

UST CLOSURE REPORT
FOR
RAVENNA ARSENAL, INC.
8451 STATE ROUTE 5
RAVENNA, OHIO 44266

B-23

Conducted By:

Nozzle New, Inc.

Date: December 18, 1991

Project: 1029-91

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1.0 INTRODUCTION

The Ravenna Arsenal, Inc., is located in Ravenna, Ohio on State Route 5. The arsenal is a military facility that receives fuel oil, kerosene and other fuels via truck and rail. Ravenna Arsenal, Inc., commissioned Nozzle New, Inc., to remove up to twenty two (22) suspected underground storage tanks (USTs) at this location. As shown by Table 1, these steel tanks were reportedly installed from 1941 to 1976 and abandoned from 1941 to 1989.

This report documents the removal of seventeen (17) USTs by Nozzle New, Inc. between June 4, 1991 and November 15, 1991. As shown by figure # 1, USTs were located at various powerhouses, fire stations, and fueling stations, located within the Ravenna Army Ammunition Plant confines. Tank contents included #5 heating oils, #2 fuel oil and gasoline. All site sampling was conducted by Nozzle New while all laboratory analysis was done by Environment One, Inc.

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<u>Tank No.</u>	<u>Yr. Installed</u>	<u>Yr. Abandoned</u>
RV20	1971	1989
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RV50	1976	1984
RV55	1941	1989
RV56	1941	1989
RV57	1941	1989
RV58	1941	1989
RV59	1941	1989
RV60	1941	1989
RV61	1941	1989
RV62	1941	1989
RV63	1941	1989
RV64	1941	1989
RV80	1941	1968
RV81	1941	1955
RV82	1941	1955
RV83	1941	1955
RV86	1941	1941
RV87	1941	1941
RV88	1941	1941
RV89	1941	1941

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RV63	1941	1989
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RV20	1969	1971 1989
RV21	1969	1971 1989
RV46	1941	1984 - No TANK FOUND '68'
RV50	1976	1984
RV55	1941	1989
RV56	1941	1989
RV57	1941	1989
RV58	1941	1989
RV59	1941	1989
RV60	1941	1989
RV61	1941	1989
RV62	1941	1989
RV63	1941	1989
RV64	1941	1989
RV80	1941	1989 1968
RV81	1941	1984 1955
RV82	1941	1984 1955
RV83	1941	1984 1955
RV86	1941	1984 - No TANK FOUND 1941
RV87	1941	1984 - No TANK FOUND 1941
RV88	1941	1984 - No TANK FOUND 1941
RV89	1941	1984 - No TANK FOUND 1941

2.0 UST REMOVALS

Table 2 summarizes dates on which Nozzle New removed seventeen (17) USTs from the Ravenna Arsenal. Table 2 also documents tank capacities and contents. Tank removal occurred between June 3, 1991 and November 15, 1991.

Prior to removing tanks, Nozzle New:

- Sampled tank contents for chemical analysis,
- Removed tank contents for proper disposal, and
- Purged the empty tanks with dry ice.

After removing tanks, Nozzle New:

- Sampled soil at each end of each removed UST,
- Placed visqueen over and under spoils piles,
- Sampled water encountered in any cavity, and
- Returned surface to grade using material supplied from other sections of the Arsenal property.

When appropriate, Nozzle New used a Foxboro OVA to conduct field screening of soil samples prior to sending the soil samples with the highest field reading to Environment One for analysis.

Extensive excavation (20' by 20' grid search) conducted June 3rd and 6th, 1991 located no USTs existed at potential UST sites RV46, RV86, RV87, RV88 and RV89.

As shown in Appendix C, spoils (1457.4 tons) were disposed of at A&B Refuse Disposal, Inc. on August 15 & 16, 1991; October 16, 17, & 18, 1991, and November 18, 19, & 20, 1991.

TABLE 2 - USTS REMOVED AT RAVENNA ARSENAL

<u>TANK #</u>	<u>1991 DATE REMOVED</u>	<u>LOCATION</u>	<u>STEEL TANK CONTENTS/SIZE (gal)</u>
* RV81	6/4	Bldg. 1047	gasoline/1000
* RV82	6/4	Bldg. 1047	gasoline/1500
* RV83	6/4	Bldg. 1047	gasoline/1500
RV50	6/5	WW4	# 2 fuel oil/1000
RV20	6/7	DB-27, LL2	# 2 fuel oil/15000
RV21	6/7	DB-27, LL2	# 2 fuel oil/15000
RV57	6/10	Powerhouse 2, LL2	# 5 heating oil/15000
RV58	6/10	Powerhouse 2, LL2	# 5 heating oil/15000
RV63	6/12	Powerhouse 7, LL4	# 5 heating oil/15000
RV64	6/12	Powerhouse 7, LL4	# 5 heating oil/20000
RV59	6/17	Powerhouse 4, Near LL5	# 5 heating oil/20000
RV60	6/17	Powerhouse 4, Near LL5	# 5 heating oil/20000
RV55	10/17	Powerhouse 1, LL1	# 5 heating oil/20000
RV56	10/17	Powerhouse 1, LL1	# 5 heating oil/20000
RV62	10/22	Powerhouse 5, Near LL10	# 5 heating oil/20000
RV61	10/22	Powerhouse 5, Near LL10	# 5 heating oil/20000
RV80	11/15	George Rd. Gas St.	# 2 gasoline/12000

- No tank found at RV46, RV86, RV87, RV88, RV89 after extensive 20' X 20' grid search.

* RV81, 82, and 83 were originally believed to have been 10,000 gallon tanks but actual sizes are shown above.

3.0 SAMPLING AND ANALYSIS METHODS

All site sampling was done by Philip Marek of Nozzle New, Inc. Soil was sampled underneath each end of removed USTs using decontaminated steel trowels. Each sample was placed into a labeled glass container, capped and placed in a chilled cooler. Samples were then transferred, under chain-of-custody (See Appendix A) to the laboratory of Environment One, Inc., at 7777 Wall Street, Valley View, Ohio 44125.

Samples were analyzed for the parameters listed below using the analytical methods listed.

<u>PARAMETER</u>	<u>TEST METHOD</u>	<u>EPA DOCUMENT</u>
Total Petroleum Hydrocarbon (TPH)	418.1 (a)	600/4-79-020
Total Petroleum Hydrocarbon (TPH)	9071 (b)	SW-846
Benzene, Ethylbenzene, Toluene, Xylene (BTEX)	8020	SW-846
Total Lead (Pb) Preparation	3050	SW-846
Analysis	6020	SW-846
Total Chromium (Cr) Preparation	3050	SW-846
Analysis	6020	SW-846
TCLP Metals	1311	40 CFR Part 261 Appendix II
Flash Point	1010	SW-846

- a - For liquid samples use 418.1 protocols for extraction, clean-up and analysis.
- b - For soil samples used 9071 protocols for extraction, then use 418.1 for clean up and analysis.

Liquid samples were obtained using disposable glass coliwasa tubes.

4.0 SAMPLING AND ANALYSIS RESULTS (See Appendix B)

Nozzle New sampled tank contents, soils, spoils, and cavity water during work at the Ravenna Arsenal. Sample locations are shown on Figures 2-10.

4.1 Tank Content Testing

In order to insure proper disposal of tank contents Nozzle New sampled oil layers, water layers, sludges and solids found in the seventeen (17) removed tanks. These analysis can respectively be found in Appendices B2, B3, and B4.

4.2 Soil Testing

Results of soil sampled from tank cavities is given below:

CLIENT SAMPLE I.D.	EOI SAMPLE I.D.	TPH (ppm)	BENZENE (ppb)	TOLUENE (ppb)	ETHYLBENZENE (ppb)	XYLENE (ppb)	Pb(T) (ppm)	Cr(T) (ppm)
Tank 81 #1	G9105-1	<10	<2	<2	<2	<2	5.40	6.67
Tank 81 #2	G9105-2	10	<2	<2	<2	<2	4.92	6.83
Tank 82 #1	G9105-3	25	<2	<2	<2	<2	4.37	6.57
Tank 82 #2	G9105-4	12	<2	<2	<2	<2	4.56	6.95
Tank 83 #1	G9105-5	10	<2	<2	<2	<2	4.77	7.04
Tank 83 #2	G9105-6	15	<2	<2	<2	<2	5.33	7.25
Product Line Island	G9105-7	15	<2	<2	<2	<2	6.33	11.00
Sample 1 Tank #50	G9110-9	18	<2	<2	<2	<2	3.85	3.90
Sample 2 Tank #50	G9110-10	12	<2	<2	<2	<2	4.43	3.37
Sample 1 Tank #20	G9110-11	10	<2	<2	<2	<2	9.76	15.7

CLIENT SAMPLE I.D.	EOI SAMPLE I.D.	TPH (ppm)	BENZENE (ppb)	TOLUENE (ppb)	ETHYLBENZENE (ppb)	XYLENE (ppb)	Pb (T) (ppm)	Cr (T) (ppm)
Sample 2 Tank #20	G9110-12	12	<2	<2	<2	<2	10.1	15.4
Sample 1 Tank #21	G9110-13	10	<2	<2	<2	<2	8.64	14.6
Sample 2 Tank #21	G9110-14	<10	<2	<2	<2	<2	9.34	16.5
Sample 1 Tank #57	G9112-1	15	<2	<2	<2	<2	7.05	12.2
Sample 2 Tank #57	G9112-2	15	<2	<2	<2	<2	7.58	14.1
Sample 1 Tank #58	G9112-3	15	<2	<2	<2	<2	15.8	10.6
Sample 2 Tank #58	G9112-4	13	<2	<2	<2	<2	6.63	13.2
Sample 1 Tank #63	G9113-32	10	<2	<2	<2	<2	8.24	6.60
Sample 2 Tank #63	G9113-33	12	<2	<2	<2	<2	7.85	6.75
Sample 1 Tank #64	G9113-34	10	<2	<2	<2	<2	6.90	6.48
Sample 2 Tank #64	G9113-35	12	<2	<2	<2	<2	6.18	6.10
Sample 1 Tank #59	G9119-4	<10	<2	<2	<2	<2	10.5	6.23
Sample 2 Tank #59	G9119-5	<10	<2	<2	<2	<2	11.6	6.13
Sample 1 Tank #60	G9119-6	<10	<2	<2	<2	<2	10.5	6.15
Sample 2 Tank #60	G9119-7	<10	<2	<2	<2	<2	12.1	6.69
Sample 1 Tank #55	L9123-6	13	<2	<2	<2	<2	10.3	1.71

CLIENT SAMPLE I.D.	EOI SAMPLE I.D.	TPH (ppm)	BENZENE (ppb)	TOLUENE (ppb)	ETHYLBENZENE (ppb)	XYLENE (ppb)	Pb (T) (ppm)	Cr (T) (ppm)
Sample 2 Tank #55	L9123-7	10	<2	<2	<2	<2	10.1	2.07
Sample 1 Tank #56	L9123-8	10	<2	<2	<2	<2	11.7	1.95
Sample 2 Tank #56	L9123-9	14	<2	<2	<2	<2	11.7	1.94
Sample 1 Tank #62	L9123-10	13	<2	<2	<2	<2	10.6	3.35
Sample 2 Tank #62	L9123-11	<10	<2	<2	<2	<2	12.5	3.96
Sample 1 Tank #61	L9130-5	14	<2	<2	<2	<2	9.04	2.27
Sample 2 Tank #61	L9130-6	<10	<2	<2	<2	<2	9.63	2.09
Tank #80 Sample #1	N9102-18	42	<2	<2	<2	<2	24.8	3.80
Tank #80 Sample #2	N9102-19	23	<2	<2	<2	<2	19.2	5.00
Background Sample Section A	M9119-14	32	<2	<2	<2	<2	9.51	2.89
Background Sample Section B	M9119-15	50	<2	<2	<2	<2	18.7	3.06

Spoil pile analysis (G9105-8) showed elevated TPH (140ppm) and BTEX (1340/710/1010/850 ppb) levels. Analysis of spoils is given in Appendix B5. Water analysis tied to water in cavities is given in Appendix B6.

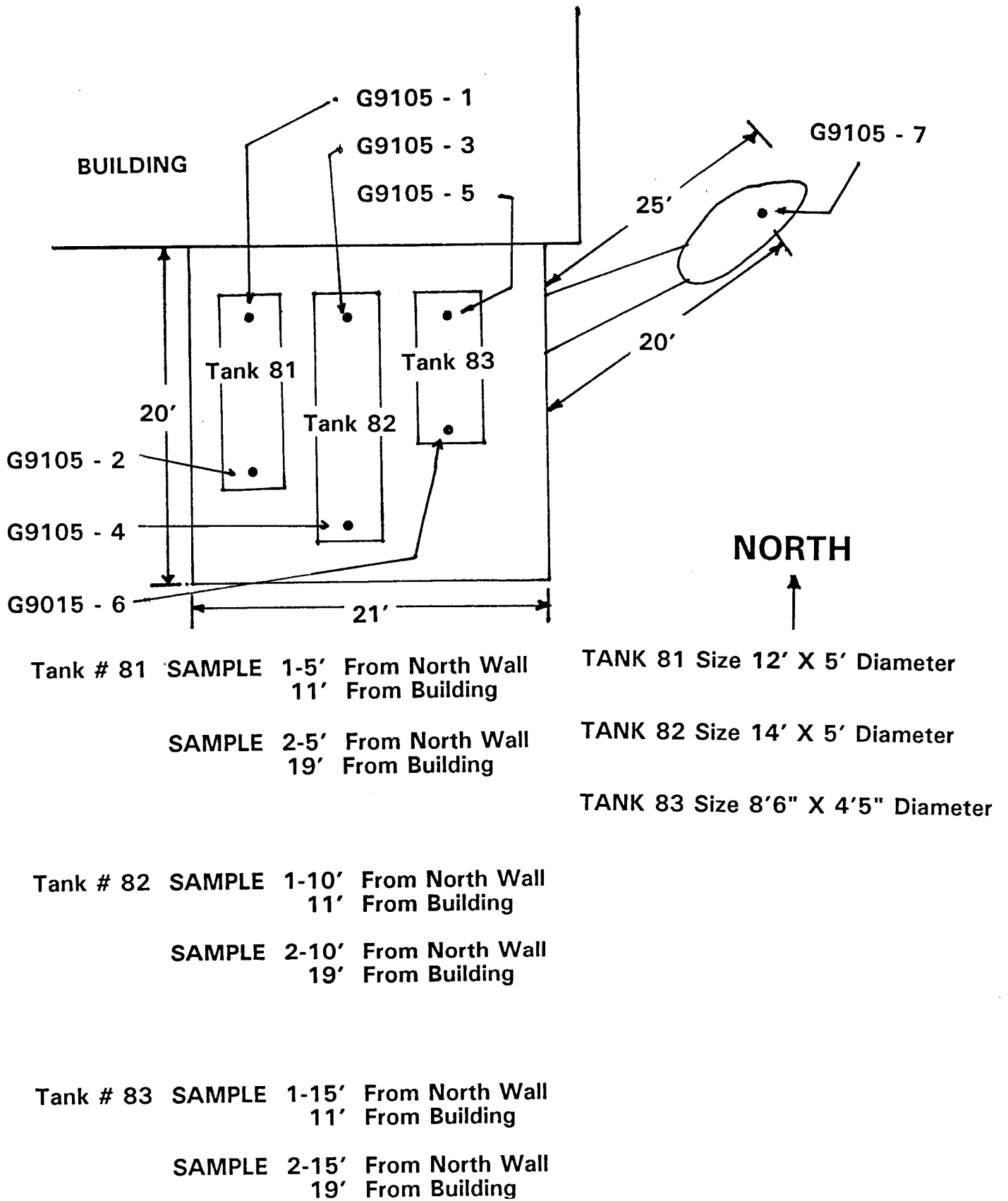


FIGURE 2 - SITE MAP & SAMPLING LOCATIONS

Tanks 81, 82 83

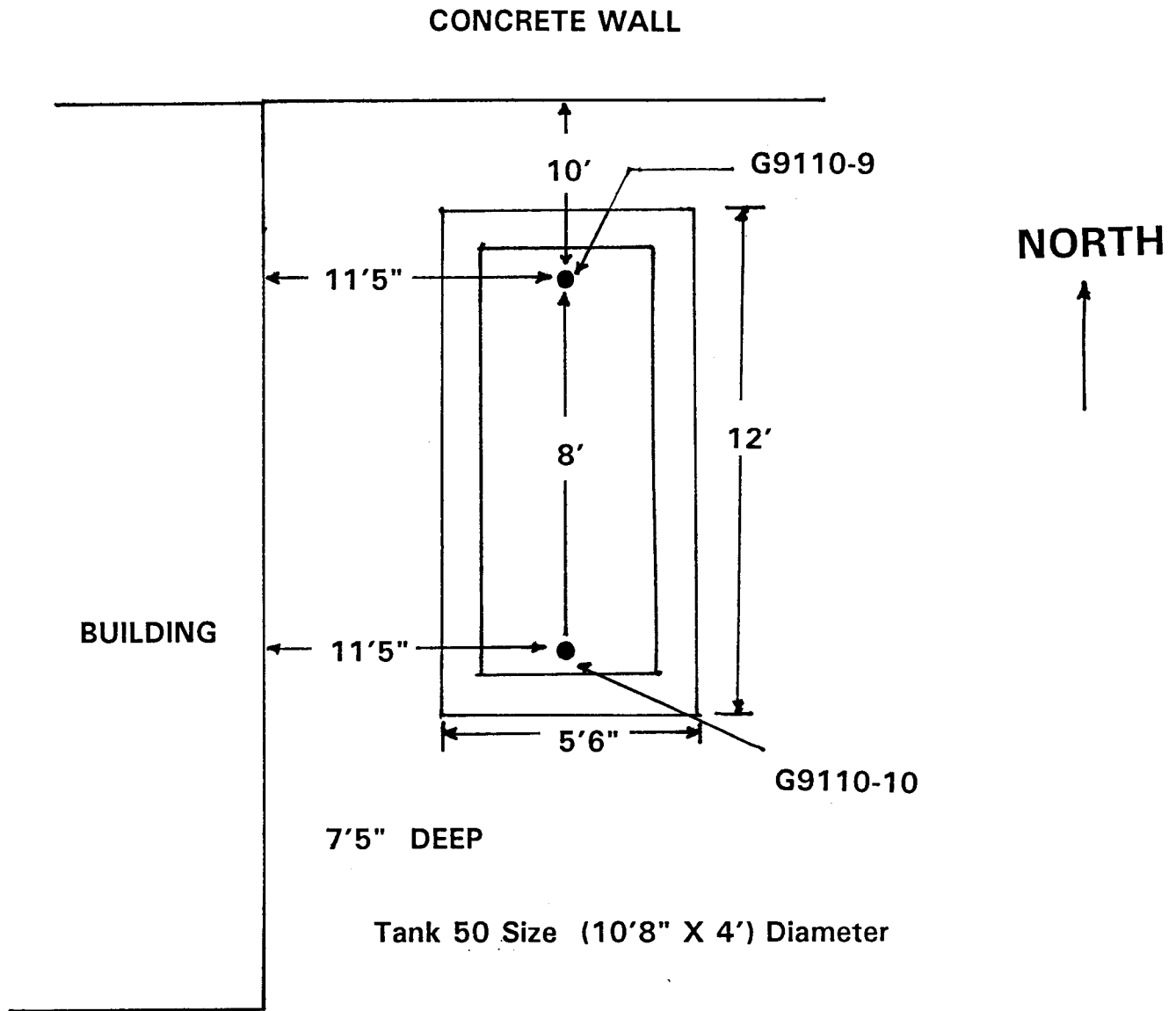


FIGURE 3 - SITE MAP & SAMPLING LOCATION

TANK 50

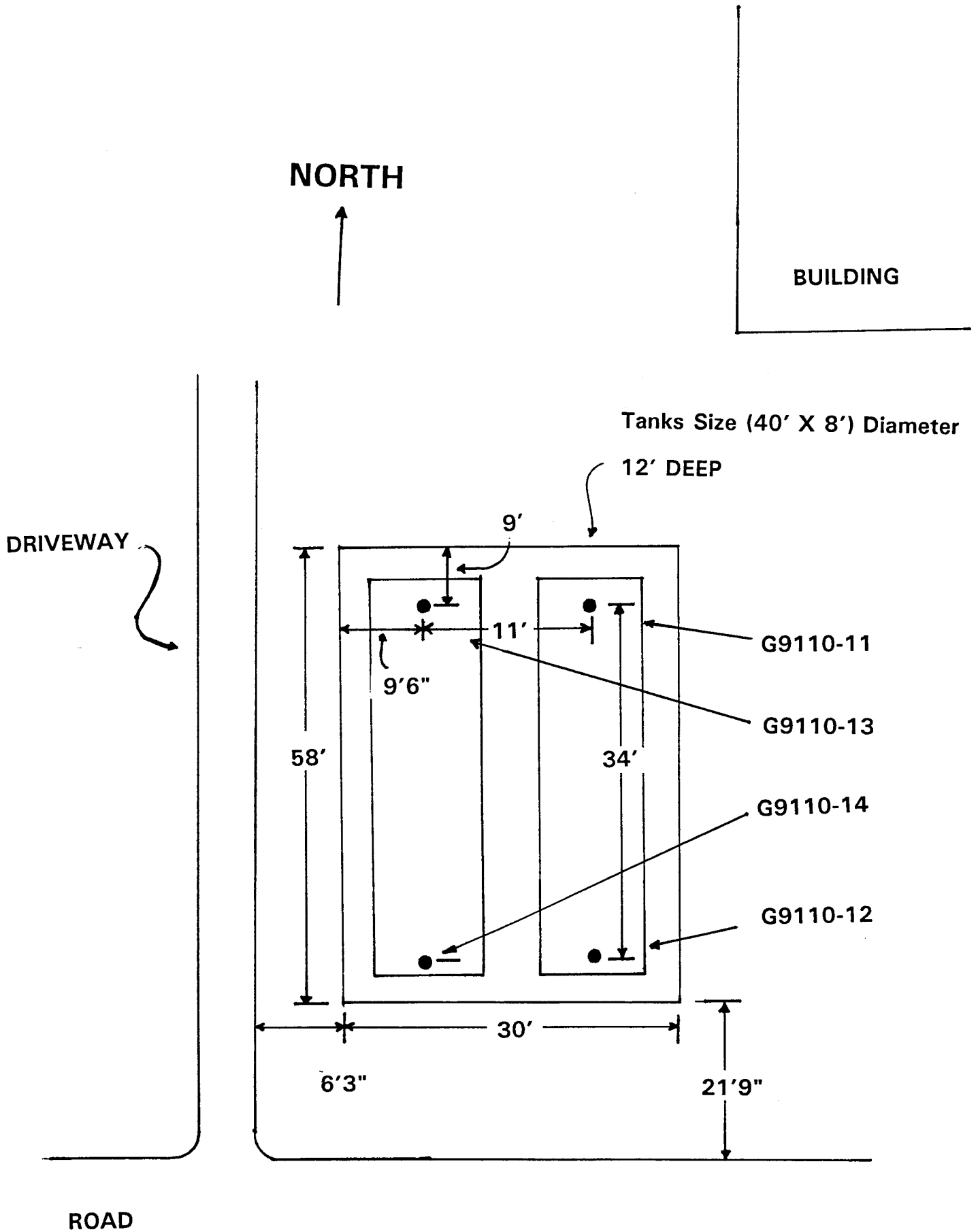


FIGURE 4 - SITE MAP & SAMPLING LOCATIONS

TANKS 20 & 21

NORTH →

TANK SIZE (21' X 10'8") DIAMETER

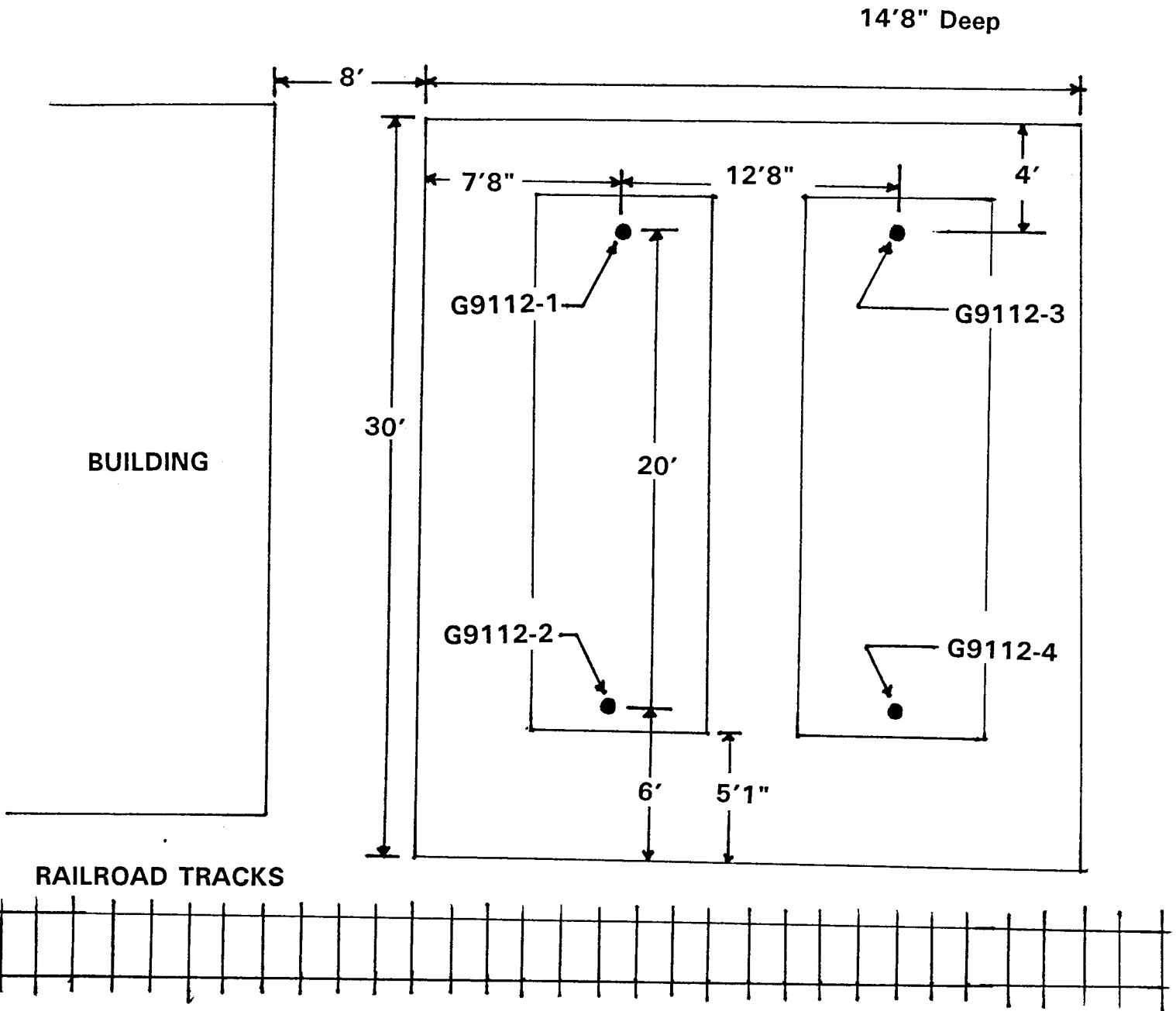


FIGURE 5 - SITE MAP & SAMPLING LOCATIONS

TANKS 57 & 58

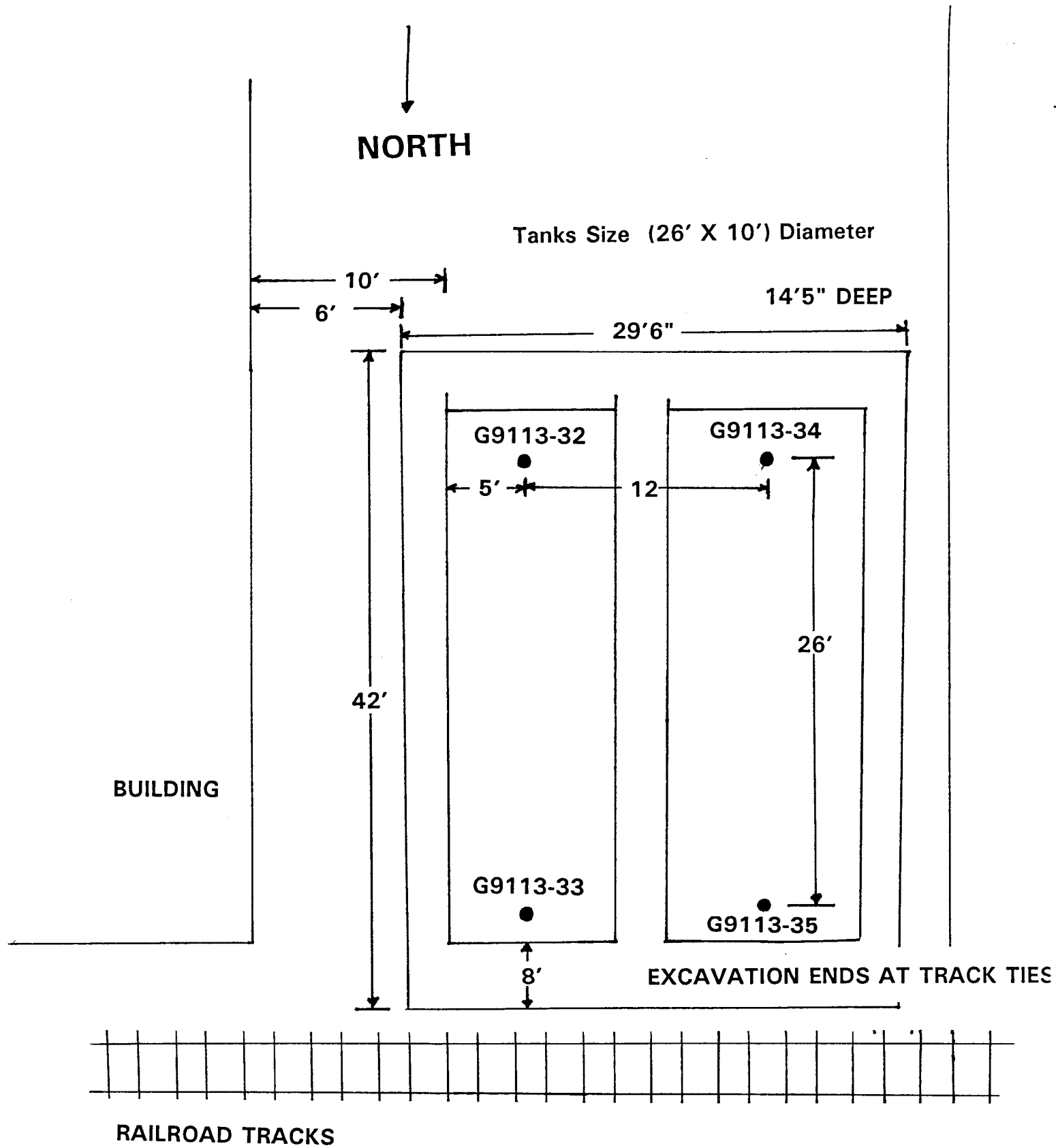


FIGURE 6 - SITE MAP & SAMPLING LOCATIONS

TANKS 63 & 64

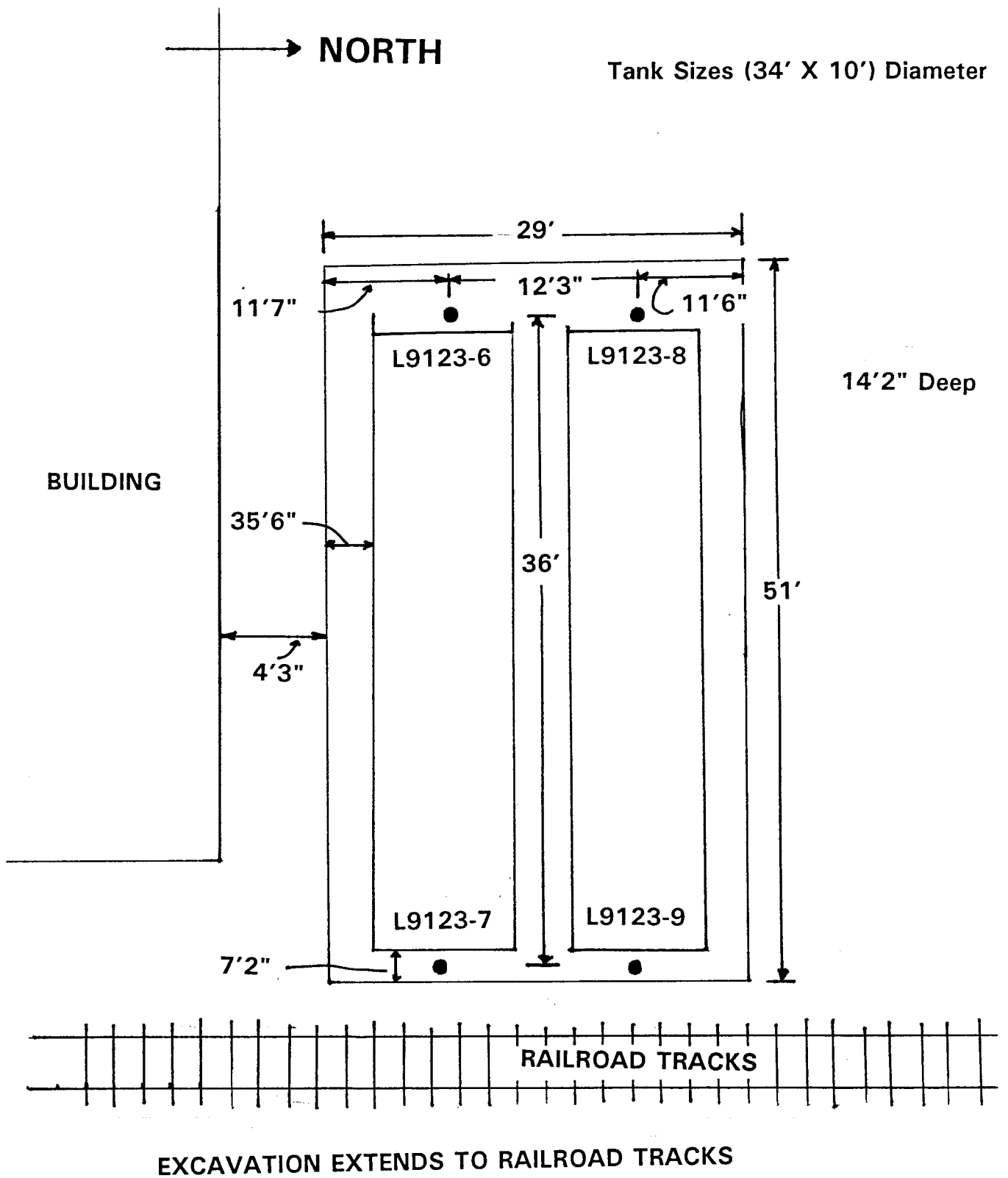


FIGURE 8 - SITE MAP & SAMPLING LOCATIONS

TANKS 55 & 56

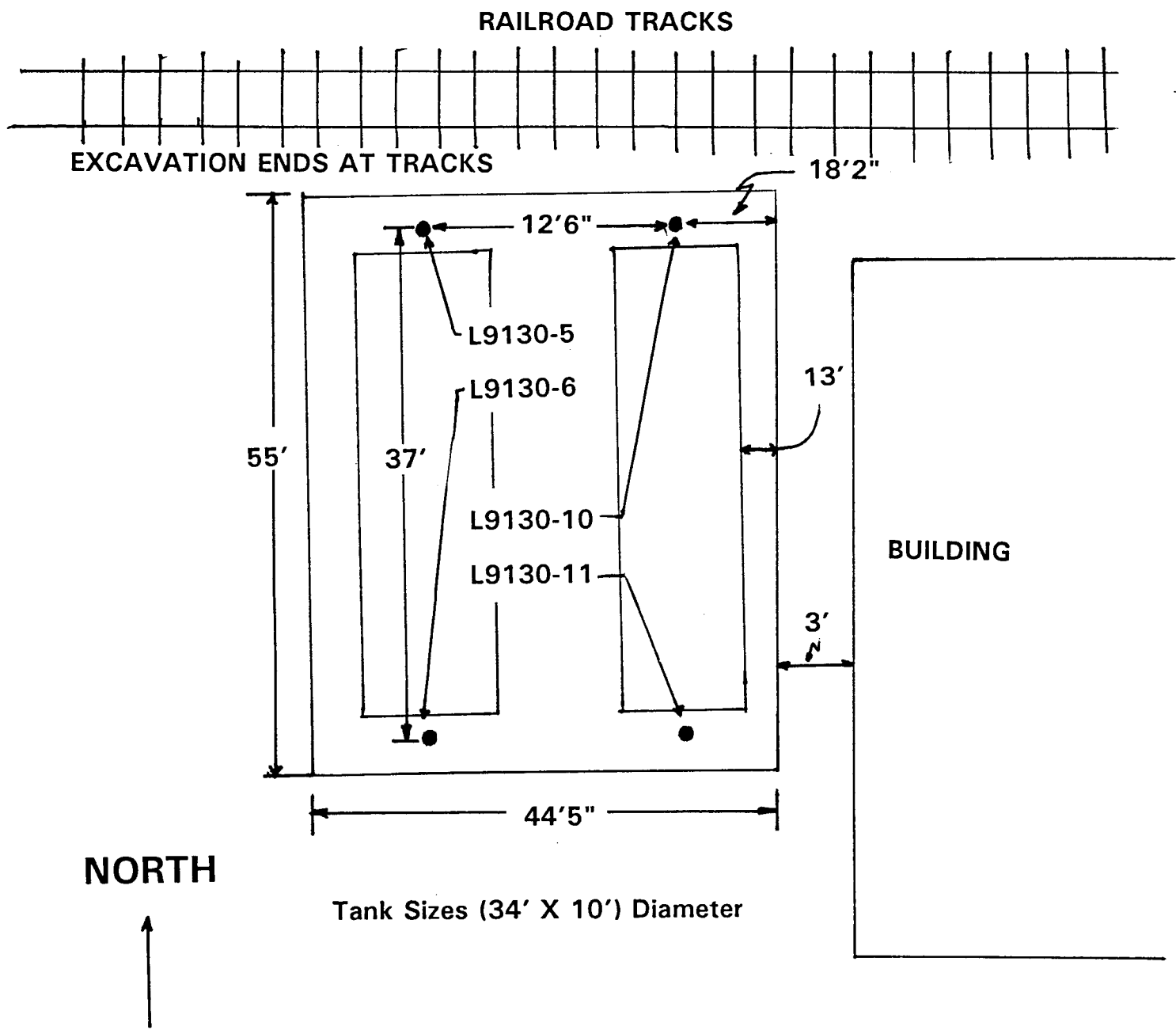


FIGURE 9 - SITE MAP & SAMPLING LOCATIONS

TANKS 61 & 62

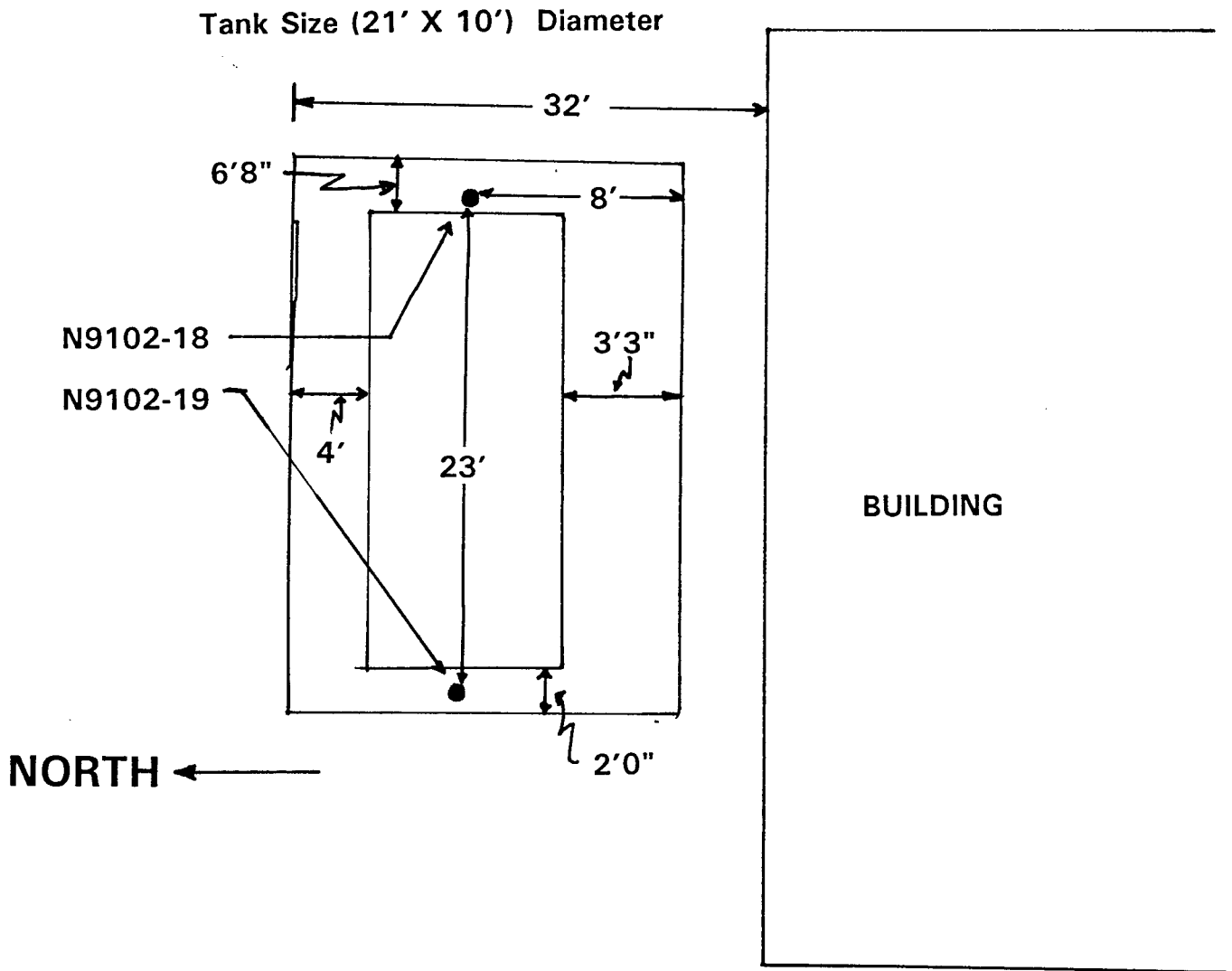


FIGURE 10 - SITE MAP & SAMPLING LOCATION

TANK 80

5.0 CONCLUSIONS

- All soils tested have Total Chromium (Cr) levels below the Regulatory Action Level (Farm Soils) of 20 ppm.
- All soils tested have Total Lead (Pb) levels below the Regulatory Action Level (farm soils) of 29 ppm.
- The Following soils samples had TPH values above 40 ppm, but below 105 ppm.

Tank # 80, Sample 1 - 42 ppm

Background Sample, Section B - 50 ppm

- All soil samples had BTEX values under 2 ppb.

APPENDIX A

CHAIN OF CUSTODY FORMS

CHAIN OF CUSTODY RECORD

CUSTOMER Nozzle New, Inc	CONTACT Phil Marek
ADDRESS 34412 Pettibone Rd	PHONE NUMBER 248-5552
CITY, STATE, ZIP Solon OH 44139	TITLE Vice President
SAMPLE I.D. Tanks 81, 82, 83	SAMPLED BY <i>Phil Marek @ Nozzle New</i>
LOCATION/GENERATOR Reanna Arsenal UST Removal	DATE AND TIME OF SAMPLING 6/4/91 2:00
SAMPLE DESCRIPTION Brn Soil	
TYPE OF SAMPLE COMPOSITE <input checked="" type="radio"/> GRAB AIR OTHER	NUMBER OF CONTAINERS 8

FIELD CUSTODY

RELINQUISHED BY	SIGNATURE	RECEIVED BY	DATE	TIME
	<i>Phil Marek</i>	<i>D.K.P.</i>	6/5/91	9:00
RELINQUISHED BY		RECEIVED BY	DATE	TIME

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED			
		TPH	BTEX	Total Ph	Total Cr
1. Tank- 81 #1					
2. " " #2					
3. Tank 82 #1					
4. " " #2					
5. Tank 83 #1					
6. " " #2					
7. Product Line Island					
8. Spoil Pile Tank # 81, 82, 83		Flash Point, TPH, BTEX, TCLP Metals			
9. _____					
10. _____					

CHAIN OF CUSTODY RECORD

CUSTOMER	Nozzle New, Inc	CONTACT	Phil Marek
ADDRESS	34412 Pettibone Rd	PHONE NUMBER	248-5552
CITY, STATE, ZIP	Solon OH 44139	TITLE	Vice-President
SAMPLE I.D.	Tanks 81, 82, 83	SAMPLED BY	Phil Marek
LOCATION/GENERATOR	Paranna Arsenal UST Removal	DATE AND TIME OF SAMPLING	6/4/91 2:00 P.M.
SAMPLE DESCRIPTION	Brn Soil		
TYPE OF SAMPLE	COMPOSITE <u>GRAB</u> AIR OTHER	NUMBER OF CONTAINERS	8

FIELD CUSTODY

RELINQUISHED BY	<i>Phil Marek</i>	SIGNATURE	RECEIVED BY	<i>[Signature]</i>	SIGNATURE	DATE	TIME
RELINQUISHED BY			RECEIVED BY			6/5/91	9:00

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED			
		TPH	BTEX	Total Pb	Total Cr
1. Tank- 81 #1					
2. " " #2					
3. Tank 82 #1					
4. " " #2					
5. Tank 83 #1					
6. " " #2					
7. Product Line Island					
8. Spoil Pile Tank # 81, 82, 83		Flash Point, TPH, BTEX, TCLP Metals			
9.					
10.					

ENVIRONMENT ONE, INC.
 7777 WALL STREET
 VALLEY VIEW, OHIO 44125
 (216) 524-0888

CHAIN OF CUSTODY RECORD

CUSTOMER Nozzle New	CONTACT Vince or Phil Marek
ADDRESS 34412 Pettibone Rd.	PHONE NUMBER 216-248-5552
CITY, STATE, ZIP Solon OH 44139	TITLE Vice President
SAMPLE I.D. See Below	SAMPLED BY Phil Marek
LOCATION/GENERATOR Ravenna Arsenal	DATE AND TIME OF SAMPLING 6/5/91 5:00 <u>P.M.</u>
SAMPLE DESCRIPTION Brown Soils	
TYPE OF SAMPLE COMPOSITE GRAB AIR <u>OTHER</u> STORED IN cooler	NUMBER OF CONTAINERS 2

FIELD CUSTODY

RELINQUISHED BY <i>Phil Marek</i>	SIGNATURE	RECEIVED BY <i>Joe OB</i>	SIGNATURE	DATE 6/6/91	TIME 7 AM
RELINQUISHED BY		RECEIVED BY		DATE	TIME

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED
1. Sample #1	TANK #50	TPH BTEX PCB(T) AND CR(TOTAL) <small>METHOD 7420 U.S.EPA METHOD 7190</small>
2.		
3. Sample #2		EAWE
4. TANK #50		
5.		
6.		
7.		
8.		
9.		
10.		

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CUSTOMER Nozzle New	CONTACT Vince or Phil Marek
ADDRESS 34412 Pettibone Rd.	PHONE NUMBER 216-248-5552
CITY, STATE, ZIP Solon OH 44139	TITLE Vice President
SAMPLE I.D. See Below	SAMPLED BY Phil Marek
LOCATION/GENERATOR Ravenna Arsenal	DATE AND TIME OF SAMPLING 6/6/91 1:45 A.M. 3:45 P.M.
SAMPLE DESCRIPTION Brown Soils WATER	
TYPE OF SAMPLE COMPOSITE GRAB AIR <u>OTHER</u>	NUMBER OF CONTAINERS 5
Stored in cooler	

FIELD CUSTODY

RELINQUISHED BY <i>Phil Marek</i>	SIGNATURE	RECEIVED BY <i>[Signature]</i>	SIGNATURE	DATE 6-7-91	TIME 8:00AM
RELINQUISHED BY		RECEIVED BY		DATE	TIME

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED
1. SAND IN TANK # 80		TPH BTEX FLASH POINT TCLP metals & ORGANICS Vols
2.		
3. WATER IN TANK # 80		TPH BTEX; Flash Point TCLP Metals & Organics Vols
4.		
5.		
6. Sample From SGA1 Pails #1 - Orange		TCLP Metals - Vols, F.P.
7.		
8. Sample From SGA1 Pails #2 - Tan		TCLP Metals - Vols, F.P.
9.		
10.		

ENVIRONMENT ONE, INC.
 7777 WALL STREET
 VALLEY VIEW, OHIO 44125
 (216) 524-0888

CHAIN OF CUSTODY RECORD

CUSTOMER	CONTACT	
Nozzle New	Vince or Phil Marek	
ADDRESS	PHONE NUMBER	
34412 Pettibone Rd.	216-248-5552	
CITY, STATE, ZIP	TITLE	
Solon OH 44139	Vice President	
SAMPLE I.D.	SAMPLED BY	
See Below	Phil Marek	
LOCATION/GENERATOR	DATE AND TIME	
Ravenna Arsenal	6/7/91 4:45 ^{A.M.} P.M.	
SAMPLE DESCRIPTION		
Brown Soils		
TYPE OF SAMPLE	NUMBER OF CONTAINERS	
COMPOSITE GRAB AIR <u>OTHER</u> STORED IN cooler	5	

FIELD CUSTODY

SIGNATURE	SIGNATURE	DATE	TIME
RELINQUISHED BY <i>Phil Marek</i>	RECEIVED BY <i>Jae OB</i>	6-10-91	7 AM
RELINQUISHED BY	RECEIVED BY	DATE	TIME

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED
1. Sample #1 TANK		TPH, BTEX, PCB, CRCT
2. #20		
3. Sample #2 TANK		
4. #20		
5. Sample #1 TANK		
6. #21		
7. Sample #2 TANK		
8. #22		
9. GROUND WATER Sample		
10. TANK #20 & 24 EXHAUSTION		

CHAIN OF CUSTODY RECORD

CUSTOMER Nozzle New	CONTACT Vince or Phil Marek
ADDRESS 34412 Pettibone Rd.	PHONE NUMBER 216-248-5552
CITY, STATE, ZIP Solo Oh 44139	TITLE Vice President
SAMPLE I.D.	SAMPLED BY Phil Marek
LOCATION/GENERATOR Ravenna Arsenal	DATE AND TIME OF SAMPLING 6/10/91 6:00 A.M. (P.M.)
SAMPLE DESCRIPTION Brown Soils	
TYPE OF SAMPLE COMPOSITE GRAB AIR <u>OTHER</u>	NUMBER OF CONTAINERS 4
STORED IN COOLER	

FIELD CUSTODY

SIGNATURE	SIGNATURE	DATE	TIME
RELINQUISHED BY <i>Phil Marek</i>	RECEIVED BY <i>M. Pazzano</i>	6/12/91	8:00 AM
RELINQUISHED BY	RECEIVED BY	DATE	TIME

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED
1. Sample #1 TANK #57		TP4, BTEX, Total Pb & Cr.
2.		
3. Sample #2 TANK #57		
4.		
5. Sample #1 TANK #58		
6.		
7. Sample #2 TANK #58		
8.		
9.		
10.		

CHAIN OF CUSTODY RECORD

CUSTOMER Nozzle New	CONTACT Vince or Phil Marek
ADDRESS 34412 Pettibone Rd.	PHONE NUMBER 216-248-5552
CITY, STATE, ZIP Solon OH 44139	TITLE Vice President
SAMPLE I.D.	SAMPLED BY Phil Marek
LOCATION/GENERATOR Ravenna Arsenal	DATE AND TIME OF SAMPLING 6/12/91 9:30 <u>P.M.</u>
SAMPLE DESCRIPTION Brown Soils	NUMBER OF CONTAINERS 4
TYPE OF SAMPLE COMPOSITE GRAB AIR OTHER	STORED IN COOLER

FIELD CUSTODY

RELINQUISHED BY <i>Phil Marek</i>	SIGNATURE	RECEIVED BY <i>JOB</i>	SIGNATURE	DATE 6-13-91	TIME 8:30 AM
RELINQUISHED BY		RECEIVED BY		DATE	TIME

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED
1. Sample # 1		TPH, BTEX, CRTI, PBT
2. TANK # 63		
3. Sample # 2		
4. TANK # 63		
5. Sample # 1		
6. TANK # 69		
7. Sample # 2		
8. TANK # 69		
9.		
10.		

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CHAIN OF CUSTODY RECORD

CUSTOMER Nozzle New	CONTACT Vince or Phil Marek
ADDRESS 34412 Pettibone Rd.	PHONE NUMBER 216-248-5552
CITY, STATE, ZIP Solon OH 44139	TITLE VICE PRESIDENT
SAMPLE I.D.	SAMPLED BY Phil MAREK
LOCATION/GENERATOR Ravenna Arsenal	DATE AND TIME 6/14/91 3:30 <u>P.M.</u>
SAMPLE DESCRIPTION Brown Soils	
TYPE OF SAMPLE COMPOSITE GRAB AIR <u>OTHER</u>	NUMBER OF CONTAINERS STORED IN COOLERS

FIELD CUSTODY

RELINQUISHED BY <i>Phil Marek</i>	SIGNATURE	RECEIVED BY <i>[Signature]</i>	SIGNATURE	DATE 6-18-91	TIME noon
RELINQUISHED BY		RECEIVED BY		DATE	TIME

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED
1. WATER IN TANK		TPH, BTEX, TC.P., TC.LP (METALS & VOL'S)
2. H ₂ O	3 JARS	
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

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CHAIN OF CUSTODY RECORD

CUSTOMER Nozzle New	CONTACT Vince or Phil Marek
ADDRESS 34412 Pettibone Rd.	PHONE NUMBER 216-248-5552
CITY, STATE, ZIP Solon OH 44139	TITLE Vice President
SAMPLE I.D.	SAMPLED BY Philip Marek
LOCATION/GENERATOR Ravenna Arsenal	DATE AND TIME 6/17/91 9:00
SAMPLE DESCRIPTION Brown Soils	OF SAMPLING P.M.
TYPE OF SAMPLE COMPOSITE GRAB AIR OTHER	NUMBER OF CONTAINERS 7
Stored in Cooler	

FIELD CUSTODY

RELINQUISHED BY	SIGNATURE	RECEIVED BY	SIGNATURE	DATE	TIME
RELINQUISHED BY	<i>Philip Marek</i>	RECEIVED BY	<i>J.C.B.</i>	6-18-91	NOON
RELINQUISHED BY		RECEIVED BY		DATE	TIME

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED
1. Sample #1		TPH, BTEX, PCBs, CRCT
2. Tank # 59		
3. Sample #2 Tank # 59		
4. Sample #1 Tank # 60		
5. Sample #2 Tank # 60		
6. Ground Water Sample		TCM
7. 3 - Containers		Phil Marek will
8. Tanks # 59 & 60		call with req'd.
9.		Analysis has AFTER-
10.		NOON. TCE

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VALLEY VIEW, OHIO 44125
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CHAIN OF CUSTODY RECORD

CUSTOMER	CONTACT
Nozzle New	Vince or Phil Marek
ADDRESS	PHONE NUMBER
34412 Pettibone Rd.	216-248-5552
CITY, STATE, ZIP	TITLE
Solon Ohio 44139	Vice President
SAMPLE I.D.	SAMPLED BY
	Philip Marek
LOCATION/GENERATOR	DATE AND TIME
Ravenna Arsenal	OF SAMPLING 10/17/91 4:00 A.M.
SAMPLE DESCRIPTION	5:00 P.M.
Brown Soils	
TYPE OF SAMPLE	NUMBER OF
COMPOSITE GRAB AIR OTHER	CONTAINERS
OTHER STORED IN COOLER	4

FIELD CUSTODY

RELINQUISHED BY	SIGNATURE	RECEIVED BY	SIGNATURE	DATE	TIME
Phil Marek		JR [Signature]		10-18-91	8:00A
RELINQUISHED BY		RECEIVED BY		DATE	TIME

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED
1. Sample # 1 TANK # 55		
2.		
3. Sample # 2 TANK # 55		
4.		
5. Sample # 1 TANK # 56		
6.		
7. Sample # 2 TANK # 56		
8.		
9.		
10.		

CHAIN OF CUSTODY RECORD

CUSTOMER	CONTACT
Nozzle New	Vince or Phil Marek
ADDRESS	PHONE NUMBER
34412 Pettibone Rd.	216-248-5552
CITY, STATE, ZIP	TITLE
Solon, Ohio 44139	Vice President
SAMPLE I.D.	SAMPLED BY
	Phil Marek
LOCATION/GENERATOR	DATE AND TIME
Ravenna Arsenal	10/22/91 2:30 A.M.
SAMPLE DESCRIPTION	OF SAMPLING
Brown Soils	(P.M.)
TYPE OF SAMPLE	NUMBER OF
COMPOSITE GRAB AIR OTHER	CONTAINERS
OTHER	2
STORED IN COOLER	

FIELD CUSTODY

RELINQUISHED BY	SIGNATURE	RECEIVED BY	SIGNATURE	DATE	TIME
Phil Marek		Jae OB		10-22-91	7:00 PM
RELINQUISHED BY		RECEIVED BY		DATE	TIME

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED
1. Sample #1		
TANK #62		
2.		
3. Sample #2		
TANK #62		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

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CHAIN OF CUSTODY RECORD

CUSTOMER	CONTACT
Nozzle New	Vince or Phil Marek
ADDRESS	PHONE NUMBER
34412 Pettibone Rd.	216-248-5552
CITY, STATE, ZIP	TITLE
Solon OH 44139	Vice President
SAMPLE I.D.	SAMPLED BY
	Phil Marek
LOCATION/GENERATOR	DATE AND TIME
Ravenna Arsenal	OF SAMPLING 10/23/91 2:00
SAMPLE DESCRIPTION	A.M. / P.M.
Brown Soils & WATER	P.M.
TYPE OF SAMPLE	NUMBER OF CONTAINERS
COMPOSITE GRAB AIR <u>OTHER</u> STORED IN COOLER	3

FIELD CUSTODY

RELINQUISHED BY	SIGNATURE	RECEIVED BY	SIGNATURE	DATE	TIME
Phil Marek		Joe GBS		10-24-91	3:00 AM
RELINQUISHED BY	SIGNATURE	RECEIVED BY	SIGNATURE	DATE	TIME
Joe GBS		M. DePozzo		10/24/91	9:00 AM

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED
1. Sample # 4 TANK # 61		TPH, BTEX, Pb(Cd), Cr(Cr)
2.		
3. Sample # 2 TANK # 61		TPH, BTEX, Pb(Cd), Cr(Cr)
4.		
5.		
6. WATER Sample EXCAVATION TANK # 61462		-TPH, FI PF

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CHAIN OF CUSTODY RECORD

CUSTOMER Nozzle New	CONTACT Vince or Phil Marek
ADDRESS 34412 Pettibone Rd.	PHONE NUMBER 216-248-5552
CITY, STATE, ZIP Salon Ohio 44139	TITLE Vice President
SAMPLE I.D.	SAMPLED BY Phil C. Marek
LOCATION/GENERATOR Ravenna Arsenal	DATE AND TIME OF SAMPLING 11/15/91
SAMPLE DESCRIPTION Brown Soils	A.M. P.M. <u>P.M.</u>
TYPE OF SAMPLE COMPOSITE GRAB AIR OTHER	NUMBER OF CONTAINERS 5
STORED IN COOLER	

FIELD CUSTODY

SIGNATURE	SIGNATURE	DATE	TIME
RELINQUISHED BY <i>Phil C. Marek</i>	RECEIVED BY <i>Joe OB</i>	11-18-91	8:00 AM
RELINQUISHED BY	RECEIVED BY	DATE	TIME

FIELD I.D.	EOI I.D.	ANALYSIS REQUIRED
1. Sample # 1		
TANK # 80		
2.		
3. Sample # 2		
TANK # 80		
4.		
5. Sample # 4		
TANK # 1		
6.		
7. Sample # 2		
TANK # 1		
8.		
9. Sample # 1		
10. TANK # 2		

APPENDIX B

RESULTS OF CHEMICAL ANALYSIS

B1 - SOIL ANALYSIS

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/05/91

Client Sample I.D.: Ravenna

Date Reported: 6/14/91

Arsenal

EOI Sample I.D.: G9105-1-7

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: brown soils

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

CLIENT SAMPLE I.D.	EOI SAMPLE I.D.	TPH* (ppm)	BENZENE (ppb)	TOLUENE (ppb)	ETHYLBENZENE (ppb)	XYLENE (ppb)	Pb(T) (ppm)	Cr(T) (ppm)
Tank 81 #1	G9105-1	<10	<2	<2	<2	<2	5.40	6.67
Tank 81 #2	G9105-2	10	<2	<2	<2	<2	4.92	6.83
Tank 82 #1	G9105-3	25	<2	<2	<2	<2	4.37	6.57
Tank 82 #2	G9105-4	12	<2	<2	<2	<2	4.56	6.95
Tank 83 #1	G9105-5	10	<2	<2	<2	<2	4.77	7.04
Tank 83 #2	G9105-6	15	<2	<2	<2	<2	5.33	7.25
Product Line Island	G9105-7	15	<2	<2	<2	<2	6.33	11.00

Lead Practical Quantitation Limit - 0.02 mg/l
Recovery of Lead Standard - 89 %

Chromium Practical Quantitation Limit - 0.02 mg/l
Recovery of Chromium Standard - 97 %

BTEX Surrogate Recovery:	(G9105-1)	-	62 %	(G9105-5)	-	81 %
	(G9105-2)	-	84 %	(G9105-6)	-	72 %
	(G9105-3)	-	114 %	(G9105-7)	-	75 %
	(G9105-4)	-	81 %			

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600\4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846

Ronald A. Baraona
Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

The foregoing is limited to findings based upon material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/10/91
Date Reported: 6/14/91

Client Sample I.D.: Ravenna
Arsenal

EOI Sample I.D.: G9110-9-14

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: brown soils

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

CLIENT SAMPLE I.D.	EOI SAMPLE I.D.	TPH* (ppm)	BENZENE (ppb)	TOLUENE (ppb)	ETHYLBENZENE (ppb)	XYLENE (ppb)	Pb(T) (ppm)	Cr(T) (ppm)
Sample 1 Tank #50	G9110-9	18	<2	<2	<2	<2	3.85	3.90
Sample 2 Tank #50	G9110-10	12	<2	<2	<2	<2	4.43	3.37
Sample 1 Tank #20	G9110-11	10	<2	<2	<2	<2	9.76	15.7
Sample 2 Tank #20	G9110-12	12	<2	<2	<2	<2	10.1	15.4
Sample 1 Tank #21	G9110-13	10	<2	<2	<2	<2	8.64	14.6
Sample 2 Tank #21	G9110-14	<10	<2	<2	<2	<2	9.34	16.5

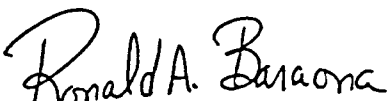
Lead Practical Quantitation Limit - 0.01 mg/l
Recovery of Lead Standard - 97 %

Chromium Practical Quantitation Limit - 0.01 mg/l
Recovery of Chromium Standard - 88 %

BTEX Surrogate Recovery:	(G9110-9)	-	86 %	(G9110-12)	-	70 %
	(G9110-10)	-	52 %	(G9110-13)	-	80 %
	(G9110-11)	-	93 %	(G9110-14)	-	81 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600\4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846


Ronald A. Baraona
LABORATORY MANAGER

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ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/12/91

Date Reported: 6/17/91

Client Sample I.D.: Ravenna

Arsenal

EOI Sample I.D.: G9112-1-4

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: brown soils

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

CLIENT SAMPLE I.D.	EOI SAMPLE I.D.	TPH* (ppm)	BENZENE (ppb)	TOLUENE (ppb)	ETHYLBENZENE (ppb)	XYLENE (ppb)	Pb (T) (ppm)	Cr (T) (ppm)
Sample 1 Tank #57	G9112-1	15	<2	<2	<2	<2	7.05	12.2
Sample 2 Tank #57	G9112-2	15	<2	<2	<2	<2	7.58	14.1
Sample 1 Tank #58	G9112-3	15	<2	<2	<2	<2	15.8	10.6
Sample 2 Tank #58	G9112-4	13	<2	<2	<2	<2	6.63	13.2

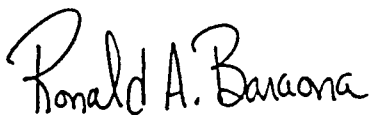
Lead Practical Quantitation Limit - 0.02 mg/l
Recovery of Lead Standard - 85 %

Chromium Practical Quantitation Limit - 0.02 mg/l
Recovery of Chromium Standard - 83 %

BTEX Surrogate Recovery: (G9112-1) - 60 %
(G9112-2) - 60 %
(G9112-3) - 60 %
(G9112-4) - 65 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600\4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846


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LABORATORY MANAGER

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The foregoing is limited to findings based upon material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

ENVIRONMENT ONE, INC.

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FAX (216) 524-2090

Date Received: 6/13/91
Date Reported: 6/26/91

Client Sample I.D.: Ravenna
Arsenal

EOI Sample I.D.: G9113-32-35

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: brown soils

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

CLIENT SAMPLE I.D.	EOI SAMPLE I.D.	TPH* (ppm)	BENZENE (ppb)	TOLUENE (ppb)	ETHYLBENZENE (ppb)	XYLENE (ppb)	Pb (T) (ppm)	Cr (T) (ppm)
Sample 1 Tank #63	G9113-32	10	<2	<2	<2	<2	8.24	6.60
Sample 2 Tank #63	G9113-33	12	<2	<2	<2	<2	7.85	6.75
Sample 1 Tank #64	G9113-34	10	<2	<2	<2	<2	6.90	6.48
Sample 2 Tank #64	G9113-35	12	<2	<2	<2	<2	6.18	6.10

Lead Practical Quantitation Limit - 0.02 mg/l
Recovery of Lead Standard - 97 %

Chromium Practical Quantitation Limit - 0.02 mg/l
Recovery of Chromium Standard - 93 %

BTEX Surrogate Recovery: (G9113-32) - 82 %
(G9113-33) - 92 %
(G9113-34) - 83 %
(G9113-35) - 60 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600\4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846

Ronald A. Baraona

Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

The foregoing is limited to findings based upon material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/19/91

Date Reported: 7/01/91

Client Sample I.D.: Ravenna

Arsenal

EOI Sample I.D.: G9119-4-7

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: brown soils

Nozzle New, Inc.

34412 Pettibone Road

Solon, Ohio 44139

Attn: Mr. Vince Marek

CLIENT SAMPLE I.D.	EOI SAMPLE I.D.	TPH* (ppm)	BENZENE (ppb)	TOLUENE (ppb)	ETHYLBENZENE (ppb)	XYLENE (ppb)	Pb (T) (ppm)	Cr (T) (ppm)
Sample 1 Tank #59	G9119-4	<10	<2	<2	<2	<2	10.5	6.23
Sample 2 Tank #59	G9119-5	<10	<2	<2	<2	<2	11.6	6.13
Sample 1 Tank #60	G9119-6	<10	<2	<2	<2	<2	10.5	6.15
Sample 2 Tank #60	G9119-7	<10	<2	<2	<2	<2	12.1	6.69

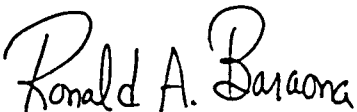
Lead Practical Quantitation Limit - 0.02 mg/l
Recovery of Lead Standard - 103 %

Chromium Practical Quantitation Limit - 0.02 mg/l
Recovery of Chromium Standard - 107 %

BTEX Surrogate Recovery:	(G9119-4)	-	72 %
	(G9119-5)	-	71 %
	(G9119-6)	-	65 %
	(G9119-7)	-	118 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600\4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846


Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

The foregoing is limited to findings based upon material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 10/23/91
Date Reported: 10/28/91

Client Sample I.D.: Ravenna
Arsenal

EOI Sample I.D.: L9123-6-11

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: brown & gray
soils

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

CLIENT SAMPLE I.D.	EOI SAMPLE I.D.	TPH* (ppm)	BENZENE (ppb)	TOLUENE (ppb)	ETHYLBENZENE (ppb)	XYLENE (ppb)	Pb(T) (ppm)	Cr(T) (ppm)
Sample 1 Tank #55	L9123-6	13	<2	<2	<2	<2	10.3	1.71
Sample 2 Tank #55	L9123-7	10	<2	<2	<2	<2	10.1	2.07
Sample 1 Tank #56	L9123-8	10	<2	<2	<2	<2	11.7	1.95
Sample 2 Tank #56	L9123-9	14	<2	<2	<2	<2	11.7	1.94
Sample 1 Tank #62	L9123-10	13	<2	<2	<2	<2	10.6	3.35
Sample 2 Tank #62	L9123-11	<10	<2	<2	<2	<2	12.5	3.96

Lead Practical Quantitation Limit - 0.02 mg/l
Recovery of Lead Standard - 103 %

Chromium Practical Quantitation Limit - 0.02 mg/l
Recovery of Chromium Standard - 99 %

BTEX Surrogate Recovery:	(L9123-6)	-	106 %	(L9123-9)	-	135 %
	(L9123-7)	-	114 %	(L9123-10)	-	79 %
	(L9123-8)	-	135 %	(L9123-11)	-	76 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600\4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846

Ronald A. Baraona
Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

The foregoing is limited to findings based upon material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 10/30/91
Date Reported: 11/08/91

Client Sample I.D.: Ravenna
Arsenal

EOI Sample I.D.: L9130-5,6

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: brown soils

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

CLIENT SAMPLE I.D.	EOI SAMPLE I.D.	TPH* (ppm)	BENZENE (ppb)	TOLUENE (ppb)	ETHYLBENZENE (ppb)	XYLENE (ppb)	Pb(T) (ppm)	Cr(T) (ppm)
Sample 1 Tank #61	L9130-5	14	<2	<2	<2	<2	9.04	2.27
Sample 2 Tank #61	L9130-6	<10	<2	<2	<2	<2	9.63	2.09

Lead Practical Quantitation Limit - 0.02 mg/l
Recovery of Lead Standard - 101 %

Chromium Practical Quantitation Limit - 0.02 mg/l
Recovery of Chromium Standard - 100 %

BTEX Surrogate Recovery: (L9130-5) - 65 % (L9130-6) - 65 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600/4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846

Ronald A. Baraona
Ronald A. Baraona
LABORATORY MANAGER

*RAB/tlg

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Analytical Services & Environmental Consulting

B2 - TANK OIL CONTENTS

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 4/04/91

Client Sample I.D.: Tank # 55-56

Date Reported: 4/11/91

Ravenna Arsenal

EOI Sample I.D.: D9104-13

Sampled By: Client

P.O.#: vb. VM/TD

Sample Description: black liquid

Nozzle New, Inc.

34412 Pettibone Road

Solon, Ohio 44139

Attn: Mr. Vince Marek

BTU

16,670 BTU/lb

Halogens as Chlorine

970 ppm

Flash Point (PMCC)

>200 F

PCB's

1.4 ppm (Aroclor 1232)

<1.0 ppm each other*

* Aroclor 1242, 1248, 1252, 1260, 1262

Sulfur

0.45 %

Water, Karl Fischer

70 ppm



Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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Analytical Services & Environmental Consulting

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 4/04/91

Client Sample I.D.: Tank # 57-58

Date Reported: 4/11/91

Ravenna Arsenal

EOI Sample I.D.: D9104-14

Sampled By: Client

P.O.#: vb. VM/TD

Sample Description: black liquid

Nozzle New, Inc.

34412 Pettibone Road

Solon, Ohio 44139

Attn: Mr. Vince Marek

BTU

19,100 BTU/lb

Halogens as Chlorine

410 ppm

Flash Point (PMCC)

>200 F

PCB's

<1 ppm each*

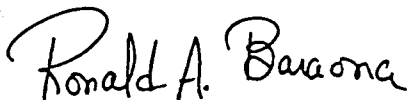
* Aroclor 1232, 1242, 1248, 1252, 1260, 1262

Sulfur

0.55 %

Water, Karl Fischer

<10 ppm


Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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Analytical Services & Environmental Consulting

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 4/04/91

Client Sample I.D.: Tank # 59-60

Date Reported: 4/11/91

Ravenna Arsenal

EOI Sample I.D.: D9104-15

Sampled By: Client

P.O.#: vb. VM/TD

Sample Description: black liquid

Nozzle New, Inc.

34412 Pettibone Road

Solon, Ohio 44139

Attn: Mr. Vince Marek

BTU

16,230 BTU/lb

Halogens as Chlorine

265 ppm

Flash Point (PMCC)

>200 F

PCB's

2.2 ppm (Aroclor 1232)
<1.0 ppm each other*

* Aroclor 1242, 1248, 1252, 1260, 1262

Sulfur

0.50 %

Water, Karl Fischer

<10 ppm

Ronald A. Baraona

Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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Analytical Services & Environmental Consulting

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 4/04/91

Client Sample I.D.: Tank # 61-62

Date Reported: 4/11/91

Ravenna Arsenal

EOI Sample I.D.: D9104-16

Sampled By: Client

P.O.#: vb. VM/TD

Sample Description: black liquid

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

BTU

19,050 BTU/lb

Halogens as Chlorine

365 ppm

Flash Point (PMCC)

>200 F

PCB's

<1 ppm each*

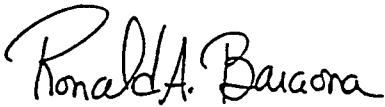
* Aroclor 1232, 1242, 1248, 1252, 1260, 1262

Sulfur

0.41 %

Water, Karl Fischer

<10 ppm


Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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Analytical Services & Environmental Consulting

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 4/04/91

Client Sample I.D.: Tank # 63-64

Date Reported: 4/11/91

Ravenna Arsenal

EOI Sample I.D.: D9104-17

Sampled By: Client

P.O.#: vb. VM/TD

Sample Description: black liquid

Nozzle New, Inc.

34412 Pettibone Road

Solon, Ohio 44139

Attn: Mr. Vince Marek

BTU

16,000 BTU/lb

Halogens as Chlorine

240 ppm

Flash Point (PMCC)

>200 F

PCB's

1.1 ppm (Aroclor 1232)
<1.0 ppm each other*

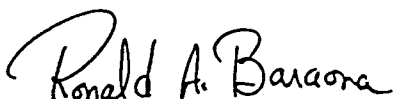
* Aroclor 1242, 1248, 1252, 1260, 1262

Sulfur

0.40 %

Water, Karl Fischer

60 ppm



Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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Analytical Services & Environmental Consulting

B3 - TANK WATER CONTENTS

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 4/04/91

Date Reported: 4/09/91

Client Sample I.D.: Ravenna

Arsenal

EOI Sample I.D.: D9104-18-20

Sampled By: Client

P.O.#: vb. VM/TD

Sample Description: clear liquids

Nozzle New, Inc.

34412 Pettibone Road

Solon, Ohio 44139

Attn: Mr. Vince Marek

Client Sample I.D.

EOI Sample I.D.

Flash Point (PMCC)

Tank Water
55-56, 58-59, 61-62

D9104-18

>200 F

Tank Water
59-60

D9104-19

>200 F

Tank Water
63-64

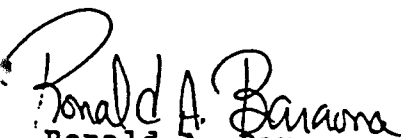
D9104-20

>200 F

PCB's (Composite of Above)

<1 mg/l each*

* Aroclor 1232, 1242, 1248, 1252, 1260, 1262


Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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Analytical Services & Environmental Consulting

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 4/04/91

Date Reported: 4/15/91

Client Sample I.D.: Ravenna

Arsenal

EOI Sample I.D.: D9104-18-20 Comp

Sampled By: Client

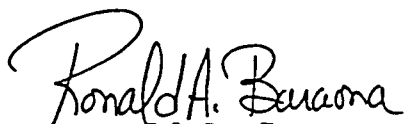
P.O.#: vb. VM/JO

Sample Description: clear liquid
Composite of Tank Water 55-56, 58-
59, 61-62, Tank Water 59-60 &
Tank Water 63-64

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

	TCLP* EXTRACTION (mg/l)	REAGENT BLANK (mg/l)	STANDARD RECOVERY (%)
Arsenic	<0.01	<0.01	99
Barium	0.05	<0.01	94
Cadmium	<0.01	<0.01	97
Chromium	<0.01	<0.01	102
Lead	<0.01	<0.01	98
Mercury	<0.01	<0.01	112
Selenium	<0.01	<0.01	94
Silver	<0.01	<0.01	95

* 40 CFR Part 261, Appendix II - Method 1311.


Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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Analytical Services & Environmental Consulting

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 4/19/91
Date Reported: 4/25/91

Client Sample I.D.: Tank Water
Ravenna Arsenal

EOI Sample I.D.: D9119-9

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: light yellow
liquid

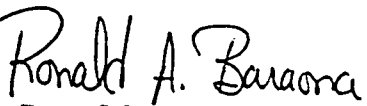
Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

TCLP SEMI-VOLATILE ORGANICS

<u>PARAMETER</u>	<u>RESULT*</u> <u>(mg/l)</u>	<u>PQL</u> <u>(mg/l)</u>	<u>REGULATORY LEVEL</u> <u>(mg/l)</u>
Cresols	LTPQL	0.04	200.0
2,4-Dinitrotoluene	LTPQL	0.04	0.13
Hexachlorobenzene	LTPQL	0.04	0.13
Hexachlorobutadiene	LTPQL	0.04	0.5
Hexachloroethane	LTPQL	0.04	3.0
Nitrobenzene	LTPQL	0.04	2.0
Pentachlorophenol	LTPQL	3.6	100.0
Pyridine	LTPQL	0.04	5.0
2,4,5-Trichlorophenol	LTPQL	0.04	400.0
2,4,6-Trichlorophenol	LTPQL	0.04	2.0
1,4-Dichlorobenzene	LTPQL	0.04	7.5

LTPQL = Less Than Practical Quantitation Limit

Matrix Spike Recovery - 100 %


Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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Analytical Services & Environmental Consulting

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 4/19/91
Date Reported: 4/23/91

Client Sample I.D.: Tank Water
Ravenna Arsenal

EOI Sample I.D.: D9119-9

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: light yellow
liquid

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

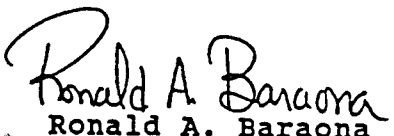
TCLP VOLATILE ORGANICS

<u>PARAMETER</u>	<u>RESULT</u> <u>(mg/l)</u>	<u>PQL</u> <u>(mg/l)</u>	<u>REGULATORY LEVEL</u> <u>(mg/l)</u>
Benzene	LTPQL	0.002	0.5
Carbon Tetrachloride	LTPQL	0.01	0.5
Chlorobenzene	LTPQL	0.005	100.0
Chloroform	LTPQL	0.005	6.0
1,2-Dichloroethane	LTPQL	0.01	0.5
1,1-Dichloroethylene	LTPQL	0.001	0.7
Methyl Ethyl Ketone	LTPQL	0.005	200.0
Tetrachloroethylene	LTPQL	0.02	0.7
Trichloroethylene	LTPQL	0.02	0.5
Vinyl Chloride	LTPQL	0.02	0.2

LTPQL = Less Than Practical Quantitation Limit

SURROGATE RECOVERIES

<u>PARAMETER</u>	<u>% RECOVERY</u>
Volatile Organic Compounds	
Bromochloromethane	150
1-Chloro-2-Bromopropane	160
1,4-Dichlorobutane	97


Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/11/91
Date Reported: 6/18/91

Client Sample I.D.: Ravenna Arsenal
Water in Tank #80

EOI Sample I.D.: G9111-4

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: clear liquid

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

Flash Point (PMCC)

>200 F

Benzene	Toluene	Ethylbenzene	Xylene	Surrogate Recovery
250 ppb	690 ppb	66 ppb	640 ppb	52 %

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846

	TCLP* EXTRACTION (mg/l)	PQL (mg/l)	STANDARD RECOVERY (%)
Arsenic	0.04	0.01	101
Barium	0.07	0.01	102
Cadmium	<0.01	0.01	102
Chromium	<0.01	0.01	99
Lead	<0.01	0.01	102
Mercury	<0.01	0.01	-
Selenium	<0.01	0.01	99
Silver	0.02	0.01	93

* 40 CFR Part 261, Appendix II - Method 1311.

PQL = Practical Quantitation Limit

TCLP VOLATILE ORGANICS

<u>PARAMETER</u>	<u>RESULT*</u> <u>(mg/l)</u>	<u>PQL</u> <u>(mg/l)</u>	<u>REGULATORY LEVEL</u> <u>(mg/l)</u>
Benzene	LTPQL	0.01	0.5
Carbon Tetrachloride	LTPQL	0.05	0.5
Chlorobenzene	LTPQL	0.025	100.0
Chloroform	LTPQL	0.025	6.0
1,2-Dichloroethane	LTPQL	0.05	0.5
1,1-Dichloroethylene	LTPQL	0.005	0.7
Methyl Ethyl Ketone	LTPQL	0.025	200.0
Tetrachloroethylene	LTPQL	0.1	0.7
Trichloroethylene	LTPQL	0.1	0.5
Vinyl Chloride	LTPQL	0.1	0.2

LTPQL = Less Than Practical Quantitation Limit

SURROGATE RECOVERIES

<u>PARAMETER</u>	<u>% RECOVERY</u>
Volatile Organic Compounds	
Bromochloromethane	70
1-Chloro-2-Bromopropane	65
1,4-Dichlorobutane	75

Ronald A. Baraona

Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/19/91
Date Reported: 7/01/91

Client Sample I.D.: Water in
Tank #80, Ravenna Arsenal
EOI Sample I.D.: G9119-3
Sampled By: Client
P.O.#: vb. VM/JO
Sample Description: light yellow
liquid/
black sediment

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

TPH*

<1 mg/l

Flash Point (PMCC)

>200 F

Benzene	Toluene	Ethylbenzene	Xylene	Surrogate Recovery
73 ug/l	26 ug/l	24 ug/l	540 ug/l	106 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600/4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846

	TCLP* EXTRACTION (mg/l)	PQL (mg/l)	STANDARD RECOVERY (%)
Arsenic	0.04	0.01	104
Barium	0.06	0.01	111
Cadmium	<0.01	0.01	101
Chromium	<0.01	0.01	103
Lead	<0.01	0.01	101
Mercury	<0.01	0.01	107
Selenium	<0.01	0.01	95
Silver	<0.01	0.01	101

* 40 CFR Part 261, Appendix II - Method 1311.

PQL = Practical Quantitation Limit

TCLP VOLATILE ORGANICS

<u>PARAMETER</u>	<u>RESULT*</u> <u>(mg/l)</u>	<u>PQL</u> <u>(mg/l)</u>	<u>REGULATORY LEVEL</u> <u>(mg/l)</u>
Benzene	0.011	0.002	0.5
Carbon Tetrachloride	LTPQL	0.01	0.5
Chlorobenzene	LTPQL	0.005	100.0
Chloroform	LTPQL	0.005	6.0
1,2-Dichloroethane	LTPQL	0.01	0.5
1,1-Dichloroethylene	LTPQL	0.001	0.7
Methyl Ethyl Ketone	0.005	0.005	200.0
Tetrachloroethylene	LTPQL	0.02	0.7
Trichloroethylene	0.02	0.02	0.5
Vinyl Chloride	LTPQL	0.02	0.2

LTPQL = Less Than Practical Quantitation Limit

SURROGATE RECOVERIES

<u>PARAMETER</u>	<u>% RECOVERY</u>
Volatile Organic Compounds	
Bromochloromethane	89
1-Chloro-2-Bromopropane	68
1,4-Dichlorobutane	61


Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

The foregoing is limited to findings based upon material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 10/30/91
Date Reported: 11/08/91

Client Sample I.D.: Ravenna Arsenal
Excavation Tank #61 and Tank #62

EOI Sample I.D.: L9130-7

Sampled By: Client

P.O.#: vb. MJ/RB

Sample Description: water sample
yellow liquid

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

Flash Point (PMCC)

>200 F

TPH*

<1 mg/l

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600/4-79-020
Method 9071: EPA SW-846

Ronald A. Baraona
Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

The foregoing is limited to findings based upon material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 11/11/91
Date Reported: 11/20/91

Client Sample I.D.: Gas/Water
Ravenna Arsenal
EOI Sample I.D.: M9111-7
Sampled By: Client
P.O.#: vb. VM/JO
Sample Description: light yellow
liquid/
orange sediment

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Phil Marek

BTU

did not bomb

Flash Point (PMCC)

>200 F

Halogens as Chlorine

130 ppm

pH (direct read)

7.5

B4 - TANK SLUDGE/SOLID CONTENTS

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/11/91
Date Reported: 6/18/91

Client Sample I.D.: Ravenna Arsenal
Sand in Tank #80

EOI Sample I.D.: G9111-3

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: brown & black
sandy soil

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

TPH*

27 ppm

Flash Point (PMCC)

>140 F

Benzene	Toluene	Ethylbenzene	Xylene	Surrogate Recovery
7 ppb	15 ppb	20 ppb	41 ppb	65 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600/4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846

	TCLP* EXTRACTION (mg/l)	PQL (mg/l)	STANDARD RECOVERY (%)
Arsenic	0.03	0.01	101
Barium	0.23	0.01	102
Cadmium	<0.01	0.01	102
Chromium	0.03	0.01	99
Lead	0.10	0.01	102
Mercury	<0.01	0.01	-
Selenium	<0.01	0.01	99
Silver	<0.01	0.01	93

* 40 CFR Part 261, Appendix II - Method 1311.

PQL = Practical Quantitation Limit


TCLP VOLATILE ORGANICS

<u>PARAMETER</u>	<u>RESULT*</u> <u>(mg/l)</u>	<u>PQL</u> <u>(mg/l)</u>	<u>REGULATORY LEVEL</u> <u>(mg/l)</u>
Benzene	LTPQL	0.002	0.5
Carbon Tetrachloride	LTPQL	0.01	0.5
Chlorobenzene	LTPQL	0.005	100.0
Chloroform	LTPQL	0.005	6.0
1,2-Dichloroethane	LTPQL	0.01	0.5
1,1-Dichloroethylene	LTPQL	0.001	0.7
Methyl Ethyl Ketone	LTPQL	0.005	200.0
Tetrachloroethylene	LTPQL	0.02	0.7
Trichloroethylene	LTPQL	0.02	0.5
Vinyl Chloride	LTPQL	0.02	0.2

LTPQL = Less Than Practical Quantitation Limit

SURROGATE RECOVERIES

<u>PARAMETER</u>	<u>% RECOVERY</u>
Volatile Organic Compounds	
Bromochloromethane	88
1-Chloro-2-Bromopropane	60
1,4-Dichlorobutane	80


Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

The foregoing is limited to findings based upon material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/11/91
Date Reported: 6/18/91

Client Sample I.D.: Ravenna Arsenal
Sample from 5 gallon Pails #1 Orange
EOI Sample I.D.: G9111-5
Sampled By: Client
P.O.#: vb. VM/JO
Sample Description: rust colored
semi-solid

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

Flash Point (PMCC)

85 F

	TCLP* EXTRACTION (mg/l)	PQL (mg/l)	STANDARD RECOVERY (%)
Arsenic	0.02	0.01	101
Barium	1.39	0.01	102
Cadmium	0.11	0.01	102
Chromium	0.01	0.01	99
Lead	3.09	0.01	102
Mercury	<0.01	0.01	-
Selenium	<0.01	0.01	99
Silver	<0.01	0.01	93

* 40 CFR Part 261, Appendix II - Method 1311.

PQL = Practical Quantitation Limit

TCLP VOLATILE ORGANICS

<u>PARAMETER</u>	<u>RESULT*</u> <u>(mg/l)</u>	<u>PQL</u> <u>(mg/l)</u>	<u>REGULATORY LEVEL</u> <u>(mg/l)</u>
Benzene	LTPQL	0.002	0.5
Carbon Tetrachloride	LTPQL	0.01	0.5
Chlorobenzene	LTPQL	0.005	100.0
Chloroform	LTPQL	0.005	6.0
1,2-Dichloroethane	LTPQL	0.01	0.5
1,1-Dichloroethylene	LTPQL	0.001	0.7
Methyl Ethyl Ketone	LTPQL	0.005	200.0
Tetrachloroethylene	LTPQL	0.02	0.7
Trichloroethylene	LTPQL	0.02	0.5
Vinyl Chloride	LTPQL	0.02	0.2

LTPQL = Less Than Practical Quantitation Limit

SURROGATE RECOVERIES

<u>PARAMETER</u>	<u>% RECOVERY</u>
Volatile Organic Compounds	
Bromochloromethane	89
1-Chloro-2-Bromopropane	60
1,4-Dichlorobutane	65



Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

The foregoing is limited to findings based upon material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/11/91

Date Reported: 6/18/91

Client Sample I.D.: Ravenna Arsenal

Sample from 5 gallon Pails #2 Tan

EOI Sample I.D.: G9111-6

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: tan semi-solid

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

Flash Point (PMCC)

65 F @ Room Temp.

	TCLP* EXTRACTION (mg/l)	PQL (mg/l)	STANDARD RECOVERY (%)
Arsenic	<0.01	0.01	101
Barium	0.31	0.01	102
Cadmium	<0.01	0.01	102
Chromium	0.03	0.01	99
Lead	0.71	0.01	102
Mercury	<0.01	0.01	-
Selenium	<0.01	0.01	99
Silver	<0.01	0.01	93

* 40 CFR Part 261, Appendix II - Method 1311.

PQL = Practical Quantitation Limit

TCLP VOLATILE ORGANICS

<u>PARAMETER</u>	<u>RESULT*</u> <u>(mg/l)</u>	<u>PQL</u> <u>(mg/l)</u>	<u>REGULATORY LEVEL</u> <u>(mg/l)</u>
Benzene	LTPQL	0.002	0.5
Carbon Tetrachloride	LTPQL	0.01	0.5
Chlorobenzene	LTPQL	0.005	100.0
Chloroform	LTPQL	0.005	6.0
1,2-Dichloroethane	LTPQL	0.01	0.5
1,1-Dichloroethylene	LTPQL	0.001	0.7
Methyl Ethyl Ketone	LTPQL	0.005	200.0
Tetrachloroethylene	LTPQL	0.02	0.7
Trichloroethylene	LTPQL	0.02	0.5
Vinyl Chloride	LTPQL	0.02	0.2

LTPQL = Less Than Practical Quantitation Limit

SURROGATE RECOVERIES

<u>PARAMETER</u>	<u>% RECOVERY</u>
Volatile Organic Compounds	
Bromochloromethane	73
1-Chloro-2-Bromopropane	65
1,4-Dichlorobutane	138

Ronald A. Baraona

Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 10/15/91

Date Reported: 10/28/91

Client Sample I.D.: Ravenna Arsenal

Solids from Gasoline UST

EOI Sample I.D.: L9115-5

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: brown liquid/
brown solid

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

BTU

did not bomb

Halogens as Chlorine

100 ppm

	TOTAL METALS (ppm)	PQL (mg/l)	STANDARD RECOVERY (%)
Arsenic	9.81	0.02	92
Barium	33.8	0.02	98
Cadmium	1.17	0.02	96
Chromium	34.8	0.02	100
Lead	722.	0.02	98
Mercury	<0.02	0.02	83
Selenium	0.07	0.02	93
Silver	0.10	0.02	97

PQL = Practical Quantitation Limit

TCLP VOLATILE ORGANICS

<u>PARAMETER</u>	<u>RESULT*</u> <u>(mg/l)</u>	<u>PQL</u> <u>(mg/l)</u>	<u>REGULATORY LEVEL</u> <u>(mg/l)</u>
Benzene	LTPQL	0.10	0.5
Carbon Tetrachloride	LTPQL	0.10	0.5
Chlorobenzene	LTPQL	0.10	100.0
Chloroform	LTPQL	0.10	6.0
1,4-Dichlorobenzene	LTPQL	0.10	7.5
1,2-Dichloroethane	LTPQL	0.10	0.5
1,1-Dichloroethylene	LTPQL	0.10	0.7
Methyl Ethyl Ketone	LTPQL	0.10	200.0
Tetrachloroethylene	LTPQL	0.10	0.7
Trichloroethylene	LTPQL	0.10	0.5
Vinyl Chloride	LTPQL	0.10	0.2

LTPQL = Less Than Practical Quantitation Limit

Matrix interference due to the large amount of hydrocarbons present in the sample prevents calculation of surrogate recoveries.

Ronald A. Baraona

Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 10/15/91
Date Reported: 10/28/91

Client Sample I.D.: Ravenna Arsenal
#2 Fuel Oil Solids

EOI Sample I.D.: L9115-6

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: black liquid/
black solid

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139

BTU

8,300 BTU/lb

Halogens as Chlorine

1,130 ppm

PCBs

<1 ppm each*

* Aroclor 1232, 1242, 1248, 1254, 1260, 1262

	TOTAL METALS (ppm)	PQL (mg/l)	STANDARD RECOVERY (%)
Arsenic	3.82	0.02	92
Barium	3.50	0.02	98
Cadmium	0.36	0.02	96
Chromium	5.62	0.02	100
Lead	54.0	0.02	98
Mercury	<0.02	0.02	83
Selenium	0.02	0.02	93
Silver	0.05	0.02	97

PQL = Practical Quantitation Limit

Ronald A. Baraona
Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

The foregoing is limited to findings based upon the material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

Analytical Services & Environmental Consulting

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 11/12/91

Date Reported: 11/13/91

Nozzle New, Inc.

34412 Pettibone Road

Solon, Ohio 44139

Attn: Mr. Vince Marek

Client Sample I.D.: Ravenna Arsenal

#2 Fuel Oil Solids

EOI Sample I.D.: L9115-6

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: black liquid/

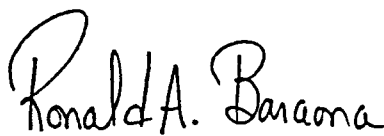
black solid

Additional Analysis

	TCLP* EXTRACTION (mg/l)	PQL (mg/l)	STANDARD RECOVERY (%)
Arsenic	0.04	0.01	112
Barium	0.08	0.01	104
Cadmium	0.01	0.01	108
Chromium	0.05	0.01	100
Lead	0.47	0.01	95
Mercury	<0.01	0.01	-
Selenium	0.01	0.01	120
Silver	<0.01	0.01	107

* 40 CFR Part 261, Appendix II - Method 1311.

PQL = Practical Quantitation Limit


Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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Analytical Services & Environmental Consulting

B5 - SPOILS PILE

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/05/91

Date Reported: 6/14/91

Client Sample I.D.: Spoil Pile,

Tank #81, #82, #83, Ravenna Arsenal

EOI Sample I.D.: G9105-8

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: brown, gray &
black soil

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

TPH*

140 ppm

Flash Point (PMCC)

>140 F

Benzene	Toluene	Ethylbenzene	Xylene	Surrogate Recovery
1340 ppb	710 ppb	1010 ppb	850 ppb	94 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600/4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846

	TCLP* EXTRACTION (mg/l)	PQL (mg/l)	STANDARD RECOVERY (%)
Arsenic	<0.01	0.01	108
Barium	0.35	0.01	102
Cadmium	<0.01	0.01	102
Chromium	<0.01	0.01	114
Lead	<0.01	0.01	97
Mercury	<0.01	0.01	108
Selenium	<0.01	0.01	104
Silver	<0.01	0.01	104

* 40 CFR Part 261, Appendix II - Method 1311.

PQL = Practical Quantitation Limit

Ronald A. Baraona

Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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B6 - CAVITY WATER

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/19/91

Date Reported: 7/01/91

Client Sample I.D.: Ground Water

Tanks #59 & #60, Ravenna Arsenal

EOI Sample I.D.: G9119-8

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: light yellow

liquid/

brown sediment

Nozzle New, Inc.

34412 Pettibone Road

Solon, Ohio 44139

Attn: Mr. Vince Marek

TPH*

<1 mg/l

Flash Point (PMCC)

>200 F

Benzene	Toluene	Ethylbenzene	Xylene	Surrogate Recovery
<2 ug/l	<2 ug/l	<2 ug/l	<2 ug/l	80 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600/4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846

	TCLP* EXTRACTION (mg/l)	PQL (mg/l)	STANDARD RECOVERY (%)
Arsenic	0.02	0.01	104
Barium	0.07	0.01	111
Cadmium	<0.01	0.01	101
Chromium	<0.01	0.01	103
Lead	<0.01	0.01	101
Mercury	<0.01	0.01	107
Selenium	<0.01	0.01	95
Silver	<0.01	0.01	101

* 40 CFR Part 261, Appendix II - Method 1311.

PQL = Practical Quantitation Limit

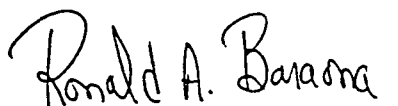
TCLP VOLATILE ORGANICS

<u>PARAMETER</u>	<u>RESULT*</u> <u>(mg/l)</u>	<u>PQL</u> <u>(mg/l)</u>	<u>REGULATORY LEVEL</u> <u>(mg/l)</u>
Benzene	LTPQL	0.002	0.5
Carbon Tetrachloride	LTPQL	0.01	0.5
Chlorobenzene	LTPQL	0.005	100.0
Chloroform	LTPQL	0.005	6.0
1,2-Dichloroethane	LTPQL	0.01	0.5
1,1-Dichloroethylene	LTPQL	0.001	0.7
Methyl Ethyl Ketone	LTPQL	0.005	200.0
Tetrachloroethylene	LTPQL	0.02	0.7
Trichloroethylene	LTPQL	0.02	0.5
Vinyl Chloride	LTPQL	0.02	0.2

LTPQL = Less Than Practical Quantitation Limit

SURROGATE RECOVERIES

<u>PARAMETER</u>	<u>% RECOVERY</u>
Volatile Organic Compounds	
Bromochloromethane	91
1-Chloro-2-Bromopropane	97
1,4-Dichlorobutane	122


Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

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ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 6/19/91

Date Reported: 7/01/91

Client Sample I.D.: Ground Water

Tanks #20 & #21, Ravenna Arsenal

EOI Sample I.D.: G9119-9

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: light yellow

liquid/

brown sediment

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

TPH*

<1 mg/l

Lead (Total)

<0.01 mg/l

PQL

0.01 mg/l

Standard Recovery

103 %

Chromium (Total)

<0.01 mg/l

PQL

0.01 mg/l

Standard Recovery

107 %

Benzene

<2 ug/l

Toluene

<2 ug/l

Ethylbenzene

<2 ug/l

Xylene

<2 ug/l

Surrogate Recovery

106 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600/4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846

PQL = Practical Quantitation Limit

Ronald A. Baraona
Ronald A. Baraona
LABORATORY MANAGER

RAB/tlg

The foregoing is limited to findings based upon material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

Analytical Services & Environmental Consulting

ENVIRONMENT ONE, INC.

7777 Wall Street
Valley View, Ohio 44125
(216) 524-0888
FAX (216) 524-2090

Date Received: 8/06/91
Date Reported: 8/12/91

Client Sample I.D.: Filtered Water
Ravenna Arsenal

EOI Sample I.D.: I9106-14

Sampled By: Client

P.O.#: vb. VM/JO

Sample Description: clear liquid

Nozzle New, Inc.
34412 Pettibone Road
Solon, Ohio 44139
Attn: Mr. Vince Marek

TPH*

<1 mg/l

Benzene	Toluene	Ethylbenzene	Xylene	Surrogate Recovery
<2 ug/l	<2 ug/l	<2 ug/l	<2 ug/l	65 %

* Total Petroleum Hydrocarbons - Method 418.1: EPA 600/4-79-020
Method 9071: EPA SW-846

Benzene, Toluene, Ethylbenzene, Xylene - Method 8020: EPA SW-846

Ronald A. Baraona
Ronald A. Baraona
LABORATORY MANAGER

RAB/tjb

The foregoing is limited to findings based upon material received for analysis and/or information furnished by client. Samples received will be disposed of after 30 days.

Analytical Services & Environmental Consulting

APPENDIX C

DISPOSAL TICKETS

E. 79th Scrap & Auto Wrecking

Cutting & Disposing

3205 E. 79th Street Cleveland, Ohio

6/6/91

Cut and dispose of tank #50, 1,000 gallons.
Cut and dispose of tank #81, #82 and #83,
1-1,000 gallons and 2-1,500 gallons.
All from Ravenna Arsenal.

Tini Chomes

Tini Chomes, Owner

E. 79th Scrap & Auto Wrecking

Cutting & Disposing

3205 E. 79th Street Cleveland, Ohio

6/11/91

Cut and dispose of tank #20 and #21,
2-15,000 gallons from Ravenna Arsenal.

Tini Chomes

Tini Chomes, Owner

E. 79th Scrap & Auto Wrecking

Cutting & Disposing

3205 E. 79th Street Cleveland, Ohio

6/14/91

Cut and dispose of two steel underground storage tanks, No's 57 & 58, 15,000 gallons each from Ravenna Arsenal.

Tini Chomes

Tini Chomes
Owner

E. 79th Scrap & Auto Wrecking

Cutting & Disposing

3205 E. 79th Street Cleveland, Ohio

6/17/91

Cut up and dispose of two steel underground storage tanks, 2-20,000 gallon tanks, No's 59-60 from Ravenna Arsenal.

Tini Chomes

Tini Chomes, Owner

E. 79th Scrap & Auto Wrecking

Cutting & Disposing

3205 E. 79th Street Cleveland, Ohio

6/18/91

Cut up and dispose of two steel underground storage tanks, 20,000 gallons each, No's 63 and 64 from Ravenna Arsenal.

Tini Chomes

Tini Chomes, Owner

E. 79th Scrap & Auto Wrecking

Cutting & Disposing

3205 E. 79th Street Cleveland, Ohio

10/18/91

Received three steel tanks from Ravenna Arsenal, tank No. 55 and 56, 20,000 gallons each and tank No. 80, 12,000 gallons. Cut tanks up for scrap.

Tini Chomes

Tini Chomes, Owner

E. 79th Scrap & Auto Wrecking

Cutting & Disposing

3205 E. 79th Street Cleveland, Ohio

10/21/91

Received two 20,000 gallon steel tanks
from Ravenna Arsenal, tank No's 61 and
62. Cut tanks up for scrap.

Tini Chomes

Tini Chomes, Owner



3557 TALLMADGE ROAD
 KENT, OHIO 44240
 (216) 325-0073
 (800) 628-0061

INVOICE

PAGE:

INVOICE DATE
 ALL TRANSACTIONS AFTER
 DATE WILL BE SHOWN ON YR.
 NEXT BILLING.

MO. DAY YR.
 08/25/91

SERVICE ADDRESS: RAVENNA ARSENAL
 SERVICE PERIOD: SEPTEMBER SERVICE

ACCT. NO.
 9343

NOZZLE NEW, INC
 34412 PETTIBONE RD
 SOLON OH 44139

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1 1/2% PER MONTH.
 PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

\$
 AMOUNT ENCL.

MO.	DAY	YR.	QTY.	DESCRIPTION	REFERENCE	CHARGES	PAYMENTS/CREDITS	BALANCE
								0.00
08/15/91			18	LANDFILL FEES	15059			
08/15/91			18	COUNTY FEES IN-DISTR	15059			
08/15/91			20	LANDFILL FEES	15073			
08/15/91			20	COUNTY FEES IN-DISTR	15073			
08/15/91			18	LANDFILL FEES	15060			
08/15/91			18	COUNTY FEES IN-DISTR	15060			
08/15/91			18	LANDFILL FEES	15064			
08/15/91			18	COUNTY FEES IN-DISTR	15064			
08/15/91			20	LANDFILL FEES	15065			

NOTE: FRONTLOADERS & REARLOADERS & RENTAL
 AMOUNTS ARE FOR SEPT CHARGES. THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANCE
	CONTINUED ON NEXT PAGE.....					

A & B REFUSE DISPOSERS, INC. • 3557 TALLMADGE ROAD • KENT, OHIO 44240 • (216) 325-0073 • (800) 628-0061
 FINANCE CHARGE COMPUTED ON:


 PAY THIS
 AMOUNT



REFUSE DISPOSERS, INC.

3557 TALLMADGE ROAD
KENT, OHIO 44240
(216) 325-0073
(800) 628-0061

INVOICE

PAGE:

SERVICE ADDRESS: RAVENNA ARSENAL
SERVICE PERIOD: SEPTEMBER SERVICE

ACCT. NO.

9343

NOZZLE NEW, INC
34412 PETTIBONE RD
SOLON OH 44139

INVOICE DATE
ANY TRANSACTIONS AFTER
DATE WILL BE SHOWN ON
NEXT BILLING

MO. DAY YR
08/25/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1 1/2% PER MONTH.

PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

\$
AMOUNT ENC

MO. DAY YR.	QTY.	DESCRIPTION	REFERENCE	CHARGES	PAYMENTS/CREDITS	BALANCE
				PREVIOUS BALANCE		0.00
08/15/91	20	COUNTY FEES IN-DISTR	15065			
08/15/91	18	LANDFILL FEES	15066			
08/15/91	18	COUNTY FEES IN-DISTR	15066			
08/15/91	20	LANDFILL FEES	15068			
08/15/91	20	COUNTY FEES IN-DISTR	15068			
08/15/91	18	LANDFILL FEES	15069			
08/15/91	18	COUNTY FEES IN-DISTR	15069			
08/15/91	20	LANDFILL FEES	15070			
08/15/91	20	COUNTY FEES IN-DISTR	15070			

NOTE: FRONTLOADERS & REARLOADERS & RENTAL AMOUNTS ARE FOR SEPT CHARGES. THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANCE
	CONTINUED ON NEXT PAGE.....					

A & B REFUSE DISPOSERS, INC. • 3557 TALLMADGE ROAD • KENT, OHIO 44240 • (216) 325-0073 • (800) 628-0061
FINANCE CHARGE COMPUTED ON:


PAY THIS
AMOUNT



3557 TALLMADGE ROAD
 KENT, OHIO 44240
 (216) 325-0073
 (800) 628-0061

INVOICE

PAGE:

SERVICE ADDRESS: RAVENNA ARSENAL
 SERVICE PERIOD: SEPTEMBER SERVICE

INVOICE DATE
 ANY TRANSACTIONS AFTER
 DATE WILL BE SHOWN ON
 NEXT BILLING.

ACCT. NO.

9343

NOZZLE NEW, INC
 34412 PETTIBONE RD
 SOLON OH 44139

MO. DAY YR
 08/25/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1 1/2% PER MONTH.

PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

\$
 AMOUNT ENCL

MO. DAY YR.	QTY.	DESCRIPTION	REFERENCE	CHARGES	PAYMENTS/CREDITS	BALANCE
				PREVIOUS BALANCE		0.00
08/15/91	18	LANDFILL FEES	15071			
08/15/91	18	COUNTY FEES IN-DISTR	15071			
08/15/91	20	LANDFILL FEES	15072			
08/15/91	20	COUNTY FEES IN-DISTR	15072			
08/15/91	20	LANDFILL FEES	15049			
08/15/91	20	COUNTY FEES IN-DISTR	15049			
08/15/91	25	LANDFILL FEES	15051			
08/15/91	25	COUNTY FEES IN-DISTR	15051			
08/15/91	25	LANDFILL FEES	15052			

NOTE: FRONTLOADERS & REARLOADERS & RENTAL
 AMOUNTS ARE FOR SEPT CHARGES. THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANCE
	CONTINUED ON NEXT PAGE.....					

A & B REFUSE DISPOSERS, INC. • 3557 TALLMADGE ROAD • KENT, OHIO 44240 • (216) 325-0073 • (800) 628-0061
 FINANCE CHARGE COMPUTED ON:

PAY THIS AMOUNT



3557 TALLMADGE ROAD
 KENT, OHIO 44240
 (216) 325-0073
 (800) 628-0061

INVOICE

PAGE:

INVOICE DATE
 ANY TRANSACTIONS AFTER
 DATE WILL BE SHOWN ON YOUR
 NEXT BILLING

SERVICE ADDRESS: RAVENNA ARSENAL
 SERVICE PERIOD: SEPTEMBER SERVICE

ACCT. NO.

9343

NOZZLE NEW, INC
 34412 PETTIBONE RD
 SOLON OH 44139

MO. DAY YR.
 08/25/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1 1/2% PER MONTH.
 PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

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 AMOUNT ENCL

MO. DAY YR.	QTY.	DESCRIPTION	REFERENCE	CHARGES	PAYMENTS/CREDITS	BALANCE
				PREVIOUS BALANCE	→	0.00
08/15/91	25	COUNTY FEES IN-DISTR	15052			
08/15/91	25	LANDFILL FEES	15055			
08/15/91	25	COUNTY FEES IN-DISTR	15055			
08/15/91	18	LANDFILL FEES	15056			
08/15/91	18	COUNTY FEES IN-DISTR	15056			
08/15/91	20	LANDFILL FEES	15093			
08/15/91	20	COUNTY FEES IN-DISTR	15093			
08/15/91	20	LANDFILL FEES	15092			
08/15/91	20	COUNTY FEES IN-DISTR	15092			

NOTE: FRONTLOADERS & REARLOADERS & RENTAL
 AMOUNTS ARE FOR SEPT CHARGES. THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANCE
	CONTINUED ON NEXT PAGE.....					

A & B REFUSE DISPOSERS, INC. • 3557 TALLMADGE ROAD • KENT, OHIO 44240 • (216) 325-0073 • (800) 628-0061

FINANCE CHARGE COMPUTED ON:


 PAY THIS
 AMOUNT



3557 TALLMADGE ROAD
 KENT, OHIO 44240
 (216) 325-0073
 (800) 628-0061

INVOICE

PAGE:

INVOICE DATE
 ANY TRANSACTIONS AFTER
 DATE WILL BE SHOWN ON Y
 NEXT BILLING

SERVICE ADDRESS: RAVENNA ARSENAL
 SERVICE PERIOD: SEPTEMBER SERVICE

ACCT. NO.

9343

NOZZLE NEW, INC
 34412 PETTIBONE RD
 SOLON OH 44139

MO. DAY YR.
 08/25/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1 1/2% PER MONTH.
 PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

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 AMOUNT ENCL

MO. DAY YR.	QTY.	DESCRIPTION	REFERENCE	CHARGES	PAYMENTS/CREDITS	BALANCE
				PREVIOUS BALANCE	→	0.00
08/16/91	20	LANDFILL FEES	15129			
08/16/91	20	COUNTY FEES IN-DISTR	15129			
08/16/91	18	LANDFILL FEES	15097			
08/16/91	18	COUNTY FEES IN-DISTR	15097			
08/16/91	16	LANDFILL FEES	15103			
08/16/91	16	COUNTY FEES IN-DISTR	15103			
08/16/91	20	LANDFILL FEES	15110			
08/16/91	20	COUNTY FEES IN-DISTR	15110			
08/16/91	18	LANDFILL FEES	15111			

NOTE: FRONTLOADERS & REARLOADERS & RENTAL
 AMOUNTS ARE FOR SEPT CHARGES. THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANC
	CONTINUED ON NEXT PAGE.....					

A & B REFUSE DISPOSERS, INC. • 3557 TALLMADGE ROAD • KENT, OHIO 44240 • (216) 325-0073 • (800) 628-0061
 FINANCE CHARGE COMPUTED ON:

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REFUSE DISPOSERS, INC.

3337 TALLMADGE ROAD
KENT, OHIO 44240
(216) 325-0073
(800) 628-0061

INVOICE

PAGE:

SERVICE ADDRESS: RAVENNA ARSENAL
SERVICE PERIOD: SEPTEMBER SERVICE

ACCT. NO.

9343

NOZZLE NEW, INC
34412 PETTIBONE RD
SOLON OH 44139

INVOICE DATE
ANY TRANSACTIONS A
DATE WILL BE SHOWN
NEXT BILLING

MO. DAY
08/25/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1 1/2% PER MONTH.
PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You.

MO. DAY YR.	QTY.	DESCRIPTION	REFERENCE
08/16/91	18	COUNTY FEES IN-DISTR	15111
08/16/91	20	LANDFILL FEES	15116
08/16/91	20	COUNTY FEES IN-DISTR	15116
08/16/91	18	LANDFILL FEES	15117
08/16/91	18	COUNTY FEES IN-DISTR	15117

		\$
CHARGES	PAYMENTS/CREDITS	AMOUNT EN
PREVIOUS BALANCE		BALAN

NOTE: FRONTLOADERS & REARLOADERS & RENTAL AMOUNTS ARE FOR SEPT CHARGES. THANK YOU.

STATUS OF YOUR ACCT. NO.

A & B REFU
FINA

DAYS | 0.00

KENT, OHIO 44240 • (216) 325-0073 • (800) 628-0061

Payment Due: 09/30/91

PAY THIS AMOUNT



3557 TALLMADGE ROAD
 KENT, OHIO 44240
 (216) 325-0073
 (800) 628-0061

INVOICE

PAGE: 1

SERVICE ADDRESS RAVENNA ARSENAL
 SERVICE PERIOD OCTOBER SERVICE

INVOICE DATE
 ANY TRANSACTIONS AFTER THIS
 DATE WILL BE SHOWN ON YOUR
 NEXT BILLING

ACCT. NO.

10276

NOVAC NEW INC
 34412 PETTIBONE RD
 COTON OH 44159

MO. DAY YR.
 10/18/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1.12% PER MONTH.
 PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

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 AMOUNT ENCLOSED

MO. DAY YR.	QTY	DESCRIPTION	RECEIVABLE	CHARGES	PAYMENTS/CREDITS	BALANCE
10/10/91		SET CONTAINER	6609			
10/15/91		SET CONTAINER	5748			
10/16/91		20-YD O/T HAULED	6700			
10/16/91	12	LANDFILL FEES	6700			
10/16/91		20-YD O/T HAULED	6782			
10/16/91	10	LANDFILL FEES	6782			
10/16/91		20-YD O/T HAULED	6783			
10/16/91	20	LANDFILL FEES	6700			
10/16/91		20-YD O/T HAULED	6655			

PLEASE INCLUDE ACCOUNT NUMBER WHEN PAYING.
 THANK YOU.

STATUS OF YOUR ACCT. CONTINUED ON NEXT PAGE.....	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANCE

B REFUSE DISPOSERS, INC. - 3557 TALLMADGE ROAD - KENT, OHIO 44240 - (216) 325-0073 - (800) 628-0061

FINANCE CHARGE COMPUTED ON:

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 AMOUNT



3557 TALLMADGE ROAD
 KENT, OHIO 44240
 (216) 325-0073
 (800) 628-0061

INVOICE

PAGE: 2

SERVICE ADDRESS: RAVENNA ARSENAL
 SERVICE PERIOD: OCTOBER SERVICE

INVOICE DATE
 ANY TRANSACTIONS AFTER
 DATE WILL BE SHOWN ON
 NEXT BILLING

ACCT. NO.

10270

WORLD NEW INC
 2412 PETTIBONE RD
 COLTON OH 44139

MO. DAY, YR
 10/18/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1.12% PER MONTH.
 PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

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 AMOUNT ENCL

MO. DAY YR.	QTY.	DESCRIPTION	REFERENCE
10/16/91	12	LANDFILL FEES	6090

CHARGES	PAYMENTS/CREDITS	BALANCE
PREVIOUS BALANCE		0

PLEASE INCLUDE ACCOUNT NUMBER WHEN PAYING.
 THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANCE
10270		0.00	0.00	0.00	0.00	

A & B REFUSE DISPOSERS, INC. · 3557 TALLMADGE ROAD · KENT, OHIO 44240 · (216) 325-0073 · (800) 628-0061

FINANCE CHARGE COMPUTED ON: 0.00

Due: 11/30/91

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3557 TALLMADGE ROAD
 KENT, OHIO 44240
 (216) 325-0073
 (800) 628-0061

INVOICE

PAGE: 1

SERVICE ADDRESS:
 SERVICE PERIOD: RAVENNA ARSENAL
 OCTOBER SERVICE

INVOICE DATE
 ANY TRANSACTIONS AFTER THIS
 DATE WILL BE SHOWN ON YOUR
 NEXT BILLING

ACCT. NO.

MO. DAY YR.
 10/25/91

10276

NOZZLE NEW INC
 34412 PETTIBONE RD
 SOLON OH 44139

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1 1/2% PER MONTH.
 PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

\$
 AMOUNT ENCLOSED

MO. DAY YR.	QTY.	DESCRIPTION	REFERENCE	CHARGES	PAYMENTS/CREDITS	BALANCE
PREVIOUS BALANCE →						2,605.
10/17/91		SET CONTAINER	DELIVERY			
10/17/91		SET CONTAINER	DELIVERY			
10/17/91		20-YD O/T HAULED	17799			
10/17/91		20-YD O/T HAULED	17212			
10/17/91		20-YD O/T HAULED	17211			
10/17/91		20-YD O/T HAULED	17213			
10/17/91	20	LANDFILL FEES	17799			
10/17/91	20	LANDFILL FEES	17212			
10/17/91	20	LANDFILL FEES	17211			

PLEASE INCLUDE ACCOUNT NUMBER WHEN PAYING.
 THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	OVERDUE
CONTINUED ON NEXT PAGE.....					

R D B REFUSE DISPOSERS, INC. · 3557 TALLMADGE ROAD · KENT, OHIO 44240 · (216) 325-0073 · (800) 628-0061
 FINANCE CHARGE COMPUTED ON:

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 PAY THIS
 AMOUNT



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 KENT, OHIO 44240
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INVOICE

PAGE:

2

SERVICE ADDRESS:

SERVICE PERIOD: RAVENNA ARSENAL
 OCTOBER SERVICE

ACCT. NO.

10276

NOZZLE NEW INC
 34412 PETTIBONE RD
 SOLON OH 44139

INVOICE DATE

ANY TRANSACTIONS AFTER T
 DATE WILL BE SHOWN ON YO.
 NEXT BILLING

MO. DAY YR.

10/25/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1 1/2% PER MONTH.

PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

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 AMOUNT ENCLD

MO. DAY YR.	QTY.	DESCRIPTION	REF. INCL	CHARGE S	PAYM T S/CREDITS	BALANCE
10/17/91	20	LANDFILL FEES	17213			
10/18/91		SPECIAL SERVICES	17021			

PLEASE INCLUDE ACCOUNT NUMBER WHEN PAYING.

THANK YOU STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANCE
10276			0.00	0.00	0.00	

A & B REFUSE DISPOSERS, INC. · 3557 TALLMADGE ROAD · KENT, OHIO 44240 · (216) 325-0073 · (800) 628-0061

FINANCE CHARGE COMPUTED ON:

0.00

Payment Due: 11/30/91

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 KENT, OHIO 44240
 (216) 325-0073
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PAGE: 1

SERVICE ADDRESS: RAVENNA ARSENAL
 SERVICE PERIOD: NOVEMBER SERVICE

INVOICE DATE
 ALL TRANSACTIONS AFTER THIS
 DATE WILL BE SHOWN ON YOUR
 NEXT BILLING

ACCT. NO.

9343

NOZZLE NEW, INC
 34412 PETTIBONE RD
 SOLON OH 44139

MO. DAY YR
 11/25/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1 1/2% PER MONTH.

PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

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 AMOUNT ENCL.

MO.	DAY	YR.	QTY.	DESCRIPTION	REFERENCE	DEBITS	PAYMENTS/CREDITS	BALANCE
						PREVIOUS BALANCE		0
11/18/91			18	LANDFILL FEES	18197			
11/18/91			18	COUNTY FEES OUT-DIST	18197			
11/18/91			18	LANDFILL FEES	18194			
11/18/91			18	COUNTY FEES OUT-DIST	18194			
11/18/91			18	LANDFILL FEES	18193			
11/18/91			18	COUNTY FEES OUT-DIST	18193			
11/18/91			18	LANDFILL FEES	18191			
11/18/91			18	COUNTY FEES OUT-DIST	18191			
11/18/91			18	LANDFILL FEES	18192			

Please include account number when paying.
 THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANC
CONTINUED ON NEXT PAGE.....						

A & B REFUSE DISPOSERS, INC. · 3557 TALLMADGE ROAD · KENT, OHIO 44240 · (216) 325-0073 · (800) 628-0061

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 KENT, OHIO 44240
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PAGE: 2

SERVICE ADDRESS: RAVENNA ARSENAL
 SERVICE PERIOD: NOVEMBER SERVICE

INVOICE DATE
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ACCT. NO.

9343

MO. DAY YR
 11/25/91

NOZZLE NEW, INC
 34412 PETTIBONE RD
 SOLON OH 44139

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1.2% PER MONTH.
 PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

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 AMOUNT ENCLD

MO. DAY YR.	QTY	DESCRIPTION	REFERENCE	DEBITS	PAYMENTS/CREDITS	BALANCE
				PREVIOUS BALANCE →		0
11/18/91	18	COUNTY FEES OUT-DIST	18192			
11/18/91	18	LANDFILL FEES	18185			
11/18/91	18	COUNTY FEES OUT-DIST	18185			
11/18/91	18	LANDFILL FEES	18188			
11/18/91	18	COUNTY FEES OUT-DIST	18188			
11/18/91	18	LANDFILL FEES	18186			
11/18/91	18	COUNTY FEES OUT-DIST	18186			
11/18/91	18	LANDFILL FEES	18181			
11/18/91	18	COUNTY FEES OUT-DIST	18181			

Please include account number when paying.
 THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANC.
CONTINUED	ON NEXT PAGE.....					

A & B REFUSE DISPOSERS, INC. - 3557 TALLMADGE ROAD - KENT, OHIO 44240 - (216) 325-0073 - (800) 628-0061

FINANCE CHARGE COMPUTED ON:

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3557 TALLMADGE ROAD
 KENT, OHIO 44240
 (216) 325-0073
 (800) 628-0061

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PAGE: 3

SERVICE ADDRESS: RAVENNA ARSENAL
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ACCT. NO.

9343

NOZZLE NEW, INC
 34412 PETTIBONE RD
 SOLON OH 44139

MO. DAY YR.
 11/25/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1.52% PER MONTH.
 PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

\$ AMOUNT ENCLOSED

MO. DAY YR.	QTY.	DESCRIPTION	REF. NO.	DEBIT	CREDITS	BALANCE
11/18/91	18	LANDFILL FEES		18176		
11/18/91	18	COUNTY FEES OUT-DIST		18176		
11/18/91	18	LANDFILL FEES		18177		
11/18/91	18	COUNTY FEES OUT-DIST		18177		
11/18/91	18	LANDFILL FEES		18180		
11/18/91	18	COUNTY FEES OUT-DIST		18180		
11/18/91	18	LANDFILL FEES		18182		
11/18/91	18	COUNTY FEES OUT-DIST		18182		
11/19/91	15	LANDFILL FEES		19443		
				PREVIOUS BALANCE		0

Please include account number when paying.
 THANK YOU.

STATUS OF YOUR ACCT. NO. CONTINUED	CURRENT ON NEXT PAGE.....	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANC.
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A & B REFUSE DISPOSERS, INC. · 3557 TALLMADGE ROAD · KENT, OHIO 44240 · (216) 325-0073 · (800) 628-0061
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3557 TALLMADGE ROAD
 KENT, OHIO 44240
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SERVICE ADDRESS: RAVENNA ARSENAL
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ACCT. NO.

9343

NOZZLE NEW, INC
 34412 PETTIBONE RD
 SOLON OH 44139

MO. DAY YR
 11/25/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1.12% PER MONTH.
 PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

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 AMOUNT ENCLD.

Q. DAY YR.	QTY.	DESCRIPTION	REF. NO.	CHARGES	PAYMENTS/CREDITS	BALANCE
11/19/91	15	COUNTY FEES OUT-DIST	19443			
11/19/91	18	LANDFILL FEES	19431			
11/19/91	18	COUNTY FEES OUT-DIST	19431			
11/19/91	18	LANDFILL FEES	19427			
11/19/91	18	COUNTY FEES OUT-DIST	19427			
11/19/91	18	LANDFILL FEES	18223			
11/19/91	18	COUNTY FEES OUT-DIST	18223			
11/19/91	18	LANDFILL FEES	18219			
11/19/91	18	COUNTY FEES OUT-DIST	18219			
PREVIOUS BALANCE ---						0

Please include account number when paying.
 THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANCE
CONTINUED	ON NEXT PAGE.....					

A & B REFUSE DISPOSERS, INC. - 3557 TALLMADGE ROAD - KENT, OHIO 44240 - (216) 325-0073 - 628-0061

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PAGE: 5

SERVICE ADDRESS: RAVENNA ARSENAL
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ACCT. NO.

9343

NOZZLE NEW, INC
 34412 PETTIBONE RD
 SOLON OH 44139

MO. DAY YR.
 11/25/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1 1/2% PER MONTH.
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Thank You

\$
 AMOUNT ENCLD.

MO.	DAY	YR.	QTY	DESCRIPTION	REFERENCE	CHARGE'S	PAYMENTS/CREDITS	BALANCE
11/19/91			18	LANDFILL FEES		18218		
11/19/91			18	COUNTY FEES OUT-DIST		18218		
11/19/91			18	LANDFILL FEES		18217		
11/19/91			18	COUNTY FEES OUT-DIST		18217		
11/19/91			18	LANDFILL FEES		18208		
11/19/91			18	COUNTY FEES OUT-DIST		18208		
11/19/91			18	LANDFILL FEES		18205		
11/19/91			18	COUNTY FEES OUT-DIST		18205		
11/19/91			18	LANDFILL FEES		18204		
						PREVIOUS BALANCE		0

Please include account number when paying.
 THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANCE
CONTINUED	ON NEXT PAGE.....					

A & B REFUSE DISPOSERS, INC. - 3557 TALLMADGE ROAD - KENT, OHIO 44240 - (216) 325-0073 - (800) 628-0061

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PAGE: 6

SERVICE ADDRESS: RAVENNA ARSENAL
 SERVICE PERIOD: NOVEMBER SERVICE

INVOICE DATE
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NOZZLE NEW, INC
 34412 PETTIBONE RD
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MO. DAY YR
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TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1.12% PER MONTH.
 PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

\$ AMOUNT ENCLOSED

NO.	DAY YR.	CITY	DESCRIPTION	REFERENCE	PAID	PAYMENTS/CREDITS	BALANCE
							0
11/19/91			18 COUNTY FEES OUT-DIST	18204			
11/19/91			18 LANDFILL FEES	18203			
11/19/91			18 COUNTY FEES OUT-DIST	18203			
11/19/91			18 LANDFILL FEES	18200			
11/19/91			18 COUNTY FEES OUT-DIST	18200			
11/19/91			18 LANDFILL FEES	18199			
11/19/91			18 COUNTY FEES OUT-DIST	18199			
11/19/91			18 LANDFILL FEES	18198			
11/19/91			18 COUNTY FEES OUT-DIST	18198			

Please include account number when paying.
 THANK YOU.

STATUS OF YOUR ACCT. NO.	CURRENT ON NEXT PAGE	30 DAYS	60 DAYS	90 DAYS	120 DAYS & OVER	NEW BALANCE
CONTINUED					

A & B REFUSE DISPOSERS, INC. 3557 TALLMADGE ROAD KENT, OHIO 44240 (216) 325-0073 (800) 628-0061

FINANCE CHARGE COMPUTED ON:

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3557 TALLMADGE ROAD.
 KENT, OHIO 44240
 (216) 325-0073
 (800) 628-0061

INVOICE

PAGE: 7

SERVICE ADDRESS RAVENNA ARSENAL
 SERVICE PERIOD NOVEMBER SERVICE

INVOICE DATE
 ALL TRANSACTIONS AFTER
 THIS DATE WILL BE SHOWN ON
 THE NEXT BILLING

ACCT. NO
 9343

NOZZLE NEW, INC
 34412 PETTIBONE RD
 SOLON OH 44139

MO. DAY YR.
 11/25/91

TERMS: DUE AND PAYABLE UPON RECEIPT. SUBJECT TO 1.5% PER MONTH.
 PLEASE DETACH HERE AND RETURN THIS PORTION WITH YOUR PAYMENT.

Thank You

\$ AMOUNT ENCLD

MO. DAY YR.	QTY	DESCRIPTION	AMOUNT	PAID	PAID	CREDITS	BALANCE
11/20/91	18	LANDFILL FEES	19440				
11/20/91	18	COUNTY FEES OUT-DIST	19440				
11/20/91	18	LANDFILL FEES	19445				
11/20/91	18	COUNTY FEES OUT-DIST	19445				
11/20/91	18	LANDFILL FEES	19446				
11/20/91	18	COUNTY FEES OUT-DIST	19446				

Please include account number when paying.
 THANK YOU.

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60 DAYS	90 DAYS
0.00	0.00

KENT, OHIO 44240 (216) 325-0073

Payment Due: 12/31/91

▲
 PAY THIS AMOUNT

Richard F. Celeste
Governor

STATE OF OHIO
DEPARTMENT OF COMMERCE
DIVISION OF STATE FIRE MARSHAL
8895 East Main St., Reynoldsburg, OH 43068

Nappy M. Hetzler
Director

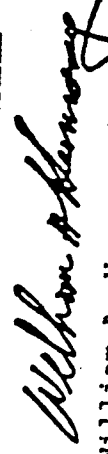
UNDERGROUND STORAGE TANK INSTALLER
CERTIFICATE

CERTIFICATE NUMBER: 90 - *57 VALID: August 6, 1990 through August 5, 1991

This is to certify that the below named person does hereby meet the requirements pursuant to Section 3737.881 of the Ohio Revised Code for installing, repairing, abandoning and removing underground storage tanks in Ohio.

STEVEN MICHAEL SLAGLE
NOZZLE NEW CO INC
34412 PETTIBONE
SOLON OH 44139

NON-TRANSFERABLE



William A. Hennosy, State Fire Marshal

APPENDIX D

NOZZLE NEW CERTIFICATION

DIVISION OF STATE FIRE MARSHAL

Nancy S. Chiles, Director

Bureau of Underground Storage Tank Regulations

7510 East Main Street * PO BOX 525 * Reynoldsburg OH 43068-3395

(614) 752-7011 (In Ohio Only: 800-686-2878)

01/08/90

Dear Tank Installer:

Congratulations, you have completed the renewal requirements for UST installer certification, and a renewal certificate is being issued in your name.

Attached below is a temporary certificate for your use until we receive permanent certificates from our printer. A photocopy of this temporary certificate may be used to meet the requirements of rule 1301.7-9-11 of the Administrative Code which requires that an installer have the certificate available for inspection. Permanent certificates will be mailed as soon as they arrive.

Your renewal certificate is valid for one year.

Any questions regarding certification should be directed to the Release Prevention section at the Bureau of Underground Storage Tank Regulations.

Very Truly Yours

Mike Nimocks
Section Manager
Release Prevention

Cut Here

George V. Voinovich
Governor

STATE OF OHIO
DEPARTMENT OF COMMERCE
DIVISION OF STATE FIRE MARSHAL
8895 East Main St., Reynoldsburg, OH 43068

Nancy S. Chiles
Director

UNDERGROUND STORAGE TANK INSTALLER
CERTIFICATE

CERTIFICATE NUMBER: 91 - 160 VALID: 01/08/91 through 01/08/92

This is to certify that the below named person does hereby meet the requirements pursuant to Section 3737.881 of the Ohio Revised Code for installing, repairing, abandoning and removing underground storage tanks in Ohio.

PHILIP CHARLES MAREK
NOZZLE NEW INC
34412 PETTIBONE RD
SOLON OH 44139

NON-TRANSFERABLE

William A. Hennosy
William A. Hennosy, State Fire Marshal

George V. Voinovich
Governor

Nancy S. Chiles
Director

STATE OF OHIO
DEPARTMENT OF COMMERCE
DIVISION OF STATE FIRE MARSHAL

**UNDERGROUND STORAGE TANK INSTALLER
CERTIFICATE**

Issued To

STEVEN M. SLAGLE

This is to certify that the above named person does hereby meet the requirements pursuant to Section 3737.881 of the Ohio Revised Code for installing, repairing, abandoning and removing underground storage tanks in Ohio.

Installer ID: 10-90-1257

Date Issued: 08/16/91

Date of Expiration: 08/06/92

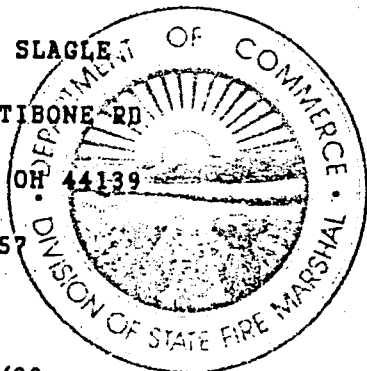
James J. McNamee

Fire Marshal

COM 5206

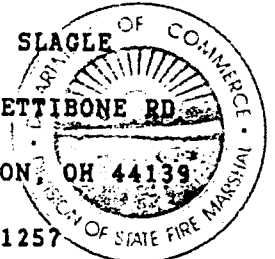
State of Ohio
Department of Commerce
Division of State Fire Marshal
UST INSTALLER CERTIFICATION

Name: **STEVEN M. SLAGLE**
Address: **34412 PETTIBONE RD**
City, State, Zip: **SOLON, OH 44139**
Installer ID: **10-90-1257**
Date Issued: **08/16/91**
Date of Expiration: **08/06/92**



State of Ohio
Department of Commerce
Division of State Fire Marshal
UST INSTALLER CERTIFICATION

Name: **STEVEN M. SLAGLE**
Address: **34412 PETTIBONE RD**
City, State, Zip: **SOLON, OH 44139**
Installer ID: **10-90-1257**
Date of Expiration: **08/06/92**



Detach this wallet card and carry with you for personal record.

Detach for your records.

George V. Voinovich
Governor

Nancy S. Chiles
Director

STATE OF OHIO
DEPARTMENT OF COMMERCE
DIVISION OF STATE FIRE MARSHAL

UNDERGROUND STORAGE TANK INSTALLER CERTIFICATE

Issued To

PHILIP C. MAREK

This is to certify that the above named person does hereby meet the requirements pursuant to Section 3737.881 of the Ohio Revised Code for installing, repairing, abandoning and removing underground storage tanks in Ohio.

Installer ID: 10-89-0160

Date Issued: 01/02/92

Date of Expiration: 01/08/93

James J. McNamee

Fire Marshal

COM 5206

State of Ohio
Department of Commerce
Division of State Fire Marshal
UST INSTALLER CERTIFICATION

Name: PHILIP C. MAREK
Address: 34412 PETTIBONE RD
City, State, Zip: SOLON, OH 44139
Installer ID: 10-89-0160
Date Issued: 01/02/92
Date of Expiration: 01/08/93

State of Ohio
Department of Commerce
Division of State Fire Marshal
UST INSTALLER CERTIFICATION

Name: PHILIP C. MAREK
Address: 34412 PETTIBONE RD
City, State, Zip: SOLON, OH 44139
Installer ID: 10-89-0160
Date of Expiration: 01/08/93

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