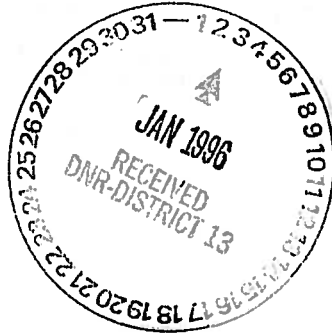


LETTER OF TRANSMITTAL

TO: Mr. Terry Hiske
 MDEQ-USTD
 Jackson Office
 301 E. Louis Glick Hwy.
 Jackson, MI 49201



DATE: December 26, 1995
 PROJECT NO.: 13-5000-R2
 CLIENT'S PROJECT NO.:
 RE: UST Closure

WE ARE SENDING YOU:

- | | | | |
|---|-----------------------------------|---|---|
| <input checked="" type="checkbox"/> REPORTS | <input type="checkbox"/> ATTACHED | <input type="checkbox"/> UNDER SEPARATE COVER VIA | THE FOLLOWING: |
| <input type="checkbox"/> COPY OF LETTER | <input type="checkbox"/> PRINTS | <input type="checkbox"/> PRINTS | <input type="checkbox"/> SPECIFICATIONS |
| | <input type="checkbox"/> PLANS | <input type="checkbox"/> OTHER | |

COPIES	NO.	DATE	DESCRIPTION
1			Initial Assessment Report for: Ann Arbor City Garage 721 N. Main Street Ann Arbor, MI 48104

THESE ARE TRANSMITTED AS CHECKED BELOW:

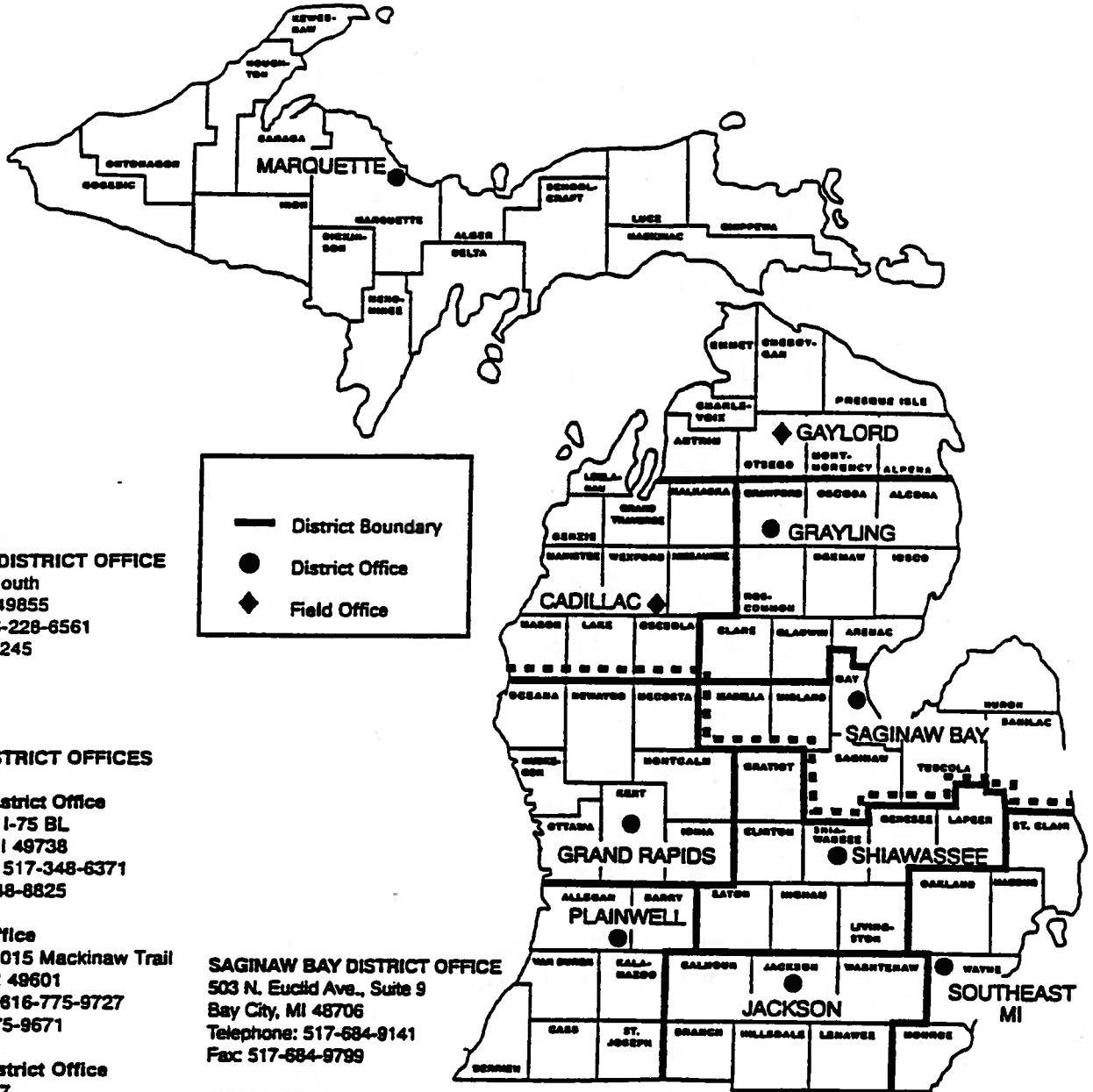
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| <input type="checkbox"/> FOR APPROVAL | <input type="checkbox"/> APPROVAL AS SUBMITTED | <input type="checkbox"/> RESUBMIT <input type="checkbox"/> COPIES FOR APPROVAL |
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| <input type="checkbox"/> AS REQUESTED | <input type="checkbox"/> RETURN FOR CORRECTIONS | <input type="checkbox"/> RETURN <input type="checkbox"/> CORRECTED PRINTS |
| <input checked="" type="checkbox"/> REVIEW AND COMMENT | <input type="checkbox"/> DISAPPROVED | <input type="checkbox"/> FOR RELEASE TO BIDDERS |

REMARKS: Please note that corrective action for this release will be dovetailed into the corrective action plan for other/previous releases at the site.

COPY TO:

BY: *D. Nona*
 D. Nona

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK DIVISION**



	District Boundary
	District Office
	Field Office

MARQUETTE DISTRICT OFFICE
1990 U.S. 41 South
Marquette, MI 49855
Telephone: 906-228-6561
Fax: 906-228-5245

GRAYLING DISTRICT OFFICES

Grayling District Office
1955 North I-75 BL
Grayling, MI 49738
Telephone: 517-348-6371
Fax: 517-348-8825

Cadillac Office
Route #1, 8015 Mackinaw Trail
Cadillac, MI 49601
Telephone: 616-775-9727
Fax: 616-775-9671

Gaylord District Office
P.O. Box 667
Gaylord, MI 49735
Telephone: 517-732-3541
Fax: 517-732-0794

SAGINAW BAY DISTRICT OFFICE
503 N. Euclid Ave., Suite 9
Bay City, MI 48706
Telephone: 517-684-9141
Fax: 517-684-9799

SHIAWASSEE DISTRICT OFFICE
10650 Bennett Drive
Morrice, MI 48857-9792
Telephone: 517-625-4800
Fax: 517-625-5000

GRAND RAPIDS DISTRICT OFFICE
350 Ottawa Street, N.W.
Grand Rapids, MI 49503
Telephone: 616-456-5071
Fax: 616-456-1239

SOUTHEAST MI DISTRICT OFFICE
38980 Seven Mile Road
Livonia, MI 48152
Telephone: 313-953-0241
Fax: 313-953-0243

JACKSON DISTRICT OFFICE
301 E. Louis Glick Highway
Jackson, MI 49201
Telephone: 517-780-7900
Fax: 517-780-7855

DIVISION HEADQUARTERS
Michigan Dept. of Natural Resources
Underground Storage Tank Division
333 S. Capitol Avenue
P.O. Box 30157
Lansing, MI 48909-7657
Telephone: 517-373-8168
Fax: 517-335-2245

PLAINWELL DISTRICT OFFICE
1342 SR-89, Suite B
Plainwell, MI 49080-1915
Telephone: 616-692-2120
Fax: 616-692-3050

**FOR REPORTING UNDERGROUND STORAGE
TANK RELEASES (anytime)
1-800-MICH-UST**

**FOR POLLUTION EMERGENCY (after hours)
1-800-292-4706**

TABLE OF CONTENTS

SECTION	TITLE	PAGE
	COVER SHEET	
	FACILITY AND OWNER OR OPERATOR INFORMATION	
	SITE QUESTIONS	
	REPORT CERTIFICATION	
	MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - UST DISTRICT OFFICES AND CONTACTS	2 of 24
	TABLE OF CONTENTS	3 of 24
	LIST OF ATTACHMENTS	4 of 24
1.0	IMMEDIATE RESPONSE TO SPILLS AND RELEASES	5 of 24
1.1	REPORTING AND RESPONSE TO RELEASES	5 of 24
1.2	REPORTING AND RESPONSE TO RELEASES INVOLVING FREE PRODUCT	7 of 24
2.0	SITE CHARACTERIZATION INFORMATION	10 of 24
2.1	SITE AND AREA MAPS	10 of 24
2.2	SOIL CONDITIONS AND CHARACTERISTICS	10 of 24
2.3	GROUNDWATER CONDITIONS AND CHARACTERISTICS	12 of 24
2.4	CONDITIONS AND CHARACTERISTICS IN OTHER ENVIRONMENTAL MEDIA	15 of 24
3.0	SITE CLASSIFICATION	17 of 24
4.0	RESULTS OF THE TIER I OR TIER II EVALUATION	19 of 24
4.1	EXPOSURE PATHWAY CHARACTERIZATION	19 of 24
4.2	OPTIONAL TIER II EVALUATION	21 of 24
4.3	IDENTIFICATION OF TIER I RISK-BASED SCREENING LEVELS OR TIER II SITE-SPECIFIC TARGET LEVELS AND COMPARISON TO SITE DATA	22 of 24
4.4	PROPOSED FOLLOW-UP ACTIVITIES	23 of 24
5.0	WORK PLAN FOR FURTHER SITE CHARACTERIZATION AND ASSESSMENT ACTIVITY	24 of 24

LIST OF ATTACHMENTS

(Include as Required and Check Box if Attached)

ATTACHMENT NUMBER	DESCRIPTION
----------------------	-------------

- | | | |
|----|-------------------------------------|---|
| 1 | <input checked="" type="checkbox"/> | Site Map Showing Extent of Remaining Free Product |
| 2 | <input type="checkbox"/> | Free Product Recovery System Schematic |
| 3 | <input checked="" type="checkbox"/> | Area Map Showing Site Boundaries in Relation to Nearby Area |
| 4 | <input checked="" type="checkbox"/> | Site Map Highlighting Principal Physical Features and Sampling Locations |
| 5 | <input type="checkbox"/> | Schedule for Delineation of Off-Site Soil Impacts |
| 6 | <input checked="" type="checkbox"/> | Field Screening Results Table for Soils |
| 7 | <input checked="" type="checkbox"/> | Laboratory Results Table for Soils |
| 8 | <input checked="" type="checkbox"/> | Tier I RBSL / Tier II SSTL Comparison Table for Soils |
| 9 | <input checked="" type="checkbox"/> | Site Map Showing Soil Sampling Locations, Maximum Contaminant Concentrations, and Sampling Depths |
| 10 | <input type="checkbox"/> | Site Map(s) Showing Vertical and Horizontal Distribution of Contaminants in Soil |
| 11 | <input type="checkbox"/> | Cross Sections Showing the Vertical and Horizontal Distribution of Soil Contaminants |
| 12 | <input checked="" type="checkbox"/> | Soil Boring Logs |
| 13 | <input checked="" type="checkbox"/> | Well Construction Diagrams |
| 14 | <input checked="" type="checkbox"/> | Groundwater Flow Map Showing Water Level Measurement Locations |
| 15 | <input type="checkbox"/> | Description of Hydrogeologic Factors That Could Influence Groundwater Flow |
| 16 | <input type="checkbox"/> | Schedule for Delineation of Off-Site Groundwater Impacts |
| 17 | <input type="checkbox"/> | Field Screening Results Table for Groundwater |
| 18 | <input checked="" type="checkbox"/> | Laboratory Results Table for Groundwater (Including Time Series Presentation) |
| 19 | <input checked="" type="checkbox"/> | Tier I RBSL / Tier II SSTL Comparison Table for Groundwater |
| 20 | <input checked="" type="checkbox"/> | Site Map Showing Groundwater Sampling Locations and Maximum Contaminant Concentrations |
| 21 | <input type="checkbox"/> | Cross Sections Showing the Vertical and Horizontal Distribution of Groundwater Contaminants |
| 22 | <input type="checkbox"/> | Presentation of Time Series Groundwater Results |
| 23 | <input type="checkbox"/> | Schedule for Delineation of Off-Site Impacts in Other Media |
| 24 | <input type="checkbox"/> | Field Screening Results Tables for Other Media |
| 25 | <input type="checkbox"/> | Laboratory Results Tables for Other Media |
| 26 | <input type="checkbox"/> | Tier I RBSL / Tier II SSTL Comparison Tables for Other Media |
| 27 | <input type="checkbox"/> | Site Map Showing Sampling Locations and Maximum Contaminant Concentrations for Other Media |
| 28 | <input type="checkbox"/> | Calculations Supporting the Tier II SSTLs and Evaluation |
| 29 | <input type="checkbox"/> | Work Plan for Further Site Characterization and Assessment Activity |

I. List the underground storage tanks at this facility and identify the tank(s) associated with this release by placing an "X" in the "LUST" column. (Complete the last two columns for the LUST entries only):

TANK ID NUMBER	CONTENTS (Regulated Substances) - Specify grade if gasoline -		LUST?	HAS THE TANK BEEN EMPTIED?	HAS THE TANK BEEN REMOVED?
	(As Registered)	At Time of Release			
3	DIESEL FUEL	DIESEL FUEL	YES	YES 06/16/95	No

J. If "No" was specified in either of the last two columns for any leaking underground storage tank, provide an explanation below: THE UST WAS CLOSED IN-PLACE, AFTER CLEANING, BY FILLING IT WITH CEMENT GROUT ON 06-16-95.

K. What initial response actions were performed at this site?

PURPOSE OF INITIAL RESPONSE ACTIONS	WERE ACTIONS TAKEN? (Yes/Date or No)	IF "Yes", DESCRIBE THE ACTIONS TAKEN AND THEIR RESULTS. IF "No", INDICATE WHY NOT.
To identify and mitigate fire, explosion and vapor hazards (e.g., relating to free product, vapors in nearby buildings) [324.21307(2)(a)] [324.21307(2)(c)(iii)]	No	NO FIRE, EXPLOSION OR VAPOR HAZARDS
To prevent further release and migration into the soil or groundwater, including removing product from the UST [324.21307(2)(b)] [324.21307(2)(c)(i) and (ii)]	YES 06/16/95	TANK EMPTIED + CLOSED IN-PLACE.
To excavate and contain, treat, or dispose of visibly contaminated soil above the water table that are likely to cause a fire hazard or spread and increase the cost of corrective action [324.21307(2)(d)]	No	CONTAMINATED SOIL ENCOUNTERED WAS NOT LIKELY TO CAUSE A FIRE HAZARD. OR SPREAD + INCREASE COST OF CORRECTIVE ACTION

1.0 IMMEDIATE RESPONSE TO SPILLS AND RELEASES

1.1 REPORTING AND RESPONSE TO RELEASES

A. Date and Time Release Discovered: 06 / 16 / 195 11:00 (AM) / PM
B. Date and Time Release Reported: 06 / 16 / 195 11:35 (AM) / PM

C. From what portion of the underground storage tank system did the release occur or is the release believed to have likely occurred?

- Piping
- Underground storage tank
- Overfill of underground storage tank (delivery of fuel from supplier)
- Other (Specify): _____

D. Briefly describe how the release was discovered: VISUAL + OLFACTORY EVIDENCE OF A RELEASE WERE NOTED IN THE SOILS REMOVED TO EXPOSE THE TANK. IN ADDITION, SEVERAL HOLES WERE EVIDENT IN THE BOTTOM OF THE TANK.

E. Has there been tank tightness testing performed in response to this release? (If data is not available, answer "No".) Yes No

If "Yes", complete questions F, G and H; otherwise skip to question I.

F. Date of the testing: _____ / _____ / _____

G. Method of testing: _____

H. Results of the testing: _____

PURPOSE OF INITIAL RESPONSE ACTIONS	WERE ACTIONS TAKEN? (Yes/Date or No)	IF "Yes", DESCRIBE THE ACTIONS TAKEN AND THEIR RESULTS. IF "No", INDICATE WHY NOT.
To abate an immediate threat to public health, safety, or welfare, or the environment [324.21307(2)(e)]	No	NO IMMEDIATE THREAT TO PUBLIC HEALTH, SAFETY OR WELFARE OR THE ENVIRONMENT

L. Has free product ever been discovered as a result of the release? Yes No

NOTE: If "No", skip to Section 2.0; if "Yes", complete questions "M" through "S":

M. Date and Time Free Product Was Discovered: 04 / 25 / 95 10:30 AM / PM

N. Date and Time Free Product Fax Transmittal Sheet Submitted: 04 / 26 / 95 4:04 AM PM

O. Has there ever been free product in the on-site or off-site soils? Yes No

P. Is there currently free product in the on-site or off-site soils? Yes No

Q. Is there currently free product in or around buried underground utilities? Yes No

R. Has there ever been free product on/in the groundwater? Yes No

S. Is there currently free product on/in the groundwater? Yes No

1.2 REPORTING AND RESPONSE TO RELEASES INVOLVING FREE PRODUCT

A. What initial response actions were performed at this site to address the presence of free product?

PURPOSE OF INITIAL RESPONSE ACTIONS	WERE ACTIONS TAKEN? (Yes/Date or No)	IF "Yes", DESCRIBE THE ACTIONS TAKEN AND THEIR RESULTS. IF "No", INDICATE WHY NOT.
To identify the presence of free product [324.21307(2)(c)]	YES, 6" FREE PRODUCT WAS DISCOVERED IN MW-4 ON 04-25-95	AT THAT TIME, DIESEL FUEL TANK WAS NOT KNOWN TO EXIST. FREE PRODUCT WAS BELIEVED TO BE RELATED TO OTHER PREVIOUS RELEASES.
To recover free product in a manner that minimizes the spread of contamination into previously uncontaminated zones [324.21307(2)(c)(i)]	YES, 6-16-95 11-28-95 11-30-95 12-4-95 12-6-95	RECOVERED APPROX 1/2 GAL FREE PRODUCT RECOVERED APPROX 1 GAL FREE PRODUCT REMOVED APPROX 20Z FREE PRODUCT REMOVED APPROX 80Z FREE PRODUCT REMOVED APPROX 60Z FREE PRODUCT
To utilize recovery and disposal techniques appropriate to site conditions [324.21307(2)(c)(i)]	YES, 11-28-95 →	FREE PRODUCT STORED ON-SITE IN A DRUM PENDING PROPER DISPOSAL

PURPOSE OF INITIAL RESPONSE ACTIONS	WERE ACTIONS TAKEN? (Yes/Date or No)	IF "Yes", DESCRIBE THE ACTIONS TAKEN AND THEIR RESULTS. IF "No", INDICATE WHY NOT.
To properly treat recovery by-products as required by law (identify the type of treatment applied and the expected effluent quality) [324.21307(2)(c)(i)]	N/A	
To properly discharge recovery by-products as required by law (identify the location of all on-site and off-site discharge points and all steps taken to obtain necessary permits) [324.21307(2)(c)(iv)]	N/A	
To properly dispose of recovery by-products as required by law [324.21307(2)(c)(i)]	No,	PRODUCT CURRENTLY STORED ON-SITE IN A DRUM, AWAITING PROPER DISPOSAL
To handle any flammable products in a safe and competent manner to prevent fires and explosions [324.21307(2)(c)(iii)]	YES	PRODUCT RECOVERED AWAY FROM SPARKS OR FLAMES

B. Complete the following table relating to free product recovery:

LOCATION OF OBSERVED FREE PRODUCT (Specify ID No.)	THICKNESS OF FREE PRODUCT OBSERVED (nearest 1/8")	TYPE OF FREE PRODUCT OBSERVED	LNAPL OR DNAPL*?	QUANTITY OF FREE PRODUCT RECOVERED (gallons)
IN WELLS				
MW-4 04-25-95	6.00 INCHES	UNKNOWN	LNAPL	0
MW-4 06-16-95	NOT RECORDED	DIESEL FUEL	LNAPL	≈ 1/2 GAL
MW-4 09-05-95	7.56 INCHES	DIESEL FUEL	LNAPL	0
MW-4 11-28-95	2.64 INCHES	DIESEL FUEL	LNAPL	≈ 1 GAL
MW-4 11-30-95	0.72 INCHES	DIESEL FUEL	LNAPL	≈ 2 OZ
MW-4 12-4-95	1.80 INCHES	DIESEL FUEL	LNAPL	≈ 8 OZ
MW-4 12-6-95	1.20 INCHES	DIESEL FUEL	LNAPL	≈ 8 OZ
IN EXCAVATIONS				
IN WELLS				
MW-4 12-8-95	NONE	—	—	—
MW-4 12-11-95	NONE	—	—	—
MW-4 12-22-95	NONE	—	—	—

LOCATION OF OBSERVED FREE PRODUCT (Specify ID No.)	THICKNESS OF FREE PRODUCT OBSERVED (nearest 1/8")	TYPE OF FREE PRODUCT OBSERVED	LNAPL OR DNAPL*?	QUANTITY OF FREE PRODUCT RECOVERED (gallons)
OTHER LOCATIONS (Specify)				
N/A				
TOTAL FREE PRODUCT RECOVERED TO DATE				1.65 GAL

*LNAPL = Light Non-Aqueous Phase Liquid; DNAPL = Dense Non-Aqueous Phase Liquid

C. Has the extent of any remaining free product been defined? N/A Yes No
D. If "Yes", include the extent of the remaining free product on the site map included as Attachment 1.

E. Describe the free product recovery system that was or is being used or is proposed
(Include a schematic as Attachment 2 if appropriate): PRODUCT WAS RECOVERED FROM MW-4 USING A BOTTOM FILLING BAILER

F. If "proposed", what is the planned installation date? / /

G. Has the recovered free product been properly disposed? Yes No

H. If "No", provide an explanation: THE RECOVERED FREE PRODUCT IS CURRENTLY BEING STORED ON-SITE IN A DRUM, PENDING PROPER DISPOSAL.

I. Provide the name of the person or persons responsible for implementing the free product removal measures:

Company Name NTH CONSULTANTS, LTD
Company Address 38955 HILLS TECH DRIVE
FARMINGTON HILLS, MI 48331-3432

Company Telephone No. (810) 553-6300
Contact Person CLIFF ANDREWS OR JOE SULLIVAN
Contact Telephone No. (810) 553-6300

D. Describe steps that have been taken, or will be taken, to secure access to off-site properties, including easements and right-of-ways, to complete the delineation of the extent of the off-site impact of the release to soil: N/A

STEPS TAKEN OR PLANNED TO SECURE ACCESS TO OFF-SITE PROPERTIES	OFF-SITE PROPERTY OWNER'S NAME	OFF-SITE PROPERTY OWNER'S ADDRESS

E. Provide the schedule for completing the delineation of the extent of the off-site impact of the release to soil (indicate here or include as Attachment No. 5): N/A CONTAMINATION DOES NOT APPEAR TO EXTEND OFF-SITE.

F. Attach Field Screening Results (Attachment No. 6) and Laboratory Results (Attachment No. 7) tables showing the results of all soil sampling performed to date for the listed parameters. (NOTE: The USTED may request copies of the laboratory data sheets, chain-of-custody forms, and all available QA/QC information.)

G. Provide in the Comparison Table for Soils (Attachment No. 8) the maximum contaminant concentrations detected to date in all soils for each listed parameter. (NOTE: Enter "ND" with the appropriate method detection limit when the parameter was not detected, and enter "NA" when the chemical was not analyzed. In areas where remediation has occurred, do not include sample results for areas where the soil has been subsequently removed or the characteristics of the soil left in place have been altered due to the remediation.)

H. Show the maximum concentrations, sample depths, and estimated horizontal extent of contamination in relation to the soil sampling locations on the site map included as Attachment No. 9.

I. Describe the estimated vertical extent and distribution of the soil contaminants using depth-coded site maps (Attachment No. 10), cross sections (Attachment No. 11), and/or boring logs (Attachment No. 12): CONTAMINATION IS GENERALLY LIMITED TO THE AREA IMMEDIATELY AROUND THE UST TO AN ESTIMATED DEPTH OF 8'

J. If there is known soil contamination not related to the release, complete the following:

ON-SITE CONTAMINANTS NOT RELATED TO THE RELEASE	SOURCE OF THIS CONTAMINATION (If Known)	LOCATION OF THIS CONTAMINATION
GASOLINE	PREVIOUSLY REMOVED LUST	WEST OF DIESEL FUEL UST
GASOLINE AND/OR DIESEL FUEL	UNDERGROUND PIPING LEAK	NEAR SE CORNER OF MAIN BLDG

2.3 GROUNDWATER CONDITIONS AND CHARACTERISTICS

A. Has groundwater been encountered at the site? Yes No

B. If "No", provide the total depth investigated and the date of investigation:

Depth of Investigation: _____ ft BGS

Date of Investigation: _____ / _____ / _____

If "No", skip to Section 2.4; if "Yes", continue with Section 2.3.

C. Is the groundwater potable? Yes No

D. Is the groundwater currently a source of drinking water? Yes No

E. Is groundwater being used for a purpose other than potable drinking use? Yes No

F. Is more than one groundwater unit present beneath the site? Yes No

Unknown

Hydrogeologic Characteristics (if appropriate and where available):

G. Average depth to groundwater (as measured in site well(s)): 4.86 ft BGS

H. Depth to bottom of water-bearing layer: 15-20 ft BGS

I. Depth to a potable groundwater unit: UNKNOWN ft BGS

J. Attach copies of boring logs (Attachment No. 12) and well construction diagrams (Attachment No. 13) for all monitoring wells.

Groundwater Flow Rate and Direction:

- K. Predominant soil type in water-bearing stratum (e.g., sand, silt): SILT SAND + GRAVEL
L. Effective porosity of water-bearing stratum: .39 cm³ void / cm³ soil
M. Hydraulic conductivity (measured estimated): 4.20 x 10⁻³ cm/sec
N. Lateral hydraulic flow gradient (attach a site map with groundwater flow direction and elevation data as Attachment No. 14 - USGS datum preferred): 1.93 x 10⁻² ft/ft to SOUTHEAST (direction)
O. Effective groundwater flow rate: 215.30 ft/yr

P. Identify hydrogeologic conditions that could influence flow direction (describe here or attach description as Attachment No. 15):

- PRESENCE OF ALLEN CREEK DRAIN STORM SEWER
- PRESENCE OF VARIOUS UNDERGROUND UTILITIES + SEWERS ON-SITE
- PRESENCE OF UNPAVED AREAS ON PROPERTY WHICH REPRESENT POTENTIAL RECHARGE ZONES AFTER PRECIPITATION

Q. Is there any indication of a vertical flow gradient? Yes No

R. If "Yes", describe: _____

S. Has the groundwater quality been affected by the release? Yes No

If "No", skip to Section 2.4; if "Yes", continue with Section 2.3.

T. Has the groundwater quality in more than one groundwater unit been affected by the release? Yes No

U. Describe any groundwater remediation activities performed to date: NONE FOR THIS RELEASE.

A PUMP TEST WAS CONDUCTED AT THE SITE AS PART OF A PILOT STUDY FOR OTHER/PREVIOUS RELEASES AT THE SITE

V. Total volume of groundwater remediated to date: 0 gallons FOR THIS RELEASE

W. Does the known plume currently extend off-site?

- Yes No
 Unknown

X. Describe steps that have been taken, or will be taken, to secure access to off-site properties, including easements and right-of-ways, for the purpose of completing the delineation of the extent of the release to groundwater: N/A

STEPS TAKEN OR PLANNED TO SECURE ACCESS TO OFF-SITE PROPERTIES	OFF-SITE PROPERTY OWNER'S NAME	OFF-SITE PROPERTY OWNER'S ADDRESS

Y. Provide the schedule for completing the delineation of the extent of the off-site impact of the release to groundwater (indicate here or include as Attachment No. 16): _____

Z. Attach Field Screening Results (Attachment No. 17) and Laboratory Results (Attachment No. 18) tables showing the results of all groundwater sampling performed to date for the listed parameters. (NOTE: The USTD may request copies of the laboratory data sheets, chain-of-custody forms, and all available QA/QC information.)

AA. Provide in the Comparison Table for Groundwater (Attachment No. 19) the maximum contaminant concentrations detected to date in the on-site or off-site groundwater for each listed parameter. (NOTE: Enter "ND" with the appropriate method detection limit when the parameter was not detected, and enter "NA" when the chemical was not analyzed.)

BB. Show the maximum concentrations and the estimated aerial horizontal extent of the contaminated plume in relation to the groundwater sampling locations on the site map and include as Attachment No. 20.

CC. Describe the estimated vertical extent and distribution of the groundwater contaminants using depth-coded cross sections (Attachment No. 21) that show screened intervals of the monitoring wells. Cross sections locations should be included on the site map: THE ONLY GROUNDWATER CONTAMINATION FOR THIS RELEASE WAS FOUND IN THE EXCAVATION + AT MW-4

DD. Were multiple groundwater sampling events conducted at the site? Yes No

EE. If "Yes", include a chronological summary of the results for each sampling location using the data tables provided in Attachment No. 18 and include as Attachment No. 22.

2.4 CONDITIONS AND CHARACTERISTICS IN OTHER ENVIRONMENTAL MEDIA

A. Is contamination present in any environmental media other than soil or groundwater? Yes No

NOTE: If "Yes", complete this Section; if "No", skip to Section 3.0.

B. What other environmental media were investigated as part of this corrective action?
(Check all that apply):

- Air
- Surface Water
- Sediments
- Biota
- Other (Specify): _____

NOTE: For each environmental media checked, answer questions "C" through "K".

C. Total volume of each of the other specified media remediated or disposed to date (Specify units): _____

D. Describe any remediation, treatment or disposal activities performed to date relative to each of the other specified media: _____

E. Describe steps that have been taken, or will be taken, to secure access to off-site properties, including easements and right-of-ways, to complete the delineation of the extent of the off-site impact of the release to the other specified environmental media:

STEPS TAKEN OR PLANNED TO SECURE ACCESS TO OFF-SITE PROPERTIES	OFF-SITE PROPERTY OWNER'S NAME	OFF-SITE PROPERTY OWNER'S ADDRESS

F. Provide the schedule for completing the delineation of the extent of the off-site impact of the release to the other specified environmental media (*indicate here or include as Attachment No. 23*): _____

G. Attach Field Screening Results (Attachment No. 24) and Laboratory Results (Attachment No. 25) tables showing the results of all sampling performed to date for the listed parameters in the other specified environmental media. (*NOTE: The USTD may request copies of the laboratory data sheets, chain-of-custody forms, and all available QA/QC information.*)

H. Provide in the Comparison Table for Other Environmental Media (Attachment No. 26) the maximum contaminant concentrations detected to date in each other specified environmental media for each listed parameter. (*NOTE: Enter "ND" with the appropriate method detection limit when the parameter was not detected, and enter "NA" when the chemical was not analyzed.*)

In areas where remediation has occurred, do not include sample results for areas where the material has been subsequently removed or the characteristics of the material left in place have been altered due to the remediation.)

I. Show the maximum concentrations, sample depths, and estimated extent of contamination in the other specified environmental media (as appropriate) in relation to the sampling locations on the site map included as Attachment No. 27.

J. Describe the extent and distribution of the contaminants in the other specified media: _____

K. If there is known contamination in the other specified media not related to the release, complete the following:

ON-SITE CONTAMINANTS NOT RELATED TO THE RELEASE	SOURCE OF THIS CONTAMINATION (If Known)	LOCATION OF THIS CONTAMINATION

3.0 SITE CLASSIFICATION

A. Indicate the current Site Classification Level (See Attachment No. 10 of the "Guidance Document for Risk-Based Corrective Action at Leaking Underground Storage Tanks"):

- Class 1: Immediate threat to human health, safety, or sensitive environmental receptors
- Class 2: Short-term threat to human health, safety, or sensitive environmental receptors
- Class 3: Long-term threat to human health, safety, or sensitive environmental receptors
- Class 4: No demonstrable long-term threat to human health, safety, or sensitive environmental receptors

NOTE: Regardless of the classification level, all reports must be submitted within the legislative time frame unless an alternate schedule is approved in writing by the USTD.

B. If "Class 1" is checked above, complete the following table using the instructions contained in the heading as it applies to each of the conditions or scenarios described:

CHECK BOX IF CONDITION IS CURRENTLY PRESENT	DATE OF CLASSIFICATION
IDENTIFY THE EVIDENCE USED TO CONFIRM THAT THE CONDITION IS OR IS NOT PRESENT AND, IF PRESENT, DESCRIBE ALL ACTIONS THAT ARE CURRENTLY BEING PERFORMED TO MITIGATE THE CONDITION	
<input type="checkbox"/> Explosive levels or concentrations of vapors that could cause acute health effects are present in a residence or facility	____/____/____
<input type="checkbox"/> Explosive levels of vapors are present in subsurface utility system(s), but no building or residences are impacted	____/____/____
<input type="checkbox"/> Free product is present	____/____/____
<input type="checkbox"/> An active public or private water supply well, public water supply line, or public surface water intake is impacted or immediately threatened	____/____/____
<input type="checkbox"/> Ambient vapor/particulate concentrations exceed concentrations of concern from an acute exposure, or safety viewpoint	____/____/____

CHECK BOX IF CONDITION IS CURRENTLY PRESENT	DATE OF CLASSIFICATION
IDENTIFY THE EVIDENCE USED TO CONFIRM THAT THE CONDITION IS OR IS NOT PRESENT AND, IF PRESENT, DESCRIBE ALL ACTIONS THAT ARE CURRENTLY BEING PERFORMED TO MITIGATE THE CONDITION	
<input type="checkbox"/> Sensitive habitat or sensitive resources (sport fish, economically important species, threatened and endangered species, surface water, wetlands, etc.) are impacted and affected	____/____/____

C. If "Class 2", "Class 3", or "Class 4" is checked above, complete the following table with respect to the current site classification level using the criteria and prescribed scenarios presented in Attachment No. 10 of the "Guidance Document for Risk-Based Corrective Action at Leaking Underground Storage Tanks":

IDENTIFY THE CURRENT CONDITION(S) THAT LED TO THE CLASSIFICATION	IDENTIFY THE PRESCRIBED INITIAL RESPONSE ACTION AND THE DATE THE ACTION WAS IMPLEMENTED
POTENTIAL FOR IMPACTED GROUNDWATER TO MIGRATE ALONG ALLEN CREEK DRAIN + DISCHARGE TO SULFATE WATERS (MURON RIVER)	MONITORING WELL INSTALLED ALONG ALLEN CREEK DRAIN - 2/95 MW - SAMPLED 9/95 - NO CONTAMINATION

4.0 RESULTS OF THE TIER I OR TIER II EVALUATION

4.1 EXPOSURE PATHWAY CHARACTERIZATION

A. Check all that apply to this site:

Potential Source(s)

- Impacted Soils
- Dissolved Groundwater Plume

- Free Phase Liquid Plume
- Impacted Sediments or Surface Water
- Other (*Specify*): _____

Potential Transport Mechanism(s)

- Wind Erosion and Atmospheric Dispersion
- Volatilization and Atmospheric Dispersion
- Volatilization and Enclosed-Space Accumulation
- Leaching and Groundwater Transport
- Mobile Free-Liquid Migration
- Stormwater/Surface Water Transport
- Utility Corridors
- Other (*Specify*): _____

Potential Exposure Routes(s)

- Soil Ingestion
- Direct Contact of Soil with Skin
- Inhalation of Airborne Particulates
- Inhalation of Volatiles
- Potable Water Use
- Use of Non-Potable Water
- Other (*Specify*): _____

Potential Receptor(s)

- Resident
- Commercial Worker III*
- Commercial Worker IV*
- Industrial Worker
- Construction Worker
- Sensitive Habitat
- Structures
- Utilities
- Surface Waters
- Water Supply Wells
- Other (*Specify*): _____

* As defined in Attachment No. 11 to the "Guidance Document for Risk-Based Corrective Action at Leaking Underground Storage Tanks"

NOTE: A pathway must include three necessary elements:

- 1) a source (e.g., contamination);
- 2) a mechanism by which the contamination can become available to result in exposures at the source or via migration to other locations (e.g., free product and contaminated groundwater movement along a buried utility corridor); and
- 3) an individual who may come into contact, ingest, or inhale the contamination at the point of exposure (e.g., a utility maintenance worker digging to repair the line).

Examples of a complete pathway include:

1. inhalation of impacted soils by an on-site construction worker
2. impacted soils leaching into potable ground water and being used by a nearby resident for drinking and bathing
3. inhalation of vapors resulting from the migration of free product by a neighboring industrial worker
4. impacted groundwater discharging to wetlands

B. List the most plausible potential residential exposure pathway(s) for the site: _____

CONTAMINANTS MIGRATING TO RESIDENTIAL PROPERTY; POTENTIAL FOR DIRECT CONTACT AND/OR INHALATION IF CONTAMINANTS MIGRATE TO THE HURON RIVER - POTENTIAL FOR RECREATIONAL USER DIRECT CONTACT, INCIDENTAL INHALATION/INGESTION, IMPACTED FISH CONSUMPTION

C. List the most plausible potential commercial exposure pathway(s) for the site: _____

EMPLOYEES PERFORMING UNDERGROUND WORK AT THE SITE COME INTO DIRECT CONTACT WITH THE CONTAMINANTS

D. List the most plausible potential industrial exposure pathway(s) for the site: N/A

E. List the most plausible potential sensitive habitat exposure pathway(s) for the site: N/A

4.2 OPTIONAL TIER II EVALUATION

A. Has a site-specific Tier II evaluation been conducted for this Initial Assessment Report?

Yes No

B. If "Yes", identify and justify where alternate assumptions or site-specific information was used in place of the default assumptions as defined in Attachment No. 11 of "Guidance Document For Risk-Based Corrective Action At Leaking Underground Storage Tanks":

ASSUMPTION	DEFAULT USTD TIER I SELECTION	ALTERNATE SELECTION	JUSTIFICATION OR BASIS FOR SUBSTITUTION <i>(Attach sheets if needed)</i>

C. Include the calculations supporting the development of Tier II SSTLs as Attachment No. 28.

4.3 IDENTIFICATION OF TIER I RISK-BASED SCREENING LEVELS OR TIER II SITE-SPECIFIC TARGET LEVELS AND COMPARISON TO SITE DATA

A. For each contaminated medium, complete a Tier I RBSL / Tier II SSTL Comparison Table (Attachment No. 8 for soil, Attachment No. 19 for groundwater or Attachment No. 26 for other media, as appropriate) by:

1. Checking the box associated with the applicable land use scenario;
2. Checking the boxes associated with the contaminants currently present at the site;
3. Entering the current maximum detected on-site or off-site concentration for each selected contaminant, along with the corresponding sample identification number and date of sampling;
4. Entering the lowest applicable RBSL value for soil or groundwater from the Tier I Look-Up Tables (*refer to Attachment No. 11 of the "Guidance Document For Risk-Based Corrective Action At Leaking Underground Storage Tanks"*) for the specific exposure routes present and environmental medium being considered or a corresponding optional Tier II SSTL. [NOTE: *Include the exposure route code that identifies the basis for each applicable criterion noted. For example, 12 ug/kg (A) for a cleanup goal based on the direct contact with soil exposure route, and 12 ug/kg (B) for a cleanup goal based on the soil leaching to groundwater exposure route*];
5. Comparing the contaminant-specific maximum concentration to the corresponding RBSL or SSTL criterion; and

6. Identifying and recording whether or not there is an exceedence of the RBSL or the SSTL.

B. Tier I RBSL / Tier II SSTL Comparison Tables are attached for the following:
(Check all that apply)

LAND USE	ENVIRONMENTAL MEDIUM		
	SOIL	GROUNDWATER	OTHER (Specify)
Residential	X	X	
Commercial III			
Commercial IV			
Industrial			

4.4 **PROPOSED FOLLOW-UP ACTIVITIES**

A. Based on the results of the Tier I or optional Tier II evaluation, indicate the follow-up activities proposed for the site:

<input type="checkbox"/> Site conditions do not exceed Tier I RBSLs or Tier II SSTLs	Proceed with site closure
<input type="checkbox"/> Site conditions exceed some or all Tier I RBSLs or Tier II SSTLs	Propose interim corrective action and subsequent reevaluation of the site (Complete Section 5.0)
<input checked="" type="checkbox"/> Site conditions exceed some or all Tier I RBSLs or Tier II SSTLs	Propose final corrective action to achieve Tier I RBSLs or Tier II SSTLs (Complete Section 5.0)
<input type="checkbox"/> Site conditions exceed some or all Tier I RBSLs or Tier II SSTLs	Perform further site-specific Tier II or Tier III evaluation to establish alternative SSTLs that meet the target risk goals (Complete Section 5.0)

B. Provide justification for the option chosen (*attach additional sheets, if needed*): _____

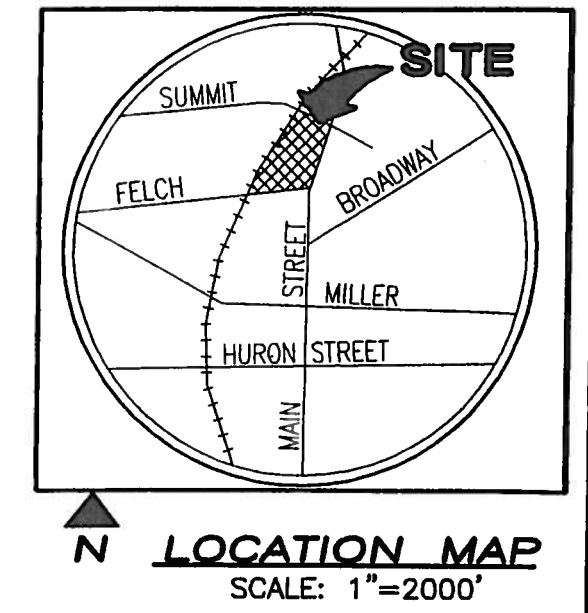
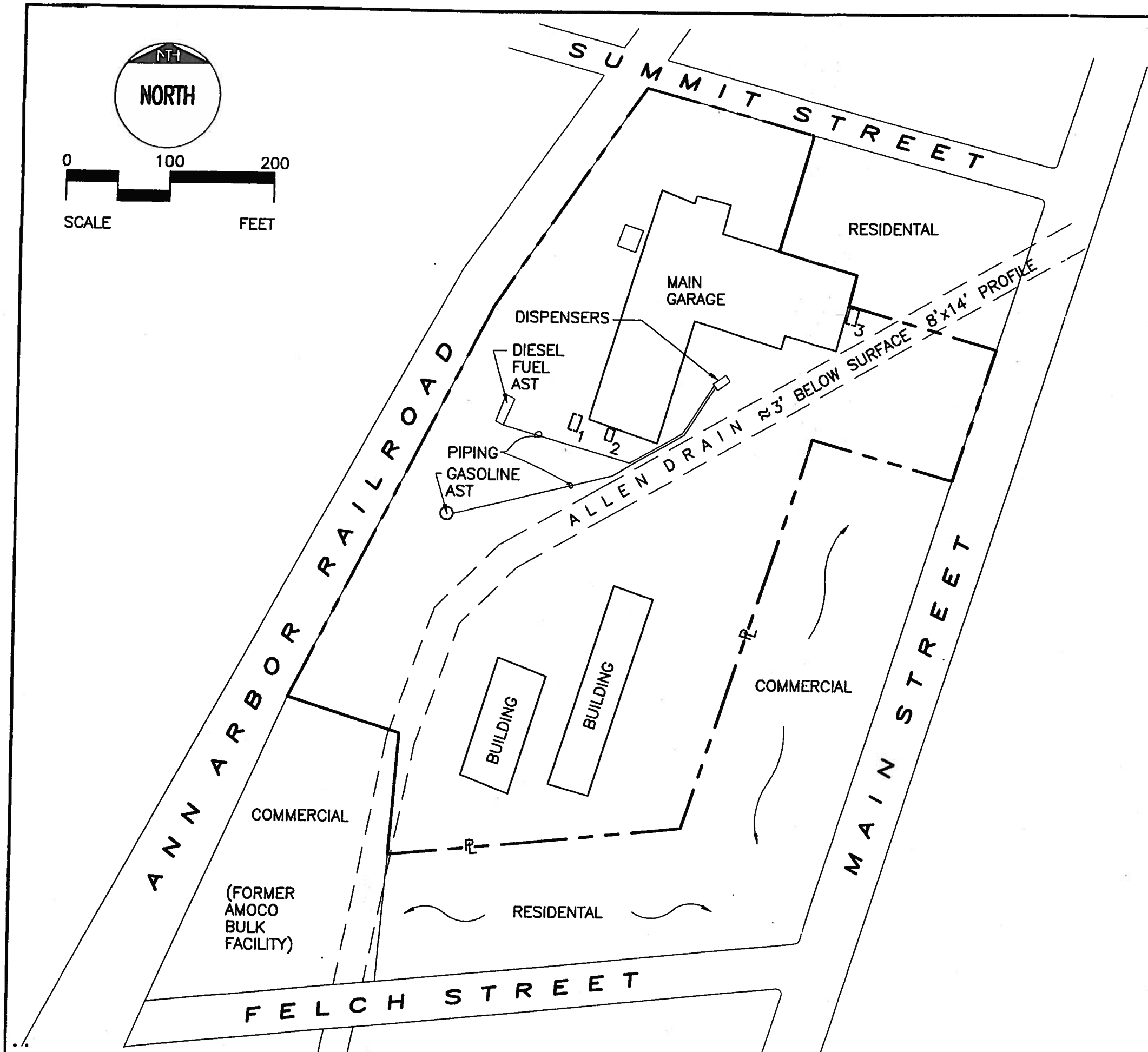
CORRECTIVE ACTION PLAN DESIGNED TO REMEDIATE CONTAMINATION FROM OTHER/PREVIOUS RELEASE SHOULD BE SUFFICIENT TO REMEDIATE CONTAMINATION FROM THIS RELEASE TO TIER I RBSLS.

5.0 WORK PLAN FOR FURTHER SITE CHARACTERIZATION AND ASSESSMENT ACTIVITY

If an interim or final corrective action or a further Tier II evaluation is proposed, additional on-site or off-site characterization work may be required to obtain the information needed to establish alternate protective clean-up levels or to select and implement a cost-effective corrective action program. In these cases, a Work Plan must be developed to describe the proposed additional site characterization activities.

A. Provide a brief Work Plan and implementation schedule (Attachment No. 29) that describes the proposed site characterization activities to be performed to determine the horizontal and vertical extent of contamination, and establish the site conditions needed to prepare a Corrective Action Plan. SEE SECTION 4.4B

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LEGEND:

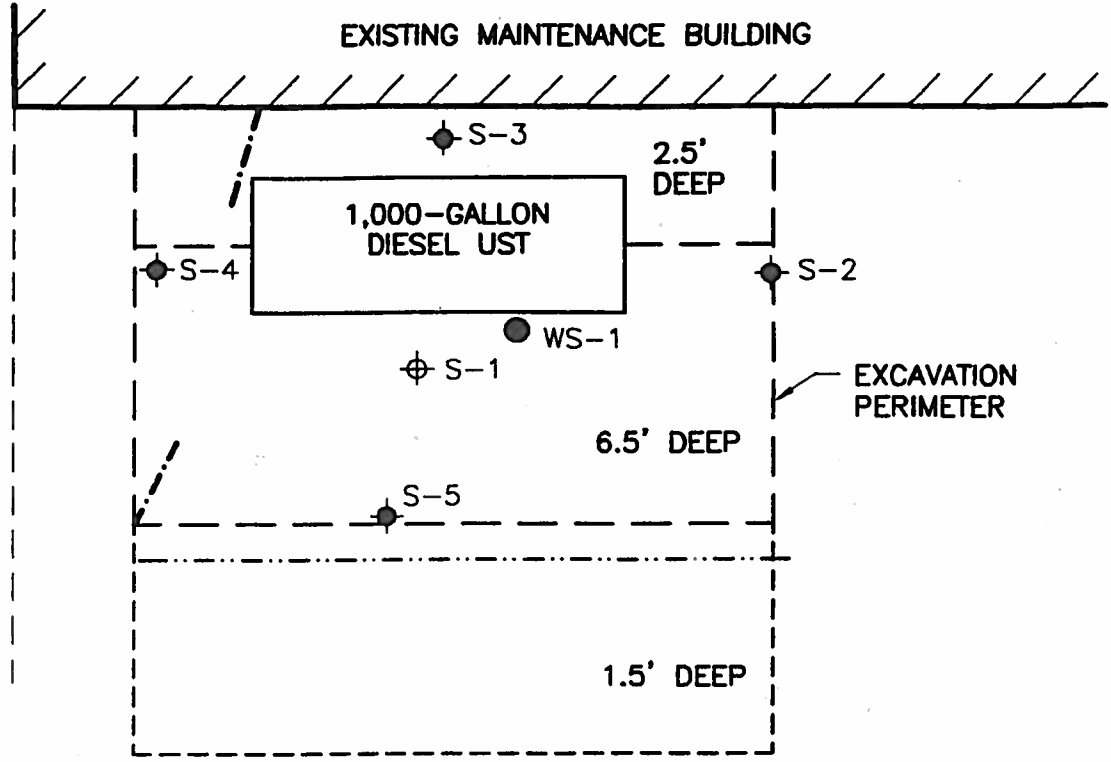
- [] = UST
- 1. FORMER 2,000 GALLON GASOLINE UST REMOVED BY TGI ON 12-14-89
- 2. FORMER 1,000 GALLON DIESEL FUEL UST CLOSED IN-PLACE BY NTH ON 6-16-95
- 3. EXISTING 100 GALLON USED OIL UST INSTALLED IN NOVEMBER 1991

NOTES:

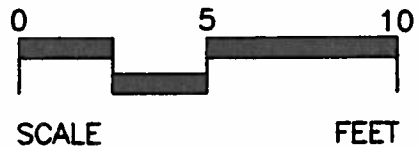
BASE MAP OBTAINED FROM ARIAL PHOTOGRAPH DATED APRIL 1993. ORIGINAL SCALE 1"=40'
 ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE


AREA OVERVIEW			
DIESEL FUEL UST CLOSURE ANN ARBOR CITY GARAGE 721 NORTH MAIN STREET ANN ARBOR, MICHIGAN 48104			
		NTH CONSULTANTS, LTD. Professional Engineering & Environmental Services Farmington Hills, Michigan	
PROJECT NO. 13-5000-R2	DRAWN BY: KRH	DATE: 11-13-95	ATTACHMENT NO. 3
SCALE: AS SHOWN	CHECKED BY: JPS	SHEET 1 OF 1	

C:\13\5000R110 Thu Dec 07 07:50:56 1995 <3>

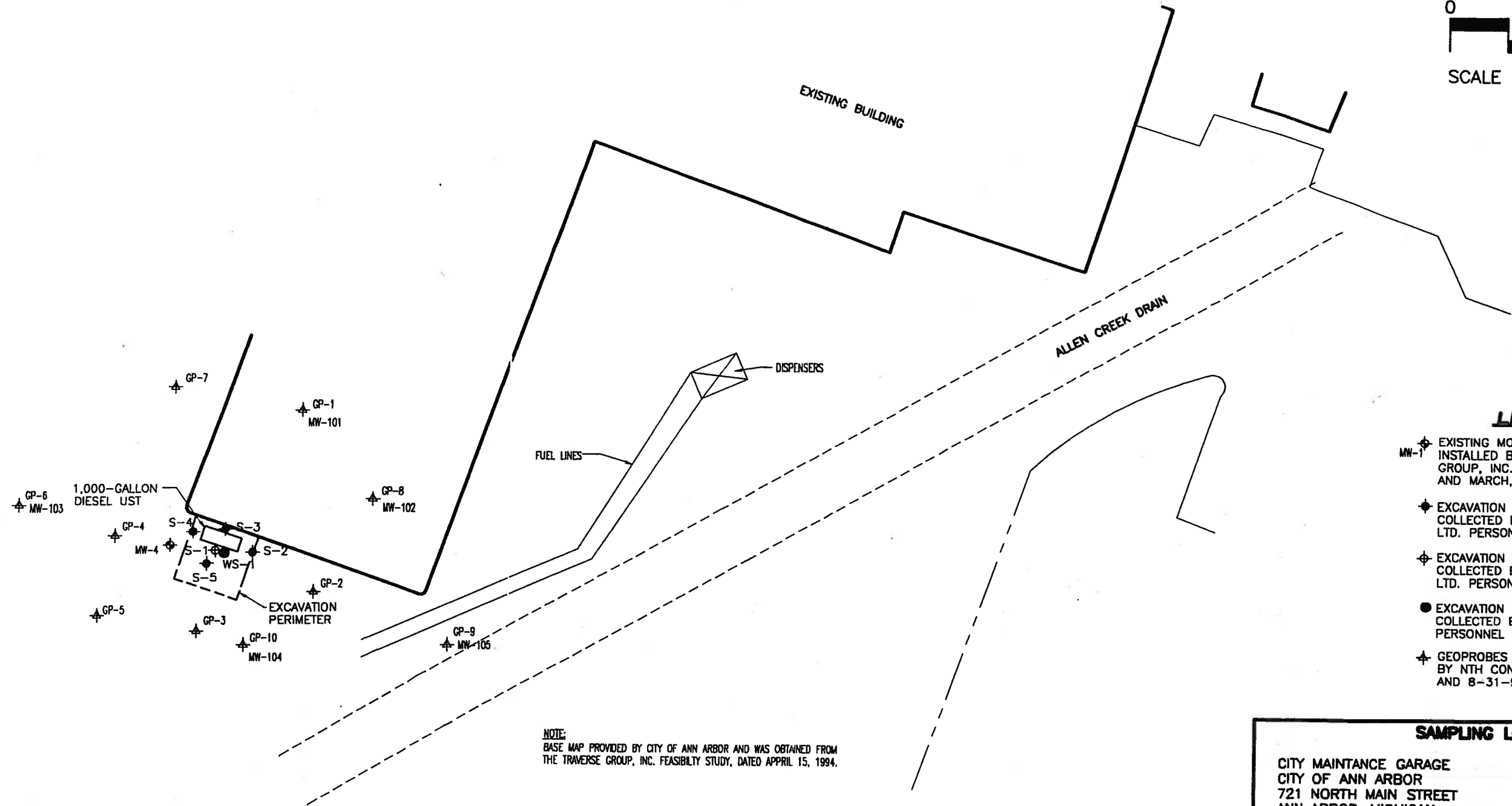
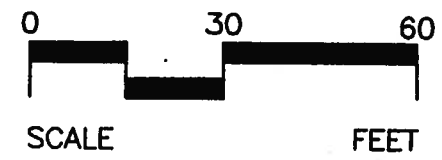


- ◆ EXCAVATION SIDEWALL SAMPLE COLLECTED BY NTH CONSULTANTS, LTD. PERSONNEL ON JUNE 16, 1995
- ⊕ EXCAVATION BOTTOM SAMPLE COLLECTED BY NTH CONSULTANTS, LTD. PERSONNEL ON JUNE 16, 1995
- EXCAVATION WATER SAMPLE COLLECTED BY NTH CONSULTANTS, LTD. PERSONNEL ON JUNE 16, 1995
- — — UNKNOWN 2-INCH DIAMETER GALVANIZED LINE ENCOUNTERED DURING EXCAVATION ACTIVITIES ON JUNE 16, 1995 BY NTH PERSONNEL
- - - ELECTRICAL LINE
- . - UNKNOWN 3-INCH DIAMETER CLAY DRAIN ENCOUNTERED DURING EXCAVATION ACTIVITIES ON JUNE 16, 1995 BY NTH PERSONNEL



EXCAVATION SOIL/WATER SAMPLE LOCATION PLAN			
CITY GARAGE 721 N. MAIN STREET ANN ARBOR, MICHIGAN			
		NTH CONSULTANTS, LTD. Professional Engineering & Environmental Services Farmington Hills, Michigan	
PROJECT NO. 13-5000-R2	DRAWN BY: JD	DATE: 06-19-95	4a
SCALE: AS SHOWN	CHECKED BY: RCA	SHEET 1 OF 1	

C:\13\50000350 Wed Dec 20 12:13:25 1995 <3>



NOTE:
 BASE MAP PROVIDED BY CITY OF ANN ARBOR AND WAS OBTAINED FROM
 THE TRAVERSE GROUP, INC. FEASIBILITY STUDY, DATED APRIL 15, 1994.

LEGEND:

- MW-1 ✦ EXISTING MONITORING WELL
 INSTALLED BY THE TRAVERSE
 GROUP, INC. BETWEEN JUNE, 1990
 AND MARCH, 1993
- ✦ EXCAVATION SIDEWALL SAMPLE
 COLLECTED BY NTH CONSULTANTS,
 LTD. PERSONNEL ON JUNE 16, 1995
- ✦ EXCAVATION BOTTOM SAMPLE
 COLLECTED BY NTH CONSULTANTS,
 LTD. PERSONNEL ON JUNE 16, 1995
- EXCAVATION WATER SAMPLE
 COLLECTED BY NTH CONSULTANTS, LTD.
 PERSONNEL ON JUNE 16, 1995
- ✦ GEOPROBES & MONITORING WELLS INSTALLED
 BY NTH CONSULTANTS, LTD. BETWEEN 8-29-95
 AND 8-31-95

SAMPLING LOCATIONS

CITY MAINTANCE GARAGE
 CITY OF ANN ARBOR
 721 NORTH MAIN STREET
 ANN ARBOR, MICHIGAN



NTH CONSULTANTS, LTD.
 Professional Engineering & Environmental Services

Farmington Hills, Michigan

PROJECT NO. 13-5000-R2	DRAWN BY: KRH	DATE: 09-01-95	ATTACHMENT NO: 4b
SCALE: AS SHOWN	CHECKED BY: CJA	SHEET 1 OF 1	

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7
LABORATORY RESULTS - SOIL
FACILITY NAME ANN ARBOR CITY GARAGE
FACILITY ID NUMBER 0-008427
(Duplicate table as needed)

VOLATILES										
Sample ID	S-1 SOUTHWALL		S-2 EASTWALL		S-3 NORTHWALL		S-4 WESTWALL		S-5 BOTTOM	
Sample Depth (feet BGS)	3.5		3.5		3.5		3.5		6.5	
Date Collected	6-16-95		6-16-95		6-16-95		6-16-95		6-16-95	
Date Extracted	6-20-95		6-20-95		6-20-95		6-20-95		6-20-95	
Date Analyzed	6-20-95		6-20-95		6-20-95		6-20-95		6-20-95	
Analytical Method No.	8020		8020		8020		8020		8020	
Collection Method*	GS		GS		GS		GS		GS	
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Benzene	ND	100	ND	50	ND	100	2300	1000	780	100
<input checked="" type="checkbox"/> Toluene	4800	100	ND	50	ND	100	9900	1000	ND	100
<input checked="" type="checkbox"/> Ethylbenzene	12000	100	7400	50	6000	100	34000	1000	14000	100
<input checked="" type="checkbox"/> Total Xylenes	7200	300	5100	150	8700	300	45000	3000	4800	300
<input type="checkbox"/> MTBE										
POLYNUCLEAR AROMATICS (PNA_s)										
Sample ID	S-1 SOUTHWALL		S-2 EASTWALL		S-3 NORTHWALL		S-4 WESTWALL		S-5 BOTTOM	
Sample Depth (feet BGS)	3.5		3.5		3.5		3.5		6.5	
Date Collected	6-16-95		6-16-95		6-16-95		6-16-95		6-16-95	
Date Extracted	6-20-95		6-20-95		6-20-95		6-20-95		6-20-95	
Date Analyzed	6-22-95		6-22-95		6-22-95		6-22-95		6-22-95	
Analytical Method No.	8310		8310		8310		8310		8310	
Collection Method*	GS		GS		GS		GS		GS	
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Acenaphthene	ND	330	ND	330	ND	330	ND	1000	ND	330
<input checked="" type="checkbox"/> Anthracene	ND	330	ND	330	1600	330	ND	1000	2500	330
<input checked="" type="checkbox"/> Benzo(a)anthracene	ND	330	810	330	1600	330	ND	1000	1500	330
<input checked="" type="checkbox"/> Benzo(a)pyrene	ND	330	ND	330	940	330	ND	330	1100	330
<input checked="" type="checkbox"/> Benzo(b)fluoranthene	ND	330	ND	330	ND	330	ND	1000	ND	330
<input checked="" type="checkbox"/> Benzo(k)fluoranthene	ND	330	ND	330	ND	330	ND	1000	ND	330

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydropunch (HP)

If Other (OT), specify here: _____

MDL = Method Detection Limit

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7 (CON'T)

LABORATORY RESULTS - SOIL

FACILITY NAME ANN ARBOR CITY GARAGE

FACILITY ID NUMBER 0-008427

(Duplicate table as needed)

POLYNUCLEAR AROMATICS (PNAs)										
Sample ID	S-1 SOUTHWALL		S-2 EASTWALL		S-3 NORTHWALL		S-4 WEST WALL		S-5 BOTTOM	
Sample Depth (feet BGS)	3.5		3.5		3.5		3.5		6.5	
Date Collected	6-16-95		6-16-95		6-16-95		6-16-95		6-16-95	
Date Extracted	6-20-95		6-20-95		6-20-95		6-20-95		6-20-95	
Date Analyzed	6-22-95		6-22-95		6-22-95		6-22-95		6-22-95	
Analytical Method No.	8310		8310		8310		8310		8310	
Collection Method*	GS		GS		GS		GS		GS	
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Chrysene	ND	330	ND	330	850	330	ND	1000	850	330
<input checked="" type="checkbox"/> Dibenzo(a,h)anthracene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Fluoranthene	ND	330	ND	330	6400	330	ND	1000	6900	330
<input checked="" type="checkbox"/> Fluorene	4200	330	1600	330	2200	330	11000	1000	2500	330
<input checked="" type="checkbox"/> Indeno(1,2,3-cd)pyrene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Naphthalene	3900	330	6500	330	8200	330	52000	1000	12000	330
<input checked="" type="checkbox"/> Pyrene	ND	330	2900	330	4400	330	ND	1000	4600	330
METALS										
Sample ID										
Sample Depth (feet BGS)										
Date Collected										
Date Extracted										
Date Analyzed										
Analytical Method No.										
Collection Method*										
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/> Cadmium										
<input type="checkbox"/> Chromium III										
<input type="checkbox"/> Chromium VI										
<input type="checkbox"/> Total Lead										

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydropunch (HP)
If Other (OT), specify here: _____

MDL = Method Detection Limit

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7 (CON'T)

LABORATORY RESULTS - SOIL

FACILITY NAME ANN ARBOR CITY GARAGE

FACILITY ID NUMBER 0-008427

(Duplicate table as needed)

PCBs										
Sample ID										
Sample Depth (feet BGS)										
Date Collected										
Date Extracted										
Date Analyzed										
Analytical Method No.										
Collection Method*										
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/> Aroclor 1016										
<input type="checkbox"/> Aroclor 1221										
<input type="checkbox"/> Aroclor 1232										
<input type="checkbox"/> Aroclor 1242										
<input type="checkbox"/> Aroclor 1248										
<input type="checkbox"/> Aroclor 1254										
<input type="checkbox"/> Aroclor 1280										
HALOGENATED HYDROCARBONS										
Sample ID										
Sample Depth (feet BGS)										
Date Collected										
Date Extracted										
Date Analyzed										
Analytical Method No.										
Collection Method*										
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/> Carbon Tetrachloride										
<input type="checkbox"/> 1,1-Dichloroethane										
<input type="checkbox"/> 1,2-Dichloroethane										
<input type="checkbox"/> 1,1-Dichloroethylene										

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HIA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydroponch (HP)
If Other (OT), specify here: _____

MDL = Method Detection Limit

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7 (CON'T)
LABORATORY RESULTS - SOIL

FACILITY NAME ANN ARBOR CITY GARAGE

FACILITY ID NUMBER 0-008427

(Duplicate table as needed)

HALOGENATED HYDROCARBONS											
Sample ID											
Sample Depth (feet BGS)											
Date Collected											
Date Extracted											
Date Analyzed											
Analytical Method No.											
Collection Method*											
CONSTITUENT (ug/kg)											
	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	
<input type="checkbox"/> cis-1,2-Dichloroethylene											
<input type="checkbox"/> trans-1,2-Dichloroethylene											
<input type="checkbox"/> Tetrachloroethylene											
<input type="checkbox"/> 1,1,2-Trichloroethane											
OTHER (Specify)											
Sample ID	S-1 SOUTHWALL		S-2 EAST WALL		S-3 NORTH WALL		S-4 WEST WALL		S-5 BOTTOM		
Sample Depth (feet BGS)	3.5		3.5		3.5		3.5		6.5		
Date Collected	6-16-95		6-16-95		6-16-95		6-16-95		6-16-95		
Date Extracted	6-20-95		6-20-95		6-20-95		6-20-95		6-20-95		
Date Analyzed	6-22-95		6-22-95		6-22-95		6-22-95		6-22-95		
Analytical Method No.	8310		8310		8310		8310		8310		
Collection Method*	GS		GS		GS		GS		GS		
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	
<input checked="" type="checkbox"/> ACENAPHTHYLENE	ND	330	ND	330	ND	330	ND	1000	ND	330	
<input checked="" type="checkbox"/> BENZO(BH)PERYLENE	ND	330	ND	330	ND	330	ND	330	ND	330	
<input checked="" type="checkbox"/> PHENANTHRENE	ND	330	8400	330	9300	330	ND	330	9900	330	
<input type="checkbox"/>											
<input type="checkbox"/>											
<input type="checkbox"/>											
<input type="checkbox"/>											

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydropunch (HP)

If Other (OT), specify here: _____

MDL = Method Detection Limit

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7

LABORATORY RESULTS - SOIL

FACILITY NAME ANN ARBOR CITY GARAGE

FACILITY ID NUMBER 0-008427

(Duplicate table as needed)

VOLATILES										
Sample ID	GP-1		GP-2		GP-3		GP-4		GP-5	
Sample Depth (feet BGS)	4.0-6.5		4.5-6.5		4.5-6.5		5.0-6.0		4.5-7.0	
Date Collected	8-29-95		8-29-95		8-29-95		8-29-95		8-30-95	
Date Extracted	9-05-95		9-05-95		9-05-95		9-05-95		9-05-95	
Date Analyzed	9-05-95		9-05-95		9-05-95		9-05-95		9-05-95	
Analytical Method No.	8020		8020		8020		8020		8020	
Collection Method*	GP		GP		GP		GP		GP	
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Benzene	ND	10	44	10	ND	10	85	10	ND	10
<input checked="" type="checkbox"/> Toluene	ND	10	34	10	ND	10	ND	10	ND	10
<input checked="" type="checkbox"/> Ethylbenzene	ND	10	6600	10	ND	10	43	10	ND	10
<input checked="" type="checkbox"/> Total Xylenes	ND	30	1200	30	ND	30	ND	30	ND	30
<input type="checkbox"/> MTBE										
POLYNUCLEAR AROMATICS (PNA_s)										
Sample ID	GP-1		GP-2		GP-3		GP-4		GP-5	
Sample Depth (feet BGS)	4.0-6.5		4.5-6.5		4.5-6.5		5.0-6.0		4.5-7.0	
Date Collected	8-29-95		8-29-95		8-29-95		8-29-95		8-30-95	
Date Extracted	9-01-95		9-01-95		9-01-95		9-01-95		9-01-95	
Date Analyzed	9-01-95		9-01-95		9-01-95		9-01-95		9-01-95	
Analytical Method No.	8310		8310		8310		8310		8310	
Collection Method*	GP		GP		GP		GP		GP	
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Acenaphthene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Anthracene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Benzo(a)anthracene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Benzo(a)pyrene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Benzo(b)fluoranthene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Benzo(k)fluoranthene	ND	330	ND	330	ND	330	ND	330	ND	330

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydropunch (HP)

If Other (OT), specify here: _____

MDL = Method Detection Limit

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7 (CON'T)

LABORATORY RESULTS - SOIL

FACILITY NAME ANN ARBOR CITY GARAGE

FACILITY ID NUMBER 0-008427

(Duplicate table as needed)

POLYNUCLEAR AROMATICS (PNAs)										
Sample ID	GP-1		GP-2		GP-3		GP-4		GP-5	
Sample Depth (feet BGS)	4.0-6.5		4.5-6.5		4.5-6.5		5.0-6.0		4.5-7.0	
Date Collected	8-29-95		8-29-95		8-29-95		8-29-95		8-30-95	
Date Extracted	9-01-95		9-01-95		9-01-95		9-01-95		9-01-95	
Date Analyzed	9-01-95		9-01-95		9-01-95		9-01-95		9-01-95	
Analytical Method No.	8310		8310		8310		8310		8310	
Collection Method*	GP		GP		GP		GP		GP	
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Chrysene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Dibenzo(a,h)anthracene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Fluoranthene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Fluorene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Indeno(1,2,3-cd)pyrene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Naphthalene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Pyrene	ND	330	ND	330	ND	330	470	330	ND	330
METALS										
Sample ID										
Sample Depth (feet BGS)										
Date Collected										
Date Extracted										
Date Analyzed										
Analytical Method No.										
Collection Method*										
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/> Cadmium										
<input type="checkbox"/> Chromium III										
<input type="checkbox"/> Chromium VI										
<input type="checkbox"/> Total Lead										

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydropunch (HP)

If Other (OT), specify here: _____

MDL = Method Detection Limit

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7 (CON'T)

LABORATORY RESULTS - SOIL

FACILITY NAME ANN ARBOR CITY GARAGE

FACILITY ID NUMBER 0-008471

(Duplicate table as needed)

PCBs											
Sample ID											
Sample Depth (feet BGS)											
Date Collected											
Date Extracted											
Date Analyzed											
Analytical Method No.											
Collection Method*											
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	
<input type="checkbox"/> Aroclor 1016											
<input type="checkbox"/> Aroclor 1221											
<input type="checkbox"/> Aroclor 1232											
<input type="checkbox"/> Aroclor 1242											
<input type="checkbox"/> Aroclor 1248											
<input type="checkbox"/> Aroclor 1254											
<input type="checkbox"/> Aroclor 1280											
HALOGENATED HYDROCARBONS											
Sample ID											
Sample Depth (feet BGS)											
Date Collected											
Date Extracted											
Date Analyzed											
Analytical Method No.											
Collection Method*											
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	
<input type="checkbox"/> Carbon Tetrachloride											
<input type="checkbox"/> 1,1-Dichloroethane											
<input type="checkbox"/> 1,2-Dichloroethane											
<input type="checkbox"/> 1,1-Dichloroethylene											

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydropunch (HP)

If Other (OT), specify here: _____

MDL = Method Detection Limit

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7 (CON'T)

LABORATORY RESULTS - SOIL

FACILITY NAME ANN ARBOR CITY GARAGE

FACILITY ID NUMBER 0-008427

(Duplicate table as needed)

HALOGENATED HYDROCARBONS										
Sample ID										
Sample Depth (feet BGS)										
Date Collected										
Date Extracted										
Date Analyzed										
Analytical Method No.										
Collection Method*										
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/> cis-1,2-Dichloroethylene										
<input type="checkbox"/> trans-1,2-Dichloroethylene										
<input type="checkbox"/> Tetrachloroethylene										
<input type="checkbox"/> 1,1,2-Trichloroethane										
OTHER (Specify)										
Sample ID	GP-1	GP-2	GP-3	GP-4	GP-5					
Sample Depth (feet BGS)	4.0-6.5	4.5-6.5	4.5-6.5	5.0-6.0	4.5-7.0					
Date Collected	8-29-95	8-29-95	8-29-95	8-29-95	8-30-95					
Date Extracted	9-01-95	9-01-95	9-01-95	9-01-95	9-01-95					
Date Analyzed	9-01-95	9-01-95	9-01-95	9-01-95	9-01-95					
Analytical Method No.	8310	8310	8310	8310	8310					
Collection Method*	GP	GP	GP	GP	GP					
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> ACENAPHTHYLENE	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> BENZO(a,h,i)PERYLENE	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> PHENANTHRENE	ND	330	ND	330	ND	330	ND	330	ND	330
<input type="checkbox"/>										
<input type="checkbox"/>										
<input type="checkbox"/>										
<input type="checkbox"/>										

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydropunch (HP)

If Other (OT), specify here: _____

MDL = Method Detection Limit

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7

LABORATORY RESULTS - SOIL

FACILITY NAME ANN ARBOR CITY GARAGE

FACILITY ID NUMBER 0-008427

(Duplicate table as needed)

VOLATILES										
Sample ID	GP-6		GP-7		GP-8		GP-9		GP-10	
Sample Depth (feet BGS)	4.5-7.0		4.0-7.0		5.0-8.0		5.0-8.0		4.5-6.5	
Date Collected	8-30-95		8-30-95		8-30-95		8-30-95		8-30-95	
Date Extracted	9-05-95		9-05-95		9-05-95		9-05-95		9-05-95	
Date Analyzed	9-05-95		9-05-95		9-05-95		9-05-95		9-05-95	
Analytical Method No.	8020		8020		8020		8020		8020	
Collection Method*	GP		GP		GP		GP		GP	
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Benzene	ND	10	ND	10	ND	10	ND	10	ND	10
<input checked="" type="checkbox"/> Toluene	13	10	ND	10	18	10	ND	10	ND	10
<input checked="" type="checkbox"/> Ethylbenzene	ND	10	ND	10	370	10	ND	10	ND	10
<input checked="" type="checkbox"/> Total Xylenes	51	30	ND	30	120	30	ND	30	ND	30
<input type="checkbox"/> MTBE										
POLYNUCLEAR AROMATICS (PNAs)										
Sample ID	GP-6		GP-7		GP-8		GP-9		GP-10	
Sample Depth (feet BGS)	4.5-7.0		4.0-7.0		5.0-8.0		5.0-8.0		4.5-6.5	
Date Collected	8-30-95		8-30-95		8-30-95		8-30-95		8-30-95	
Date Extracted	9-01-95		9-01-95		9-01-95		9-01-95		9-01-95	
Date Analyzed	9-01-95		9-01-95		9-01-95		9-01-95		9-01-95	
Analytical Method No.	8310		8310		8310		8310		8310	
Collection Method*	GP		GP		GP		GP		GP	
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Acenaphthene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Anthracene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Benzo(a)anthracene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Benzo(a)pyrene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Benzo(b)fluoranthene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Benzo(k)fluoranthene	ND	330	ND	330	ND	330	ND	330	ND	330

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydropunch (HP)

If Other (OT), specify here: _____

MDL = Method Detection Limit

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7 (CON'T)

LABORATORY RESULTS - SOIL

FACILITY NAME ANN ARBOR CITY GARAGE

FACILITY ID NUMBER 0-008427

(Duplicate table as needed)

POLYNUCLEAR AROMATICS (PNA_s)										
Sample ID	GP-6		GP-7		GP-8		GP-9		GP-10	
Sample Depth (feet BGS)	4.5-7.0		4.0-7.0		5.0-8.0		5.0-8.0		4.5-6.5	
Date Collected	8-30-95		8-30-95		8-30-95		8-30-95		8-30-95	
Date Extracted	9-01-95		9-01-95		9-01-95		9-01-95		9-01-95	
Date Analyzed	9-01-95		9-01-95		9-01-95		9-01-95		9-01-95	
Analytical Method No.	8310		8310		8310		8310		8310	
Collection Method*	GP		GP		GP		GP		GP	
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Chrysene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Dibenzo(a,h)anthracene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Fluoranthene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Fluorene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Indeno(1,2,3-cd)pyrene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Naphthalene	ND	330	ND	330	ND	330	ND	330	ND	330
<input checked="" type="checkbox"/> Pyrene	ND	330	ND	330	ND	330	ND	330	ND	330
METALS										
Sample ID										
Sample Depth (feet BGS)										
Date Collected										
Date Extracted										
Date Analyzed										
Analytical Method No.										
Collection Method*										
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/> Cadmium										
<input type="checkbox"/> Chromium III										
<input type="checkbox"/> Chromium VI										
<input type="checkbox"/> Total Lead										

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydropunch (HP)

If Other (OT), specify here: _____

MDL = Method Detection Limit

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7 (CON'T)

LABORATORY RESULTS - SOIL

FACILITY NAME ANN ARBOR CITY GARAGE

FACILITY ID NUMBER 0-008427

(Duplicate table as needed)

PCBs										
Sample ID										
Sample Depth (feet BGS)										
Date Collected										
Date Extracted										
Date Analyzed										
Analytical Method No.										
Collection Method*										
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/> Aroclor 1016										
<input type="checkbox"/> Aroclor 1221										
<input type="checkbox"/> Aroclor 1232										
<input type="checkbox"/> Aroclor 1242										
<input type="checkbox"/> Aroclor 1248										
<input type="checkbox"/> Aroclor 1254										
<input type="checkbox"/> Aroclor 1280										
HALOGENATED HYDROCARBONS										
Sample ID										
Sample Depth (feet BGS)										
Date Collected										
Date Extracted										
Date Analyzed										
Analytical Method No.										
Collection Method*										
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/> Carbon Tetrachloride										
<input type="checkbox"/> 1,1-Dichloroethane										
<input type="checkbox"/> 1,2-Dichloroethane										
<input type="checkbox"/> 1,1-Dichloroethylene										

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydropunch (HP)

If Other (OT), specify here: _____

MDL = Method Detection Limit

**INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 7 (CON'T)
LABORATORY RESULTS - SOIL**

FACILITY NAME ANN ARBOR CITY GARAGE
FACILITY ID NUMBER 0-008427

(Duplicate table as needed)

HALOGENATED HYDROCARBONS											
Sample ID											
Sample Depth (feet BGS)											
Date Collected											
Date Extracted											
Date Analyzed											
Analytical Method No.											
Collection Method*											
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	
<input type="checkbox"/> cis-1,2-Dichloroethylene											
<input type="checkbox"/> trans-1,2-Dichloroethylene											
<input type="checkbox"/> Tetrachloroethylene											
<input type="checkbox"/> 1,1,2-Trichloroethane											
OTHER (Specify)											
Sample ID	GP-6		GP-7		GP-8		GP-9		GP-10		
Sample Depth (feet BGS)	4.5-7.0		4.0-7.0		5.0-8.0		5.0-8.0		4.5-6.5		
Date Collected	8-30-95		8-30-95		8-30-95		8-30-95		8-30-95		
Date Extracted	9-01-95		9-01-95		9-01-95		9-01-95		9-01-95		
Date Analyzed	9-01-95		9-01-95		9-01-95		9-01-95		9-01-95		
Analytical Method No.	8310		8310		8310		8310		8310		
Collection Method*	GP		GP		GP		GP		GP		
CONSTITUENT (ug/kg)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	
<input checked="" type="checkbox"/> ACENAPHTHYLENE	ND	330	ND	330	ND	330	ND	330	ND	330	
<input checked="" type="checkbox"/> BENZO(b,h,i)PERYLENE	ND	330	ND	330	ND	330	ND	330	ND	330	
<input checked="" type="checkbox"/> PHENANTHRENE	ND	330	ND	330	ND	330	ND	330	ND	330	
<input type="checkbox"/>											
<input type="checkbox"/>											
<input type="checkbox"/>											
<input type="checkbox"/>											

BGS = Below Ground Surface

* Collection Method Codes (List all that apply): Grab Sample (GS), Split Spoon (SS), Hand Auger (HA), Geoprobe (GP), Continuous Corer (CC), Soil Gas (SG), Cone Penetrometer (CP), Hydropunch (HP)

If Other (OT), specify here: _____

MDL = Method Detection Limit

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 8
TIER I RBSL / TIER II OR TIER III SSTL COMPARISON TABLE FOR SOILS
FACILITY NAME ANN ARBOR CITY GARAGE
FACILITY ID NO. 0-008427

Residential Commercial III Commercial IV Industrial

Exposure Codes

A. Direct Contact

B. Soil Leaching to Potable Groundwater

Contaminant	Sample ID with Maximum Detected Concentration	Corresponding Sample Date	Maximum Detected Concentration (ug/kg)	Applicable Criterion with Exposure Codes (ug/kg)		Criterion Exceeded? (Yes or No)	
				Tier I RBSL	Tier II/III SSTL	Tier I RBSL	Tier II/III SSTL
VOLATILES							
<input checked="" type="checkbox"/> Benzene	WESTWALL	6-16-95	2300	88 000 A		NO	
<input checked="" type="checkbox"/> Toluene	WESTWALL	6-16-95	9900	24 000 000 A		NO	
<input checked="" type="checkbox"/> Ethylbenzene	WESTWALL	6-16-95	34 000	11 000 000 A		NO	
<input checked="" type="checkbox"/> Total Xylenes	WESTWALL	6-16-95	45 000	200 000 000 A		NO	
<input type="checkbox"/> MTBE							
POLYNUCLEAR AROMATICS (PNA_s)							
<input checked="" type="checkbox"/> Acenaphthene	WESTWALL	6-16-95	<1000	76 000 000 A		NO	
<input checked="" type="checkbox"/> Anthracene	BOTTOM	6-16-95	2500	420 000 000 A		NO	
<input checked="" type="checkbox"/> Benzo(a)anthracene	NORTHWALL	6-16-95	1600	14 000 A		NO	
<input checked="" type="checkbox"/> Benzo(a)pyrene	BOTTOM	6-16-95	1100	1400 A		NO	
<input checked="" type="checkbox"/> Benzo(b)fluoranthene	WESTWALL	6-16-95	<1000	14 000 A		NO	
<input checked="" type="checkbox"/> Benzo(k)fluoranthene	WESTWALL	6-16-95	<1000	140 000 A		NO	
<input checked="" type="checkbox"/> Chrysene	NORTHWALL	6-16-95	850	1400 000 A		NO	
<input checked="" type="checkbox"/> Dibenzo-(a,h)anthracene	WESTWALL	6-16-95	<330	1400 A		NO	
<input checked="" type="checkbox"/> Fluoranthene	BOTTOM	6-16-95	6900	51 000 000 A		NO	
<input checked="" type="checkbox"/> Fluorene	WESTWALL	6-16-95	11000	51 000 000 A		NO	
<input checked="" type="checkbox"/> Indeno(1,2,3-cd)pyrene	WESTWALL	6-16-95	<330	14 000 A		NO	
<input checked="" type="checkbox"/> Naphthalene	WESTWALL	6-16-95	52000	15 000 000 A		NO	
<input checked="" type="checkbox"/> Pyrene	BOTTOM	6-16-95	4600	32 000 000 A		NO	

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 8 (CON'T)
TIER I RBSL / TIER II OR TIER III SSTL COMPARISON TABLE FOR SOILS

FACILITY NAME ANN ARBOR - CITY GARAGE
 FACILITY ID NO. 0-008427

Contaminant	Sample ID with Maximum Detected Concentration	Corresponding Sample Date	Maximum Detected Concentration (ug/kg)	Applicable Criterion with Exposure Codes (ug/kg)		Criterion Exceeded? (Yes or No)	
				Tier I RBSL	Tier II/III SSTL	Tier I RBSL	Tier II/III SSTL
METALS							
<input type="checkbox"/> Cadmium							
<input type="checkbox"/> Chromium III							
<input type="checkbox"/> Chromium VI							
<input type="checkbox"/> Total Lead							
PCBs							
<input type="checkbox"/> Aroclor 1016							
<input type="checkbox"/> Aroclor 1221							
<input type="checkbox"/> Aroclor 1232							
<input type="checkbox"/> Aroclor 1242							
<input type="checkbox"/> Aroclor 1248							
<input type="checkbox"/> Aroclor 1254							
<input type="checkbox"/> Aroclor 1280							
HALOGENATED HYDROCARBONS							
<input type="checkbox"/> Carbon Tetrachloride							
<input type="checkbox"/> 1,1-Dichloroethane							
<input type="checkbox"/> 1,2-Dichloroethane							
<input type="checkbox"/> 1,1-Dichloroethylene							
<input type="checkbox"/> cis-1,2-Dichloroethylene							
<input type="checkbox"/> trans-1,2-Dichloroethylene							
<input type="checkbox"/> Tetrachloroethylene							
<input type="checkbox"/> 1,1,2-Trichloroethane							
OTHER*							
<input checked="" type="checkbox"/> ACENAPHTHYLENE	WEST WALL	6-16-95	< 1000	1 500 000 A		NO	
<input checked="" type="checkbox"/> BENZO(GH) PERYLENE	WESTWALL	6-16-95	< 330	1 500 000 A		NO	
<input checked="" type="checkbox"/> PHENANTHRENE	BOTTOM	6-16-95	9900	1 500 000 A		NO	

* List additional contaminants as appropriate

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 8
TIER I RBSL / TIER II OR TIER III SSTL COMPARISON TABLE FOR SOILS

FACILITY NAME ANN ARBOR CITY GARAGE
 FACILITY ID NO. 0-008427

Residential Commercial III Commercial IV Industrial

Exposure Codes

A. Direct Contact

B. Soil Leaching to Potable Groundwater

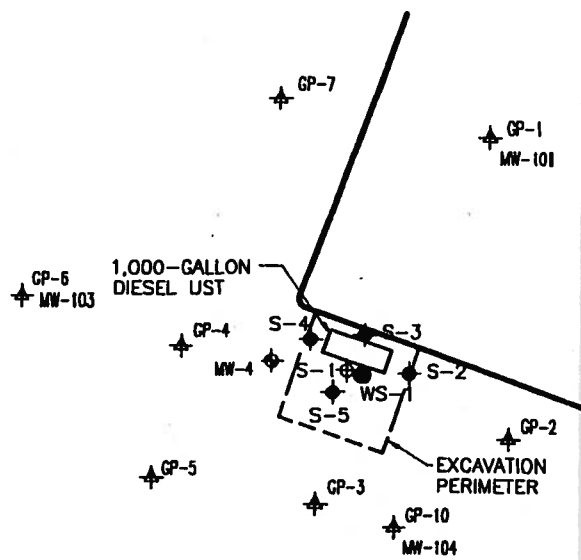
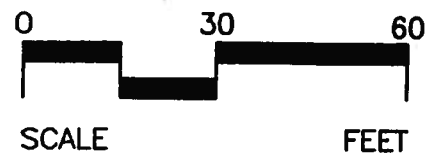
Contaminant	Sample ID with Maximum Detected Concentration	Corresponding Sample Date	Maximum Detected Concentration (ug/kg)	Applicable Criterion with Exposure Codes (ug/kg)		Criterion Exceeded? (Yes or No)	
				Tier I RBSL	Tier II/III SSTL	Tier I RBSL	Tier II/III SSTL
VOLATILES							
<input checked="" type="checkbox"/> Benzene	WESTWALL	6-16-95	2300	100 B		Yes	
<input checked="" type="checkbox"/> Toluene	WESTWALL	6-16-95	9900	16000 B		No	
<input checked="" type="checkbox"/> Ethylbenzene	WESTWALL	6-16-95	34000	4700 B		Yes	
<input checked="" type="checkbox"/> Total Xylenes	WESTWALL	6-16-95	45000	74000 B		No	
<input type="checkbox"/> MTBE							
POLYNUCLEAR AROMATICS (PNAs)							
<input checked="" type="checkbox"/> Acenaphthene	WESTWALL	6-16-95	<1000	120000 B		No	
<input checked="" type="checkbox"/> Anthracene	BOTTOM	6-16-95	2500	150000 B		No	
<input checked="" type="checkbox"/> Benzo(a)anthracene	NORTHWALL	6-16-95	1600	14000 B		No	
<input checked="" type="checkbox"/> Benzo(a)pyrene	BOTTOM	6-16-95	1100	3700 B		No	
<input checked="" type="checkbox"/> Benzo(b)fluoranthene	WESTWALL	6-16-95	<1000	14000 B		No	
<input checked="" type="checkbox"/> Benzo(k)fluoranthene	WESTWALL	6-16-95	<1000	140000 B		No	
<input checked="" type="checkbox"/> Chrysene	NORTHWALL	6-16-95	850	140000 B		No	
<input checked="" type="checkbox"/> Dibenzo-(a,b)anthracene	WESTWALL	6-16-95	<330	4200 B		No	
<input checked="" type="checkbox"/> Fluoranthene	BOTTOM	6-16-95	6900	68000 B		No	
<input checked="" type="checkbox"/> Fluorene	WESTWALL	6-16-95	11000	89000 B		No	
<input checked="" type="checkbox"/> Indeno(1,2,3-cd)pyrene	WESTWALL	6-16-95	<330	14000 B		No	
<input checked="" type="checkbox"/> Naphthalene	WESTWALL	6-16-95	52000	5500 B		Yes	
<input checked="" type="checkbox"/> Pyrene	BOTTOM	6-16-95	4600	56000 B		No	

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 8 (CON'T)
TIER I RBSL / TIER II OR TIER III SSTL COMPARISON TABLE FOR SOILS
FACILITY NAME ANN ARBOR CITY GARAGE
FACILITY ID NO. 0-008427

Contaminant	Sample ID with Maximum Detected Concentration	Corresponding Sample Date	Maximum Detected Concentration (ug/kg)	Applicable Criterion with Exposure Codes (ug/kg)		Criterion Exceeded? (Yes or No)	
				Tier I RBSL	Tier II/III SSTL	Tier I RBSL	Tier II/III SSTL
METALS							
<input type="checkbox"/> Cadmium							
<input type="checkbox"/> Chromium III							
<input type="checkbox"/> Chromium VI							
<input type="checkbox"/> Total Lead							
PCBs							
<input type="checkbox"/> Aroclor 1016							
<input type="checkbox"/> Aroclor 1221							
<input type="checkbox"/> Aroclor 1232							
<input type="checkbox"/> Aroclor 1242							
<input type="checkbox"/> Aroclor 1248							
<input type="checkbox"/> Aroclor 1254							
<input type="checkbox"/> Aroclor 1280							
HALOGENATED HYDROCARBONS							
<input type="checkbox"/> Carbon Tetrachloride							
<input type="checkbox"/> 1,1-Dichloroethane							
<input type="checkbox"/> 1,2-Dichloroethane							
<input type="checkbox"/> 1,1-Dichloroethylene							
<input type="checkbox"/> cis-1,2-Dichloroethylene							
<input type="checkbox"/> trans-1,2-Dichloroethylene							
<input type="checkbox"/> Tetrachloroethylene							
<input type="checkbox"/> 1,1,2-Trichloroethane							
OTHER*							
<input checked="" type="checkbox"/> ACENAPHTHYLENE	WESTWALL	6-16-95	< 1000	1400 B	No		
<input checked="" type="checkbox"/> BENZO(GH) PERYLENE	WESTWALL	6-16-95	< 330	1500 000 B	No		
<input checked="" type="checkbox"/> PHENANTHRENE	BOTTOM	6-16-95	9900	7400 B	YES		

* List additional contaminants as appropriate

Contaminant	Concentration (ppb)	Location
Benzene	2300	S-4 Westw
Toluene	9900	S-4 Westw
Ethylbenzene	34000	S-4 Westw
Xylenes	45000	S-4 Westw
Acenaphthene	<1000	S-4 Westw
Acenaphthylene	<1000	S-4 Westw
Anthracene	2500	S-1 Botton
Benzo(a)anthracene	1600	S-3 Northw
Benzo(a)pyrene	1100	S-1 Botton
Benzo(b)fluoranthene	<1000	S-4 Westw
Benzo(glu)perylene	<330	S-4 Westw
Benzo(k)fluoranthene	<1000	S-4 Westw
Chrysene	850	S-3 Northw
Dibenzo(a,h)anthracene	<330	S-4 Westw
Fluoranthene	6900	S-1 Botton
Fluorene	11000	S-4 Westw
Indeno(1,2,3-cd)pyrene	<330	S-4 Westw
Naphthalene	52000	S-4 Westw
Phenanthrene	9900	S-1 Botton
Pyrene	4600	S-1 Botton



LEGEND:

- ◆ EXISTING MONITORING WELL INSTALLED BY THE TRAVERSE GROUP, INC. BETWEEN JUNE, 1990 AND MARCH, 1993
- ◆ EXCAVATION SIDEWALL SAMPLE COLLECTED BY NTH CONSULTANTS, LTD. PERSONNEL ON JUNE 16, 1995
- ◆ EXCAVATION BOTTOM SAMPLE COLLECTED BY NTH CONSULTANTS, LTD. PERSONNEL ON JUNE 16, 1995
- EXCAVATION WATER SAMPLE COLLECTED BY NTH CONSULTANTS, LTD. PERSONNEL ON JUNE 16, 1995
- ◆ GEOPROBES & MONITORING WELLS INSTALLED BY NTH CONSULTANTS, LTD. BETWEEN 8-29-95 AND 8-31-95

**SOIL SAMPLING LOCATIONS
MAXIMUM CONTAMINANT CONCENTRATIONS**
 INTANCE GARAGE
 ANN ARBOR
 RTH MAIN STREET
 BOR, MICHIGAN

NTH CONSULTANTS, LTD.
 Professional Engineering & Environmental Services
 Farmington Hills, Michigan

0-R2	DRAWN BY: KRH	DATE: 12-12-95	ATTACHMENT NO: 9
#N	CHECKED BY: JPS	SHEET 1 OF 1	

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Attachment 12

Soil Boring Logs

LOG OF GEOPROBES

PROBE NO.	GROUND SURFACE ELEV.	DEPTH (FT)	DESCRIPTION	SAMPLE INFORMATION			
				SAMPLE NO.	DEPTH (FT)		HNU Reading (PPM)
					FROM	TO	
GP-1	N/A	0.0-0.5	PAVEMENT: CONCRETE				
		0.5-3.0	FILL: BROWN SILTY SAND & GRAVEL				
		3.0-4.0	FILL: BROWN SILTY CLAY WITH SAND SEAMS				
		4.0-6.5	FILL: BLACK ORGANIC CLAYEY SILT	S-1	0.5	4.5	<1
		6.5-11.5	BROWN SILTY FINE TO MEDIUM SAND	S-2	4.5	8.5	<1
		11.5-12.5	GRAY CLAYEY SILT WITH SANDY SILT SEAMS	S-3	8.5	12.5	<1
[GROUNDWATER ENCOUNTERED AT 6.5 FT BGS; CAVED TO 5.5 FT BGS]							
GP-2	N/A	0.0-0.5	PAVEMENT: CONCRETE				
		0.5-3.0	FILL: BROWN SILTY SAND & GRAVEL				
		3.0-6.5	BLACK SANDY CLAY TO CLAYEY SILT WITH SOME SAND (ORGANIC ODOR)	S-1	0.5	4.5	130
		6.5-9.0	BROWN SILTY SAND & GRAVEL	S-2	4.5	8.5	150
		9.0-12.5	GRAY CLAYEY SILT WITH SANDY SILT SEAMS	S-3	8.5	12.5	<1
		[GROUNDWATER ENCOUNTERED AT 6.5 FT BGS; CAVED TO 6.5 FT BGS]					
GP-3	N/A	0.0-0.2	PAVEMENT: ASPHALT				
		0.2-2.0	FILL: DARK BROWN SILTY SAND & GRAVEL WITH TRACE OF WOOD				
		2.0-6.0	BLACK ORGANIC CLAYEY SILT	S-1	0.5	4.5	<1
		6.0-11.0	BROWN SILTY FINE TO MEDIUM SAND	S-2	4.5	8.5	<1
		11.0-12.5	GRAY SILTY CLAY WITH SILT SEAMS	S-3	8.5	12.5	<1
		[GROUNDWATER ENCOUNTERED AT 6.0 FT BGS; CAVED TO 5.0 FT BGS]					

NOTES:

- [1] GEOPROBES BACKFILLED WITH BENTONITE CHIPS.
- [2] GEOPROBE DRILLING INSPECTED BY C. ANDREWS OF NTH CONSULTANTS, LTD.

DRILLED BY:

T. PARSONS (ALL TERRAIN SERVICES)

DATE:

08/29/95 - 08/30/95

FIGURE NO:

LOG OF GEOPROBES

PROBE NO.	GROUND SURFACE ELEV.	DEPTH (FT)	DESCRIPTION	SAMPLE INFORMATION							
				SAMPLE NO.	DEPTH (FT)		HNU Reading (PPM)				
					FROM	TO					
GP-4	N/A	0.0-5.0	FILL: BROWN SILTY FINE TO MEDIUM SAND	S-1	0.0	4.0	<1				
		5.0-6.0	BLACK SILTY FINE TO MEDIUM SAND (ODOR)								
		6.0-11.5	BROWN SILTY SAND & GRAVEL								
		11.5-12.0	GRAY SILTY CLAY								
			[GROUNDWATER ENCOUNTERED AT 3.0 FT BGS]								
GP-5	N/A	0.0-0.2	PAVEMENT: ASPHALT	S-1	0.5	4.5	<1				
		0.2-3.0	FILL: BROWN SILTY SAND & GRAVEL								
		3.0-4.0	FILL: GRAY SILTY CLAY WITH SOME SAND								
		4.0-6.0	BLACK ORGANIC CLAYEY SILT								
		6.0-7.0	GRAY MARL								
		7.0-12.0	BROWN SILTY SAND & GRAVEL					S-2	4.5	8.5	<1
		12.0-12.5	GRAY SILT					S-3	8.5	12.5	<1
			[GROUNDWATER ENCOUNTERED AT 7.0 FT BGS; CAVED TO 5.5 FT BGS]								
GP-6	N/A	0.0-0.2	PAVEMENT: ASPHALT	S-1	0.5	4.5	7				
		0.2-2.0	FILL: BROWN SILTY SAND & GRAVEL								
		2.0-4.0	FILL: BROWN SILTY CLAY WITH TRACE OF GRAVEL								
		4.0-5.5	FILL: BLACK ORGANIC CLAYEY SILT WITH OCCASIONAL SAND SEAMS								
		5.5-7.0	GRAY MARL					S-2	4.5	8.5	700
		7.0-12.5	BROWN SILTY SAND & GRAVEL					S-3	8.5	12.5	<1
			[GROUNDWATER ENCOUNTERED AT 7.0 FT BGS; CAVED TO 4.0 FT BGS]								

NOTES:

- [1] GEOPROBES BACKFILLED WITH BENTONITE CHIPS.
- [2] GEOPROBE DRILLING INSPECTED BY C. ANDREWS OF NTH CONSULTANTS, LTD.

DRILLED BY:

T. PARSONS (ALL TERRAIN SERVICES)

DATE:

08/29/95 - 08/30/95

FIGURE NO:

LOG OF GEOPROBES

PROBE NO.	GROUND SURFACE ELEV.	DEPTH (ft)	DESCRIPTION	SAMPLE INFORMATION			
				SAMPLE NO.	DEPTH (ft)		HNU Reading (PPM)
					FROM	TO	
GP-7	N/A	0.0-3.5	FILL: BROWN SILTY SAND & GRAVEL	S-1	0.0	4.0	20
		3.5-7.0	GRAY SILTY SAND WITH MARL SEAMS	S-2	4.0	8.0	300
		7.0-12.0	BROWN SILTY SAND & GRAVEL [GROUNDWATER ENCOUNTERED AT 7.0 FT BGS]	S-3	8.0	12.0	<1
GP-8	N/A	0.0-0.5	PAVEMENT: CONCRETE	S-1	0.5	4.5	80
		0.5-4.5	FILL: BROWN SILTY SAND & GRAVEL WITH OCCASIONAL CLAY SEAMS				
		4.5-7.0	BLACK ORGANIC CLAYEY SILT (PEAT)				
7.0-8.0	GRAY MARL	S-2	4.5	8.5	200		
8.0-9.5	DARK BROWN SILTY SAND & GRAVEL						
9.5-12.0	GRAY SILTY CLAY WITH SAND SEAMS						
12.0-12.5	BROWN SILTY SAND & GRAVEL [GROUNDWATER ENCOUNTERED AT 8.0 FT BGS]	S-3	8.5	12.5	<1		
GP-9	N/A	0.0-0.3	PAVEMENT: ASPHALT	S-1	0.5	4.5	100
		0.3-4.0	FILL: BROWN SILTY SAND & GRAVEL WITH TRACE OF BRICK				
		4.0-8.0	FILL: BLACK CLAYEY SILT				
8.0-8.5	BROWN SILTY CLAY WITH SILT SEAMS	S-2	4.5	8.5	120		
8.5-12.5	BROWN SILTY SAND						
	[GROUNDWATER ENCOUNTERED AT 6.5 FT BGS; CAVED TO 8.0 FT BGS]						
GP-10	N/A	0.0-0.5	PAVEMENT: CONCRETE	S-1	0.5	4.5	<1
		0.5-3.0	FILL: BROWN SILTY SAND & GRAVEL WITH OCCASIONAL CLAY SEAMS				
		3.0-5.5	BLACK ORGANIC CLAYEY SILT WITH OCCASIONAL SAND SEAMS				
5.0-6.5	GRAY MARL	S-2	4.5	8.5	<1		
6.5-8.0	BROWN SILTY FINE TO MEDIUM SAND						
8.0-12.0	GRAY SILTY CLAY WITH OCCASIONAL SILT SEAMS [GROUNDWATER ENCOUNTERED AT 6.5 FT BGS; CAVED TO 7.0 FT BGS]						
		S-3	8.5	12.5	<1		

NOTES:

- [1] GEOPROBES BACKFILLED WITH BENTONITE CHIPS.
 [2] GEOPROBE DRILLING INSPECTED BY C. ANDREWS OF NTH CONSULTANTS, LTD.

Attachment 13

Well Construction Diagrams

NTH Consultants, Ltd.

MONITORING WELL NO. MW-101

Project Name : ANN ARBOR MAIN STREET GARAGE

NTH Proj. No: 13-5000 R2

Project Location : ANN ARBOR, MICHIGAN

Checked By : 

LOG OF MONITORING WELL

GROUNDWATER DATA

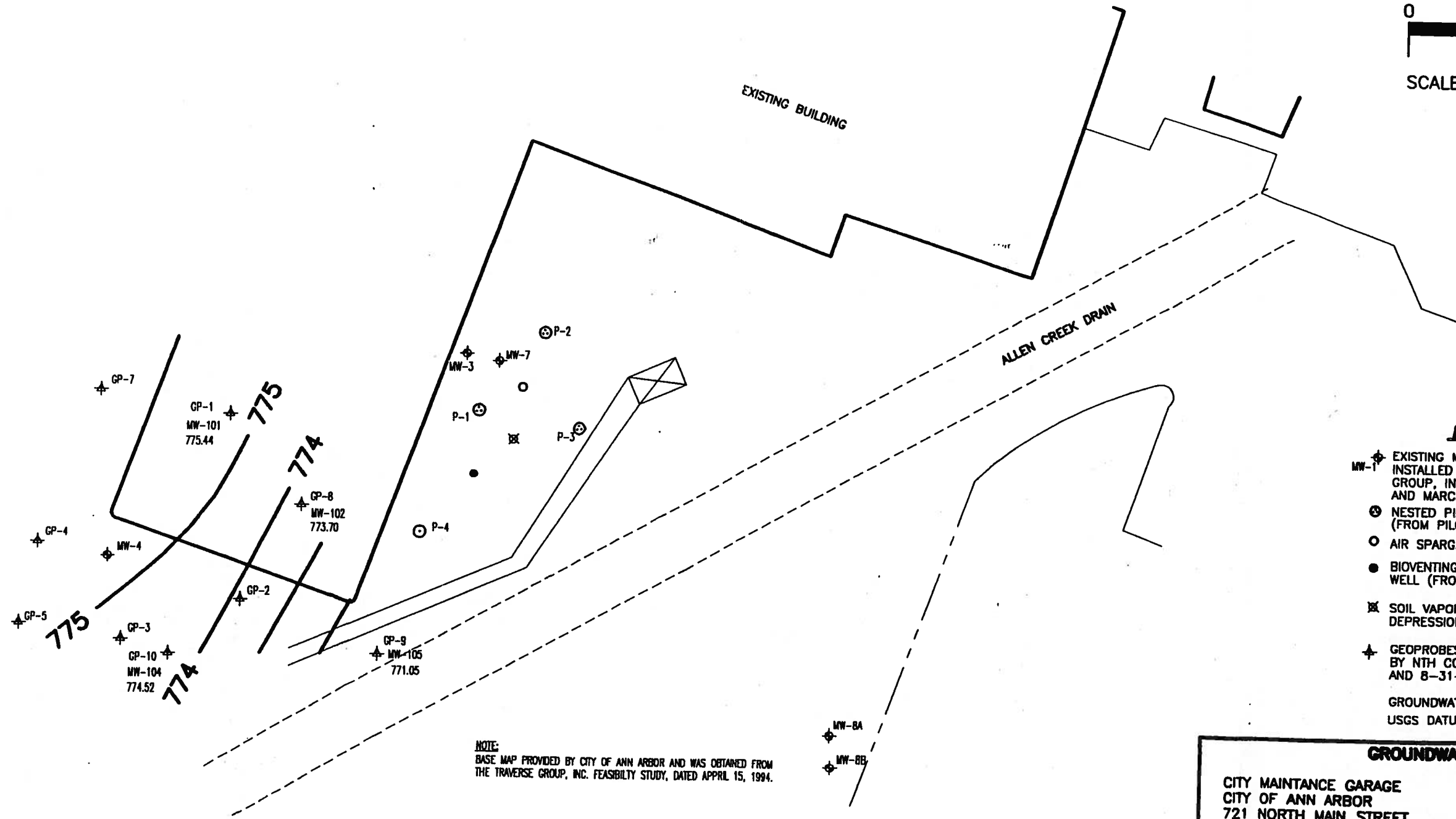
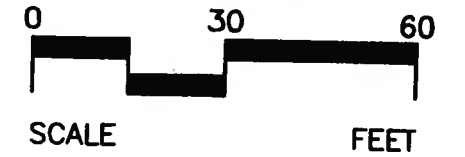
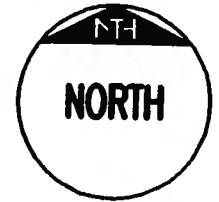
Generalized Subsurface Profile		Installation Schematic		Date	Ground-water Elev. (ft)	Comments
ELEV. PRO. (FT)	FILE	GROUND SURFACE ELEVATION: 778.9	TOP OF WELL CASING ELEVATION: 778.58			
		PAVEMENT: CONCRETE 0.5	NON-SHRINKING CEMENT GROUT 1.0			
		FILL: SILTY SAND & GRAVEL 3.0	BENTONITE CHIPS 3.0			
775		FILL: SILTY CLAY 4.0				
		FILL: ORGANIC CLAYEY SILT 6.5				
770		SILTY SAND 10.2	SAND 10.2			
		END OF BORING	TIP ELEVATION: 768.8			
765						NOTES : [1] FOR DETAILS OF SUBSURFACE STRATA, SEE LOG OF GEOPROBES, GP-1. [2] TOP OF CASING & GROUND SURFACE ELEVATIONS BASED ON USGS DATUM.
760						

Started: 08/31/95
Completed: 08/31/95
Inspector: C. ANDREWS
Driller: K. HOPE
Contractor: GEO-TEK, INC.
Equipment: CME-45 DRILL RIG
Well Type: MONITORING

Casing Diameter: 2.0"
Casing Length: 4.8'
Casing Type: PVC
Screen Diameter: 2.0"
Screen Length: 5.0'
Screen Mesh: 0.010"
Screen Type: PVC

Figure No. 1

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NOTE:
 BASE MAP PROVIDED BY CITY OF ANN ARBOR AND WAS OBTAINED FROM
 THE TRAVERSE GROUP, INC. FEASIBILITY STUDY, DATED APRIL 15, 1994.

LEGEND:

- ◆ EXISTING MONITORING WELL INSTALLED BY THE TRAVERSE GROUP, INC. BETWEEN JUNE, 1990 AND MARCH, 1993
 - ⊙ NESTED PIEZOMETER LOCATION (FROM PILOT STUDY)
 - AIR SPARGING WELL (FROM PILOT STUDY)
 - BIOVENTING AIR INJECTION WELL (FROM PILOT STUDY)
 - ⊠ SOIL VAPOR EXTRACTION/GROUNDWATER DEPRESSION WELL (FROM PILOT STUDY)
 - ◆ GEOPROBES & MONITORING WELLS INSTALLED BY NTH CONSULTANTS, LTD. BETWEEN 8-29-95 AND 8-31-95
- GROUNDWATER ELEVATION 9-5-95
 USGS DATUM

GROUNDWATER FLOW

CITY MAINTANCE GARAGE
 CITY OF ANN ARBOR
 721 NORTH MAIN STREET
 ANN ARBOR, MICHIGAN



NTH CONSULTANTS, LTD.

Professional Engineering & Environmental Services

Farmington Hills, Michigan

PROJECT NO. 13-5000-R2	DRAWN BY: JD	DATE: 09-05-95	ATTACHMENT NO: 14
SCALE: AS SHOWN	CHECKED BY: JPS	SHEET 1 OF 1	

INITIAL ASSESSMENT REPORT ATTACHMENT NO. 18
LABORATORY RESULTS - GROUNDWATER
FACILITY NAME ANN ARBOR CITY GARAGE
FACILITY ID NUMBER 0-008427
(Duplicate table as needed)

VOLATILES										
Sample ID	WS1 EXCAVATION		GP-2		GP-5		GP-7			
Sample Depth (feet BGS)	6.5		6.5		7.5		7.5			
Date Collected	6-16-95		8-29-95		8-30-95		8-30-95			
Date Extracted	6-21-95		9-06-95		9-06-95		9-06-95			
Date Analyzed	6-21-95		9-06-95		9-06-95		9-06-95			
Collection Method*	OT*		GP		GP		GP			
Analytical Method No.	8020		8020		8020		8020			
CONSTITUENT (ug/l)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Benzene	ND	1	ND	1	ND	1	ND	1		
<input checked="" type="checkbox"/> Toluene	ND	1	ND	1	ND	1	ND	1		
<input checked="" type="checkbox"/> Ethylbenzene	32	1	ND	1	ND	1	ND	1		
<input checked="" type="checkbox"/> Total Xylenes	51	3	ND	3	ND	3	ND	3		
<input type="checkbox"/> MTBE										
POLYNUCLEAR AROMATICS (PNA_s)										
Sample ID	WS1 - EXCAVATION		GP-2		GP-5		GP-7			
Sample Depth (feet BGS)	6.5		6.5		7.5		7.5			
Date Collected	6-16-95		8-29-95		8-30-95		8-30-95			
Date Extracted	6-20-95		9-01-95		9-01-95		9-01-95			
Date Analyzed	6-22-95		9-01-95		9-01-95		9-01-95			
Collection Method*	OT*		GP		GP		GP			
Analytical Method No.	8310		8310		8310		8310			
CONSTITUENT (ug/l)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Acenaphthene	ND	5	ND	5	ND	5	ND	5		
<input checked="" type="checkbox"/> Anthracene	ND	5	ND	5	ND	5	ND	5		
<input checked="" type="checkbox"/> Benzo(a)anthracene	ND	5	ND	5	ND	5	ND	5		
<input checked="" type="checkbox"/> Benzo(a)pyrene	ND	5	ND	5	ND	5	ND	5		
<input checked="" type="checkbox"/> Benzo(b)fluoranthene	ND	5	ND	5	ND	5	ND	5		
<input checked="" type="checkbox"/> Benzo(k)fluoranthene	ND	5	ND	5	ND	5	ND	5		
<input checked="" type="checkbox"/> Chrysene	ND	5	ND	5	ND	5	ND	5		
<input checked="" type="checkbox"/> Dibenzo(a,h)anthracene	ND	5	ND	5	ND	5	ND	5		

BGS = Below Ground Surface
MDL = Method Detection Limit

* Collection Method Codes (List all that apply): Bailor (BL), Geoprobe (GP), Purge Pump (PP), Cone Penetrometer (CP), Hydropunch (HP)
If Other (OT), specify here: * GRAB FROM EXCAVATION

INITIAL ASSESSMENT REPORT ATTACHMENT NO. 18 (CON'T)
LABORATORY RESULTS - GROUNDWATER
FACILITY NAME ANN ARBOR CITY GARAGE
FACILITY ID NUMBER 0-008427
(Duplicate table as needed)

POLYNUCLEAR AROMATICS (PNAs)										
Sample ID	WSI-EXCAVATION		GP-2		GP-5		GP-7			
Sample Depth (feet BGS)	6.5		6.5		7.5		7.5			
Date Collected	6-16-95		8-29-95		8-30-95		8-30-95			
Date Extracted	6-20-95		9-01-95		9-01-95		9-01-95			
Date Analyzed	6-22-95		9-01-95		9-01-95		9-01-95			
Collection Method*	OT*									
Analytical Method No.										
CONSTITUENT (ug/l)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Fluoranthene	ND	5	ND	5	ND	5	ND	5		
<input checked="" type="checkbox"/> Fluorene	67	5	ND	5	ND	5	ND	5		
<input checked="" type="checkbox"/> Indeno(1,2,3-cd)pyrene	ND	5	ND	5	ND	5	ND	5		
<input checked="" type="checkbox"/> Naphthalene	190	5	ND	5	ND	5	ND	5		
<input checked="" type="checkbox"/> Pyrene	66	5	ND	5	ND	5	ND	5		
METALS - FILTERED										
Sample ID										
Sample Depth (feet BGS)										
Date Collected										
Date Extracted										
Date Analyzed										
Collection Method*										
Analytical Method No.										
CONSTITUENT (ug/l)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/> Cadmium										
<input type="checkbox"/> Chromium III										
<input type="checkbox"/> Chromium VI										
<input type="checkbox"/> Total Lead										

BGS = Below Ground Surface
MDL = Method Detection Limit

* Collection Method Codes (List all that apply): Bailor (BL), Geoprobe (GP), Purge Pump (PP), Cone Penetrometer (CP), Hydropunch (HP)
If other (OT), specify here: * GRAB FROM EXCAVATION

**INITIAL ASSESSMENT REPORT ATTACHMENT NO. 18
LABORATORY RESULTS - GROUNDWATER**

FACILITY NAME ANN ARBOR CITY GARAGE
FACILITY ID NUMBER 0-008427

(Duplicate table as needed)

VOLATILES										
Sample ID	MW-101		MW-102		MW-103		MW-104		MW-105	
Sample Depth (feet BGS)	3.5		5.1		3.5		4.3		7.9	
Date Collected	9-05-95		9-05-95		9-05-95		9-05-95		9-05-95	
Date Extracted	9-11-95		9-11-95		9-11-95		9-11-95		9-11-95	
Date Analyzed	9-11-95		9-11-95		9-11-95		9-11-95		9-11-95	
Collection Method*	BL		BL		BL		BL		BL	
Analytical Method No.	8020		8020		8020		8020		8020	
CONSTITUENT (ug/l)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Benzene	ND	1	ND	1	ND	1	ND	1	ND	1
<input checked="" type="checkbox"/> Toluene	ND	1	ND	1	ND	1	ND	1	ND	1
<input checked="" type="checkbox"/> Ethylbenzene	ND	1	ND	1	ND	1	ND	1	ND	1
<input checked="" type="checkbox"/> Total Xylenes	ND	3	ND	3	ND	3	ND	3	ND	3
<input type="checkbox"/> MTBE										
POLYNUCLEAR AROMATICS (PNA _s)										
Sample ID	MW-101		MW-102		MW-103		MW-104		MW-105	
Sample Depth (feet BGS)	3.5		5.1		3.5		4.3		7.9	
Date Collected	9-05-95		9-05-95		9-05-95		9-05-95		9-05-95	
Date Extracted	9-11-95		9-11-95		9-11-95		9-11-95		9-11-95	
Date Analyzed	9-11-95		9-11-95		9-11-95		9-11-95		9-11-95	
Collection Method*	BL		BL		BL		BL		BL	
Analytical Method No.	8310		8310		8310		8310		8310	
CONSTITUENT (ug/l)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Acenaphthene	ND	5	ND	5	ND	5	ND	5	ND	5
<input checked="" type="checkbox"/> Anthracene	ND	5	ND	5	ND	5	ND	5	ND	5
<input checked="" type="checkbox"/> Benzo(a)anthracene	ND	5	ND	5	ND	5	ND	5	ND	5
<input checked="" type="checkbox"/> Benzo(a)pyrene	ND	5	ND	5	ND	5	ND	5	ND	5
<input checked="" type="checkbox"/> Benzo(b)fluoranthene	ND	5	ND	5	ND	5	ND	5	ND	5
<input checked="" type="checkbox"/> Benzo(k)fluoranthene	ND	5	ND	5	ND	5	ND	5	ND	5
<input checked="" type="checkbox"/> Chrysene	ND	5	ND	5	ND	5	ND	5	ND	5
<input checked="" type="checkbox"/> Dibenzo(a,h)anthracene	ND	5	ND	5	ND	5	ND	5	ND	5

BGS - Below Ground Surface
MDL - Method Detection Limit

* Collection Method Codes (List all that apply): Baller (BL), Geoprobe (GP), Purge Pump (PP), Cone Penetrometer (CP), Hydropunch (HP)
If Other (OT), specify here: _____

INITIAL ASSESSMENT REPORT ATTACHMENT NO. 18 (CON'T)
LABORATORY RESULTS - GROUNDWATER
 FACILITY NAME ANN ARBOR CITY GARAGE
 FACILITY ID NUMBER 0-008427
 (Duplicate table as needed)

POLYNUCLEAR AROMATICS (PNAs)										
Sample ID	MW-101		MW-102		MW-103		MW-104		MW-105	
Sample Depth (feet BGS)	3.5		5.1		3.5		4.3		7.9	
Date Collected	9-05-95		9-05-95		9-05-95		9-05-95		9-05-95	
Date Extracted	9-11-95		9-11-95		9-11-95		9-11-95		9-11-95	
Date Analyzed	9-11-95		9-11-95		9-11-95		9-11-95		9-11-95	
Collection Method*	BL		BL		BL		BL		BL	
Analytical Method No.	8310		8310		8310		8310		8310	
CONSTITUENT (ug/l)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input checked="" type="checkbox"/> Fluoranthene	ND	5	ND	5	ND	5	ND	5	ND	5
<input checked="" type="checkbox"/> Fluorene	ND	5	ND	5	ND	5	ND	5	ND	5
<input checked="" type="checkbox"/> Indeno(1,2,3-cd)pyrene	ND	5	ND	5	ND	5	ND	5	ND	5
<input checked="" type="checkbox"/> Naphthalene	ND	5	ND	5	ND	5	ND	5	ND	5
<input checked="" type="checkbox"/> Pyrene	ND	5	ND	5	ND	5	ND	5	ND	5
METALS - FILTERED										
Sample ID										
Sample Depth (feet BGS)										
Date Collected										
Date Extracted										
Date Analyzed										
Collection Method*										
Analytical Method No.										
CONSTITUENT (ug/l)	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/> Cadmium										
<input type="checkbox"/> Chromium III										
<input type="checkbox"/> Chromium VI										
<input type="checkbox"/> Total Lead										

BGS = Below Ground Surface

MDL = Method Detection Limit

* Collection Method Codes (List all that apply): Bailor (BL), Geoprobe (GP), Purge Pump (PP), Cone Penetrometer (CP), Hydropunch (HP)
 If Other (OT), specify here: _____

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 18 (CON'T)
LABORATORY RESULTS - GROUNDWATER

FACILITY NAME ANN ARBOR CITY GARAGE
 FACILITY ID NUMBER 0-008427
 (Duplicate table as needed)

PCBs											
Sample ID											
Sample Depth (feet BGS)											
Date Collected											
Date Extracted											
Date Analyzed											
Collection Method*											
Analytical Method No.											
CONSTITUENT (ug/l)											
<input type="checkbox"/>	Aroclor 1016	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/>	Aroclor 1221										
<input type="checkbox"/>	Aroclor 1232										
<input type="checkbox"/>	Aroclor 1242										
<input type="checkbox"/>	Aroclor 1248										
<input type="checkbox"/>	Aroclor 1254										
<input type="checkbox"/>	Aroclor 1280										
HALOGENATED HYDROCARBONS											
Sample ID											
Sample Depth (feet BGS)											
Date Collected											
Date Extracted											
Date Analyzed											
Collection Method*											
Analytical Method No.											
CONSTITUENT (ug/l)											
<input type="checkbox"/>	Carbon Tetrachloride	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
<input type="checkbox"/>	1,1-Dichloroethane										
<input type="checkbox"/>	1,2-Dichloroethane										
<input type="checkbox"/>	1,1-Dichloroethylene										
<input type="checkbox"/>	cis-1,2-Dichloroethylene										
<input type="checkbox"/>	trans-1,2-Dichloroethylene										

BGS = Below Ground Surface
 MDL = Method Detection Limit
 * Collection Method Codes (List all that apply): Bailer (BL), Geoprobe (GP), Purge Pump (PP), Cone Penetrometer (CP), Hydropunch (HP)
 If Other (OT), specify here: _____

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 19
TIER I RBSL / TIER II OR TIER III SSTL COMPARISON TABLE FOR GROUNDWATER
FACILITY NAME ANN ARBOR CITY GARAGE
FACILITY ID NO. 0-008427

Residential

Commercial

Industrial

Exposure Codes

A. Potable

B. Groundwater/Surface Water Interface

Contaminant	Sample ID with Maximum Detected Concentration	Corresponding Sample Date	Maximum Detected Concentration (ug/l)	Applicable Criterion with Exposure Code (ug/l)		Criterion Exceeded? (Yes or No)	
				Tier I RBSL	Tier II/III SSTL	Tier I RBSL	Tier II/III SSTL
VOLATILES							
<input checked="" type="checkbox"/> Benzene							
<input checked="" type="checkbox"/> Toluene			All < 1.0	5 A	No		
<input checked="" type="checkbox"/> Ethylbenzene	EXCAVATION H ₂ O	6-16-95	All < 1.0	790 A	No		
<input checked="" type="checkbox"/> Total Xylenes	EXCAVATION H ₂ O	6-16-95	32	74 A	No		
<input type="checkbox"/> MTBE			51	280 A	No		
POLYNUCLEAR AROMATICS (PNAs)							
<input checked="" type="checkbox"/> Acenaphthene							
<input checked="" type="checkbox"/> Anthracene			All < 5.0	1300 A	No		
<input checked="" type="checkbox"/> Benzo(a)anthracene			All < 5.0	7300 A	No		
<input checked="" type="checkbox"/> Benzo(a)pyrene			All < 5.0	1.20 A	No		
<input checked="" type="checkbox"/> Benzo(b)fluoranthene			All < 5.0	0.20 A	No		
<input checked="" type="checkbox"/> Benzo(k)fluoranthene			All < 5.0	1.20 A	No		
<input checked="" type="checkbox"/> Chrysene			All < 5.0	12 A	No		
<input checked="" type="checkbox"/> Dibenzo(a,h)anthracene			All < 5.0	120 A	No		
<input checked="" type="checkbox"/> Fluoranthene			All < 5.0	0.12 A	No		
<input checked="" type="checkbox"/> Fluorene	EXCAVATION H ₂ O	6-16-95	All < 5.0	880 A	No		
<input checked="" type="checkbox"/> Indeno(1,2,3-cd)pyrene			67	880 A	No		
<input checked="" type="checkbox"/> Naphthalene	EXCAVATION H ₂ O	6-16-95	All < 5.0	1.20 A	No		
<input checked="" type="checkbox"/> Pyrene	EXCAVATION H ₂ O	6-16-95	190	260 A	No		
			66	550 A	No		

INITIAL ASSESSMENT REPORT ATTACHMENT NO. 19 (CON'T)
TIER I RBSL / TIER II OR TIER III SSTL COMPARISON TABLE FOR GROUNDWATER

FACILITY NAME ANN ARBOR CITY GARAGE
 FACILITY ID NO. 0-008427

Contaminant	Sample ID with Maximum Detected Concentration	Corresponding Sample Date	Maximum Detected Concentration (ug/l)	Applicable Criterion with Exposure Code (ug/l)		Criterion Exceeded? (Yes or No)	
				Tier I RBSL	Tier II/III SSTL	Tier I RBSL	Tier II/III SSTL
METALS - FILTERED							
<input type="checkbox"/> Cadmium							
<input type="checkbox"/> Chromium III							
<input type="checkbox"/> Chromium VI							
<input type="checkbox"/> Total Lead							
PCBs							
<input type="checkbox"/> Aroclor 1016							
<input type="checkbox"/> Aroclor 1221							
<input type="checkbox"/> Aroclor 1232							
<input type="checkbox"/> Aroclor 1242							
<input type="checkbox"/> Aroclor 1248							
<input type="checkbox"/> Aroclor 1254							
<input type="checkbox"/> Aroclor 1280							
HALOGENATED HYDROCARBONS							
<input type="checkbox"/> Carbon Tetrachloride							
<input type="checkbox"/> 1,1-Dichloroethane							
<input type="checkbox"/> 1,2-Dichloroethane							
<input type="checkbox"/> 1,1-Dichloroethylene							
<input type="checkbox"/> cis-1,2-Dichloroethylene							
<input type="checkbox"/> trans-1,2-Dichloroethylene							
<input type="checkbox"/> Tetrachloroethylene							
<input type="checkbox"/> 1,1,2-Trichloroethane							
OTHER *							
<input checked="" type="checkbox"/> ACENAPHTHYLENE							
<input checked="" type="checkbox"/> BENZO(GH) PERYLENE				ALL < 5.0	26 A	No	
<input checked="" type="checkbox"/> PHENANTHRENE	EXCAVATION H ₂ O	6-16-95		ALL < 5.0 250	26 A	No	
					26 A	Yes	

* * * additional contaminants as appropriate

INITIAL ASSESSMENT REPG. - ATTACHMENT NO. 19
TIER I RBSL / TIER II OR TIER III SSTL COMPARISON TABLE FOR GROUNDWATER
FACILITY NAME ANN ARBOR CITY GARAGE
FACILITY ID NO. 0-008427

Residential

Commercial

Industrial

Exposure Codes

A. Potable

B. Groundwater/Surface Water Interface

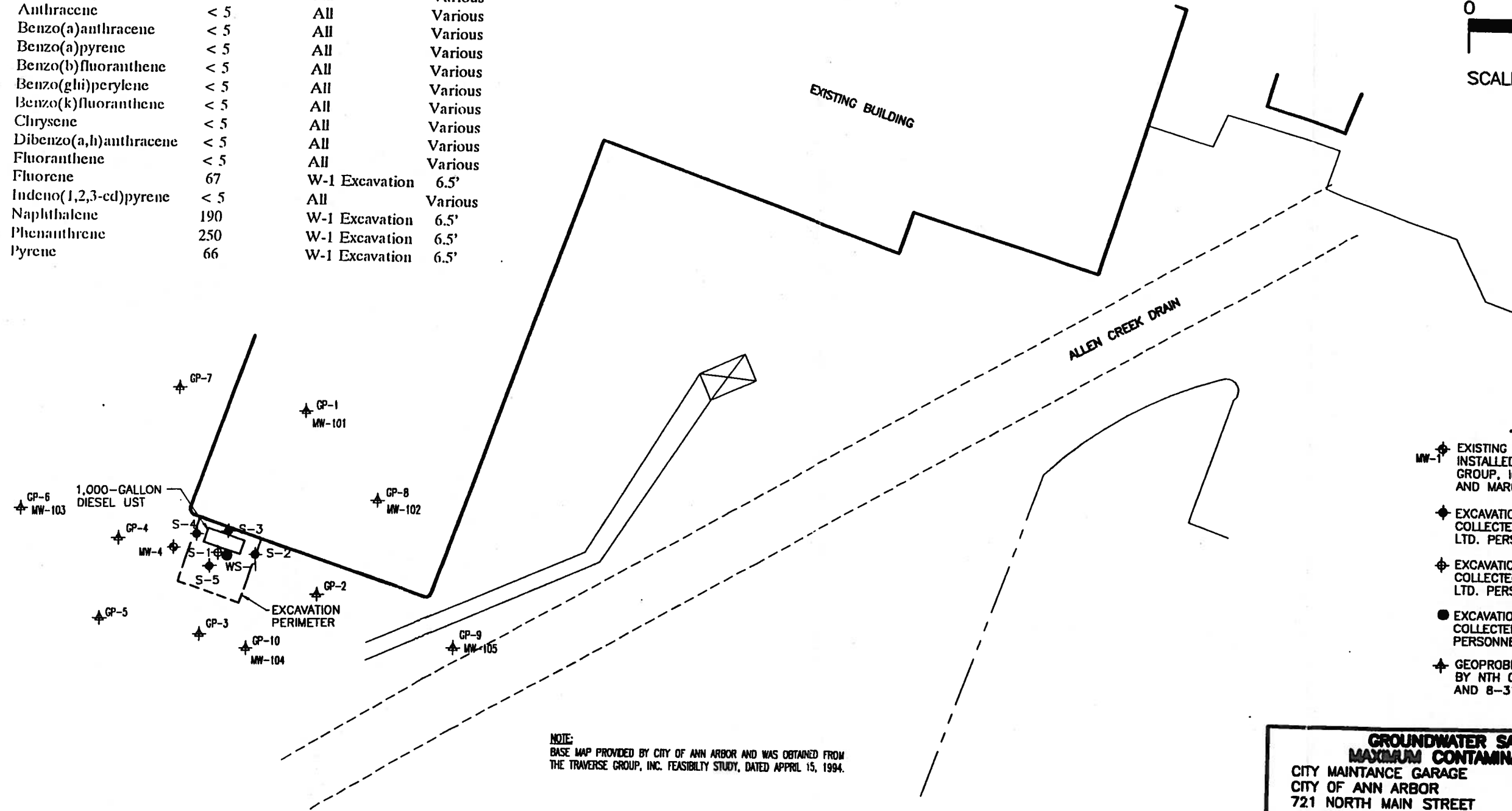
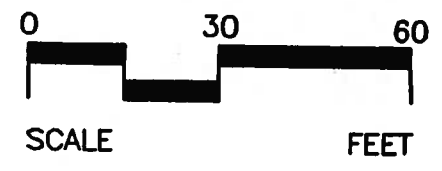
Contaminant	Sample ID with Maximum Detected Concentration	Corresponding Sample Date	Maximum Detected Concentration (ug/l)	Applicable Criterion with Exposure Code (ug/l)		Criterion Exceeded? (Yes or No)	
				Tier I RBSL	Tier II/III SSTL	Tier I RBSL	Tier II/III SSTL
VOLATILES							
<input checked="" type="checkbox"/> Benzene							
<input checked="" type="checkbox"/> Toluene			All < 1.0	53 B		No	
<input checked="" type="checkbox"/> Ethylbenzene	EXCAVATION H ₂ O	6-16-95	All < 1.0	110 B		No	
<input checked="" type="checkbox"/> Total Xylenes	EXCAVATION H ₂ O	6-16-95	32	31 B		No	
<input type="checkbox"/> MTBE			51	59 B		Yes	
POLYNUCLEAR AROMATICS (PNAs)							
<input checked="" type="checkbox"/> Acenaphthene							
<input checked="" type="checkbox"/> Anthracene			All < 5.0	3.80 B		No	
<input checked="" type="checkbox"/> Benzo(a)anthracene			All < 5.0	110 000 B		No	
<input checked="" type="checkbox"/> Benzo(a)pyrene			All < 5.0	0.31 B		No	
<input checked="" type="checkbox"/> Benzo(b)fluoranthene			All < 5.0	0.31 B		No	
<input checked="" type="checkbox"/> Benzo(k)fluoranthene			All < 5.0	0.31 B		No	
<input checked="" type="checkbox"/> Chrysene			All < 5.0	0.31 B		No	
<input checked="" type="checkbox"/> Dibenzo-(a,h)anthracene			All < 5.0	0.31 B		No	
<input checked="" type="checkbox"/> Fluoranthene			All < 5.0	0.31 B		No	
<input checked="" type="checkbox"/> Fluorene	EXCAVATION H ₂ O	6-16-95	All < 5.0	370 B		No	
<input checked="" type="checkbox"/> Indeno(1,2,3-cd)pyrene			67	14 000 B		No	
<input checked="" type="checkbox"/> Naphthalene	EXCAVATION H ₂ O	6-16-95	All < 5.0	0.31		No	
<input checked="" type="checkbox"/> Pyrene	EXCAVATION H ₂ O	6-16-95	190	29 B		No	Yes
			66	11 000 B		No	

INITIAL ASSESSMENT REPORT - ATTACHMENT NO. 19 (CON'T)
TIER I RBSL / TIER II OR TIER III SSTL COMPARISON TABLE FOR GROUNDWATER
FACILITY NAME ANN ARBOR CITY GARAGE
FACILITY ID NO. 0-008427

Contaminant	Sample ID with Maximum Detected Concentration	Corresponding Sample Date	Maximum Detected Concentration (ug/l)	Applicable Criterion with Exposure Code (ug/l)		Criterion Exceeded? (Yes or No)	
				Tier I RBSL	Tier II/III SSTL	Tier I RBSL	Tier II/III SSTL
METALS - FILTERED							
<input type="checkbox"/> Cadmium							
<input type="checkbox"/> Chromium III							
<input type="checkbox"/> Chromium VI							
<input type="checkbox"/> Total Lead							
PCBs							
<input type="checkbox"/> Aroclor 1016							
<input type="checkbox"/> Aroclor 1221							
<input type="checkbox"/> Aroclor 1232							
<input type="checkbox"/> Aroclor 1242							
<input type="checkbox"/> Aroclor 1248							
<input type="checkbox"/> Aroclor 1254							
<input type="checkbox"/> Aroclor 1280							
HALOGENATED HYDROCARBONS							
<input type="checkbox"/> Carbon Tetrachloride							
<input type="checkbox"/> 1,1-Dichloroethane							
<input type="checkbox"/> 1,2-Dichloroethane							
<input type="checkbox"/> 1,1-Dichloroethylene							
<input type="checkbox"/> cis-1,2-Dichloroethylene							
<input type="checkbox"/> trans-1,2-Dichloroethylene							
<input type="checkbox"/> Tetrachloroethylene							
<input type="checkbox"/> 1,1,2-Trichloroethane							
OTHER*							
<input checked="" type="checkbox"/> ACENAPHTHYLENE							
<input checked="" type="checkbox"/> BENZO(GH) PERYLENE				All 25.0	N/A B	N/A	
<input checked="" type="checkbox"/> PHENANTHRENE	EXCAVATION H ₂ O	6-16-95		All 25.0	N/A B	N/A	
			250		N/A B	N/A	

* List additional contaminants as appropriate

Contaminant	Concentration (ppb)	Location	Depth
Benzene	< 1	All	Various
Toluene	< 1	All	Various
Ethylbenzene	32	W-1 Excavation	6.5'
Xylenes	51	W-1 Excavation	6.5'
Acenaphthene	< 5	All	Various
Acenaphthylene	< 5	All	Various
Anthracene	< 5	All	Various
Benzo(a)anthracene	< 5	All	Various
Benzo(a)pyrene	< 5	All	Various
Benzo(b)fluoranthene	< 5	All	Various
Benzo(g,h,i)perylene	< 5	All	Various
Benzo(k)fluoranthene	< 5	All	Various
Chrysene	< 5	All	Various
Dibenzo(a,h)anthracene	< 5	All	Various
Fluoranthene	< 5	All	Various
Fluorene	67	W-1 Excavation	6.5'
Indeno(1,2,3-cd)pyrene	< 5	All	Various
Naphthalene	190	W-1 Excavation	6.5'
Phenanthrene	250	W-1 Excavation	6.5'
Pyrene	66	W-1 Excavation	6.5'



LEGEND:

- ◆ EXISTING MONITORING WELL INSTALLED BY THE TRAVERSE GROUP, INC. BETWEEN JUNE, 1990 AND MARCH, 1993
- ◆ EXCAVATION SIDEWALL SAMPLE COLLECTED BY NTH CONSULTANTS, LTD. PERSONNEL ON JUNE 16, 1995
- ◆ EXCAVATION BOTTOM SAMPLE COLLECTED BY NTH CONSULTANTS, LTD. PERSONNEL ON JUNE 16, 1995
- EXCAVATION WATER SAMPLE COLLECTED BY NTH CONSULTANTS, LTD. PERSONNEL ON JUNE 16, 1995
- ◆ GEOPROBES & MONITORING WELLS INSTALLED BY NTH CONSULTANTS, LTD. BETWEEN 8-29-95 AND 8-31-95

NOTE:
BASE MAP PROVIDED BY CITY OF ANN ARBOR AND WAS OBTAINED FROM THE TRAVERSE GROUP, INC. FEASIBILITY STUDY, DATED APRIL 15, 1994.

GROUNDWATER SAMPLING LOCATIONS MAXIMUM CONTAMINANT CONCENTRATIONS CITY MAINTANCE GARAGE CITY OF ANN ARBOR 721 NORTH MAIN STREET ANN ARBOR, MICHIGAN			
NTH CONSULTANTS, LTD. Professional Engineering & Environmental Services Farmington Hills, Michigan			
PROJECT NO. 13-5000-R2	DRAWN BY: KRH	DATE: 12-12-95	ATTACHMENT NO: <h1 style="margin: 0;">20</h1>
SCALE: AS SHOWN	CHECKED BY: JPS	SHEET 1 of 1	