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PART 360 AND PHASE II  
**HYDROGEOLOGIC INVESTIGATION REPORT**

Southold Landfill  
Town of Southold  
Suffolk County, New York

**VOLUME I - APPENDICES**



**Dvirka and Bartilucci**  
Consulting Engineers

OCTOBER 1991

**PART 360 AND PHASE II  
HYDROGEOLOGIC INVESTIGATION REPORT**

**APPENDICES  
VOLUME I**

**SOUTHOLD LANDFILL**

**PREPARED FOR**

**TOWN OF SOUTHOLD  
SUFFOLK COUNTY, NEW YORK**

**PREPARED BY**

**DVIRKA AND BARTILUCCI  
CONSULTING ENGINEERS  
SYOSSET, NEW YORK**

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**APPENDIX A**

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**APPENDIX A-1**

**Sample Information  
Records**

SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toher

SAMPLE LOCATION/WELL NO: MW-1S

FIELD SAMPLE I.D. NUMBER: MW-1S-GW

DATE: 7/25/91

TIME: 9:00 am

WEATHER: Overcast, Drizzle

TEMPERATURE: 80°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 38.84 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 53.24 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 9 gallons

REMOVAL METHOD: Bailor

FIELD TEST RESULTS:

COLOR: Reddish Brown

pH: 6.14

ODOR: None

TEMPERATURE (°F): 12.4°C

SPECIFIC CONDUCTANCE (umhos/cm): 210

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---

SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toher

SAMPLE LOCATION/WELL NO: MH-1D

FIELD SAMPLE I.D. NUMBER: MH-1D-GW

DATE: 7/25/91

TIME: 12:00 pm

WEATHER: Overcast, Drizzle

TEMPERATURE: 80°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 38.68 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 152.00 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 73 gallons

REMOVAL METHOD: Bladder Pump

FIELD TEST RESULTS:

COLOR: Clear

pH: 7.31

ODOR: None

TEMPERATURE (°F): 12.1°C

SPECIFIC CONDUCTANCE (umhos/cm): 1,000

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

---

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---

SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toher

SAMPLE LOCATION/WELL NO: MW-2S

FIELD SAMPLE I.D. NUMBER: MW-2S-GW

DATE: 7/24/91

TIME: 6:00 pm WEATHER: Sunny

TEMPERATURE: 90°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 12.85 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 29.19 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 10 gallons

REMOVAL METHOD: Bailor

FIELD TEST RESULTS:

COLOR: Clear

pH: 6.74

ODOR: Slight Leachate Odor

TEMPERATURE (°F): 18°C

SPECIFIC CONDUCTANCE (umhos/cm): 2,500

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---



SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toher

SAMPLE LOCATION/WELL NO: MW-2D

FIELD SAMPLE I.D. NUMBER: MW-2D-GW

DATE: 7/24/91

TIME: 6:30 pm WEATHER: Sunny

TEMPERATURE: 90°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 11.85 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 86.07 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 48 gallons

REMOVAL METHOD: Bailor

FIELD TEST RESULTS:

COLOR: Clear

pH: 6.56

ODOR: None

TEMPERATURE (°F): 18.1°C

SPECIFIC CONDUCTANCE (umhos/cm): 2,450

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---

SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toohar

SAMPLE LOCATION/WELL NO: MW-3S

FIELD SAMPLE I.D. NUMBER: MW-3S-GW

DATE: 7/25/91

TIME: 11:30 am WEATHER: Overcast, Drizzle

TEMPERATURE: 80°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 43.05 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 57.59 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 10 gallons

REMOVAL METHOD: Bailer

FIELD TEST RESULTS:

COLOR: Clear

pH: 6.41

ODOR: Slight Leachate Odor

TEMPERATURE (°F): 23.3°C

SPECIFIC CONDUCTANCE (umhos/cm): 2,000

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---

SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Tooher

SAMPLE LOCATION/WELL NO: MW-3D

FIELD SAMPLE I.D. NUMBER: MW-3D-GW

DATE: 7/25/91

TIME: 12:00 am WEATHER: Overcast, Drizzle

TEMPERATURE: 80°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 43.16 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 125.00 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 62 gallons

REMOVAL METHOD: Bailer

FIELD TEST RESULTS:

COLOR: Clear

pH: 7.54

ODOR: None

TEMPERATURE (°F): 15.5°C

SPECIFIC CONDUCTANCE (umhos/cm): 5,000

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---

SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toher

SAMPLE LOCATION/WELL NO: MW-4S

FIELD SAMPLE I.D. NUMBER: MW-4S-GW

DATE: 7/26/91

TIME: 8:30 am WEATHER: Sunny

TEMPERATURE: 90°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 58.81 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 72.31 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 9 gallons

REMOVAL METHOD: Baller

FIELD TEST RESULTS:

COLOR: Clear

pH: 4.80

ODOR: None

TEMPERATURE (°F): 13.2°C

SPECIFIC CONDUCTANCE (umhos/cm): 190

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---



SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toohar

SAMPLE LOCATION/WELL NO: MW-4D

FIELD SAMPLE I.D. NUMBER: MW-4D-GH

DATE: 7/26/91

TIME: 8:00 am WEATHER: Sunny

TEMPERATURE: 90°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 58.57 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 150.0 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 60 gallons

REMOVAL METHOD: Bailer

FIELD TEST RESULTS:

COLOR: Clear

pH: 7.93

ODOR: None

TEMPERATURE (°F): 13.3°C

SPECIFIC CONDUCTANCE (umhos/cm): 2,000

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---

SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toohar

SAMPLE LOCATION/WELL NO: MM-5S

FIELD SAMPLE I.D. NUMBER: MM-5S-GW

DATE: 7/25/91

TIME: 4:45 pm

WEATHER: Overcast, Drizzle

TEMPERATURE: 80°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 63.41 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 77.45 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 9 gallons

REMOVAL METHOD: Bailer

FIELD TEST RESULTS:

COLOR: Clear

pH: 4.50

ODOR: None

TEMPERATURE (°F): 11.4°C

SPECIFIC CONDUCTANCE (umhos/cm): 100

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---

SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toher

SAMPLE LOCATION/WELL NO: MW-5D

FIELD SAMPLE I.D. NUMBER: MW-5D-GW

DATE: 7/25/91

TIME: 5:00 pm

WEATHER: Overcast, Drizzle

TEMPERATURE: 80°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 62.81 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 136.00 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 47 gallons

REMOVAL METHOD: Bladder Pump

FIELD TEST RESULTS:

COLOR: Clear

pH: 7.10

ODOR: None

TEMPERATURE (°F): 12.3°C

SPECIFIC CONDUCTANCE (umhos/cm): 1,500

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---

SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toher

SAMPLE LOCATION/WELL NO: MW-6S

FIELD SAMPLE I.D. NUMBER: MW-6S-GW

DATE: 7/24/91

TIME: 2:05 pm WEATHER: Sunny

TEMPERATURE: 90°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 47.01 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 58.51 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 30 gallons

REMOVAL METHOD: Bailor

FIELD TEST RESULTS:

COLOR: Clear

pH: 5.78

ODOR: None

TEMPERATURE (°F): 11.5°C

SPECIFIC CONDUCTANCE (umhos/cm): 900

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS: Sample analyzed for MS/MSD - triple volume collected. Sample split with John Conover of NYSDEC for TCL organics and inorganic parameters.

---

WELL CASING VOLUMES

---

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---



SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toher

SAMPLE LOCATION/WELL NO: MW-6D

FIELD SAMPLE I.D. NUMBER: MW-6D-GW

DATE: 7/25/91

TIME: 3:30 pm

WEATHER: Overcast, Drizzle

TEMPERATURE: 80°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 47.16 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 145.00 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 63 gallons

REMOVAL METHOD: Bailer

FIELD TEST RESULTS:

COLOR: Clear

pH: 7.45

ODOR: None

TEMPERATURE (°F): 13.6°C

SPECIFIC CONDUCTANCE (umhos/cm): 1,500

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---

SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toher

SAMPLE LOCATION/WELL NO: MW-7S

FIELD SAMPLE I.D. NUMBER: MW-7S-GW

DATE: 7/24/91

TIME: 1:30 pm WEATHER: Sunny

TEMPERATURE: 90°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 42.57 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 57.25 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 9 gallons

REMOVAL METHOD: Bailer

FIELD TEST RESULTS:

COLOR: Clear

pH: 5.60

ODOR: None

TEMPERATURE (°F): 14.8°C

SPECIFIC CONDUCTANCE (umhos/cm): 950

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS:

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---

SAMPLE INFORMATION RECORD

SITE: Southold Landfill

SAMPLE CREW: P. Conde, F. Toohar

SAMPLE LOCATION/WELL NO: MW-7D

FIELD SAMPLE I.D. NUMBER: MW-7D-GM

DATE: 7/26/91

TIME: 9:00 am WEATHER: Sunny

TEMPERATURE: 90°F

SAMPLE TYPE:

GROUND WATER: X

SEDIMENT:

SURFACE WATER/STREAM:

AIR:

SOIL:

OTHER (Describe, i.e., septage, leachate):

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER: 41.48 feet

MEASUREMENT METHOD: Water Level Indicator

DEPTH OF WELL: 125.00 feet

MEASUREMENT METHOD: Water Level Indicator

VOLUME REMOVED: 55 gallons

REMOVAL METHOD: Bailor

FIELD TEST RESULTS:

COLOR: Clear to Light  
Reddish Brown

pH: 6.32

ODOR: None

TEMPERATURE (°F): 14.6°C

SPECIFIC CONDUCTANCE (umhos/cm): 600

OTHER (OVA, Methane meter, etc.):

CONSTITUENTS SAMPLED:

TCL +30 Organics and Inorganics  
Leachate Parameters

REMARKS: Iron staining appears to be the cause of the slightly reddish color of sample and not the sediment.

---

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

---

**APPENDIX A-2**

**Chain of Custody  
Forms**



# nytest environmental inc

## CHAIN OF CUSTODY RECORD

Page 1 of 1

SHIP TO: Nytest Environmental Inc.  
 60 Seaview Blvd.  
 Port Washington, NY 11050  
 (516) 625-5500  
 Attn: \_\_\_\_\_

REPORT TO: Client Name Dvika and Bartilucci  
 Address 6800 Jericho Turnpike  
Syosset NY  
 Phone 516-364-9892  
 Attn. R. Petrella

Project No. <u>1027-003</u>		Project Name <u>Southold</u>		Date Shipped <u>5-16-91</u>		Carrier <u>Fedex</u>	
Sampler: (Signature) <u>Pete Conde</u>		Analytical Protocol		Air Bill No. <u>0037017190</u>		Cooler No.	
Sample I.D.	Date/Time Sampled	Sample Description	No. Of Containers	ANALYSIS REQUESTED			
<u>SH-DW</u>	<u>5-15 5:40</u>	<u>Drilling Water</u>	<u>7</u>	<u>601/602 volatiles, 624 volatiles, TCL organics, Metals and Cyanide</u>			

Relinquished by (Signature) <u>Pete Conde</u>	Date / Time <u>5-15 09:00</u>	Rec'd. By (Signature)	Date / Time
Print Name <u>Pete Conde</u>		Print Name	
Relinquished by (Signature)	Date / Time	Rec'd. by (Signature)	Date / Time
Print Name		Print Name	
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time
Print Name		Print Name	

Special Instructions/Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## CHAIN OF CUSTODY RECORD

SHIP TO: Nytest Environmental Inc.  
 60 Seaview Blvd.  
 Port Washington, NY 11050  
 (516) 625-5500  
 Attn: \_\_\_\_\_

REPORT TO: Client Name Durka + Bert Lucci  
 Address 600 Terich Turnpike  
Sydney NY  
 Phone 516-364-9892  
 Attn: Robin Petrella

Project No.	Project Name		Date Shipped	Carrier
<u>1027-B03</u>	<u>Southold Landfill</u>			<u>Fedex</u>
Sampler: (Signature)	Analytical Protocol		Air Bill No.	Cooler No.
<u>Peter Conde</u>				
Sample I.D.	Date/Time Sampled	Sample Description	No. Of Containers	ANALYSIS REQUESTED
<u>MWGA</u> <sup>(MS/MSD)</sup>	<u>7/15 11:00</u>	<u>Soil</u>	<u>18</u>	<u>CO1/CO2 volatiles, 624 volatiles</u>
<u>FB-01</u>	<u>7/15 10:00</u>	<u>Water</u>	<u>7</u>	<u>TLC organics, Metals and Cyanide</u>
<u>Trip Blk</u>	<u>7/15</u>	<u>Water</u>	<u>4</u>	<u>CO1/CO2 volatiles, 624 volatiles</u>

Relinquished by (Signature) <u>Peter Conde</u>	Date / Time <u>7-16 10:00</u>	Rec'd. By (Signature)	Date / Time
Print Name <u>Peter Conde</u>		Print Name	
Relinquished by (Signature)	Date / Time	Rec'd. by (Signature)	Date / Time
Print Name		Print Name	
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time
Print Name		Print Name	

Special Instructions/Comments Sample # MWGA for MS/MSD





# nytest environmental inc

## CHAIN OF CUSTODY RECORD

Page 1 of 1

SHIP TO: Nytest Environmental Inc.  
 60 Seaview Blvd.  
 Port Washington, NY 11050  
 (516) 625-5500  
 Attn. Mike Brennan

REPORT TO: Client Name Durka & Bartolucci  
 Address 6800 Jericho Turnpike  
Syosset NY 11791  
 Phone 516-364-9892  
 Attn. Robb Petrella

Project No. <u>1027-B03</u>		Project Name <u>Southold Landfill</u>		Date Shipped <u>7-25-91</u>	Carrier <u>Fedex</u>
Sampler: (Signature) <u>[Signature]</u>		Analytical Protocol <u>NYSDEC ASP</u>		Air Bill No. <u>0037017201</u>	Cooler No.
Sample I.D.	Date/Time Sampled	Sample Description	No. Of Containers	ANALYSIS REQUESTED	
<u>MW-25-GW</u>	<u>7/24 17:30</u>	<u>Water</u>	<u>9</u>	<u>TCL+30* and 601/602 and leachate parameters</u>	
<u>MW-2D-GW</u>	<u>7/24 17:45</u>	<u>Water</u>	<u>9</u>	<u>TCL+30 and 601/602 and leachate parameters</u>	

Relinquished by (Signature) <u>[Signature]</u>	Date / Time <u>7-25 10:00</u>	Rec'd. By (Signature)	Date / Time
Print Name <u>Kate Conde</u>		Print Name	
Relinquished by (Signature)	Date / Time	Rec'd. by (Signature)	Date / Time
Print Name		Print Name	
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time
Print Name		Print Name	

Special Instructions/Comments \*Samples are to be analyzed for all TCL+30 parameters (VOCs, BNA, Pest/PCB, Metals + CN) plus VDA's are to be run by 8240 and 601/602 (if necessary). Leachate indicators = TRM, Ammonia, Nitrite, COD, BOD, TUC, Sulfide, Alkalinity, Phenols, Chloride, Total Hardness (CaCO3), Turbidity, Color, Boron

Client Retains Yellow Copy Only



# nytest environmental inc

## CHAIN OF CUSTODY RECORD

Page 1 of 1

SHIP TO: Nytest Environmental Inc.  
60 Seaview Blvd.  
Port Washington, NY 11050  
(516) 625-5500  
Attn: Mike Brennan

REPORT TO: Client Name Riviera and Rept. Lucci  
Address 6800 Jericho Turnpike  
Syosset NY 11791  
Phone 516-369-9842  
Attn: Robbin Petrella

Project No. <u>1027B03</u>		Project Name <u>Southold Landfill</u>		Date Shipped <u>7-25-91</u>	Carrier <u>Facley</u>
Sampler: (Signature) <u>[Signature]</u>		Analytical Protocol <u>NYSDDEC APC</u>		Air Bill No. <u>0037017206</u>	Cooler No. <u>2</u>
Sample I.D.	Date/Time Sampled	Sample Description	No. Of Containers	ANALYSIS REQUESTED	
<u>MW-7S-GW</u>	<u>7-25 0700</u>	<u>Water</u>	<u>9</u>	<u>TCL+30* and 601/602</u> <u>and leachate parameters</u>	
<u>MW-15-GW</u>	<u>7-25 0900</u>	<u>Water</u>	<u>9</u>	<u>TCL+30* and 601/602 and</u> <u>Leachate Parameters</u>	

Relinquished by (Signature) <u>[Signature]</u>	Date / Time <u>7-25 10:00</u>	Rec'd. By (Signature)	Date / Time
Print Name <u>Peter Conde</u>		Print Name	
Relinquished by (Signature)	Date / Time	Rec'd. by (Signature)	Date / Time
Print Name		Print Name	
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time
Print Name		Print Name	

Special Instructions/Comments \*Samples are to be analyzed for all TCL+30 parameters (VOC, BVA, Pest/PCB, Metals + CU) plus UDAs are to be run by 8240 and 601/602. Leachate indicators = TKN, Ammonia, Nitrite, COD, BOD, TOC, Sulfate, Alkalinity, Phos, Chloride, Total Hardness (CaCO3), Fluor, Boron





# nytest environmental inc

## CHAIN OF CUSTODY RECORD

Page 1 of 1

SHIP TO: Nytest Environmental Inc.  
 60 Seaview Blvd.  
 Port Washington, NY 11050  
 (516) 625-5500  
 Attn: Mike Brennan

REPORT TO: Client Name D. I. Ke and Bartolucci  
 Address 6800 Terrace Turnpike  
Syosset NY 11791  
 Phone: 516-364-9892  
 Attn: Robbin Petrella

Project No. <u>1027-203</u>		Project Name <u>Southold Landfill</u>		Date Shipped <u>7-25-91</u>	Carrier <u>Fedex</u>
Sampler: (Signature) <u>Peter Conde</u>		Analytical Protocol <u>NYSDEC ASP</u>		Air Bill No. <u>0037017201</u>	Cooler No.
Sample I.D.	Date/Time Sampled		Sample Description	No. Of Containers	ANALYSIS REQUESTED
<u>MU-6S-GW</u> <u>(MS/MSD)</u>	<u>7/24</u>	<u>14:00</u>	<u>Water</u>	<u>27</u>	<u>TCL+30* and 601/602 and leachate parameters</u>

Relinquished by (Signature) <u>Peter Conde</u>	Date / Time <u>7-25 / 12:00</u>	Rec'd. By (Signature)	Date / Time
Print Name <u>Peter Conde</u>		Print Name	
Relinquished by (Signature)	Date / Time	Rec'd. by (Signature)	Date / Time
Print Name		Print Name	
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time
Print Name		Print Name	

Special Instructions/Comments \*Samples are to analyzed for all TCL+30 parameters  
(VOC, BNA, Pest/PCB, Metals = CM) plus VOCs are to be run by 8240  
and 601/602. Leachate indicators = TKN, Ammonia, Nitrate, COD, BOD, TOC  
Sulfonate alkalinity, Phosphate, Chloride, Total hardness (CaCO3), Turbidity, Color, BOD



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## CHAIN OF CUSTODY RECORD

Page 1 of 1

SHIP TO: Nytest Environmental Inc.  
 60 Seaview Blvd.  
 Port Washington, NY 11050  
 (516) 625-5500  
 Attn: M. Ke Brennan

REPORT TO: Client Name Diana and Bart Lucci  
 Address 6800 Jericho Turnpike  
Syosset NY 11791  
 Phone 516-516-364-9842  
 Attn: Robbin Petrella

Project No. <u>1827-B03</u>		Project Name <u>Sonthold Landfill</u>		Date Shipped <u>7-26-91</u>	Carrier <u>Fedex</u>
Sampler: (Signature) <u>[Signature]</u>		Analytical Protocol <u>NYSDEC ASP</u>		Air Bill No. <u>0037017223</u>	Cooler No. <u>5</u>
Sample I.D.	Date/Time Sampled	Sample Description	No. Of Containers	ANALYSIS REQUESTED	
<u>MW-3S-GW</u>	<u>7-25 15:00</u>	<u>Water</u>	<u>9</u>	<u>TCL+30* and 601/602 and Leachate parameters</u>	
<u>MW-3D-GW</u>	<u>7-25 15:15</u>	<u>Water</u>	<u>9</u>	<u>TCL+30* and 601/602 and Leachate parameters</u>	

Relinquished by (Signature) <u>[Signature]</u>	Date / Time <u>7-26 17:00</u>	Rec'd. By (Signature)	Date / Time
Print Name <u>Peter Conde</u>		Print Name	
Relinquished by (Signature)	Date / Time	Rec'd. by (Signature)	Date / Time
Print Name		Print Name	
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time
Print Name		Print Name	

Special Instructions/Comments \* Samples to be run for all TCL+30 parameters (VDA) (624)  
BU 4, Pest/PCB, Metals, CN) plus run VDAs 8010/8020 or 601/60  
Leachate Indicators = TKN, Ammonia, Nitrate, COD, BOD, TOC, Sulfate,  
Alkalinity, Phenols, Chloride, hardness (CaCO3), Color, Boron



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## CHAIN OF CUSTODY RECORD

Page 1 of 1

SHIP TO: Nytest Environmental Inc.  
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 (516) 625-5500  
 Attn: Mike Brennan

REPORT TO: Client Name Dvorka and Bartilucci  
 Address 680 Jericho Turnpike  
Syosset, NY 11791  
 Phone 516-364-9842  
 Attn: Robbin Petrella

Project No. <u>1027-B03</u>		Project Name <u>Southold Landfill</u>		Date Shipped <u>7-26-91</u>	Carrier <u>FedEx</u>
Sampler: (Signature) <u>[Signature]</u>		Analytical Protocol <u>NYSDEC ASP</u>		Air Bill No. <u>0037017223</u>	Cooler No. <u>4</u>
Sample I.D.	Date/Time Sampled	Sample Description	Nd. Of Containers	ANALYSIS REQUESTED	
<u>MW-4S-GW</u>	<u>7-26 0740</u>	<u>Water</u>	<u>9</u>	<u>TCL+30* and 601/602 and leachate parameters</u>	
<u>MW-4D-GW</u>	<u>7-26 0800</u>	<u>Water</u>	<u>9</u>	<u>TCL+30* and 601/602 and leachate parameters</u>	

Relinquished by (Signature) <u>[Signature]</u>	Date / Time <u>7-26 12:00</u>	Rec'd. By (Signature)	Date / Time
Print Name <u>Peter Conle</u>		Print Name	
Relinquished by (Signature)	Date / Time	Rec'd. by (Signature)	Date / Time
Print Name		Print Name	
Relinquished by (Signature)	Date / Time	Received for Laboratory by. (Signature)	Date / Time
Print Name		Print Name	

Special Instructions/Comments \* Samples to be run for all TCL+30 parameters (VOA<sup>62</sup>, BUN, Pest/PCB, Metals, CN) plus run VOAs for 5010/8020 or 601/602 leachate Indicators = TKN, Ammonia, Nitrate, COD, BOD, TOC, Sulfate, Alkalinity, Phosds, Chloride, hardness (CaCO<sub>3</sub>), Color Boron.



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## CHAIN OF CUSTODY RECORD

Page 1 of 1

SHIP TO: Nytest Environmental Inc.  
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 Port Washington, NY 11050  
 (516) 625-5500  
 Attn: Mike Brennan

REPORT TO: Client Name Dick and Bart Lucci  
 Address 6800 Jericho Turnpike  
Syosset, NY 11791  
 Phone 516-364-9892  
 Attn: Robin Petrella

Project No. <u>1027-B03</u>		Project Name <u>Southold Landfill</u>		Date Shipped <u>7-26-91</u>	Carrier <u>Fedex</u>
Sampler: (Signature) <u>[Signature]</u>		Analytical Protocol <u>NYSDEC ASP</u>		Air Bill No. <u>0037017223</u>	Cooler No. <u>3</u>
Sample I.D.	Date/Time Sampled	Sample Description	No. Of Containers	ANALYSIS REQUESTED	
<u>MW-1D-GW</u>	<u>7-25 10:00</u>	<u>Water</u>	<u>9</u>	<u>TCL+30* and 601/602 and leachate parameters</u>	
<u>MU-7D-GW</u>	<u>7-25 0730</u>	<u>Water</u>	<u>9</u>	<u>TCL+30* and 601/602 and leachate parameters</u>	

Relinquished by (Signature) <u>[Signature]</u>	Date / Time <u>7-26 12:00</u>	Rec'd. By (Signature)	Date / Time
Print Name <u>Peter Conde</u>		Print Name	
Relinquished by (Signature)	Date / Time	Rec'd. by (Signature)	Date / Time
Print Name		Print Name	
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time
Print Name		Print Name	

Special Instructions/Comments \* Samples to be run for all TCL+30 parameters (VDA) (624)  
BW+Pest/PCB, Metals (CN) plus run VDAs for 8010/8020 or 601/602. Leachate indicators = TKN, Ammonia Nitrate, COD, BOD, TOC, sulfate, Alkalinity, phenols, chloride, hardness (CaCO3), color, Boron



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## CHAIN OF CUSTODY RECORD

Page 1 of 1

SHIP TO: Nytest Environmental Inc.  
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 (516) 625-5500  
 Attn: M. Brennan

REPORT TO: Client Name Dvirke and Bartolucci  
 Address 6800 Jericho Turnpike  
Syosset, NY 11791  
 Phone 516-364-9892  
 Attn: Robbie Petrella

Project No. <u>1027-B03</u>		Project Name <u>Synthold Landfill</u>		Date Shipped <u>7-26-91</u>	Carrier <u>Fedex</u>
Sampler (Signature) <u>[Signature]</u>		Analytical Protocol <u>NYSDEC ASP</u>		Air Bill No. <u>0037017223</u>	Cooler No. <u>2</u>
Sample I.D.	Date/Time Sampled	Sample Description	No. Of Containers	ANALYSIS REQUESTED	
<u>MW-SS-GW</u>	<u>7-25-91 18:30</u>	<u>water</u>	<u>9</u>	<u>TCL+30* and 601/602 and leachate indicators</u>	
<u>MW-SS-PC</u>	<u>7-26-91</u>				
<u>MW-SS-PC</u>	<u>7-26-91</u>				
<u>MW-SD-GW</u>	<u>7-25-91 18:35</u>	<u>water</u>	<u>8</u>	<u>TCL+30* and 601/602 and leachate indicators</u>	

Relinquished by (Signature) <u>[Signature]</u>	Date / Time <u>7-26 12:00</u>	Rec'd. By (Signature)	Date / Time
Print Name <u>Peter Conde</u>		Print Name	
Relinquished by (Signature)	Date / Time	Rec'd. by (Signature)	Date / Time
Print Name		Print Name	
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time
Print Name		Print Name	

Special Instructions/Comments \* Samples are to be analyzed for all TCL+30 parameters (VQA) (624)  
BWA, Pest/PCB, Metals and CW) plus VQAs are to analyzed by 8010/8020  
or 601/602. Leachate Indicators = TKN, Ammonia, Nitrate, COD, BOD, TOC  
Sulfate, Alkalinity, Phenols, Chlorides, hardness (CaCO3), Color, Boron



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## CHAIN OF CUSTODY RECORD

Page 1 of 1

SHIP TO: Nytest Environmental Inc.  
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 (516) 625-5500  
 Attn: M. Ke Brennan

REPORT TO: Client Name Duik & Bartolucci  
 Address 6800 Jericho Turnpike  
Syosset NY 11791  
 Phone \_\_\_\_\_  
 Attn. \_\_\_\_\_

Project No. <u>1027-BOS</u>		Project Name <u>Southold Land Fill</u>		Date Shipped <u>7-26-91</u>	Carrier <u>Fedex</u>
Sampler: (Signature) <u>[Signature]</u>		Analytical Protocol <u>NYSDEC ASP</u>		Air Bill No. <u>0037017223</u>	Cooler No. <u>1</u>
Sample I.D.	Date/Time Sampled	Sample Description	No. Of Containers	ANALYSIS REQUESTED	
<u>MW-6 D-GW</u>	<u>7-25 18:00</u>	<u>Water</u>	<u>9</u>	<u>TCL+30* and 601/602 and Leachate indicators</u>	
<u>FB-GW</u>	<u>7-25 16:30</u>	<u>Water</u>	<u>9</u>	<u>TCL+30* and 601/602 and Leachate indicators</u>	
<u>TB</u>	<u>- -</u>	<u>Water</u>	<u>3</u>	<u>Volatiles by 601/602+624</u>	

Relinquished By (Signature) <u>[Signature]</u>	Date / Time <u>7-25 12:00</u>	Rec'd. By (Signature)	Date / Time
Print Name <u>Peter Conde</u>		Print Name	
Relinquished by (Signature)	Date / Time	Rec'd. by (Signature)	Date / Time
Print Name		Print Name	
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time
Print Name		Print Name	

Special Instructions/Comments \* Samples are to be analyzed for all TCL+30 parameters (VOA, BVA, Pesticides/PCB's, Metals + CN) Plus VOA's are to be run by 8240 and 601/602. Leachate Indicators: TKN, Ammonia, Nitrate, COD, BOD, TOC, Sulphate, Alkalinity, phosols, chloride, Tot. (hardness CaCO3), Color, Boron



APPENDIX A-3

Daily Field Activity  
Reports

*Removed & Destroyed*  
*- 06 Solente*  
*Administrators*  
*Records*

*D. Jones*  
*22 Aug 2000*



APPENDIX B

DATA VALIDATION REPORT

B-1 - Data Validation Review Sheets

B-2 - Data Validation Summaries and Data User Advisory Tables

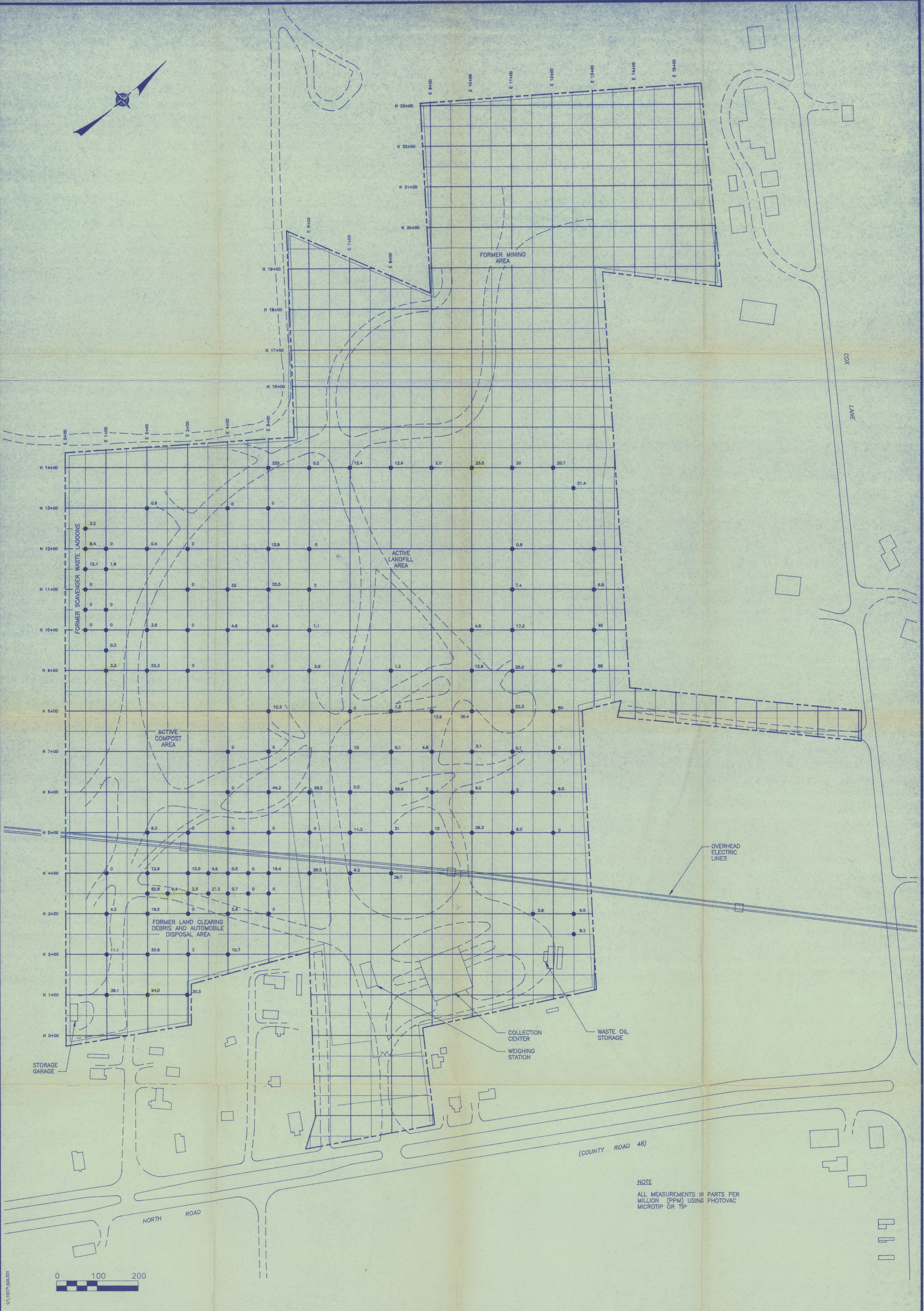
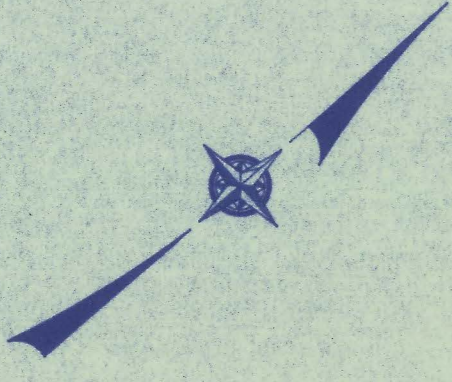
REMOVED TO TEMPORARY STORAGE



APPENDIX C

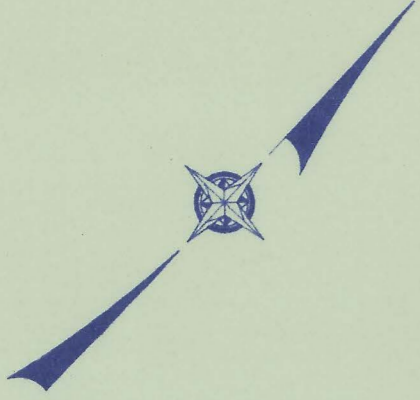
SOIL GAS SURVEY RESULTS





NOTE  
 ALL MEASUREMENTS IN PARTS PER  
 MILLION (PPM) USING PHOTOVAC  
 MICROTIP OR TIP





NOTE  
 ALL MEASUREMENTS IN PERCENT (%)  
 LOWER EXPLOSIVE LIMIT (LEL)  
 USING GASTECH 1939 METER

