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Cerro Conduit Company Completed Remediation of Identified Contaminated Soils

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1.0 Introduction

1.1 Background

The Cerro Conduit Company site is located on Robbins Lane and Miller Road, in the Town of Oyster Bay, Nassau County, New York State. The site was reportedly in agricultural use prior to the construction of the plant in the early 1950's. Cerro manufactured primarily steel electrical conduit, hot rolled copper rod and steel strip. The waste water generated during the manufacturing process was treated onsite and subsequently discharged under a SPDES permit to three, onsite recharge basins until 1982, when the site was connected to the Nassau County Sanitary Sewer System.

Sampling programs have been conducted at the site by New York State Department of Environmental Conservation (NYSDEC), the Avedt Group, Camp Dresser and McKee (CDM), and Eder Associates Consulting Engineers. The results confirmed the presence of contaminants in the soil matrix at a number of locations, however, ground water samples show no signs of contamination from the site's industrial activities.

Eder conducted a risk assessment study to evaluate potential health impacts associated with exposure to onsite soil. This risk assessment study concluded that exposure to onsite soil does not pose any adverse health impacts under the present or future residential or industrial use scenarios. This study also determined that the target cleanup concentration for copper in soil should be set at 5200 mg/kg, based on future residential use. In accordance with New York State Department of Health review and acceptance of the risk assessment, and as agreed at a May 19, 1992 meeting with the NYSDEC, removal of soil containing copper concentrations greater than the 5200 mg/kg target cleanup level would satisfy Cerro Conduit Company's obligations for site remediation in accordance with the consent order (Index No. 1-30-002) between NYSDEC and Cerro Conduit Company.

Based on this decision a Work Plan and contract specifications were prepared by Camp Dresser & McKee to remove the soil identified in four areas which exceeded the target cleanup concentration. These documents were subsequently approved by the NYSDEC on October 30, 1992. A copy of the approval letter is included in Appendix A. Chemical Waste Management Remedial Services (CWMRS) was then contracted to perform the cleanup. Work was conducted between December 17 and 24, 1992 after receipt of a site access agreement from the current owner (Tribune Company).

1.2 Objective

The objective of this report, prepared by Camp Dresser & McKee for the Cerro Conduit Company, is to document the conformance of the site remediation activities with the approved Work Plan and Contract Specifications. This will satisfy the NYSDEC requirements for delisting the site.

2.0 Construction Summary

2.1 Mobilization

CWMRS mobilized the following manpower and heavy equipment on Thursday, December 17, 1992:

Equipment	Manpower
1 - John Deere Excavator	1 - Operator
1 - John Deere Payloader	1 - Operator
1 - Cheverolet Pickup	1 - Foremen
	2 - Technicians
1 - 30 CY Roll-Off container	

Tractor trailers were called in as needed. Some minor delays were experienced due to truck scheduling problems. Tractor trailers left the site as follows:

12/17/92 - 4 Loads
12/18/92 - 2 Loads
12/19/92 - 1 Load
12/21/92 - 1 Load
12/22/92 - 2 Loads

The 30 cubic yard-roll off left the site on 12/23/92 after the final NYSDEC analytical results showing attainment of the soil target cleanup levels were received.

2.2 Initial Excavation

Excavation commenced on the day of mobilization in order to meet the tight schedule. The initial limits of excavation for each area were marked by CDM and CWMRS representatives. Despite inclement weather, extensive progress was made. Area's 1, and 2B (sheet 1) were completed and sampled along with a 15 foot by 15 foot by 6 to 8 feet deep section in area 3 (sheet 1). Due to a weather related late start, NYSDEC was not present during the initial excavations. The excavations, however, were left open for NYSDEC inspection and sampling.

2.2.1 Copper Pond Southeast Pumphouse - Area 1

This area was the first to be excavated. The excavation dimensions were 8 feet (east - west) by 6 feet (north - south) by 3 feet deep. A larger width than specified in the work plan (8 feet instead of 6 feet), was excavated due to operator difficulties experienced in maneuvering the excavation equipment. Sampling was performed by CWMRS during the excavation in accordance with the work plan. NYSDEC collected samples the following day in the same locations as the CWMRS samples. CWMRS analytical results, received the following day reported that the soil remaining was below the required removal limits. In

order to maintain the tight schedule the contractor requested and was given approval to backfill the excavation prior to confirmation by NYSDEC analytical results.

2.2.2 Basin # 2 Floor - Area 2B

Area 2B (6 feet by 6 feet by 3 feet deep) was excavated and sampled in accordance with the work plan. The excavation was again left open for inspection and sampling by NYSDEC on the following day. NYSDEC sampled at the base of both the East and West wall. CWMRS's analytical results were received the same day that the NYSDEC took their sample. CWMRS again requested and was given approval to backfill this area prior to receiving NYSDEC analytical results.

2.2.3 Basin # 3 Floor - Area 3

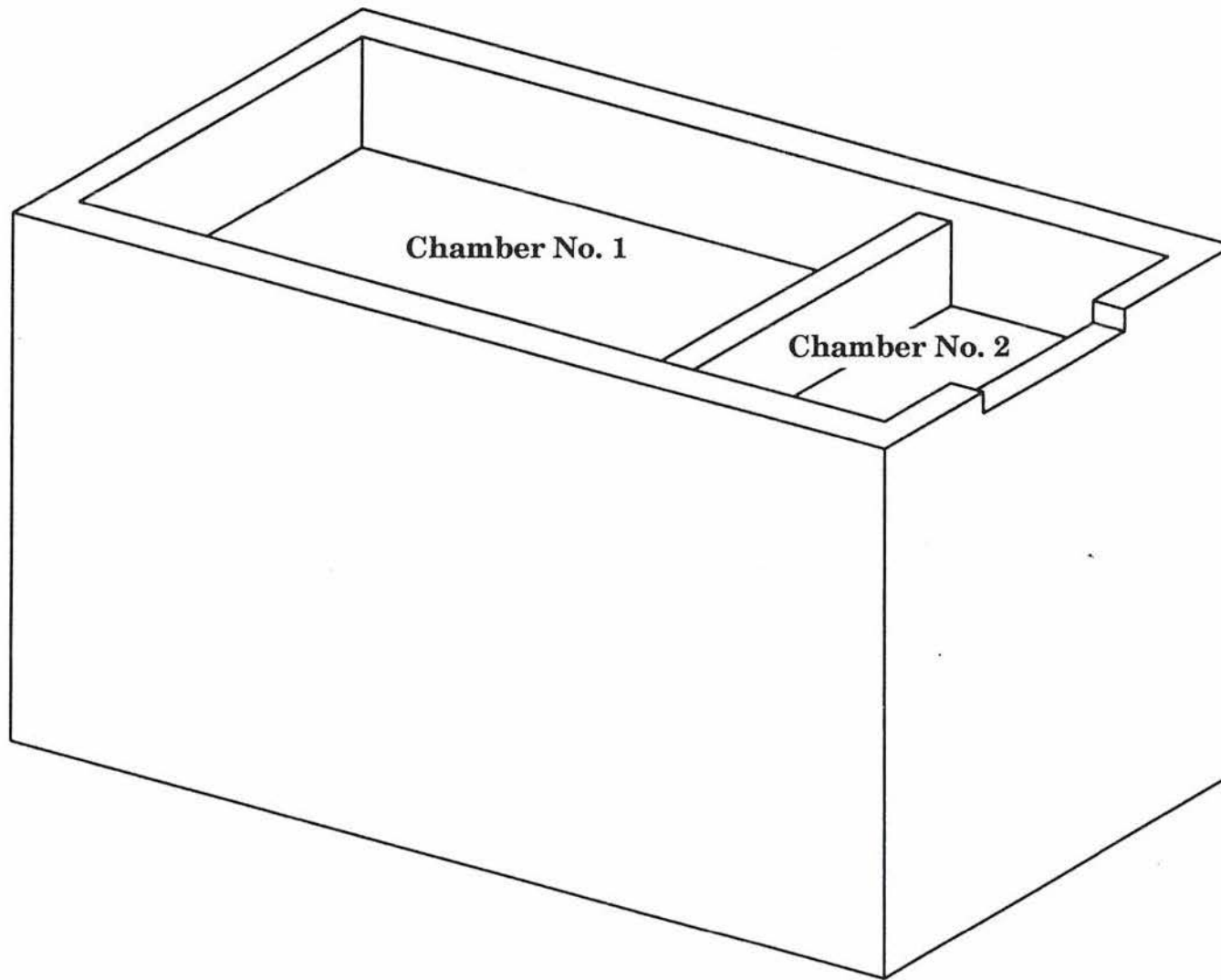
The excavation specified in the approved Work Plan for basin number 3 was initiated at 6:00 P.M. during the first day. This was due to a standby cost which would have been incurred if the trucks remained on site overnight. Work commenced until all the trucks had reached the legal weight load. A depth of approximately 6 to 8 feet was excavated.

Excavation from this area continued the following day. CWMRS collected samples at a depth of between 8 and 10 feet from grade. Samples were obtained from the bucket of the excavator. NYSDEC representatives were not on site to observe sampling, however, they requested that a bottom sample be collected from the excavation area. The excavation continued to a depth of between 9 to 10 feet.

No work was performed in this area on Saturday or Monday due to a difficulty experienced in scheduling the haul trucks. On Tuesday the excavation was completed to a depth of 12 feet, and sampled in accordance with the approved Work Plan. NYSDEC representatives sampled the excavation one hour after CWMRS had completed work.

2.2.4 Dual Chamber Outfall Detention Box - Area 2A

Removal of the waste from the identified concrete dual chamber outfall detention box (figure - 1) was completed in accordance with the Work Plan. Removal of the material took four days to complete. The concrete structure was scraped and broom cleaned three times as a quality control measure.



CDM

*environmental engineers, scientists,
planners & management consultants*

Figure 1

Dual Chamber Detention Box

Former Cerro Conduit Company, Syosset, New York

2.3 Additional Excavation

2.3.1 Copper Pond Southeast Pumphouse - Area 1

NYSDEC sample analytical results for this area came back on Monday afternoon, and indicated higher concentrations than the target cleanup level of 5200 mg/kg of copper. As a result of this data, CWMRS was directed to perform additional excavation and sampling for a horizontal distance of 2 feet and a depth of 2 feet. The additional excavation limits exposed the pumphouse and southeast corner of the copper pond foundation. The excavation was left open for NYSDEC representatives to inspect and sample the following day.

2.3.2 Basin # 2 Floor - Area 2B

The analytical results for one of the samples taken by the NYSDEC indicated a higher concentration than the target clean-up level of 5200 mg/kg of copper. Additional excavation and sampling was initiated by CWMRS as directed by NYSDEC for a horizontal distance of 2 feet and a depth of 2 feet. The excavation was left open for inspection and sampling by NYSDEC representatives the following day.

2.3.3 Basin # 3 Wall Vein - Area 3

During the initial excavation of Basin # 3, a 1 foot thick, 8 foot long green vein was discovered on the North wall approximately 4 feet below grade. CDM authorized CWMRS to remove the vein from the side wall. The vein ended within 2 feet.

Samples could not be taken from this area due to it's location. Excavation proceeded until all visually contaminated soil had been removed. In addition, the analytical results from a sample taken 3 feet below this area indicated concentrations well below the target cleanup level.

2.3.4 Copper Pond Northwest Pumphouse - Area 4

During the remediation project, NYSDEC indicated an additional area of potential copper contamination with concentrations above the 5200 mg/kg cleanup level. A pile of shavings below a ventilation system for a pumphouse located to the northwest of the copper pond was identified as Area 4 (sheet 2). A sample was taken by the NYSDEC. Analytical results indicated concentrations of 16,300 mg/kg. At the request of the NYSDEC, CDM authorized CWMRS to remove the pile and excavate to a depth of 2 feet. This area was resampled by NYSDEC on Tuesday. After NYSDEC had sampled, CWMRS excavated an

additional 2 feet in depth and grubbed the surrounding surface soil. This was done to avoid leaving any contaminated soil behind. This area was then sampled by CWMRS and backfilled. CWMRS did not have this sample analyzed because the analytical results from the NYSDEC sample indicated concentrations well below the cleanup level.

2.4 Backfilling

Certified clean backfill material, presented in Appendix E, was obtained from Oyster Bay Sand and Gravel. A total of 170 non-compacted cubic yards were delivered to the site (see site plan Sheet 1 for temporary storage area).

2.5 Demobilization

All manpower, tractor trailers and the rolloff box (with full loads) and supplies were demobilized on Wednesday (12-23-92). The heavy equipment was demobilized between 12/29/92 and 1/5/93.

3.0 Sampling and Analysis

3.1 Laboratories

CWMRS utilized ECOTEST LABORATORIES, INC., a NYSDOH approved laboratory for the required analytical services. NYSDEC utilized Environmental Testing Laboratories, Inc. Both laboratories were able to provide analytical results 24-hours.

All of the analytical results are tabulated in table 3-1 and shown in Appendix - C

3.2 Sampling

All sampling by CWMRS was in accordance with the approved work plan. Eder did not exercise their option to split samples with CWMRS.

As previously stated, samples taken by NYSDEC representatives were taken the day after excavation with the exception of the bottom sample in Area 3, which was collected along with the CWMRS sample.

CWMRS did not sample the surface or subsurface soil of the additional excavations in Area 4. The final limits of excavation were based on samples taken by the NYSDEC.

3.3 Analytical Results

On two occasions (in areas 1 and 2B), the analytical results from the samples taken by NYSDEC during the initial excavation were higher than the results of the CWMRS samples. The NYSDEC sample results were above the target cleanup level. All of the final analytical results of the samples taken during the initial excavation in area 3 and the additional excavation in areas 1, 2B, and 4 were below the target cleanup level of 5200 mg/kg. With the exception of the two occasions noted above, the analytical results from the samples taken by NYSDEC were close to those taken by CWMRS.

Table 3-1

Sample Location	Sample Date	Wall Direction	Depth ft	Units	Concentration	
					CWM	DEC
Copper Pond SE Pumphouse	12/17	North	3	mg/kg	2600	6700 *
	12/17	South	3	mg/kg	4.2	40
	12/17	East	3	mg/kg	3900	2800
	12/17	West	3	mg/kg	10	35
	12/17	Base	3	mg/kg	3900	2400
	12/21	North	5	mg/kg	2400	1570 **
	Basin # 2 Floor	12/17	North	3	mg/kg	750
	12/17	South	3	mg/kg	1400	NS
	12/17	East	3	mg/kg	2200	7300 *
	12/17	West	3	mg/kg	560	660
	12/17	Base	3	mg/kg	2000	NS
	12/21	East	5	mg/kg	260	531 **
Basin # 3 Floor	12/18	North	8	mg/kg	91	NS
	12/18	South	8	mg/kg	160	NS
	12/18	East	8	mg/kg	170	NS
	12/18	West	8	mg/kg	110	NS
	12/22	North	12	mg/kg	26	NS
	12/22	South	12	mg/kg	40	NS
	12/22	East	12	mg/kg	110	NS
	12/22	West	12	mg/kg	330	NS
	12/22	Base	12	mg/kg	61	27.7
	Copper Pond NW Pumphouse	12/18	Surface grab	0	mg/kg	NS
	12/22	Base Compos.	3	mg/kg	NS	872 **

Note: * - Indicates concentration in excess of cleanup limit.

** - Resampled after additional excavation.

NS - No Sample taken.

4.0 Disposal

Based upon the analytical results of a sample collected by CDM on December 2, 1992, the material to be excavated was determined to be non-hazardous for both transportation and disposal. The excavated soil was disposed of at The Elda Sanitary Landfill, a subtitle D landfill, located in Cincinnati, Ohio. The disposal weight records indicate a total of 272 tons were disposed of.

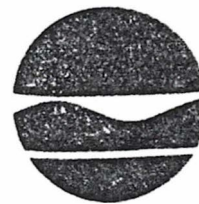
The summary of the landfill weight/acceptance is shown in Appendix E.

5.0 Conclusion

All of the work performed met or exceeded the requirements of the approved Work Plan and Specifications. Remediation activities were observed by representatives of CDM, Eder, and the NYSDEC on a daily basis. The final sampling results indicate that the contaminated soil has been removed. The conditions of the consent order have now been met, and the site can be delisted in accordance with the consent order.

Appendix - A

Work Plan Approval From NYSDEC



Thomas C. Jorling
Commissioner

Oct 30, 1992

Mr. Mark Maimone, P.E.
Camp Dresser & McKee
100 Crossways Park North
Woodbury, N.Y., 11797

Re: Cerro Wire & Cable Co., 130002
Workplan for Soil Remediation (9/92)

Dear Mr. Maimone,

Please be advised that the above submittal is approved and constitutes the approved workplan. Please notify this office 5 days in advance of any proposed field work.

Thanks,

Anthony Candela, P.E.
Regional Engineer
Hazardous Waste Remediation

cc: C. Goddard
S. McCormick
cer1092

FAXED
10-30-92

jec

Appendix - B

Landfill Weight / Acceptance



ELDA Recycling & Disposal Facility
5701 Este Avenue
Cincinnati, OH 45232
FAX: (513)641-1732
Phone: (513)641-3600

DATE 1-20-93

TIME 1:40

TO Bob Burns
COMPANY Camp-Dresser-McKee

FAX # 516 496 8864
PHONE # _____

FROM LANA CRUZ
COMPANY ELDA R+DF

COMMENTS Per our conversation - Your Request

TOTAL # OF PAGES (Including Cover) 2

IF YOU DO NOT RECEIVE ALL PAGES - CALL: (513)641-3600

CERRO CIRCUITS

WMA015296

CONT SOIL

DATE

Yards

Tons

TOTAL \$

12/22/92

24.91

\$498.20

12/23/92

45.79

\$915.80

12/21/92

173.37

\$3,467.40

12/28/92

27.85

\$557.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

\$0.00

272

0.00

\$5,438.40

YEAR TO DATE

271.92

0.00

\$5,438.40

Appendix - C

Soil Sample Analytical Data

ANALYSIS REPORT - Copper-Total

Reviewed by: *R. Pharo* 12/21/92

Project

Cerro Wire
#130002
Syosset, NY
Handler: John Conover

Custody Document B5282

Received: 12/18/92 11:24 AM
Sampled by: J Conover/C LaFemine

Sample 1

Custody: B5282 Phase: Grab
Collected: 12/18/92
Location: West Side of Garage
Remarks:

Analysis Information

Analyzed: 12/21/92
Dilution: 1
Remarks:

Analyte	Concentration	Units	MDL	Units
Copper	16300	ppm	.025	ppm

Sample 2

Custody: B5282 Phase: Grab
Collected: 12/18/92
Location: CCPH-S
Remarks: *pump house (south)*

Analysis Information

Analyzed: 12/21/92
Dilution: 1
Remarks:

Analyte	Concentration	Units	MDL	Units
Copper	40	ppm	.025	ppm

Sample 3

Custody: B5282 Phase: Grab
Collected: 12/18/92
Location: CCPH-B
Remarks: *pump house (bottom)*

Analysis Information

Analyzed: 12/21/92
Dilution: 1
Remarks:

Analyte	Concentration	Units	MDL	Units
Copper	2400	ppm	.025	ppm

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR= Not Reported

ANALYSIS REPORT - Copper-Total

Reviewed by: *[Signature]* 12/21/92

Project

Cerro Wire
 #130002
 Syosset, NY
 Handler: John Conover

Custody Document B5282

Received: 12/18/92 11:24 AM
 Sampled by: J Conover/C LaFemine

Sample 4

Custody: B5282 Phase: Grab
 Collected: 12/18/92
 Location: CCPH-E
 Remarks:

Pump house (east)

Analysis Information

Analyzed: 12/21/92
 Dilution: 1
 Remarks:

Analyte	Concentration	Units	MDL	Units
Copper	2800	ppm	.025	ppm

Sample 5

Custody: B5282 Phase: Grab
 Collected: 12/18/92
 Location: CCPH-N
 Remarks:

Pump house (north)

Analysis Information

Analyzed: 12/21/92
 Dilution: 1
 Remarks:

Analyte	Concentration	Units	MDL	Units
Copper	6700	ppm	.025	ppm

Sample 6

Custody: B5282 Phase: Grab
 Collected: 12/18/92
 Location: B2-W
 Remarks:

Basin 2 (west)

Analysis Information

Analyzed: 12/21/92
 Dilution: 1
 Remarks:

Analyte	Concentration	Units	MDL	Units
Copper	660	ppm	.025	ppm

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR= Not Reported

ANALYSIS REPORT - Copper-Total

Reviewed by: JP LaF 12/21/92

Project

Cerro Wire

#130002

Syosset, NY

Handler: John Conover

Custody Document B5282

Received: 12/18/92 11:24 AM

Sampled by: J Conover/C LaFemine

Sample 7

Custody: B5282

Phase: Grab

Collected: 12/18/92

Location: B2-E

Remarks:

basin 2 (east)

Analysis Information

Analyzed: 12/21/92

Dilution: 1

Remarks:

Analyte	Concentration	Units	MDL	Units
Copper	7300	ppm	.025	ppm

Sample 8

Custody: B5282

Phase: Grab

Collected: 12/18/92

Location: CCPH-W

Remarks:

ump House (west)

Analysis Information

Analyzed: 12/21/92

Dilution: 1

Remarks:

Analyte	Concentration	Units	MDL	Units
Copper	35	ppm	.025	ppm

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR= Not Reported



ANALYSIS REPORT - Copper-Total

Reviewed by: 

12/23/92

Project

Cerro Wire

#130002

Syosset, NY

Handler: J Conover/C LaFemina

Custody Document B5905

Received: 12/22/92 10:52 AM

Sampled by: Christopher LaFemina

Sample 1

Custody: B5905 Phase: Grab

Collected: 12/22/92 10:50 AM

Location: CCPH-N2

Remarks:

Analysis Information

Analyzed: 12/23/92

Dilution: 1

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Copper	1570	ppm	.025	ppm

Sample 2

Custody: B5905 Phase: Grab

Collected: 12/22/92 10:50 AM

Location: West Side of Garage 2

Remarks:

Analysis Information

Analyzed: 12/23/92

Dilution: 1

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Copper	872	ppm	.025	ppm

Sample 3

Custody: B5905 Phase: Grab

Collected: 12/22/92 10:50 AM

Location: B2E2

Remarks:

Analysis Information

Analyzed: 12/23/92

Dilution: 1

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Copper	531	ppm	.025	ppm

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR= Not Reported

Member



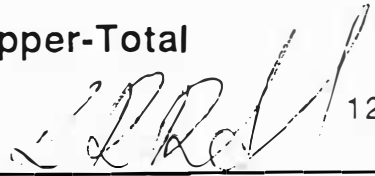
Tyree
Environmental
Technologies

Environmental Testing Laboratories, Inc.

208 Route 100, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - Copper-Total

Reviewed by: _____

 12/22/92

Project

Cerro Wire

#130002

Syosset, NY

Handler: John Conover

Custody Document B5902

Received: 12/21/92 2:45 PM

Sampled by: Christopher LaFemine

Sample 1

Custody: B5902 Phase: Grab

Collected: 12/21/92 2:45 PM

Location: Cerro Wire B-1

Remarks:

Analysis information

Analyzed: 12/22/92

Dilution: 1

Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Copper	27.7	ppm	.025	ppm

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR= Not Reported

ANALYSIS REPORT - Copper-Total

Reviewed by: *[Signature]*

12/23/92

Project

Cerro Wire

#130002

Syosset, NY

Handler: J Conover/C LaFemina

Custody Document B5905

Received: 12/22/92 10:52 AM

Sampled by: Christopher LaFemina

Sample 1

Custody: B5905 Phase: Grab
Collected: 12/22/92 10:50 AM
Location: CCPH-N2
Remarks:

Analysis Information

Analyzed: 12/23/92
Dilution: 1
Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Copper	1570	ppm	.025	ppm

Sample 2

Custody: B5905 Phase: Grab
Collected: 12/22/92 10:50 AM
Location: West Side of Garage 2
Remarks:

Analysis Information

Analyzed: 12/23/92
Dilution: 1
Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Copper	872	ppm	.025	ppm

Sample 3

Custody: B5905 Phase: Grab
Collected: 12/22/92 10:50 AM
Location: B2E2
Remarks:

Analysis Information

Analyzed: 12/23/92
Dilution: 1
Remarks:

<u>Analyte</u>	<u>Concentration</u>	<u>Units</u>	<u>MDL</u>	<u>Units</u>
Copper	531	ppm	.025	ppm

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; S=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR= Not Reported

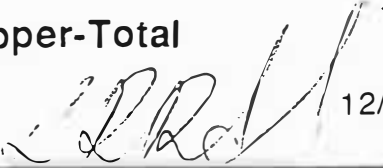
member

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-8344 · Phone: 516-249-1456

ANALYSIS REPORT - Copper-Total

Reviewed by: _____

 12/22/92

Project

Cerro Wire

#130002

Syosset, NY

Handler: John Conover

Custody Document B5902

Received: 12/21/92 2:45 PM

Sampled by: Christopher LaFemine

Sample 1

Custody: B5902 Phase: Grab

Collected: 12/21/92 2:45 PM

Location: Cerro Wire B-1

Remarks:

Analysis Information

Analyzed: 12/22/92

Dilution: 1

Remarks:

Analyte

Copper

Concentration

27.7

Units

ppm

MDL

.025

Units

ppm

ppb=ug/L,ug/Kg; ppm=mg/L,mg/Kg; ND= Not Detected; B=in blank; NA=Not Analyzed;MDL=Method Detection Limit;nd=Not Determined; NR= Not Reported

Member



Tyree
Environmental
Technologies

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C924993/1

12/21/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/17/92 RECEIVED: 12/18/92

SAMPLE: Soil, Area 1, northern sidewall, 3:05 pm

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 2600

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C924993/2

12/21/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540
ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/17/92 RECEIVED: 12/18/92

SAMPLE: Soil, Area 1, eastern sidewall

ANALYTICAL PARAMETERS
Copper as Cu mg/Kg 3900

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C924993/3

12/21/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/17/92 RECEIVED: 12/18/92

SAMPLE: Soil, Area 1, southern sidewall, 3:10 pm

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 4.2

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C924993/4

12/21/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/17/92 RECEIVED: 12/18/92

SAMPLE: Soil, Area 1, center base, 3:00 pm

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 3900

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C924993/5

12/21/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/17/92 RECEIVED: 12/18/92

SAMPLE: Soil, Area 1, western sidewall, 3:20 pm

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 10

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C924993/6

12/21/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/17/92 RECEIVED: 12/18/92

SAMPLE: Soil, Area 2B, northern sidewall

ANALYTICAL PARAMETERS
Copper as Cu mg/Kg 750

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C924993/7

12/21/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/17/92 RECEIVED: 12/18/92

SAMPLE: Soil, Area 2B, eastern sidewall

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 2200

cc:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C924993/8

12/21/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/17/92 RECEIVED: 12/18/92

SAMPLE: Soil, Area 2B, southern sidewall

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 1400

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C924993/9

12/21/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/17/92 RECEIVED: 12/18/92

SAMPLE: Soil, Area 2B, center base

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 2000

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C924993/10

12/21/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/17/92 RECEIVED: 12/18/92

SAMPLE: Soil, Area 2B, western sidewall

ANALYTICAL PARAMETERS

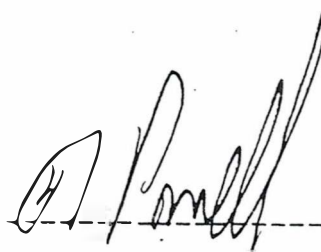
Copper as Cu mg/Kg 560

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C925034/1

12/23/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

FO#842551

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/21/92 RECEIVED: 12/21/92

SAMPLE: Soil sample, Area 3-12' center base

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 61

cc:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C925034/2

12/23/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

PO#842551

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/21/92 RECEIVED: 12/21/92

SAMPLE: Soil sample, Area 3-12' north side

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 26

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C925034/3

12/23/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

PG#842551

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/21/92 RECEIVED: 12/21/92

SAMPLE: Soil sample, Area 3-12' south side

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 40

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C925034/4

12/23/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

PO#842551

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/21/92 RECEIVED: 12/21/92

SAMPLE: Soil sample, Area 3-12' east side

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 110

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C925034/5

12/23/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

PO#842551

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/21/92 RECEIVED: 12/21/92

SAMPLE: Soil sample, Area B-12' west side

ANALYTICAL PARAMETERS

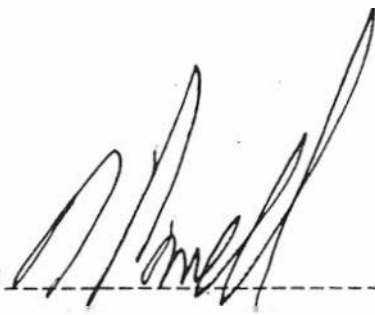
Copper as Cu mg/Kg 64

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C925034/6

12/23/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

PO#842551

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/21/92 RECEIVED: 12/21/92

SAMPLE: Soil sample, Area 3-8' north side

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 91

cc:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C925034/7

12/23/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

PG#842551

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/21/92 RECEIVED: 12/21/92

SAMPLE: Soil sample, Area 3-8' south side

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 160

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C925034/8

12/23/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

PO#842551

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/21/92 RECEIVED: 12/21/92

SAMPLE: Soil sample, Area 3-8' east side

ANALYTICAL PARAMETERS

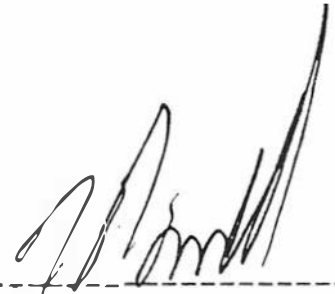
Copper as Cu mg/Kg 170

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C925034/9

12/23/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

PO#842551

SOURCE OF SAMPLE: Cerro Conduit Site, Robbins Ln., Syosset
COLLECTED BY: Client DATE COL'D: 12/21/92 RECEIVED: 12/21/92

SAMPLE: Soil sample, Area 3-8' west side

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 330

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C925044/1

12/23/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit, Robbins Ln. & Miller Rd.
COLLECTED BY: Client DATE COL'D: 12/22/92 RECEIVED: 12/22/92

SAMPLE: Soil sample, Area 1, phase II*

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS

Copper as Cu mg/Kg 2400

cc:

REMARKS: • Northern sidewall.

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C925044/2

12/23/92

Chemical Waste Management, Incorporated
100 Nassau Park Boulevard
Princeton, NJ 08540

ATTN: Peter Anthony

SOURCE OF SAMPLE: Cerro Conduit, Robbins Ln. & Miller Rd.
COLLECTED BY: Client DATE COL'D: 12/22/92 RECEIVED: 12/22/92

SAMPLE: Soil sample, Area 2B, phase II*

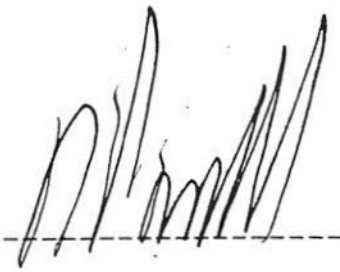
ANALYTICAL PARAMETERS
Copper as Cu mg/Kg 260

ANALYTICAL PARAMETERS

cc:

REMARKS: * Center base.

DIRECTOR _____





CHAIN OF CUSTODY RECORD
Hazardous Materials

Location of Sampling: Producer Hauler Disposal Site
 Other: Cerro Conduit Remediation Site

Company's Name Cerro Conduit Company Telephone () _____

Address Robbing Lane 4 miles Rural Socoth N.Y.
number street city state zip

Collector's Name Peter A. Anthony Telephone (609) 243-7800

Date Sampled 12-17-92 Time Sampled _____ hours

Collector Sample No.	No. of Containers	Sample Description/Source	Time
AREA 1 - center	(1)	Soil from Excavation Pit	3:00
Area 1 - Eastern Side	(1)	↓	3:05
Area 1 - Western Side	(1)		3:10
Area 1 - North Side	(1)		3:15
Area 1 - South Side	(1)		3:20

Sample(s) Submitted to:

1. ECOTest All samples for Total Cd/pe
name of organization

2. _____
name of organization

* Chain of Possession:

1.	<u>Peter A. Anthony</u> signature	<u>Project Manager</u> title	<u>(12/17/92)</u> inclusive dates
2.	<u>Tom Powell</u> signature	<u>Director</u> title	<u>6:30 PM 12/17/92 - 12/18/92</u> inclusive dates
3.	<u>[Signature]</u> signature	_____ title	<u>12/18/92 9:00 AM</u> inclusive dates
4.	_____ signature	_____ title	_____ inclusive dates
5.	_____ signature	_____ title	_____ inclusive dates

"Certificate of Representative Sample" attached; Yes No/Explain

NOT FOR DISPOSAL

* Note: Apparent gaps/breaks in the "inclusive dates" section of the "Chain of Possession" Section are covered by site sample shipping/receiving logs.



CHAIN OF CUSTODY RECORD
Hazardous Materials

11

Location of Sampling: ___ Producer ___ Hauler ___ Disposal Site
X Other: Cerro Conchuit Remediation Site

Company's Name Cerro Conchuit Company Telephone () ___
Address Robbins Lane & Miller Road Spencer, N.Y.
number street city state zip

Collector's Name Peter A. Latta Telephone (607) 243-7800
Date Sampled 12/17/92 Time Sampled ___ hours

Collector Sample No.	No. of Containers	Sample Description/Source	TIME
AREA 23 - Center Pt. (1)	(1)	Soil From excavation P-6	3:35
Area 23 - NW corner (1)	(1)		3:50
Area 23 - western side (1)	(1)		3:55
Area 23 - northern side (1)	(1)		3:40
Area 23 - southern side (1)	(1)		3:45

Sample(s) Submitted to:
1. FLORIST All samples for total copper
name of organization
2. _____
name of organization

* Chain of Possession:
1. Peter A. Latta Project Manager 12/17/92 12/17/92
signature title inclusive dates
2. Tom Powell Director 630 12/17/92 - 10/8/92
signature title inclusive dates
3. Edmond Vane 12/18/92 9:00 AM
signature title inclusive dates
4. _____
signature title inclusive dates
5. _____
signature title inclusive dates

"Certificate of Representative Sample" attached; ___ Yes No/Explain
not for disposal

* Note: Apparent gaps/breaks in the "inclusive dates" section of the "Chain of Possession" Section are covered by site sample shipping/receiving logs.



CHAIN OF CUSTODY RECORD
Hazardous Materials

Location of Sampling: _____ Producer _____ Hauler _____ Disposal Site _____
 Other: Cerro Conduit Remediation Site

Company's Name Cerro Conduit Remediation Telephone () _____

Address Robbins Lane Miller Road Georgetown N.Y.
 number street city state zip

Collector's Name Peter A. Anthony Telephone (809) 243-2800

Date Sampled _____ Time Sampled _____ hours

Collector Sample No.	No. of Containers	Sample Description/Source
AREA 3 - 8' north side	(1)	Soil From Excavation Pit
AREA 3 - 8' east side	(1)	↓
AREA 3 - 8' east side	(1)	
AREA 3 - 8' west side	(1)	

Sample(s) Submitted to:

1. FIO Test (All samples for total Copper)
 name of organization

2. _____
 name of organization

* Chain of Possession:

1.	<u>Peter A. Anthony</u> signature	<u>Project Manager</u> title	<u>12/17/92 - 12-21-92</u> inclusive dates
2.	<u>Anthony J. DeStefano</u> signature	<u>Project Sub</u> title	<u>12/21/92</u> inclusive dates
3.	<u>[Signature]</u> signature	<u>George S. [Signature]</u> title	<u>12/22 3:20pm</u> inclusive dates
4.	_____ signature	_____ title	_____ inclusive dates
5.	_____ signature	_____ title	_____ inclusive dates

"Certificate of Representative Sample" attached; Yes No/Explain

* Note: Apparent gaps/breaks in the "inclusive dates" section of the "Chain of Possession" Section are covered by site sample shipping/receiving logs.



CHAIN OF CUSTODY RECORD
Hazardous Materials

Location of Sampling: Producer Hauler Disposal Site
Other: Cerro Conduct Remediation Site
Company's Name Cerro Conduct Company Telephone
Address Robbins Lane & Miller Rd Spacet N.Y.
Collector's Name Peter A. Anthony Telephone
Date Sampled Time Sampled hours

Table with 3 columns: Collector Sample No., No. of Containers, Sample Description/Source. Rows include Area 3 - 12' center base, 12' north side, 12' south side, 12' east side, 12' west side.

Sample(s) Submitted to:
1. ECOTest (All samples for total Copper)
name of organization
2. name of organization

* Chain of Possession:
1. [Signature] Project Manager 12/21/92
signature title inclusive dates
2. [Signature] Eastern Lab 12/21/92
signature title inclusive dates
3. [Signature] ECOTest Lab 12/21/92 3:20pm
signature title inclusive dates
4. signature title inclusive dates
5. signature title inclusive dates

"Certificate of Representative Sample" attached; Yes No/Explain

* Note: Apparent gaps/breaks in the "inclusive dates" section of the "Chain of Possession" Section are covered by site sample shipping/receiving logs.

\$ 75 time
on site 3/4 of hr.



CHAIN OF CUSTODY RECORD
Hazardous Materials

Location of Sampling: Producer Hauler Disposal Site
 Other: Certes Concrete Company site Remediation
 Company's Name Certes Concrete Telephone () _____
 Address Robbins Lane & Miller Rd Scott Long Island N.Y.
number street city state zip
 Collector's Name P. Anthony Telephone (609) 243-7800
 Date Sampled _____ Time Sampled _____ hours

in EA 1
in 2B

Collector Sample No.	No. of Containers	Sample Description/Source
Phase I Northern Site Council	(1) 502	Soil From Excavation Test Pit
Phase II Center Blvd	(1) 502	Soil From Excavation Test Pit

Sample(s) Submitted to:
 1. ECCTEST LABS INC
name of organization
 2. _____
name of organization

* Chain of Possession:

1.	<u>[Signature]</u> signature	<u>Project Manager</u> title	<u>12-22-92</u> inclusive dates
2.	<u>[Signature]</u> signature	<u>Lab Director</u> title	<u>12-22-92</u> <u>9:36 AM</u> inclusive dates
3.	_____ signature	_____ title	_____ inclusive dates
4.	_____ signature	_____ title	_____ inclusive dates
5.	_____ signature	_____ title	_____ inclusive dates

"Certificate of Representative Sample" attached; Yes No/Explain

* Note: Apparent gaps/breaks in the "inclusive dates" section of the "Chain of Possession" Section are covered by site sample shipping/receiving logs.

Appendix - D

Clean Fill Certification

OYSTER BAY SAND & GRAVEL INC.

GENERAL TRUCKING

DUMP TRAILER

822-6161

December 17, 1992

Chemical Waste Management
Remedial Services Group
100 Nassau Park Blvd.
Princeton, New Jersey 08540

ATT: Mr. Peter Anthony

REF: Cerro Wire Robbins Lane, P.O. # 842553

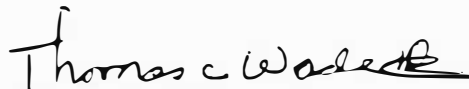
Gentlemen:

We are pleased to be selected to supply the above ref. job with select bank run fill.

The source of the material is Roanoke Sand & Gravel, Middle Island New York, Yaphank Pit. New York State Mining pit source #10-16F1, New York State D.O.T. # 90-AF-53.

We therefore, certify that this material will pass the United States E.P.A. tests.

Very truly yours,


Thomas C. Wade, III

TCW/sp

STATE OF: New York

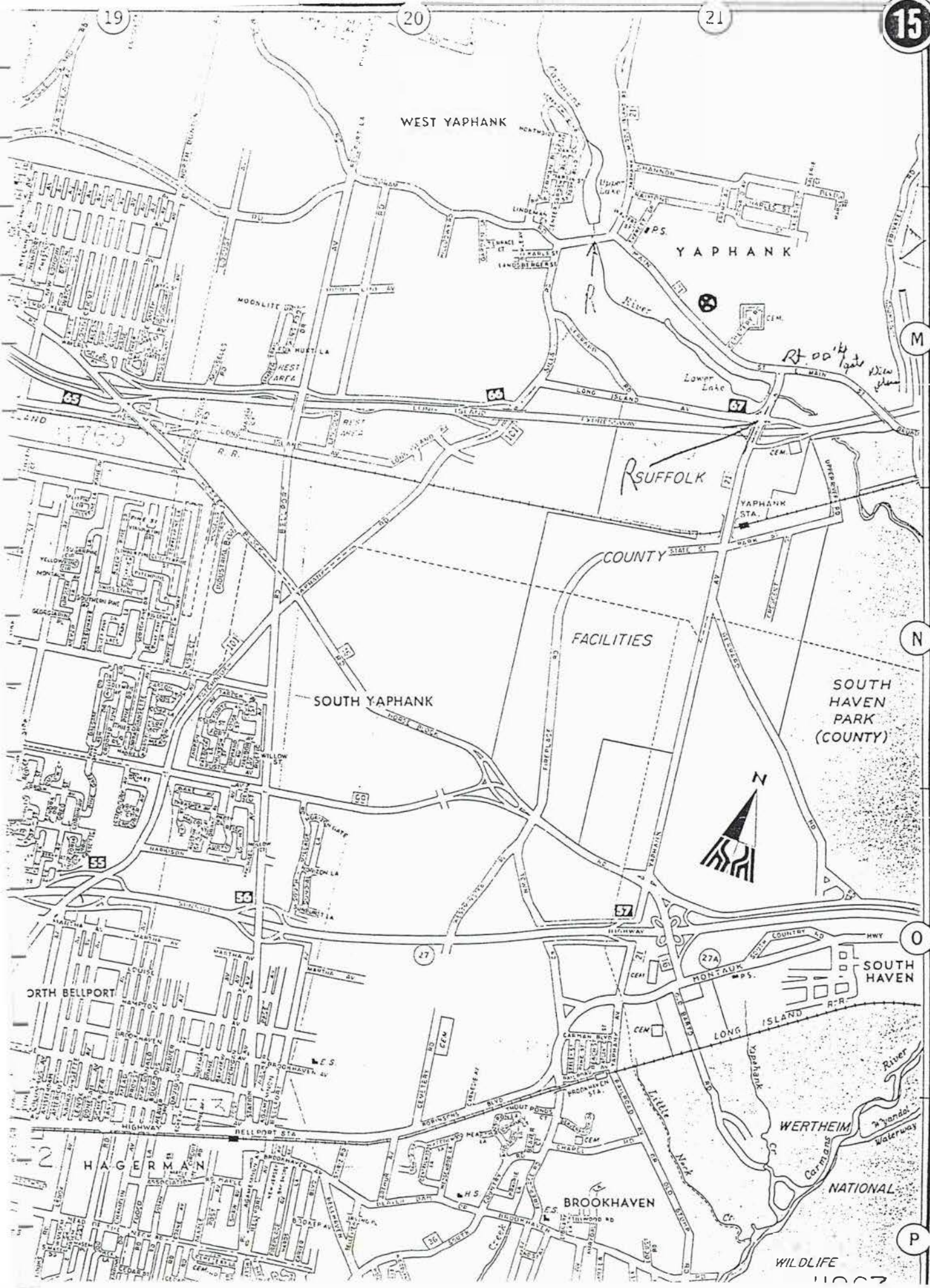
S.S.

COUNTY OF: Nassau

On this 17th Day of December in the year 1992 before me personally came Thomas C. Wade, III being know to me personally as the person who signed the above.

SHEILA PROHINSIE
Notary Public, State of New York
No. 30-4751651
Commisicn Expires November 30, 1993


Notary



FOR ADJOINING AREA SEE MAP NO. 19 SEE MAP NO. 18

WILDLIFE
11007