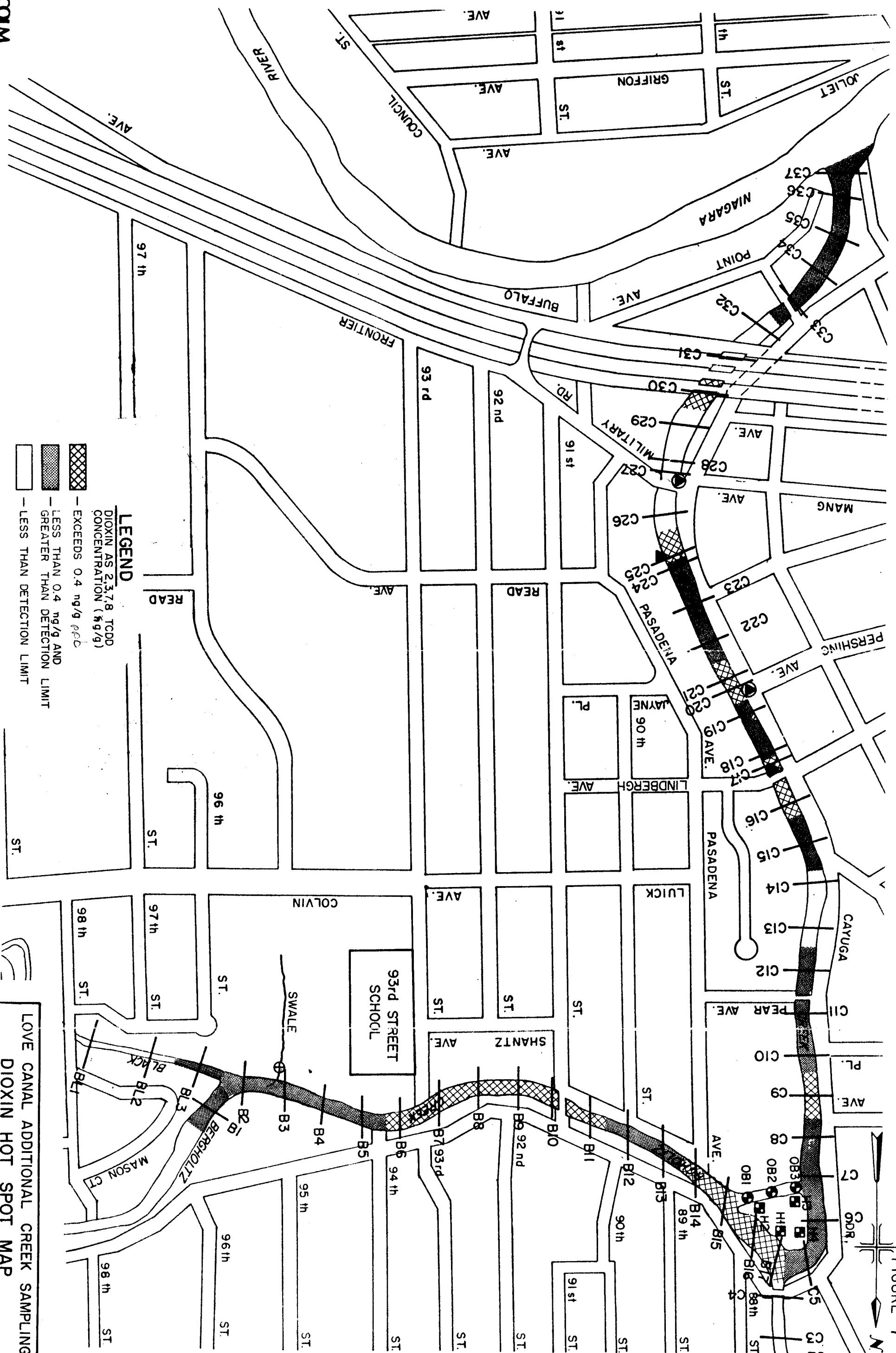
The locations of these dioxin "hot spots" are summarized in Figure 7. Shading indicates the degree of relative concentration. It is clear that dioxin is present in most of the sediments in Cayuga Creek and the bank soils of Bergholtz Creek. The concurrence of detectable dioxin with the location of sewer outfalls is also illustrated in this figure.

3.3.3 Oak Island Soil Samples

Results for Oak Island soil samples obtained from the NYSDEC are reported in Appendix C. Analysis of three composite boring samples (OB1-C, OB2-C, OB3-C) and an individual boring sample (OB1-S5) from the former creek bed did not detect any dioxin at detection limits ranging from 0.08 to 0.27 ng/g. A dioxin concentration of 0.43 ng/g was detected in an individual boring sample (OB2-S6) representative of the former stream bed. Analytical results for the hand auger composite samples were not received from the NYSDOH laboratory.

3.3.4 93rd Street School Stormwater Runoff

Two samples of stormwater runoff from the swale adjacent to the 93rd Street School were collected on September 11, 1986 at 10:30 a.m. and September 15, 1986 at 3:00 p.m. Reported dioxin concentrations were less than the sample detection limits of 1.39 ng/l and 0.49 ng/l, respectively.

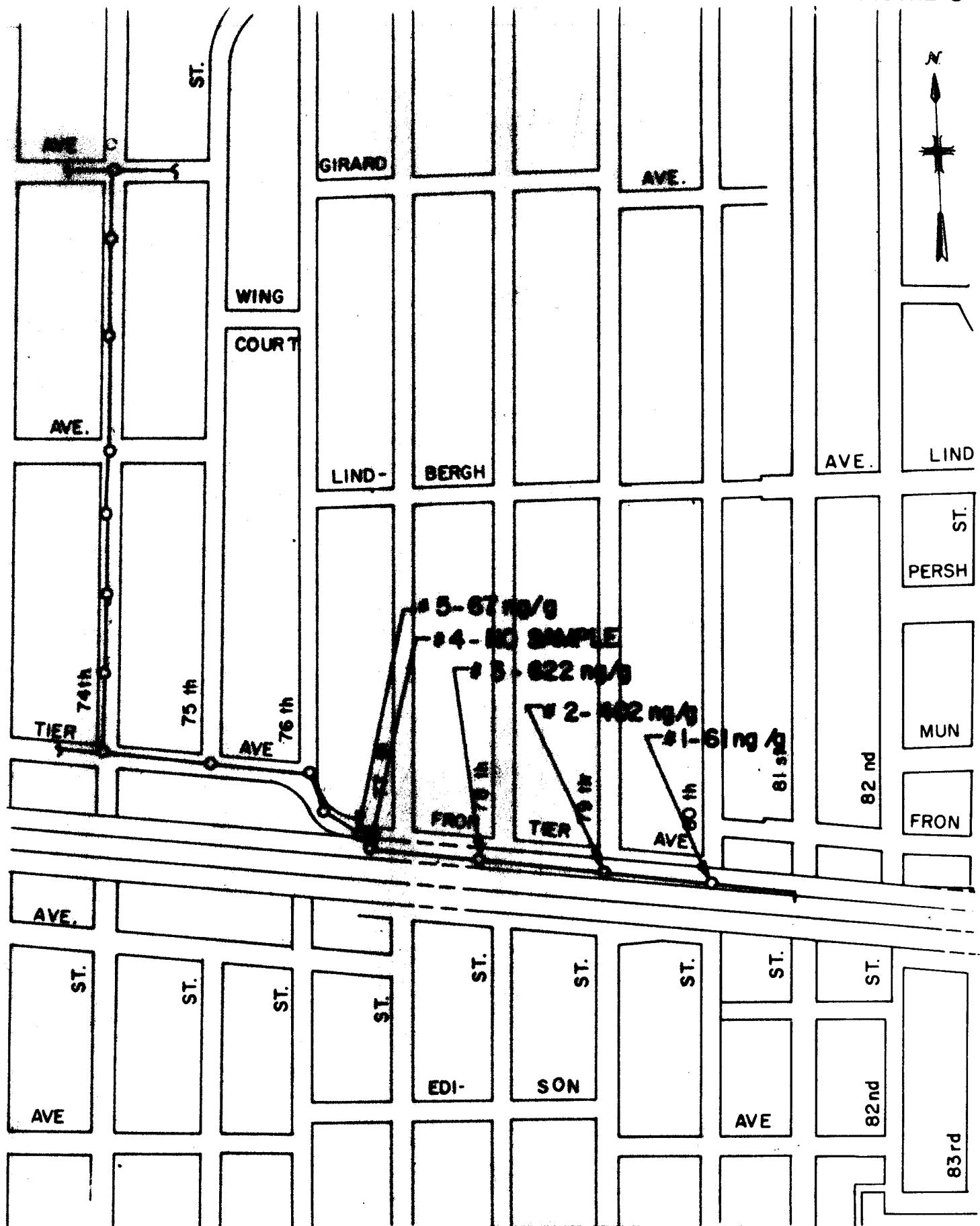


3.4 Sanitary Sewer Sampling Results

Dioxin concentrations in the manholes sampled near Lift Station No. 6 are shown in Figure 8. As previously discussed, sediments could be collected at only four of the sanitary sewers along Frontier Avenue.

<u>Location on Frontier Ave.</u>	<u>Measured Dioxin (ng/g)</u>
80th Street	61
79th Street	402
78th Street	622
100 feet west of 77th Street	67

FIGURE 8



LOVE CANAL ADDITIONAL CREEK SAMPLING
DIOXIN CONCENTRATIONS IN
FRONTIER AVENUE SANITARY SEWER

4.0 SUMMARY OF FINDINGS

1. An inspection of 49 sanitary sewer manholes downstream of Lift Station No. 6 on Frontier Avenue was conducted. Sediment samples were obtained from four manholes. The remaining 45 manholes did not contain sufficient sediment quantity for sampling.
2. Surficial soil samples were obtained at 79 locations along the Black and Bergholtz Creek banks. Detectable concentrations of dioxin ranged from 0.02 to 0.73 ng/g in the composite bank samples. Only one composite bank sample did not exceed the sample detection limit.
3. A total of 177 creek bed sediment samples were obtained from Cayuga Creek. Dioxin was found in most of the Cayuga Creek locations at detectable concentrations ranging from 0.09 to 1.28 ng/g.
4. A spatial relationship appears to exist between the location of sewer outfalls and natural drainages, and the occurrence of elevated dioxin concentrations in creek bank soil and creek bed sediments.
5. Soil borings to a maximum depth of 12 feet were obtained at three locations on Oak Island along the alignment of the former creek bed. Hand-augered soil cores to a maximum depth of four feet were also obtained on Oak Island. Dioxin was detected in one individual sample of the apparent former creek bed at a concentration of 0.43 ng/g.

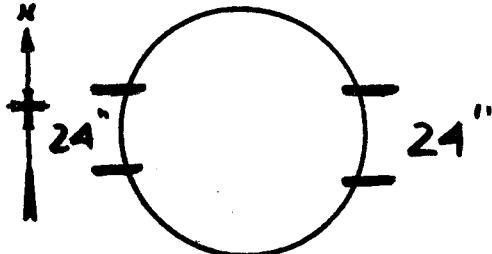
APPENDIX A
MANHOLE INSPECTION LOGS

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LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 1
 STREET FRONTIER
 @ 80th St.

MANHOLE LOCATION <u>(1)</u>	MANHOLE PLAN VIEW <u>(2)</u>		
			
DATE	COMMENTS <u>(3)</u>	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	SEDIMENT ± ½ foot FLOW 12" 8' DEEP ± SAMPLE TAKEN @ 2:30 pm 5-22-86 # 860197	2:30pm	BLACK GRITTY SOLIDS w/ SMALL STONES

- (1) Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- (2) Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- (3) Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

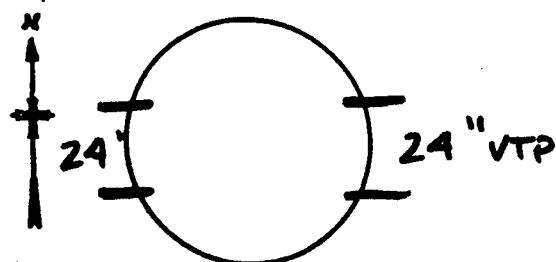
MANHOLE INSPECTION LOG

MANHOLE NO. 2

STREET FRONTIER DR.
@ 79th ST.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③		TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	SEDIMENT 1/2 FOOT ± 8' DEEP ± SAMPLE TAKEN # 860195	5-22-86	3:15	BLACK SANDY DIRT & STONES

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

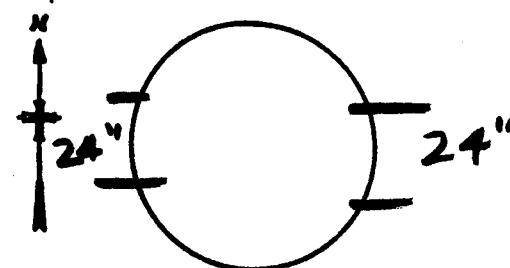
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 3
 STREET FRONTIER AVE
 @ 78th ST.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
	2" SEDIMENT ± 12" FLOW 8" DEEP ± SAMPLE TAKEN # 860206	5-22-86 3:30	BLACK & GREY SLIME & DIAT

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all inverta, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

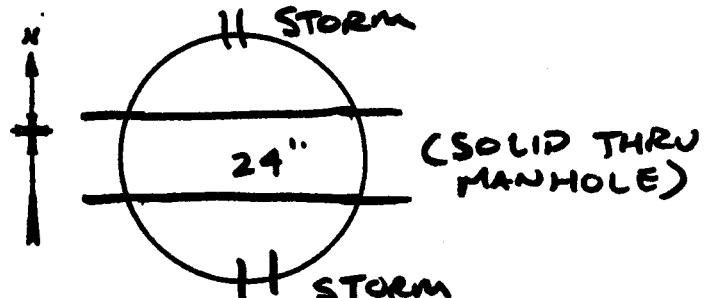
MANHOLE INSPECTION LOG

MANHOLE NO. 4

STREET ~~FRONTIER AVE~~
25' WEST OF 77th ST.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	8' DEEP ± NOT OPEN IN MANHOLE (NO SAMPLE)	5-22-86	

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

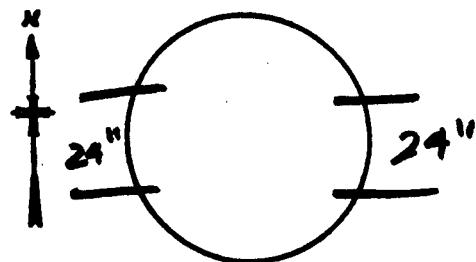
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 5
 STREET FRONTIER Ave
 100' WEST OF 77th St

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



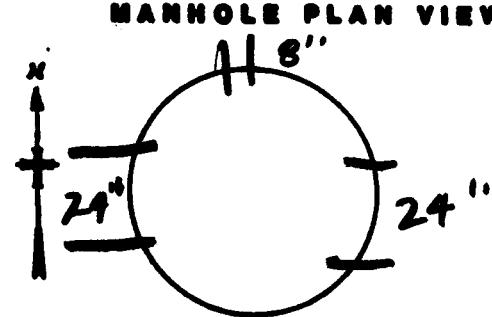
DATE	COMMENTS ③		TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	8' DEEP ± 18" DEPTH FLOW SAMPLE TAKEN # 860195	5-22-86	3:45	BLACK GRIT ? SAND

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 6
 STREET FRONTIER AVE
 @ 76th ST.

MANHOLE LOCATION ①	MANHOLE PLAN VIEW ②		
			
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	MINOR SEDIMENT TO NONE 9'-0" DEPTH		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all inverts, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 7
STREET FRONTIER AVE

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	SANITARY SOLID THRU MANHOLE		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

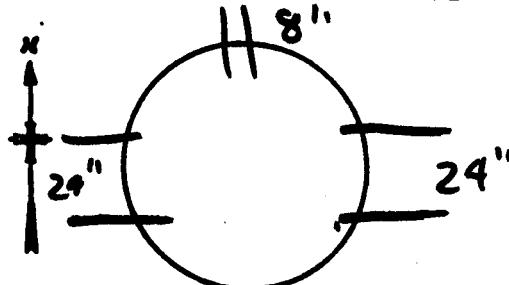
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 7
 STREET FRONTIER A
@ 75th ST.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION COLOR, TEXTURE, ETC.
5-22-86	<p>LITTLE TO NO SEDIMENT</p> <p>8" IN LGT</p> <p>9'-9 DEPTH</p>		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all inverta, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 9
 STREET FRONTIER AVE
74th ST. (INTERSECT)

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
	MAKES A TURN @ 74 th 24" INLET 10.5' DEPTH		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 10
 STREET Frontier Ave.
 @ 74th St.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	STRAIGHT FLOW 10.3' DEPTH NO SEDIMENT		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc.
 A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 11
 STREET Frontier Ave
 C 74th St.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②		
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.	
	NO SEDIMENT 11.3' DEPTH			

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 12
 STREET FRONTIER AVE
 @ 74th ST.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
	NO SEDIMENT 8" FLOW 11.6' DEPTH		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

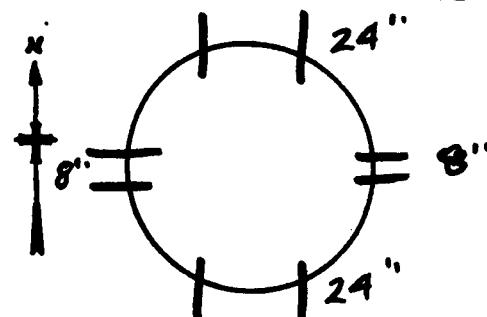
MANHOLE NO. 13

STREET 24th SE.

@ LINDBERGH AVE.

MANHOLE LOCATION (1)

MANHOLE PLAN VIEW (2)



DATE	COMMENTS <u>(3)</u>		TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	11.8' DEPTH NO SEDIMENT			

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

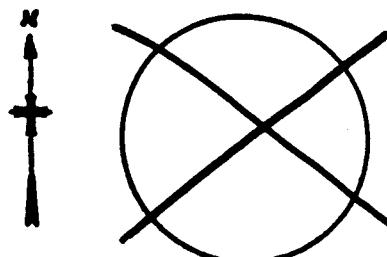
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 14
STREET 74th St.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



SEE NOTE

DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	NOT ABLE TO LOCATE		

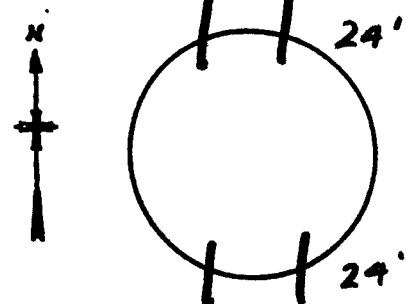
- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc.
A house number should appear in the description.
- ② Information required - depth to all inverta, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 15
STREET 24th St.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②		
DATE	COMMENTS ③		TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86				



- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

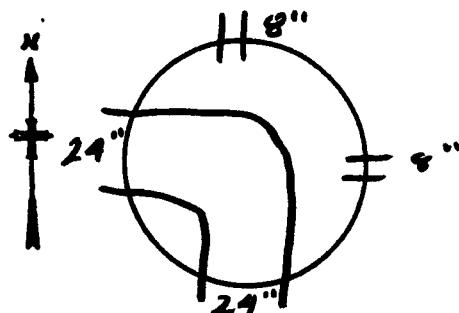
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 16
 STREET 74th ST
@ GIBBARD AVE.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	12" FLOW 13.5' DEEP ~ SMALL AMOUNT OF SEDIMENT		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 17
STREET SIMPSON AVE

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
1-22-86	NOT INCLUDED IN INSPECTION		

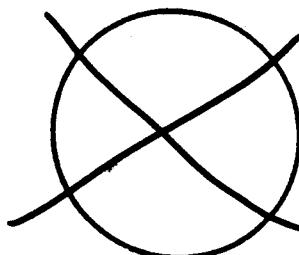
- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 18
STREET GIRARD AVE

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②		SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
DATE	COMMENTS ③	TIME		
5-22-66	NOT INCLUDED IN INSPECTION			



OUT OF
AREA

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 19
 STREET GRARD AVE.
 @ 73RD St.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②		
DATE	COMMENTS ③		TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
	14' ± DEEP NO SEDIMENT			

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

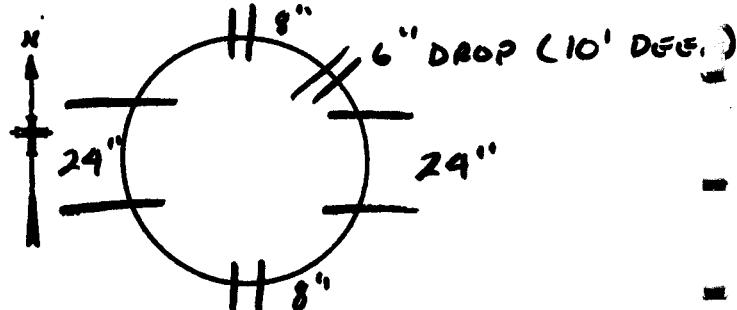
MANHOLE NO. 20

STREET GIRARD Ave

@ 72nd St.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



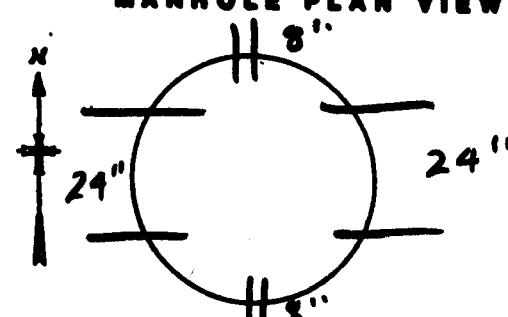
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
	8" Flow		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 21
 STREET GIRARD AVE
 @ 71 st. St.

MANHOLE LOCATION <u>①</u>	MANHOLE PLAN VIEW <u>②</u>		
			
DATE	COMMENTS <u>③</u>	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
	NO SEDIMENT		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all inverta, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 22

STREET GIRARD AVE.
@ 70th ST.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②		
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.	
5-22-86	6-8" FLOW 15' DEEP			

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc.
A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 23
 STREET GIRARD AVE
 @ 69th ST.

MANHOLE LOCATION ⁽¹⁾	MANHOLE PLAN VIEW ⁽²⁾		
DATE	COMMENTS ⁽³⁾		
5-22-86	<p>8" LINES DRY 15'-16' ~ DEPTH NO SEDIMENT</p>		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc.
 A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

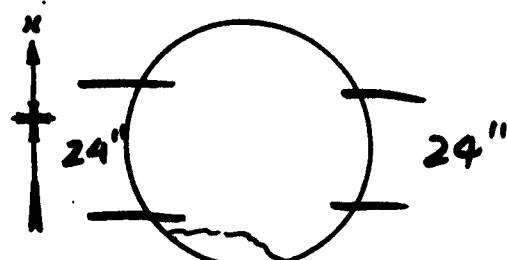
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 24
 STREET GIRARD AVE
 @ 68th ST.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	COULD NOT OPEN MANHOLE COVER WAS CRACKED		

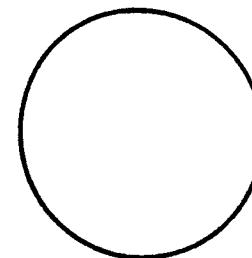
- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 25
 STREET GIRARD AVE
 @ 68th ST.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	COULD NOT BE OPENED		



SEE NOTE

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

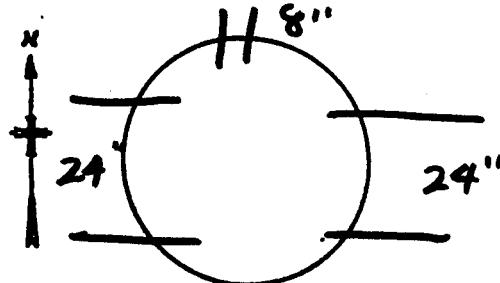
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 25
STREET GIRARD Av
@ 67th ST

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTIVE, COLOR, TEXTURE, ETC.
5-22-86	NO SEDIMENT 8" FLOW ± 15' DEEP		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 27

STREET GIRARD AVE
 @ 66th ST.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
	NO SEDIMENT 16' DEEP		

- ① Location of MH to be shown w/ respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 28
STREET 66th ST.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	6" FROM SCHOOL 16' DEEP NO SEDIMENT		

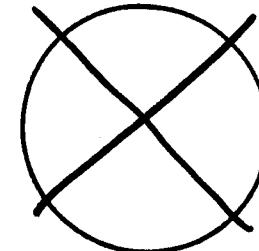
- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc.
A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 29
STREET 66th ST.
@ JOHN AVE.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86			



(SEE NOTE)

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

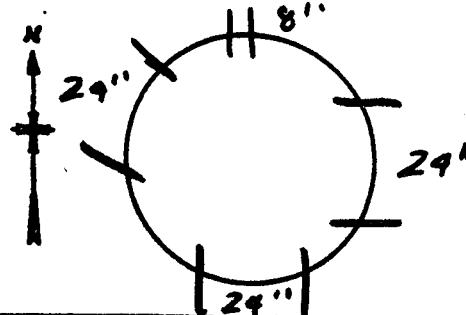
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 30
 STREET 66th ST.
 @ JOHN AVE

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③		TIME	SAMPLE DESCRIPTION COLOR, TEXTURE, ETC.
5-22-86	NO SEDIMENT			

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

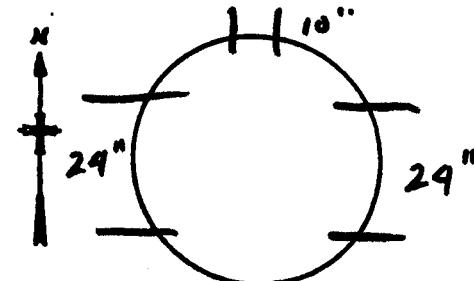
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 31
STREET JOHN AVE

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③		TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
	CORRODED RUNGS 17' ± DEEP			

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc
A house number should appear in the description.
- ② Information required - depth to all inverta, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

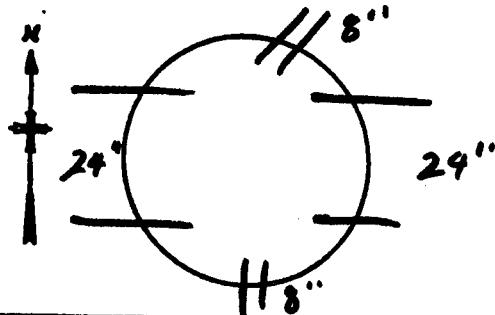
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 32
 STREET JOHN AVE
@ CHEVY ROAD

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	NO SEDIMENT		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 33
STREET JOHN AVE

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86			

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all inverts, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

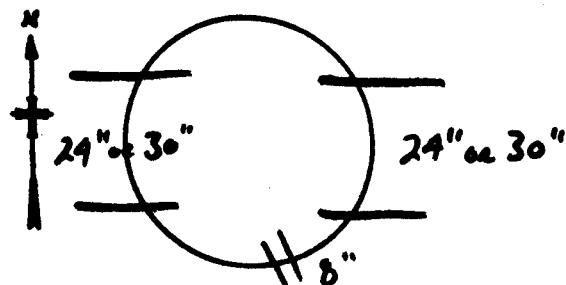
MANHOLE INSPECTION LOG

MANHOLE NO. 34
STREET JOHN AVE

MANHOLE LOCATION ①

75' NW OF CHEVY'S
TALKING SIGN

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	NO SEDIMENT DEPTH OF 18'		

- ① Location of MH to be shown w/ respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 35
STREET JOHN AVE

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	20' DEEP 12" FLOW LOOSE BRICKS RUNGS DESOLVED		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

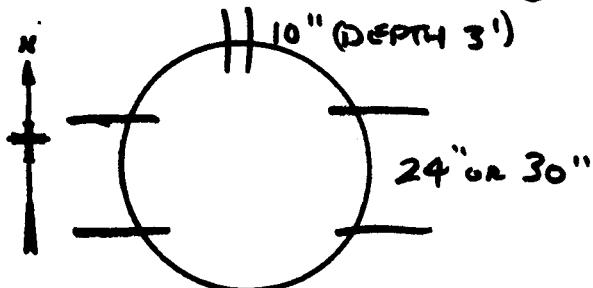
MANHOLE NO. 36

STREET JOHN AYE

@ 61 St. SC.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	18' DEEP VERY TURBULENT FLOW RUNGS SHOT LOOSE BRICKS IN WALLS NO VISIBLE SEDIMENT		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 37
 STREET JOHN AVE
C 60th ST.

MANHOLE LOCATION ⁽¹⁾		MANHOLE PLAN VIEW ⁽²⁾		
DATE	COMMENTS ⁽³⁾	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.	
5-22-86	VERY TURBULENT FLOW NO SEDIMENT VISIBLE			

- ① Location of MH to be shown w/ respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

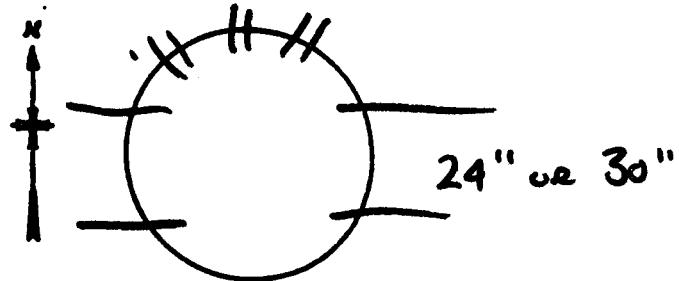
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 38STREET JOHN A E
@ 59th ST.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION COLOR, TEXTURE, ETC.
5-22-86	NO SEDIMENT VISIBLE 12" FLOW 18' ± DEEP		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all inverta, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 39
STREET JOHN AVE

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	NOT ABLE TO LOCATE		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc
A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 40
STREET JOHN AVE

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	10" PIPE ~ 3'-5" BELOW GRADE 18' DEEP RUNGS DISSOLVED NO SEDIMENT		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

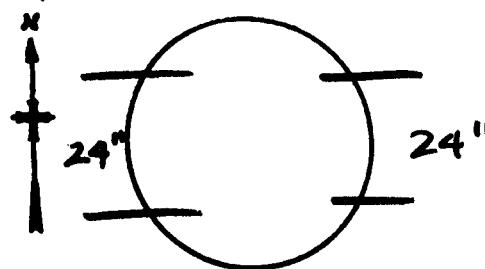
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 21A
STREET GIRARD AVE
BETWEEN 70 & 71st ST.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86			

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 22A

STREET GIRARD AVE

Between 69th; 70th ST

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	16' ± DEEP		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

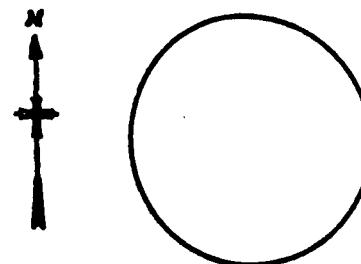
MANHOLE INSPECTION LOG

MANHOLE NO. 23A
STREET GIRARD AVE

MANHOLE LOCATION ①

- 100' EAST OF 69th ST.

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86			

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

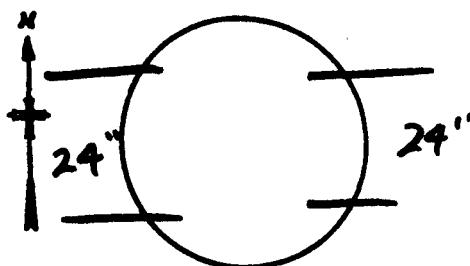
MANHOLE NO. 26A

STREET GIRARD AVE

BETWEEN 66th & 67th St.

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	<p>APPROX 16' ± DEEP 8"-10" FLOW MANHOLE IN FAIR CONDITION</p>		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 27A
 STREET GIRARD
~~GIRARD~~
 & 66th ST.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
1-22-86	16' ± DEEP 12" FLOW VERY TURBULENT RUNGS ROTTED AWAY		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

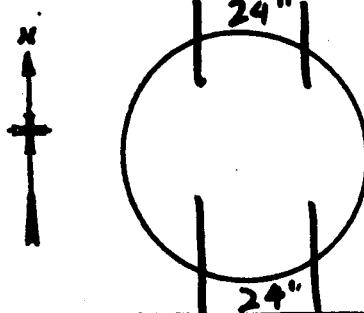
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 28A
 STREET 66th ST
 @ JOHN (SOUTH)

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②



DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION COLOR, TEXTURE, ETC.
	16' DEEP VERY SLOW FLOW 8" DEEP		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 29A
STREET 66th St.

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
	16' ± DEEP 12" FLOW NO VISIBLE SEDIMENT		

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 30A
 STREET JOHNS AVE
 10' WEST OF 66th

MANHOLE LOCATION ①		MANHOLE PLAN VIEW ②	
DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86			

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. 31A
STREET CHEVY DRIVE

MANHOLE LOCATION <u>(1)</u>		MANHOLE PLAN VIEW <u>(2)</u>		
DATE	COMMENTS <u>(3)</u>		TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.
5-22-86	31A - 35 WEST SIDE OF EXPRESSWAY			

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc.
A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

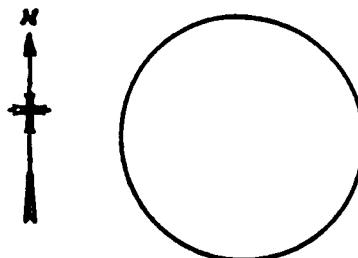
LOVE CANAL ADDITIONAL SAMPLING

MANHOLE INSPECTION LOG

MANHOLE NO. _____
STREET _____

MANHOLE LOCATION ①

MANHOLE PLAN VIEW ②

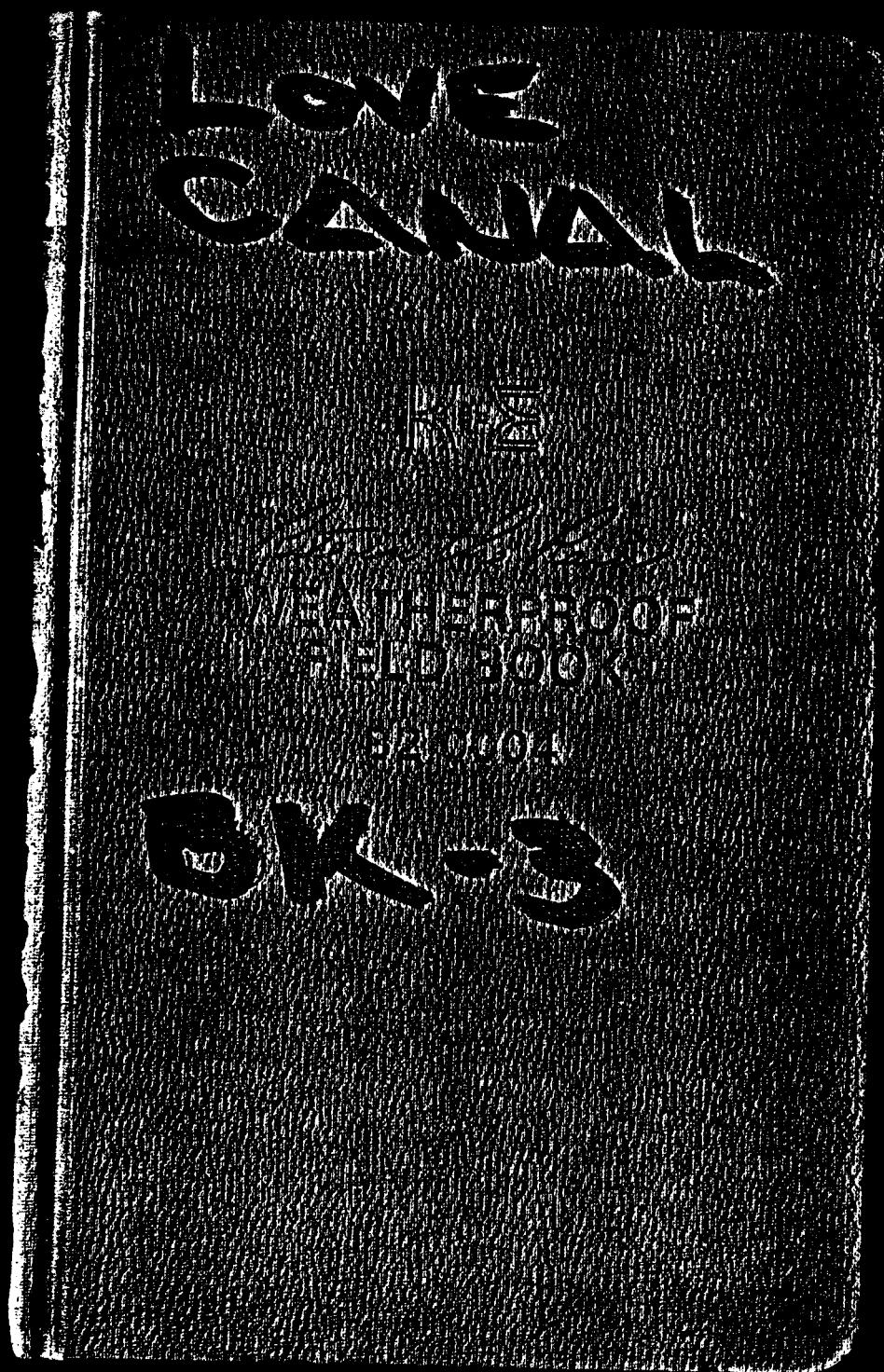


DATE	COMMENTS ③	TIME	SAMPLE DESCRIPTION, COLOR, TEXTURE, ETC.

- ① Location of MH to be shown w/respect to existing telephone poles, edge of driveways, etc. A house number should appear in the description.
- ② Information required - depth to all invert, relative location of all influent and effluent pipe, diameter and material of pipe.
- ③ Examples - Weather, odors from manhole, detection of unsafe condition, volume (depth) of sediment present.

APPENDIX B
SAMPLE POINT LOCATION SURVEY NOTES

**MALCOLM
PIRNIE**



(0)

1+>
1m

01-14-86

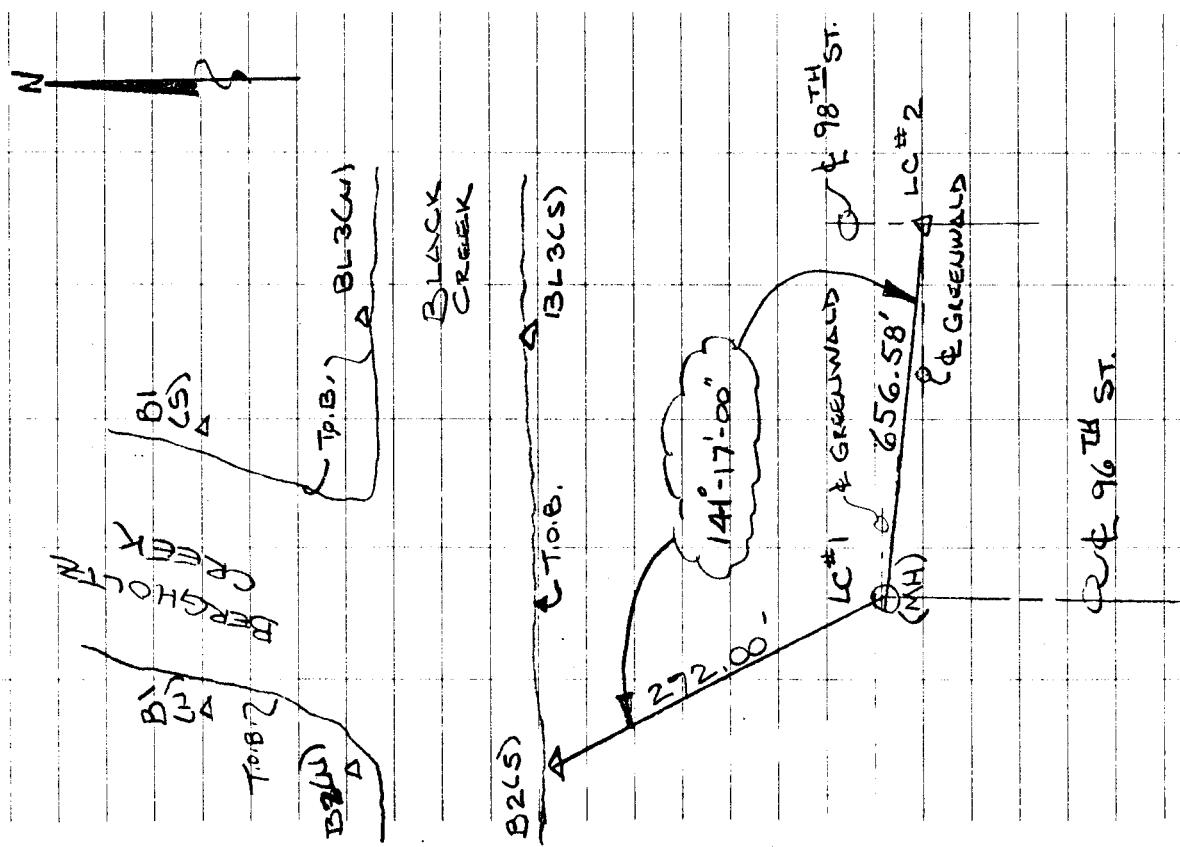
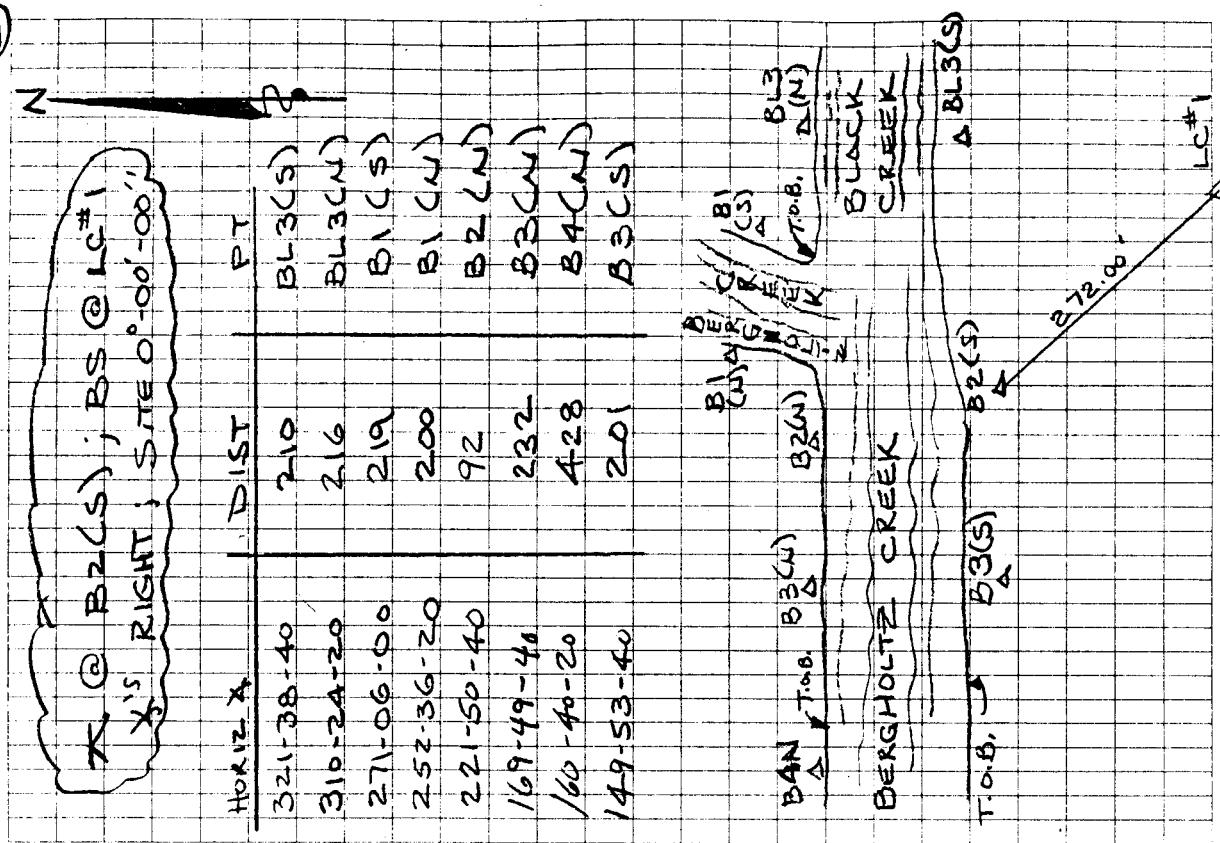
Snow 10°

ESTABLISHING A BASELINE
AROUND BLOCK EBERHOLTZ
CREEKS WITH TIES TO STAKES
ON TOP OF BANKS.

BASELINE BEGINS BY USING POINTS
LC#1 & LC#2 FROM FB#1; PG. 9

SURVEY STAKES ARE SET 200'
APART FROM EACH OTHER
ALONG BOTH SIDES OF BANKS

2



(3)

B3(S) 56' WEST OF FENCE COR. W. OF
B3(N) 83' " " "
B2(S) 26' WEST " " ON S/S CREEK S.
INTER. BERGHOUTZ & BLACK CREEK

TP

11M

2° COR D

01-15-86

CONTINUING TIES TO STAKES ALONG
BLACK & BERGHOUTZ CREEKS

PoINT Horizz Dist

PT BL3(S) X'S - RIGHT
BS PT BL3(S) SITE 0°00'00"

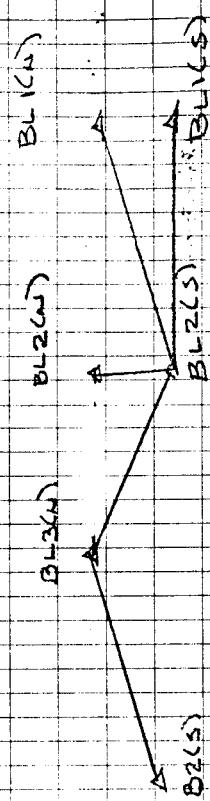
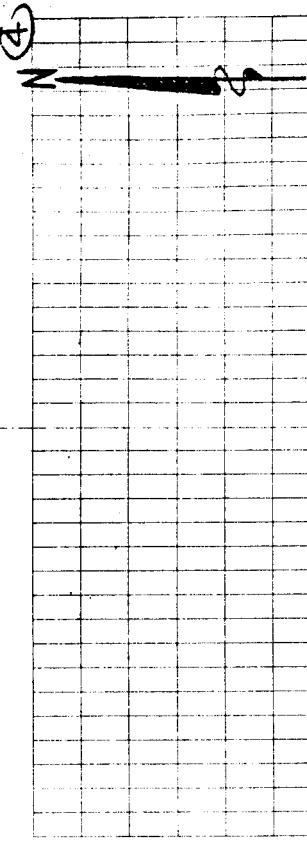
BL2(S) 191°-4'00" 194

PT BL2(S) X'S - RIGHT
BS PT BL3(S) SITE 0°00'00"

BL2(S) 199°3'00" 36

BL1(S) 170°03'00" 208

BL1(S) 179°-17'40" 205



HSE ON MASON CT.

HSE ON
NJS CREEK

	BL 1(S)	BL 2(S)	BL 3(S)	BL 2(S)	BL 1(S)	BL 2(S)	BL 3(S)	BL 1(S)	BL 2(S)
	4'	"	"	"	"	"	"	"	"
	"	27'	"	"	w/s (gen.)	"	"	"	"
	"	"	13'	"	w/s	"	"	"	"
	"	"	"	"	"	"	"	"	"
HSE ON GREENWALD	S/S	"	"	"	"	"	"	"	"
" " MASON CT.	N/S	"	"	"	"	"	"	"	"
HSE ON GREENWALD	S/S	"	"	"	"	"	"	"	"
" " MASON CT.	N/S	"	"	"	"	"	"	"	"

BL 1(S)	2'	EAST OF E/S BROWN HSE	"	BL 1(S)	4'	"	"	"	"
BL 2(S)	"	"	"	BL 2(S)	"	"	"	"	"
BL 3(S)	"	"	"	BL 3(S)	"	"	"	"	"
BL 2(S)	"	"	"	BL 2(S)	"	"	"	"	"
BL 1(S)	"	"	"	BL 1(S)	"	"	"	"	"
BL 2(S)	"	"	"	BL 2(S)	"	"	"	"	"
BL 3(S)	"	"	"	BL 3(S)	"	"	"	"	"
BL 1(S)	"	"	"	BL 1(S)	"	"	"	"	"
BL 2(S)	"	"	"	BL 2(S)	"	"	"	"	"
BL 3(S)	"	"	"	BL 3(S)	"	"	"	"	"

POINT HOLE DIST

X CPT B3(S); BS PT B2(S)
X'S RIGHT; SITE 0°-00'-00"

B4(S) 174°36'20" 200

X CPT B4(S); BS PT B2(S)
X'S RIGHT; SITE 0°-00'-00"

B5(S) 182°56'00" 200

B6(S) 183°52'40" 402

B6(N) 193°30'20" 420

B5(U) 228°55'00" 240

X CPT B2(S); BS PT B2(S)
SITE 0°-00'-00"; X'S RIGHT

AT END
4° 93' 259°18'00" 106

TO HOLE 293°35'20" 103
BY BRIDGE

INT 42.
93' 317°09'20 160

CAYUGA

B7(S) 264°46'00 192

B7(N) 288°36'00 210

(5)

1' WEST OF FENCE LINE AND S/S CREEK
18' WEST OF W/S SCHOOL AND S/S CREEK
30' WEST OF W/S RIVERHOUSE #9309 (CONSTRUCTED)
25' EAST OF E/S GREEN HILL #9302 (CONSTRUCTED)

(BRICK MINE)

6' EAST OF W/S HILL #130 AND #325-51-
26' WEST; E/S #130 "

Point Head & Dist

K C PT B7(N); BSC PT B6(N)
X - RIGHT; SITE 0°00'00"

B8(N) 149°-26'40" 200
B9(N) 149°-38'45" 400

B8(S) 126°-50'20" 262

B9(S) 136°-51'20" 454

15' EAST
WEST OF W/S HSE #
CAYAY
ON W/S HSE # 9/38 ON SHANTZ ST.
WEST OF E/S HSE # (FALLS DOWN) ON SHANTZ ST.

9210
CAYAY (white w/mar)

K C PT B9(S); BSC PT B7(N)
X - RIGHT; SITE 0°00'00"

B9(N) 304°-24'00" 111

INTER.
CAYAY EAST 322°-08'00" 186
92 NO 3 ST.

B10(N) 259°-48'00" 246

B10(S) 240°-31'00" 200

10' EAST OF BRIDGE @ 9155
7.5' EAST OF BRIDGE @ 9157

POINT HORIZ. DIST

$\pi @ PT B10(s)$; BSC@PT B9'(n)
S. RT 0° 00' 00"; F.S. RIGHT

INTER.
9^{ft}
BROOKSIDE
228°-21'-20" 200

B11(s) 228°-21'-20" 200

$\pi @ PT B11(s)$; BSC@PT B10(s)
S. RIGHT; SINE 0°-00'-00"

B11(n) 241°-11'-00" 96

INTER.
9^{ft}
ST. 289°-05'-20" 151
CAYUGA

B12(n) 191°-03'-00" 240

B12(s) 179°-11'-20" 192

ON E/S HSE + 8920 CAYUGA
F. 6' W. or E/S HSE 8929 BROOKSIDE

(7)

3' WEST OF E/S HSE + 9017 BROOKSIDE

12' EAST OF E/S HSE + 9017 BROOKSIDE

16' WEST OF E/S HSE + 8920 CAYUGA

POINT HORN DIST

(@ PT B12'(N), BS @ PT B11'(C))
X - RIGHT SITE 0°-00'-00"
INTER. CANYON 315-04-20" 57
9TH ST.

B13(N) 174°-30'-00" 200

INTER.
CANYON 190°-11'-00" 232
8TH ST.

B14(N) 182°-04'-20" 392

B13(S) 153°-48'-40" 184

B14(S) 164°-37'-00" 370

B15(N) 8° E. OF GREEN Mtn & 8850 ON N/S
E 14' S. OF E. CAYUCAS DR.

B15(S) 43° E. " " "

B16(N) 18' W. OF & 8870 ST. # 33'S. OR

B16(S) 23° E. " " "

B17(S) 15' W. OF INSIDE E. EDGE Box corner
B17(N) AT " "

" E 20' S. OF CAYUCAS DR.

3' WEST OF E/S # 8911 (BOOKS)

'WEST OF W/S HSE # 8372 CAYUCAS DR.

ON E/S HSE # 8911 (BOOKS)

32' WEST OF W/S HSE # 8850 (BOOKS)

OF CAYUCAS DR.

d. CAYUCAS

8.

(9)

TIES TO CAYUGA CREEK
STRAKES ON BOTH SIDES OF
BANK @ 200' INTERVALS

1 + 1
1 - 1
1 - 1

03-12-86
SON 32°

* ALL TIES TO ROADS ARE ALONG
T.O.B. PROJECTED TO THE ROADS

Stavke

C1(W) 95' TO N. FAUX BLVD. E 55' TO SURFACE OF BRIDGE
 C1(E) " " " " "

C2(W) 19' N OF SE COR. BRAND WAMES STORE* (CORNER CLOSEST TO ROAD)
 C2(E) 21' " " "

C3(W) 18'S. OF N/S GRAY HSE* 1234 ON 38TH ST. ON E 1/2 CREEK
 C3(E) 3' N. OF N/GRAY HSE* 1234 ON BOTH ST. " "

C4(W) 28' N. OF E. CAYUCAS DR. E 4' TO SURFACE OF BRIDGE
 C4(E) 95' " " "

C5(W) 9' E. OF E. CAYUCAS DR. E 69' TO SURFACE OF BRIDGE
 C5(E) 29' W. OF N/S HSE* 1234 ON CAYUCAS DR.
 C6(W) 5' W. OF N/S HSE* 1234 ON CAYUCAS DR.
 C6(E) ON N/S HSE* 19' E. OF E. CAYUCAS DR.

STAKE

C7(w) 21' S. OR N/S HSE #1216 (BRICK) ON WLS CAYUGA & 31' E. OF THE RD.

C7(e) 11' S. OF N/S HSE # 1175 ON CREEK.

C8(w) 5' S. OF THE BOLIER AVE. &

C8(e) " " " "

C9(w) 142' N. OF THE JACOB PL. E

C9(e) " " " "

C10(w) 58' S. OF " " E

C10(e) 58' " " "

C11(w) 48' S. OF PEAR AVE BRIDGE

C11(e) " " " "

C12(w) 8' N. OF N/S HSE #1036 (GRAY) E

C12(e) 2' N. OF N/S HSE # 1026 (BLACK) E
E 3RD HSE S. OF PEAR ON E/S CREEK
BROWNSIDE ON CREEKSIDE

STAKE

- (12)
- C13(w) 34' S. OF TAN POLE w/CAUTION LIGHTS ON E/S RD. & 17' E. OF CAYUGA DR.
- C13(e) 18' S. " " " "
- " " " "
- C14(w) 83' N. OF MILITARY RD. @ T.O.C. & 22' E. OF CAYUGA DR
- C14(e) ON N/S HSE # 960 (GRAY HSE w/ RED ROOF) ON CREEK SIDE
- C15(w) 47' S. OF S/S HSE # 932 CAYUGA DR (BRICK W/RED ROOF) & 22' E. OF E. RD.
- C15(e) 9' S. OF N/S HSE # 924 (WHITE HSE w/BLACK TRIM) ON CREEK SIDE
- C16(w) 89' N. OF E. LINDBERGH AVE. & 19' E. OF CAYUGA DR (26' WIDE)
- C16(e) 37' N. " " "
- " " "
- C17(w) 36' S. OF E. LINDBERGH AVE.
OUTFALL
- C17(e) 35.5' S. " " "
- " " "
- C18(w) 111' S. OF E. LINDBERGH AVE. & 8.5' E. OF E. CAYUGA DR.
- C18(e) 163' S. OF " "

STAKE

(13)

C19(E) 93' N. OF PERSHING ST.

C20(W) 10' N. OF PERSHING ST.
OUTFALL

C20(E) 10' N. OF PERSHING ST. E
OUTFALL

C21(E) 108' S. OF PERSHING ST. E

C21(W) 65' S. OF PERSHING ST. E

C22(W) 10' S. OF S/S CHURCH AND CAYUGA &

C22(E) 47' " " "

C23(E) 25' S. OF T MUNSON AVE.

C23(W) C/N. OF MUNSON AVE. & 23' E. OF CAYUGA.

C24(W) ON N/S LADY BAPTIST CHURCH E

C24(E) 1' N. OF N/S HSE # 700 (BLACK)

ON PASADENA

E 25' E OF CAYUGA DR.

24' E. OF CAYUGA DR.

opposite to walk to church

32' E. OF CAYUGA DR.

34' E. OF CAYUGA DR.

(14)

STAKE

3' N. OF
LAWN HSE)

C25(w) 3' N. OF S/S HSE #636 (Redshirre)

at 21.5' E. OF CAYUGA

C25(e) 5' S. " "

C26(e) 150' N. OF E MILITARY Rd.

C26(w) 62' N. OF E MILITARY Rd.

C27(e) 45' S. OF E MILITARY Rd.
OUTFALL

C27(w) 64' S. OF E MILITARY Rd.

C28(e) 50' S. OF E MILITARY Rd.

C28(w) 138' S. OF E MILITARY Rd.

at 9' W. OF S/S BRICK SHED ON

BFLD. AVE.

C29(w) 6.5' S. OF GREEN HSE #515 ON

C29(e) 9' N. OF S/S GRAY HSE ON E/S OF
CREEK. (N. OF FENCE LINE & EXTENDED
FENCE LINE & FENCE LINE TO T.O.R. ON W/S)

C30(w) 29' S. OF FENCE LINE ON E/S

C30(e) 1' N. OF "

STAKE

C 31(E) 132' N. OF BELLO. AVE (Yellow Line) @ S/S 2 1/2" PLACE N. OF BELLO. AVE.

C 31(W) 147' N. OF BELLO. AVE. (" ") @ H/S 2 1/2" "

C 32(E) 68' S. OF BELLO. AVE. (" ")

C 32(W) 53' S. OF BELLO. AVE. (" ")

C 33(E) 77' N. OF E BRIDGE - LEADING TO POINT AVE

C 33(W) 21' S. OF " " "

C 34(W). BEHIND HSE # 731 BELLO. AVE. UNDER BOAT STAGE

C 34(E) BEHIND HSE # 8732 (BUILT 19^H) POOL (CENTER OF HSE)
POINT ST.

C 35(W) 2' N. OF S/S "RED LIFT CRANE" AT MARINA - ENGINE CENTER

C 35(E) 2' S. OF N/S "RED LIFT CRANE"

C 36(W) 9' N. OF S/S HSE # 71

C 36(E) 15' N. OF N/S HSE # 8701 ON POINT AVE

GREEN/WHITE

AT MARINA "ENGINE CENTER"

(5)

STAKE

C 37(W) AT END OF S. 87TH ST. BY RIVER

C 37(E) AT END OF BANK BY RIVER

* C 36(E) TO C 37(E) IS 190' APART
DUE TO BANK ENDING

(16)

7' N. OR N/EDGE POINT @ END OF ST. WALL
AT N. OF CONC. BANK AT RIVER
AT ENDING IN WALL "LIVING 190"

(17)

ADDITIONAL TIES TO STAKES
ON BERGHOLTZ CREEK

JRD
JMN

3-13-86
CLOUDY 32°

STAKE

B6 (S) 89' E. of & 93rd ST.

B6(N) 87' E.

B7 (S) 110' W. "

B7(N) 91' W. "

B8 (N) 128' to & 92nd & CAYUGA

B9 (N) 44' W. of & 92nd ST.

B13 (S) 1' W. of & 89th ST.

B14 (N) 17' W. across road to & 89th ST.

B13 (N) 3' W. of & 89th ST.

B12 (N) 49' W. of & 90th ST.

APPENDIX C
LABORATORY ANALYTICAL RESULTS

**MALCOLM
PIRNIE**

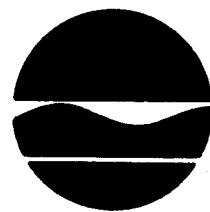
According to the chain-of-custody record, the analytical results labelled "C31-C" should be "C34-C". Correspondence from NYSDEC on July 9, 1986 indicates bottle number 860300 (C31-C) was broken during shipping to NYSDOH. The bottle number 860315 reported on the NYSDOH Results of Examination form for "C31-C" corresponds to sample "C34-C" on the chain-of-custody record. Adjustments have been made as necessary for this report.

SUMMARY OF ANALYTICAL RESULTS

<u>SAMPLE DESIGNATION</u>	<u>DIOXIN CONCENTRATION (ng/g)</u>	<u>SAMPLE DESIGNATION</u>	<u>DIOXIN CONCENTRATION (ng/g)</u>
C1-C	<0.19		
C2-C	<0.17		
C3-C	<0.16	BL1-C	<0.01
C4-C	<0.20	BL3-C	0.02
C5-C	0.18	B2-C	0.26
C6-C	0.38	B4-C	0.35
C7-C	0.20	B6-C	0.65
C8-C	0.14	B8-C	0.61
C9-C	0.52	B10-C	0.73
C10-C	0.19	B12-C	0.32
C11-C	0.09	B14-C	0.42
C12-C	0.10	B16-C	0.40
C13-C	<0.12		
C14-C	<0.09	MH-1	61
C15-C	0.10	MH-2	402
C16-C	0.78	MH-3	622
C17-C	1.09	MH-5	67
C18-C	0.36		
C19-C	0.18	RUNOFF:	
C20-C	1.28	9/11/86	<1.39 ng/l
C21-C	0.99	9/15/86	<0.49 ng/l
C22-C	0.35		
C23-C	0.16	OB1-C	<0.08
C24-C	0.26	OB2-C	<0.13
C25-C	0.45	OB3-C	<0.11
C26-C	<0.14	OB2-S6	0.43
C27-C	<0.18	OB1-S5	<0.27
C28-C	<0.14		
C29-C	<0.13		
C30-C	0.52		
C32-C	<0.10		
C33-C	0.29		
C34-C	0.24		
C35-C	0.33		
C36-C	0.16		
C37-C	0.26		

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233-



Henry G. Williams
Commissioner

October 30, 1986

Mr. Paul Werthman
Malcolm Pirnie, Inc.
3619 Packard Road
Niagara Falls, NY 14303

Dear Mr. Werthman:

Re: Amendment to Contract No. D00303,
Love Canal Additional Creek Sampling
and Sanitary Sewer Inspection

Enclosed are copies of the New York State Department of Health's report of the laboratory examination for the samples collected under the subject project.

It appears from these reports that the Oak Island bore samples were not analyzed. When these results are received, they will be forwarded to you. These are provided to you for inclusion in the final engineering report for this project which will be prepared by Malcolm Pirnie.

I will call you to schedule the submission of the final engineering report.

Very truly yours,

A handwritten signature in black ink, appearing to read "Guy T. Bobersky".

Guy T. Bobersky, P.E.
Senior Sanitary Engineer
Remedial Section A
Bureau of Western Remedial Action
Division of Solid and Hazardous Waste

GTB/kw
Enclosure
cc: D. Garbarini

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62825 SAMPLE RECEIVED: 86/06/207 CHARGE: 24.90
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY
DESCRIPTION: FRONTIER AVE. MANHOLE SEDIMENT SAMPLES MH#1, 860198
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC:DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 610: SEDIMENT
TIME OF SAMPLING: 86/05/22 : TO 86/05/22 : DATE PRINTED: 86/10/14

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55333 2,3,7,8-TETRACHLORODIBENZODIOXIN	61. NANOGRAM/Q
T01109 PERCENT DRY SOLIDS	62. 67 PERCENT

**** END OF REPORT ****

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62826 SAMPLE RECEIVED: 86/06/207 CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY
DESCRIPTION: FRONTIER AVE., MANHOLE SEDIMENT SAMPLES MH#2, B60193
REPORTING LAB: TOX LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 610: SEDIMENT
TIME OF SAMPLING: 86/05/22 : TO 86/05/22 : DATE PRINTED: 86/10/14
ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55335 2,3,7,8-TETRACHLORODIBENZODIOXIN	402. NANOGRAM/G
T01106 PERCENT DRY SOLIDS	34.80 PERCENT

***** END OF REPORT *****

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FINAL REPORT

1 SAMPLE ID: 62827 SAMPLE RECEIVED: 86/05/20/ CHARGE: 24.50
2 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
3 SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
4 POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
5 LATITUDE: LONGITUDE:
6 LOCATION: LOVE CANAL CREEKS STUDY Z DIRECTION:
7 DESCRIPTION: FRONTIER AVE., MANHOLE SEDIMENT SAMPLES, MH#3, 860201
8 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
9 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
10 SAMPLE TYPE: 610: SEDIMENT
11 TIME OF SAMPLING: 86/05/22 : TO 86/05/22 : DATE PRINTED: 86/10/14
12 ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER

RESULT

13 TS5333 2,3,7,8-TETRACHLORODIBENZODIOXIN 622. NANOGRAM/G
14 T01106 PERCENT DRY SOLIDS 37.70 PERCENT

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PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62828 SAMPLE RECEIVED: 86/06/207 CHARGE: 24.50
 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
 SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
 POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION LOVE CANAL CREEKS STUDY

DESCRIPTION: FRONTIER AV., MANHOLE SEDIMENT SAMPLES, MPH#5, 880195
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
 SAMPLE TYPE: 6 TO 5 SEDIMENT
 TIME OF SAMPLING: 86/05/22 : TO 86/05/22 : DATE PRINTED: 86/10/14

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER

RESULT

755333 2,3,7,8-TETRACHLORODIBENZODIOXIN	57. NANOGM/G
T01108 PERCENT DRY SOLIDS	56.89 PERCENT

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64780 SAMPLE RECEIVED: 86/09/127 CHARGE: 30.00
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY
DESCRIPTION: 93RD ST SCHOOL SWALE RUNOFF 860013
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXW: TETRACHLORODIBENZODIOXINS AND/OR FURANS IN WATER
SAMPLE TYPE: 200: PRECIPITATION, RAIN WATER
TIME OF SAMPLING: 86/09/11 10:30 TO 86/09/11 10:30 DATE PRINTED: 86/10/14
ANALYSIS: DIOXW TETRACHLORODIBENZODIOXINS AND/OR FURANS IN WATER

PARAMETER	RESULT
T91030 CLEAN-UP FOR TCDD/TCDF ANALYSIS	DONE
T55325 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 1.39 NANOGRAM/L
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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID:	64822	SAMPLE RECEIVED:	86/09/16	CHARGE:	60.00
PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
SOURCE ID: LC-CREEK	DRAINAGE BASIN: 01	GAZETTEER CODE: 3102			
POLITICAL SUBDIVISION: NIAGARA FALLS C.	COUNTY: NIAGARA				
LATITUDE:	LONGITUDE:	Z DIRECTION:			
LOCATION: LOVE CANAL CREEKS STUDY					
DESCRIPTION: 93RD ST SCHOOL SWALE RUNOFF 860023					
REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
TEST PATTERN:	DIOXW: TETRACHLORODIBENZODIOXINS AND/OR FURANS IN WATER				
SAMPLE TYPE:	200: PRECIPITATION, RAIN WATER				
TIME OF SAMPLING: 86/09/15 15:	TO 86/09/15 15:	DATE PRINTED: 86/10/14			
ANALYSTS: DIOXW TETRACHLORODIBENZODIOXINS AND/OR FURANS IN WATER					

PARAMETER	RESULT
T91070 CLEAN-UP FOR TCDD/TCDF ANALYSIS	DONE
155335 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.49 NANOGRAM/L
***** END OF REPORT *****	

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62836 SAMPLE RECEIVED: 86/06/207 CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LCCREEK2 DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE
DESCRIPTION: C1-C 860234
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 600: SOIL, SAND
TIME OF SAMPLING: 86/05/30 : TO 86/06/09 : DATE PRINTED: 86/10/14

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T56333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.19 NANOGRAM/G
T01108 PERCENT DRY SOLIDS	65.90 PERCENT

***** END OF REPORT *****

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62837 SAMPLE RECEIVED: 86/06/207 CHARGE: 24.50
 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
 SOURCE ID: LCCREEK2 DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
 POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE
 DESCRIPTION: C2-C B60235
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
 SAMPLE TYPE: 600: SOIL, SAND
 TIME OF SAMPLING: 86/05/30 : TO 86/06/09 : DATE PRINTED: 86/10/14

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55G33 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.17 NANOGRAM/G
T01108 PERCENT DRY SOLIDS	64.53 PERCENT

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RESULTS OF EXAMINATION

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1	SAMPLE ID:	62838	SAMPLE RECEIVED:	86/05/20/	CHARGE:	24.50	
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT					
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102	
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.					
5	LATITUDE:	LONGITUDE:					
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE					
7	DESCRIPTION:	C3-C	860236				
8	REPORTING LAB:	TOX. LAB FOR ORGANIC ANALYTICAL CHEMISTRY					
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES					
10	SAMPLE TYPE:	600: SOIL, SAND					
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14	
12	ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT				
13	PARAMETER						RESULT
14	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.16 NANOGM/G					
15	TO1108 PERCENT DRY SOLIDS	58.96 PERCENT					
16	***** END OF REPORT *****						
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RESULTS OF EXAMINATION

FINAL REPORT

1	SAMPLE ID:	62B39	SAMPLE RECEIVED:	86/05/207	CHARGE:	24.50	
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT					
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102	
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			COUNTY:	NIAGARA	
5	LATITUDE:	LATITUDE:			Z DIRECTION:		
6	LOCATION:	LOCATION: LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE					
7	DESCRIPTION:	C4-C	860237				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY					
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES					
10	SAMPLE TYPE:	600: SOIL, SAND					
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14	
12	ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT				
13	PARAMETER			RESULT			
14	T55333	2, 3, 7, 8-TETRACHLORODIBENZODIOXIN		< 0.20 NANOMG/G			
15	T01108	PERCENT DRY SOLIDS		53.25 PERCENT			
16	**** END OF REPORT ****						
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RESULTS OF EXAMINATION

FINAL REPORT

1 SAMPLE ID: 62B40 SAMPLE RECEIVED: 86/06/207 CHARGE: 24.50
 2 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
 3 SOURCE ID: LCGREEK2 DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
 4 POLITICAL SUBDIVISION: NIAGARA FALLS C.
 5 LATITUDE: LONGITUDE: Z DIRECTION:
 6 LOCATION: LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE
 7 DESCRIPTION: CS-C 860238
 8 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 9 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
 10 SAMPLE TYPE: 600: SOIL, SAND
 11 DATE OF SAMPLING: 86/05/30 : TO 86/06/09 : DATE PRINTED: 86/10/14
 12
 13 ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT
 14
 15 PARAMETER RESULT
 16 T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN 0.18 NANOGRAM/G
 17 T01108 PERCENT DRY SOLIDS 50.90 PERCENT
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 19 **** END OF REPORT ****
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FINAL REPORT

1	SAMPLE ID:	62841	SAMPLE RECEIVED:	86/06/20/	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA
5	LATITUDE:	LONGITUDE:				Z DIRECTION:
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C6-C	860239			
8	REPORTING LAB:	TOX-LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
12	ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT			
13	PARAMETER					RESULT
14	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN					0.38 NANOGRAM/G
15	T01108 PERCENT DRY SOLIDS					52.48 PERCENT
16	**** END OF REPORT ****					
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WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT (REV)

1	SAMPLE ID:	62842	SAMPLE RECEIVED:	86/06/20/	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			COUNTY:	NIAGARA
5	LATITUDE:	LONGITUDE:			Z DIRECTION:	
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C7-C	660240			
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/30	TO	86/06/09	DATE PRINTED:	86/10/14
12	ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT			
13	PARAMETER					RESULT
14	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN					0.20 NANOGRAM/G
15	REVISION DATE 86/10/09. ABOVE RESULT VALUE CHANGED, WAS:	< 0.05				
16	TO1108 PERCENT DRY SOLIDS					71.38 PERCENT
17	***** END OF REPORT *****					
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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62843 SAMPLE RECEIVED: 86/06/20/ CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LCCREEK2 DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE
DESCRIPTION: CB-C 860277
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC; DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 600: SOIL, SAND
TIME OF SAMPLING: 86/05/30 : TO 86/06/09 : DATE PRINTED: 86/09/25

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.14 NANOGRAM/G
T01108 PERCENT DRY SOLIDS	61.23 PERCENT

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62845 SAMPLE RECEIVED: 86/06/20/ CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LCCREEK2 DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE
DESCRIPTION: C10-C 860279
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 600: SOIL, SAND
TIME OF SAMPLING: 86/05/30 : TO 86/06/09 : DATE PRINTED: 86/09/25
ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.19 NANOQM/G
T01108 PERCENT DRY SOLIDS	56.76 PERCENT

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WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62844 SAMPLE RECEIVED: 86/06/20/ CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LCCREEK2 DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE
DESCRIPTION: C9-C 860278
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 600: SOIL, SAND
TIME OF SAMPLING: 86/05/30 : TO 86/06/09 : DATE PRINTED: 86/09/25

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55333 2,3,7,8-TETRACHLORODIBENZODIOXIN	0.52 NANOGRAM/G
T01108 PERCENT DRY SOLIDS	56.72 PERCENT

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PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT (REV)

1	SAMPLE ID:	62846	SAMPLE RECEIVED:	B6/06/207	CHARGE:	24. 50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				2
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.	COUNTY:	NIAGARA		3
5	LATITUDE:		Z DIRECTION:			4
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				5
7	DESCRIPTION:	C11-C 860280				6
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				7
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				8
10	SAMPLE TYPE:	600: SOIL, SAND				9
11	TIME OF SAMPLING:	B6/05/30 : TO B6/06/09			DATE PRINTED:	B6/10/14
12						10
13	ANALYSTS:	DIOX-LC	DIOXIN -	SOIL/SEDIMENT		11
14						12
15	PARAMETER		RESULT			13
16	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.09	NANOGRAM/G			14
17	REVISION DATE B6/10/09, ABOVE RESULT VALUE CHANGED, WAS:	0.08				15
18	TC1108 PERCENT DRY SOLIDS	53. 50	PERCENT			16
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71	50 WOLF RD					69
72	ALBANY, NY 12233					70
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WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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FINAL REPORT

SAMPLE ID: 62847 SAMPLE RECEIVED: 86/06/20/ CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LCCREEK2 DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE
DESCRIPTION: C12-C 860281
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 600: SOIL, SAND
TIME OF SAMPLING: 86/05/30 : TO 86/06/09 : DATE PRINTED: 86/09/25

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.10 NANOQM/G
T01108 PERCENT DRY SOLIDS	65.06 PERCENT

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID:	62849	SAMPLE RECEIVED:	86/06/207	CHARGE:	24.50
PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA
LATITUDE:					Z DIRECTION:
LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
DESCRIPTION:	C14-C 860283				
REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
SAMPLE TYPE:	600: SOIL, SAND				
TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
PARAMETER					RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.09 NANOGRAM/G				
TO1108 PERCENT DRY SOLIDS	57.49 PERCENT				
**** END OF REPORT ****					

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RESULTS OF EXAMINATION

FINAL REPORT

1	SAMPLE ID:	62848	SAMPLE RECEIVED:	86/06/20/	CHARGE:	24. 50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			COUNTY:	NIAGARA
5	LATITUDE:				Z DIRECTION:	
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C13-C 860282				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
12	ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
13	PARAMETER				RESULT	
14	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN				< 0.12 NANOGRAM/G	
15	TO1108 PERCENT DRY SOLIDS				46.35 PERCENT	
16	**** END OF REPORT ****					

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RESULTS OF EXAMINATION

FINAL REPORT

1	SAMPLE ID:	62850	SAMPLE RECEIVED:	86/06/207	CHARGE:	24. 50	
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT			GAZETTEER CODE:	3102	
3	SOURCE ID:	LC CREEK2	DRAINAGE BASIN:	01	COUNTY:	NIAGARA	
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			Z DIRECTION:		
5	LATITUDE:	LONGITUDE:					
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE					
7	DESCRIPTION:	C15-C	860284				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY					
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES					
10	SAMPLE TYPE:	600: SOIL, SAND					
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14	
12	ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT				
13	PARAMETER			RESULT			
14	T5533G 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN			0.10 NANOGRAM/G			
15	T01108 PERCENT DRY SOLIDS			60.27 PERCENT			
16	**** END OF REPORT ****						
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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62B51 SAMPLE RECEIVED: 86/06/207 CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LCCREEK2 DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE
DESCRIPTION: C16-C 860285

REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES

SAMPLE TYPE: 600: SOIL, SAND

TIME OF SAMPLING: 86/05/30 : TO 86/06/09 : DATE PRINTED: 86/10/14

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55303 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.78 NANOGRAM/G
T01108 PERCENT DRY SOLIDS	45.05 PERCENT

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RESULTS OF EXAMINATION

FINAL REPORT

1	SAMPLE ID:	62853	SAMPLE RECEIVED:	86/06/20/	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID:	LGCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.				
5	LATITUDE:	Z DIRECTION:				
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C18-C 860287				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
12	ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
13	PARAMETER	RESULT				
14	1553.33 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.36 NANOGRAM/G				
15	701108 PERCENT DRY SOLIDS	50.32 PERCENT				
16	**** END OF REPORT ****					

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RESULTS OF EXAMINATION

FINAL REPORT

1	EXAMPLE ID:	62B52	SAMPLE RECEIVED:	86/06/207	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			COUNTY:	NIAGARA
5	LATITUDE:				Z DIRECTION:	
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C17-C 860285				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
12	ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT			
13	PARAMETER					RESULT
14	153332 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN					1.09 NANOGRAM/G
15	701108 PERCENT DRY SOLIDS					59.87 PERCENT
16	**** END OF REPORT ****					

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RESULTS OF EXAMINATION

FINAL REPORT

1 SAMPLE ID: 62854 SAMPLE RECEIVED: 86/06/20/ CHARGE: 24.50
 2 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
 3 SOURCE ID: LCCREEK2 DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
 4 POLITICAL SUBDIVISION: NIAGARA FALLS C.
 5 LATITUDE LONGITUDE:
 6 LOCATION LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE
 7 DESCRIPTION: C19-C 860288
 8 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 9 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
 10 SAMPLE TYPE: 600: SOIL, SAND
 11 TIME OF SAMPLING: 86/05/30 : TO 86/06/09 : DATE PRINTED: 86/10/14
 12
 13 ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT
 14
 15 PARAMETER RESULT
 16 T55303 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN 0.18 NANOGRAM/G
 17 T01108 PERCENT DRY SOLIDS 48.07 PERCENT
 18 **** END OF REPORT ****
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WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

1 SAMPLE ID:	62855	SAMPLE RECEIVED: 86/06/20	CHARGE: 24.50
2 PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT		
3 SOURCE ID: LCCREEK2	DRAINAGE BASIN: 01	GAZETTEER CODE: 3102	
4 POLITICAL SUBDIVISION: NIAGARA FALLS C.	COUNTY: NIAGARA		
5 LATITUDE:	LONGITUDE:	Z DIRECTION:	
6 LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE		
7 DESCRIPTION: C20-C	860289		
8 REPORTING LAB:	TOX LAB FOR ORGANIC ANALYTICAL CHEMISTRY		
9 TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES		
10 SAMPLE TYPE:	600: SOIL, SAND		
11 TIME OF SAMPLING: 86/05/30	TO 86/06/09	DATE PRINTED: 86/10/14	

12 ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55393 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	1.28 NANOGRAM/G
TO1108 PERCENT DRY SOLIDS	54.59 PERCENT

13 **** END OF REPORT ****

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WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID:	62856	SAMPLE RECEIVED:	86/06/20	CHARGE:	24.50
PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA
LATITUDE:					Z DIRECTION:
LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
DESCRIPTION:	C21-C	860290			
REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
SAMPLE TYPE:	600: SOIL, SAND				
TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT			
PARAMETER					RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN					0.99 NANOGRAM/G
T01109 PERCENT DRY SOLIDS					44.59 PERCENT
***** END OF REPORT *****					

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RESULTS OF EXAMINATION

FINAL REPORT

1 SAMPLE ID:	62857	SAMPLE RECEIVED:	86/06/20/	CHARGE:	24.50
2 PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3 SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4 POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA
5 LATITUDE:					Z DIRECTION:
6 LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7 DESCRIPTION:	C22-C 860291				
8 REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9 TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10 SAMPLE TYPE:	600: SOIL, SAND				
11 TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
12					
13 ANALYST:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
14					
15	PARAMETER	RESULT			
16	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.35 NANOGM/G			
17	T01108 PERCENT DRY SOLIDS	52.09 PERCENT			
18	***** END OF REPORT *****				
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RESULTS OF EXAMINATION

FINAL REPORT

1	SAMPLE ID:	62B5B	SAMPLE RECEIVED:	86/06/207	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				2
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			COUNTY:	NIAGARA
5	LATITUDE:				Z DIRECTION:	
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C23-C 860292				9
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				10
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				11
10	SAMPLE TYPE:	600: SOIL, SAND				12
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
12						13
13	ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT			14
14						15
15	PARAMETER			RESULT		16
16	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN			0.16 NANOGRAM/G		17
17	T01108 PERCENT DRY SOLIDS			44.74 PERCENT		18
18	***** END OF REPORT *****					19
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RESULTS OF EXAMINATION

FINAL REPORT

1	SAMPLE ID:	62859	SAMPLE RECEIVED:	86/06/207	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			COUNTY:	NIAGARA
5	LATITUDE:		LONGITUDE:		Z DIRECTION:	
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C24-C 860293				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/06/30 : TO 86/06/09 :			DATE PRINTED:	86/10/14
12	ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
13	PARAMETER		RESULT			
14	T55303 2,3,7,8-TETRACHLORODIBENZODIOXIN		0.26 NANOGRAM/G			
15	T01102 PERCENT DRY SOLIDS		57.60 PERCENT			
16	***** END OF REPORT *****					
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SAMPLE ID:	62861	SAMPLE RECEIVED:	86/06/20/	CHARGE:	24.50
PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
SOURCE ID:	LCCKREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA
LATITUDE:	LONGITUDE:				Z DIRECTION:
LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
DESCRIPTION:	C26-C E60295				
REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
SAMPLE TYPE:	600: SOIL, SAND				
TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
PARAMETER					RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.14 NANOGRAM/G				
T01108 PERCENT DRY SOLIDS	47.35 PERCENT				
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1 SAMPLE ID:	62860	SAMPLE RECEIVED:	86/06/20/	CHARGE:	24. 50	
2 PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT					
3 SOURCE ID:	LCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102	
4 POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA	
5 LATITUDE:					Z DIRECTION:	6
6 LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE					7
7 DESCRIPTION:	C25-C 660294					8
8 REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY					9
9 TEST PATTERN:	DIOXIN-LC:DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES					10
10 SAMPLE TYPE:	600: SOIL, SAND					11
11 TIME OF SAMPLING:	86/06/30	TO	86/06/09	DATE PRINTED:	86/10/14	12
12 ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT					13
13 PARAMETER					RESULT	14
14 T55353 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN					0.45 NANOGRAM/G	15
15 TO1108 PERCENT DRY SOLIDS					45.35 PERCENT	16
***** END OF REPORT *****						17
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RESULTS OF EXAMINATION

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1 SAMPLE ID:	62862	SAMPLE RECEIVED:	86/06/207	CHARGE:	24.50
2 PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3 SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4 POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA
5 LATITUDE:					Z DIRECTION:
6 LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7 DESCRIPTION:	C27-C 860296				
8 REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9 TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10 SAMPLE TYPE:	600: SOIL, SAND				
11 TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14

12 ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT
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PARAMETER

RESULT

T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.18 NANOGRAM/G
TO1108 PERCENT DRY SOLIDS	72.19 PERCENT

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RESULTS OF EXAMINATION

FINAL REPORT

1 SAMPLE ID: 62863 SAMPLE RECEIVED: 86/06/20/ CHARGE: 24.50
 2 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
 3 SOURCE ID: LCCREEK2 DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
 4 POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
 5 LATITUDE: LONGITUDE: Z DIRECTION:
 6 LOCATION: LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE
 7 DESCRIPTION: C28-C 860297
 8 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 9 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
 10 SAMPLE TYPE: 600: SOIL, SAND
 11 TIME OF SAMPLING: 86/05/30 : TO 86/06/09 : DATE PRINTED: 86/10/14
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 13 ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT
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 16 PARAMETER RESULT
 17 T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN < 0.14 NANOGM/G
 18 T01106 PERCENT DRY SOLIDS 66.97 PERCENT
 19 **** END OF REPORT ****
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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID:	62864	SAMPLE RECEIVED:	86/06/207	CHARGE:	24.50
PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA
LATITUDE:					Z DIRECTION:
LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
DESCRIPTION:	C29-C 860298				
REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
SAMPLE TYPE:	600: SOIL, SAND				
TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
PARAMETER					RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN					< 0.13 NANOGM/G
TC1108 PERCENT DRY SOLIDS					61.36 PERCENT
***** END OF REPORT *****					

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1	SAMPLE ID:	62865	SAMPLE RECEIVED:	86/06/20/	CHARGE:	24. 50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			COUNTY:	NIAGARA
5	LATITUDE:				Z DIRECTION:	
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C30-C	B60299			
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
12	ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
13	PARAMETER				RESULT	
14	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN				0. 52 NANOGRAM/G	
15	T01108 PERCENT DRY SOLIDS				46. 51 PERCENT	
16	***** END OF REPORT *****					

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1	SAMPLE ID:	62869	SAMPLE RECEIVED:	86/06/207	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID:	LCGEEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			COUNTY:	NIAGARA
5	LATITUDE:	LATITUDE:			Z DIRECTION:	
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C31-C 860315				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/30	:	TD 86/06/09	DATE PRINTED:	86/10/14
12	ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
13	PARAMETER				RESULT	
14	T55333 2,3,7,8-TETRACHLORODIBENZODIOXIN				0.24 NANOGRAM/G	
15	TO1108 PERCENT DRY SOLIDS				53.99 PERCENT	
16	***** END OF REPORT *****					

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RESULTS OF EXAMINATION

FINAL REPORT

1	SAMPLE ID:	62867	SAMPLE RECEIVED:	86/06/20/	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT			GAZETTEER CODE:	3102
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	COUNTY:	NIAGARA
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			Z DIRECTION:	
5	LATITUDE:				Z DIRECTION:	
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C32-C 860313				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
12						

13	ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT	
14				

15	PARAMETER	RESULT
16	T55333 2, 3, 7, 8-TETRACHLORODIBENZO-P-TOXIN	< 0.10 NANOGM/G
17	T01108 PERCENT DRY SOLIDS	64.50 PERCENT
18	***** END OF REPORT *****	
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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID:	62870	SAMPLE RECEIVED:	B6/06/207	CHARGE:	24.50
PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	O1	GAZETTEER CODE:	3102
POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA
LATITUDE:					Z DIRECTION:
LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
DESCRIPTION:	C35-C 860316				
REPORTING LAB:	TOX LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
SAMPLE TYPE:	600: SOIL, SAND				
TIME OF SAMPLING:	B6/05/30	:	TO B6/06/09	:	DATE PRINTED: B6/10/14
ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
PARAMETER					RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN					0.33 NANOGR/G
TC1108 PERCENT DRY SOLIDS					57.21 PERCENT
**** END OF REPORT ****					

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RESULTS OF EXAMINATION

FINAL REPORT

1 SAMPLE ID:	62868	SAMPLE RECEIVED: 86/06/20/	CHARGE: 24.50
2 PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT		
3 SOURCE ID: LCCREEK2	DRAINAGE BASIN: 01	GAZETTEER CODE: 3102	
4 POLITICAL SUBDIVISION: NIAGARA FALLS C.	COUNTY: NIAGARA		
5 LATITUDE:	LONGITUDE:	Z DIRECTION:	
6 LOCATION: LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE			
7 DESCRIPTION: C33-C 860314			
8 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY			
9 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES			
10 SAMPLE TYPE: 600: SOIL, SAND			
11 TIME OF SAMPLING: 86/05/30 : TO 86/06/09 :	DATE PRINTED: 86/10/14		

12 ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

13	PARAMETER	RESULT
14	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.29 NANOGRAM/G
15	T01108 PERCENT DRY SOLIDS	51.63 PERCENT

16 **** END OF REPORT ****

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RESULTS OF EXAMINATION

FINAL REPORT

1	SAMPLE ID:	62871	SAMPLE RECEIVED:	86/06/207	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.				
5	LATITUDE:	LONGITUDE:				
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C36-C 860317				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
12	ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
13	PARAMETER	RESULT				
14	T55393 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.16 NANOGRAM/G				
15	T01108 PERCENT DRY SOLIDS	51.68 PERCENT				
16	**** END OF REPORT ****					

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1	SAMPLE ID:	62872	SAMPLE RECEIVED:	86/06/207	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID:	LCCREEK2	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.	COUNTY:	NIAGARA		
5	LATITUDE:		LONGITUDE:		Z DIRECTION:	
6	LOCATION:	LOVE CANAL CREEKS STUDY - CAYUGA CREEK BED COMPOSITE				
7	DESCRIPTION:	C37-C 860318				
8	REPORTING LAB:	TOX LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/30	:	TO 86/06/09	:	DATE PRINTED: 86/10/14
12	ANALYSIS:	DIDX-LC DIOXIN - SOIL/SEDIMENT				
13	PARAMETER					RESULT
14	155333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN					0.26 NANOGRAM/G
15	T01109 PERCENT DRY SOLIDS					54.77 PERCENT
16	***** END OF REPORT *****					
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RESULTS OF EXAMINATION

FINAL REPORT (REV.)

1	SAMPLE ID:	62823	SAMPLE RECEIVED:	B6/06/207	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT			GAZETTEER CODE:	3102
3	SOURCE ID:	LC-CREEK	DRAINAGE BASIN:	01	COUNTY:	NIAGARA
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			Z DIRECTION:	
5	LATITUDE:	LONGITUDE:				
6	LOCATION:	LOVE CANAL CREEKS STUDY				
7	DESCRIPTION:	BLACK CREEK BANK COMPOSITE BLI-C B60205				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/23	:	TO 86/05/28	:	DATE PRINTED: B6/10/14
12						
13	ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT			
14						
15	PARAMETER				RESULT	
16	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN				< 0.01 NANOMG/0	
17	REVISION DATE B6/10/09, ABOVE RESULT VALUE CHANGED, WAS:				< 0.05	
18	TO 1108 PERCENT DRY SOLIDS				71.99 PERCENT	
19	**** END OF REPORT ****					
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RESULTS OF EXAMINATION

FINAL REPORT (REV)

1 SAMPLE ID: 62824 SAMPLE RECEIVED: 86/06/207 CHARGE: 24.50
 2 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
 3 SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
 4 POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
 5 LATITUDE: LONGITUDE:
 6 LOCATION: LOVE CANAL CREEKS STUDY
 7 DESCRIPTION: BLACK CREEK BANK COMPOSITE, BL3-C 860206
 8 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 9 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
 10 EXAMPLE TYPE: 600: SOIL, SAND
 11 TIME OF SAMPLING: 86/05/23 : TO 86/05/28 : DATE PRINTED: 86/10/14
 12

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55393 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.02 NANOGRAM/G
REVISION DATE 86/10/09, ABOVE RESULT VALUE CHANGED, WAS:	< 0.05
T01108 PERCENT DRY SOLIDS	71.96 PERCENT

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62829 SAMPLE RECEIVED: 86/06/20/ CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY
DESCRIPTION: BERGHOLTZ CREEK BANK COMPOSITE, B2-C, 860207
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 600: SOIL, SAND
TIME OF SAMPLING: 86/05/28 : TO 86/05/28 : DATE PRINTED: 86/09/25

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.26 NANOGRAM/G
T01108 PERCENT DRY SOLIDS	70.64 PERCENT

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FINAL REPORT (REV)

1	SAMPLE ID:	62830	SAMPLE RECEIVED:	86/05/20/	CHARGE:	24.50	
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT					
3	SOURCE ID:	LC-CREEK	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102	
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY:	NIAGARA
5	LATITUDE:					Z DIRECTION:	
6	LOCATION	LOVE CANAL CREEKS STUDY					
7	DESCRIPTION:	BERGHOLTZ CREEK BANK COMPOSITE, B4-C, 860208					
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY					
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES					
10	SAMPLE TYPE:	600: SOIL, SAND					
11	TIME OF SAMPLING:	86/05/28	:	TO 86/05/28	:	DATE PRINTED:	86/10/14
12							
13	ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT				
14							
15	PARAMETER				RESULT		
16	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN				0.35 NANOGRAM/G		
17	REVISION DATE 86/10/09, ABOVE RESULT VALUE CHANGED, WAS:				0.33		
18	T01108 PERCENT DRY SOLIDS				69.53 PERCENT		
19	***** END OF REPORT *****						
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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62831 SAMPLE RECEIVED: 86/06/20/ CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY
DESCRIPTION: BERGHOLTZ CREEK BANK COMPOSITE, B6-C, 860209
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 600: SOIL, SAND
TIME OF SAMPLING: 86/05/28 : TO 86/05/28 : DATE PRINTED: 86/09/25
ANALYSIS: DIDX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.65 NANOGRAM/G
T01108 PERCENT DRY SOLIDS	69.01 PERCENT

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62832 SAMPLE RECEIVED: 86/06/207 CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY
DESCRIPTION: BERGHOLTZ CREEK BANK COMPOSITE/BB-C/860210
REPORTING LAB: TOX LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC:DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 600: SOIL, SAND
TIME OF SAMPLING: 86/05/28 : TO 86/05/28 : DATE PRINTED: 86/10/14

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER

RESULT

MEASURED 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN

0.61 NANOGRAM/G

0.1106 PERCENT DRY SOLIDS

65.23 PERCENT

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62834 SAMPLE RECEIVED: 86/06/207 CHARGE: 24.50
 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
 SOURCE ID: LC-CREEK DRAINAGE BASIN: 01
 POLITICAL SUBDIVISION: NIAGARA FALLS C.
 LATITUDE: LONGITUDE:
 LOCATION: LOVE CANAL CREEKS STUDY
 DESCRIPTION: BERGHOLTZ CREEK BANK COMPOSITE, B12-C 860212
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
 SAMPLE TYPE: 600: SOIL, SAND
 TIME OF SAMPLING: 86/05/28 : TO 86/05/28 : DATE PRINTED: 86/10/14

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.32 NANOGRAM/G
T0110B PERCENT DRY SOLIDS	69.24 PERCENT

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1 SAMPLE ID: 62833 SAMPLE RECEIVED: 86/06/20 CHARGE: 24.50
 2 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
 3 SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
 4 POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
 5 LATITUDE: LONGITUDE: Z DIRECTION:
 6 LOCATION: LOVE CANAL CREEKS STUDY
 7 DESCRIPTION: BERGHOLTZ CREEK BANK COMPOSITE, B10-C, 860211
 8 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 9 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
 10 SAMPLE TYPE: 600: SOIL, SAND
 11 TIME OF SAMPLING: 86/05/28 : TO 86/05/28 : DATE PRINTED: 86/10/14
 12
 13 ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T65333 2,3,7,8-TETRACHLORODIBENZODIOXIN	0.73 NANOGRAM/G
TQ1106 PERCENT DRY SOLIDS	64.45 PERCENT

***** END OF REPORT *****

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RESULTS OF EXAMINATION

FINAL REPORT

1	SAMPLE ID:	63150	SAMPLE RECEIVED:	86/06/207	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID:	LC-CREEK	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			COUNTY:	NIAGARA
5	LATITUDE:				Z DIRECTION:	
6	LOCATION:	LOVE CANAL CREEKS STUDY				
7	DESCRIPTION:	BERGHOLTZ CREEK BANK COMPOSITE, B14-C, B60213				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	600: SOIL, SAND				
11	TIME OF SAMPLING:	86/05/28	TO	86/05/28	DATE PRINTED:	86/10/14
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13	ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT
14			

15	PARAMETER	RESULT
16	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.42 NANOGRAM/G
17	T01106 PERCENT DRY SOLIDS	62.03 PERCENT
18	***** END OF REPORT *****	
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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 62835 SAMPLE RECEIVED: 86/06/20/ CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY
DESCRIPTION: BERGHOLTZ CREEK BANK COMPOSITE, B16-C, 860214
REPORTING LAB: TOX-LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC:DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 600:SOIL, SAND
TIME OF SAMPLING: 86/05/28 : TO 86/05/28 : DATE PRINTED: 86/09/25

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER	RESULT
T55333 2, 3, 7, 8-TETRACHLORODIBENZOPIPOXIN	0.40 NANOGRAM/G
T01108 PERCENT DRY SOLIDS	59.34 PERCENT

*** END OF REPORT ***

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID:	64623	SAMPLE RECEIVED:	86/09/02/	CHARGE:	24.50
PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
SOURCE ID:	LC-CREEK	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA
LATITUDE:					Z DIRECTION:
LOCATION:	LOVE CANAL CREEKS STUDY				
DESCRIPTION:	QC LAB BLANK SILICA GEL				
REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
SAMPLE TYPE:	298: INTERNAL LABORATORY BLANK				
TIME OF SAMPLING:	86/09/02	:		DATE PRINTED:	86/10/14
ANALYST:	DIOX-LC	DIOXIN - SOIL/SEDIMENT			
PARAMETER		RESULT			
T55333	2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.18 NANOGRAM/G			
***** END OF REPORT *****					

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RESULTS OF EXAMINATION

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1 SAMPLE ID: 64622 SAMPLE RECEIVED: 86/09/02/ CHARGE: 24.50
2 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
3 SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
4 POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
5 LATITUDE: LONGITUDE: Z DIRECTION:
6 LOCATION: LOVE CANAL CREEKS STUDY
7 DESCRIPTION: QC HOAGS CORNERS SOIL SPIKE
8 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
9 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
10 SAMPLE TYPE: 296: LABORATORY SPIKE - INTERNAL QUALITY CONTROL
11 TIME OF SAMPLING: 86/09/02 DATE PRINTED: 86/10/14

12 ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

13 PARAMETER

14 RESULT

15 135301 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN 0.10 NANOGRAM/G

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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64621 SAMPLE RECEIVED: 86/09/02 CHARGE: 24.50
PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
LATITUDE: LONGITUDE: Z DIRECTION:
LOCATION: LOVE CANAL CREEKS STUDY
DESCRIPTION: QC REPLICATE OF 62860
REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
SAMPLE TYPE: 295: DUPLICATE -- INTERNAL QUALITY CONTROL
TIME OF SAMPLING: 86/09/02 DATE PRINTED: 86/10/14

ANALYST: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER

RESULT

TESTED 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN
TOTAL PERCENT DRY SOLIDS

0.42 NANOGRAM/G
50.03 PERCENT

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1	SAMPLE ID:	64574	SAMPLE RECEIVED:	86/09/02/	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID: LC-CREEK	DRAINAGE BASIN: 01	GAZETTEER CODE: 3102			
4	POLITICAL SUBDIVISION: NIAGARA FALLS C.	COUNTY: NIAGARA				
5	LATITUDE:	LONGITUDE:	Z DIRECTION:			
6	LOCATION: LOVE CANAL CREEKS STUDY					
7	DESCRIPTION: QC REPLICATE OF 62639					
8	REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY					
9	TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES					
10	SAMPLE TYPE: 295: DUPLICATE - INTERNAL QUALITY CONTROL					
11	TIME OF SAMPLING: 86/09/02	DATE PRINTED: 86/10/14				
12	ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT					
13	PARAMETER	RESULT				
14	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.13 NANOGRAM/G				
15	TO1108 PERCENT DRY SOLIDS	56.34 PERCENT				
16	***** END OF REPORT *****					
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FINAL REPORT

SAMPLE ID:	64572	SAMPLE RECEIVED:	86/09/02	CHARGE:	24.50
PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
SOURCE ID:	LC-CREEK	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA
LATITUDE:	LATITUDE:				Z DIRECTION:
LOCATION:	LOVE CANAL CREEKS STUDY				
DESCRIPTION:	G C LAB BLANK HOAGS CRB SOIL				
REPORTING LAB:	TOX. LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
SAMPLE TYPE:	298: INTERNAL LABORATORY BLANK				
TIME OF SAMPLING:	86/09/02	DATE PRINTED: 86/10/14			
ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
PARAMETER	RESULT				
T55330 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.15 NANOGRAM/G				
***** END OF REPORT *****					

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RESULTS OF EXAMINATION

FINAL REPORT

1 SAMPLE ID: 64573 SAMPLE RECEIVED: 86/09/02 CHARGE: 24.50
 2 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
 3 SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
 4 POLITICAL SUBDIVISION: NIAGARA FALLS C.
 5 LATITUDE LONGITUDE:
 6 LOCATION LOVE CANAL CREEKS STUDY
 7 DESCRIPTION: GC LAB SPIKE ROADS CR8 SOIL
 8 REPORTING LAB: TOX LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 9 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
 10 SAMPLE TYPE: 296: LABORATORY SPIKE - INTERNAL QUALITY CONTROL
 11 TIME OF SAMPLING: 86/09/02 DATE PRINTED: 86/10/14
 12

13 ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER

RESULT

155333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN 0.96 NANOGRAM/G

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RESULTS OF EXAMINATION

FINAL REPORT

1	SAMPLE ID:	64554	SAMPLE RECEIVED:	86/08/29/	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT			GAZETTEER CODE:	3102
3	SOURCE ID:	LC-CREEK	DRAINAGE BASIN:	01	COUNTY:	NIAGARA
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			Z DIRECTION:	
5	LATITUDE:	LATITUDE:				
6	LOCATION:	LOCATION: LOVE CANAL CREEKS STUDY				
7	DESCRIPTION:	GC LAB BLANK SILICA GEL				
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
10	SAMPLE TYPE:	298: INTERNAL LABORATORY BLANK				
11	TIME OF SAMPLING:	86/08/	:		DATE PRINTED:	86/10/14
12	ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
13	PARAMETER				RESULT	
14	T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN				< 0.16 NANOGRAM/G	
15	***** END OF REPORT *****					
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1 SAMPLE ID:	64553	SAMPLE RECEIVED:	86/08/297	CHARGE:	24. 50	
2 PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT					
3 SOURCE ID: LC-CREEK	DRAINAGE BASIN: 01	GAZETTEER CODE: 3102				
4 POLITICAL SUBDIVISION: NIAGARA FALLS C.	COUNTY: NIAGARA					
5 LATITUDE:	LONGITUDE:	Z DIRECTION:				
6 LOCATION:	LOVE CANAL CREEKS STUDY					
7 DESCRIPTION: QC HOAGS CORNERS SOIL SPIKE						
8 REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY					
9 TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES					
10 SAMPLE TYPE:	296: LABORATORY SPIKE - INTERNAL QUALITY CONTROL					
11 TIME OF SAMPLING:	86/08/	DATE PRINTED: 86/10/14				
12 ANALYSIS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT				
13	PARAMETER	RESULT				
14	755333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.23 NANOGRAM/G				
15	***** END OF REPORT *****					
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RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 64549 SAMPLE RECEIVED: 86/08/29 CHARGE: 24.50
 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
 SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
 POLITICAL SUBDIVISION: NIAGARA FALLS C.
 LATITUDE: LONGITUDE:
 LOCATION: LOVE CANAL CREEKS STUDY
 DESCRIPTION: QC REPLICATE OF #62844
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
 SAMPLE TYPE: 295: DUPLICATE - INTERNAL QUALITY CONTROL
 TIME OF SAMPLING: 86/08/ DATE PRINTED: 86/10/14

ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER

RESULT

T55333 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.50 NANOGM/G
T01106 PERCENT DRY SOLIDS	56.72 PERCENT

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1	SAMPLE ID:	64550	SAMPLE RECEIVED:	86/08/29	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID: LC-CREEK	DRAINAGE BASIN: 01	GAZETTEER CODE: 3102			
4	POLITICAL SUBDIVISION: NIAGARA FALLS C.		COUNTY: NIAGARA			
5	LATITUDE:	LONGITUDE:	Z DIRECTION:			
6	LOCATION: LOVE CANAL CREEKS STUDY					

7	DESCRIPTION: GC HQADS CORNERS SOIL SPIKE					
8	REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY					
9	TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES					

10	SAMPLE TYPE: 296: LABORATORY SPIKE - INTERNAL QUALITY CONTROL					
11	TIME OF SAMPLING: 86/08/	:	DATE PRINTED: 86/10/14			
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13	ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT					
14						

15	PARAMETER	RESULT				
16	T55323 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	1.00 NANOGM/G				
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1	SAMPLE ID:	64552	SAMPLE RECEIVED:	86/08/29	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				2
3	SOURCE ID:	LC-CREEK	BRAINAGE BASIN:	01	GAZETTEER CODE:	3102
4	POLITICAL SUBDIVISION:	NIAGARA FALLS C.			COUNTY:	NIAGARA
5	LATITUDE:				Z DIRECTION:	6
6	LOCATION:	LOVE CANAL CREEKS STUDY				7
7	DESCRIPTION:	GC REPLICATE OF #62830				8
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				9
9	TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				10
10	SAMPLE TYPE:	295: DUPLICATE - INTERNAL QUALITY CONTROL				11
11	TIME OF SAMPLING:	86/08/			DATE PRINTED:	86/10/14

12	ANALYSTS:	DIOX-LC	DIOXIN - SOIL/SEDIMENT	
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PARAMETER

RESULT

13	T55393 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	0.30 NANOGRAM/G
14	T01108 PERCENT DRY SOLIDS	70.85 PERCENT

*** END OF REPORT ***

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ALBANY, NY 12233

SUBMITTED BY: RAFFERTY

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

1 SAMPLE ID: 64551 SAMPLE RECEIVED: 86/08/29/ CHARGE: 24.50
2 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
3 SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
4 POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
5 LATITUDE LONGITUDE: Z DIRECTION:
6 LOCATION LOVE CANAL CREEKS STUDY
7 DESCRIPTION: QUALITY CONTROL LAB BLANK HOAGS CRS
8 REPORTING LAB: TOX LAB FOR ORGANIC ANALYTICAL CHEMISTRY
9 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
10 SAMPLE TYPE: 298: INTERNAL LABORATORY BLANK
11 TIME OF SAMPLING: 86/08/ DATE PRINTED: 86/10/14
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13 ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT
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15 PARAMETER RESULT
16 155933 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN < 0.02 NANOGRAM/G
17 *** END OF REPORT ***
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WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID:	63160	SAMPLE RECEIVED:	86/06/20/	CHARGE:	10.00
PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
SOURCE ID:	LC-CREEK	DRAINAGE BASIN:	01	GAZETTEER CODE:	3102
POLITICAL SUBDIVISION:	NIAGARA FALLS C.				COUNTY: NIAGARA
LATITUDE:	LONGITUDE:		Z DIRECTION:		
LOCATION:	LOVE CANAL CREEKS STUDY				
DESCRIPTION:	COMPOSITE-5 HEXANE RINSE#63137-63140 + 63152				
REPORTING LAB:	TOX. LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
TEST PATTERN:	DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES				
SAMPLE TYPE:	170: RINSES, WASHINGS				
TIME OF SAMPLING:	/ /	DATE PRINTED: 86/10/14			
ANALYSIS:	DIOX-LC DIOXIN - SOIL/SEDIMENT				
FOLLOWING PARAMETERS NOT PART OF TEST PATTERN					

PARAMETER	RESULT
T56335 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.34 NANOGM/L
**** END OF REPORT ****	

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WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

1	SAMPLE ID:	63154	SAMPLE RECEIVED:	86/06/20/	CHARGE:	24.50
2	PROGRAM:	2010: LOVE CANAL CREEKS CONTRACT				
3	SOURCE ID: LC-CREEK	DRAINAGE BASIN: 01	GAZETTEER CODE: 3102			
4	POLITICAL SUBDIVISION: NIAGARA FALLS C.	COUNTY: NIAGARA				
5	LATITUDE:	LONGITUDE:	Z DIRECTION:			
6	LOCATION: LOVE CANAL CREEKS STUDY					
7	DESCRIPTION: TRIP BLK, MALCOLM PIRNIE LABELED BOTTLE SOIL/DRY MATERIAL					
8	REPORTING LAB:	TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY				
9	TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES					
10	SAMPLE TYPE:	297: FIELD BLANK / TRIP BLANK				
11	TIME OF SAMPLING:	/ / :	DATE PRINTED: 86/10/14			
12						
13	ANALYSIS: DIOX-LC	DIOXIN - SOIL/SEDIMENT				
14						
15	PARAMETER	RESULT				
16	T5533G 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN	< 0.26 NANOGRAM/G				
17	***** END OF REPORT *****					
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PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

1 SAMPLE ID: 63153 SAMPLE RECEIVED: 86/06/207 CHARGE: 24.50
 2 PROGRAM: 2010: LOVE CANAL CREEKS CONTRACT
 3 SOURCE ID: LC-CREEK DRAINAGE BASIN: 01 GAZETTEER CODE: 3102
 4 POLITICAL SUBDIVISION: NIAGARA FALLS C. COUNTY: NIAGARA
 5 LATITUDE: LONGITUDE:
 6 LOCATION: LOVE CANAL CREEKS STUDY Z DIRECTION:
 7 DESCRIPTION: FIELD BLANK-MALCOLM FIRNIE LABELED BOTTLE SOIL/DRY MATTER
 8 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 9 TEST PATTERN: DIOXIN-LC: DIOXIN ANALYSIS - LOVE CANAL SOIL/SEDIMENT SAMPLES
 10 SAMPLE TYPE: 297: FIELD BLANK / TRIP BLANK DATE PRINTED: 86/10/14
 11 TIME OF SAMPLING: / / :
 12 ANALYSIS: DIOX-LC DIOXIN - SOIL/SEDIMENT

PARAMETER

RESULT

TS5303 2, 3, 7, 8-TETRACHLORODIBENZODIOXIN

< 0.20 NANOGM/G

*** END OF REPORT ***

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 ALBANY, NY 12203

SUBMITTED BY: BOBERSKY

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



**Henry G. Williams
Commissioner**

JAN 29 1987

Mr. Dave Scherdel
Malcolm Pirnie Inc.
PO Box 1938
Buffalo, New York 14219

Dear Mr. Scherdel:

**RE: Amendment to Contract No. D-000303, Love Canal
Additional Creek Sampling and Sanitary Sewer Inspection**

Enclosed is a copy of the New York State Department of Health's report of the Laboratory examination for the samples collected at the former Oak Island area under the subject project.

These are provided to you for inclusion in the final engineering report for this project which you are preparing.

Any question call me at 518-457-4343.

Sincerely,

**Guy T. Bobersky, P.E.
Senior Sanitary Engineer
Bureau of Western Remedial Action
Division of Solid and Hazardous Waste**

Enclosure
cc: w/enclosure
D. Garbarini, USEPA, Region II

LOVE CANAL CAYUGA CREEK SAMPLES

266-30-9 AD-1

Results for 2,3,7,8-Tetrachlorodibenzo-p-dioxin

Sample #	type	bottle #	ng/gram	d.l. ng/gram	% Solids	Recovery (%) 13C-2378-TCDD
63239	sm	860421	ND	0.08	87.50	68
63240	sm	860424	ND	0.13	87.00	65
63241	sm	860430	ND	0.11	82.30	71
63243	sm	860426	0.43	0.07	73.30	54
63261	sm	860425	ND	0.27	100.00	62
66458	bk	-	ND	0.09	-	78

sm = sample bk = blank rp = replicate sp = spike

rp = replicate
hr = hexane rinse wb = water blank fb = field blank

APPENDIX D

OAK ISLAND SOIL BORING LOGS

**MALCOLM
PIRNIE**

MALCOLM PIRNIE INC. BORING NUMBER: Boring # B1
PROJECT : Love Cntr., Bergholtz Crk. PROJECT NO. : 266-30-9104
DATE : 6/25/86 LOCATION : Niagara Falls, N.Y.
CONTRACTOR : EMPIRE SOILS INVEST. INSPECTOR : Gregory Burchette
DRILL. METHOD: 3" HOLLOW SAMP. METHOD : 3" Split spoon
STEM AUGER continuous

SAMPLE

SOIL DESCRIPTION

No.	Blows per 6"(ft.)	Depth	Density, color, SOIL, admixtures moisture, other notes, ORIGIN	Well Const	Remarks
S1	5 34 15 17	0-2	REC.17",top 2" organic material, dense brown Clay and Sand with medium to fine gravel		Boring backfilled with bentonite and grout
S2	11 12 15 12	2-4	REC.12",medium dense brown Sand and Clay with medium to fine gravel		
S3	6 6 6 7	4-6	REC. 7",medium dense brown Sand and Caly with medium to fine gravel		
S4	7 11 12 10	6-8	REC.12",Same as 4-6'		
S5	5 5 7 9	8-10	REC.20",medium dense black,gray Clay with little fine gravel	<-- Old Creek Bed	

MALCOLM PIRNIE INC. BORING NUMBER: Boring # B2
PROJECT : Love Cn1., Bergholtz Crk. PROJECT NO. : 266-30-9104
DATE : 6/25/86 LOCATION : Niagara Falls, N.Y.
CONTRACTOR : EMPIRE SOILS INVEST. INSPECTOR : Gregory Burchette
DRILL. METHOD: 3" HOLLOW SAMP. METHOD : 3" Split spoon
STEM AUGER continuous

SAMPLE

SOIL DESCRIPTION

No.	Blows per 6"(ft.)	Depth	Density, moisture, other notes,	SOIL, admixtures	Well	Const	Remarks
S1	7 11 11 26	0-2	REC.14",top 3" organic material, medium dense brown Clay and Sand with medium to fine gravel				Boring backfilled with bentonite and grout
S2	30 28 30 15	2-4	REC.12",dense brown Sand and Clay with medium to fine gravel				
S3	8 10 9 28	4-6	REC.22",medium dense brown Sand and Clay with medium to fine gravel				
S4	10 6 5 5	6-8	REC.12",Same as 4-6'				
S5	7 5 4	8-10	REC. 9",loose brown Sand and Clay with little fine gravel				
S6	7 4 3 2	10-12	REC. 24", loose black,gray Clay with little fine gravel			<-- Old Creek Be	

MALCOLM PIRNIE INC. BORING NUMBER: Boring # B3
 PROJECT : Love Cn., Bergholtz Crk. PROJECT NO. : 266-30-9104
 DATE : 6/25/86 LOCATION : Niagara Falls, N.Y.
 CONTRACTOR : EMPIRE SOILS INVEST. INSPECTOR : Gregory Burchette
 DRILL. METHOD: 3" HOLLOW SAMP. METHOD : 3" Split spoon
 continuous
 STEM AUGER

SAMPLE		SOIL DESCRIPTION				
No.	Blows per 6"(ft.)	Depth	Density, moisture,	SOIL, admixtures, other notes,	Well Const	Remarks
S1	0-2			No split spoon taken, fill contains large blocks of discarded concrete		Boring backfilled with bentonite and grout
S2		2-4		REC. 3", loose brown Sand and Clay with large blocks of concrete		
S3	15	4-6		REC. 23", medium dense gray black Clay with little fine gravel	<-- Old Creek Bed	
	8					
	9					
	8					