APPENDIX L

Previous Reports

DEQ

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY – REMEDIATION & REDEVELOPMENT DIVISION
PO BOX 30426, LANSING, MI 48909-7926, Phone 517-373-9837, Fax 517-373-2637, E-mail DEQ-STD-TANKS@michigan.gov

LEAKING UNDERGROUND STORAGE TANK
SUPPLEMENTAL REPORT COVER SHEET

STRUCTIONS: Complete this form with all applicable information. Attach this form to all supplemental Leaking Underground Storage Tank (LUST) bmittals; this includes all reports other than the Initial Assessment, Final Assessment, and Closure Reports. The Certified Underground Storage Tank ofessional (CP) MUST sign below. Please return this completed report cover sheet to the appropriate RRD District Office. See form EQP4410 for a mplete list of RRD district offices. Use of this form to provide the listed information is voluntary.

ENTIFY TYPE OF SUPPLEMENTAL REPORT: Project Completion Report

CILITY NAME: Department of Agriculture – State Fairgrounds Site | FACILITY ID NUMBER: 0-0009795

REET ADDRESS: 1120 West State Fair Drive CITY: Detroit

ATE: Michigan ZIP CODE: 48203 COUNTY: Wayne

TE(S) RELEASE(S) DISCOVERED: May 9, 2003 | CONFIRMED RELEASE NUMBER(S): C-0187-03

) NAME: Michigan Department of Agriculture

) STREET ADDRESS: 1120 West State Fair Detroit STATE: MI ZIP CODE: 48203

NTACT PERSON: Mr. David Nederlander | PHONE NUMBER: (517) 369-8231

ANSWER ALL QUESTIONS

Type(s) of product released: Gasoline

Free product present:
Currently? ☐YES ☒NO
Previously? ☐YES ☒NO

If YES, total gallons recovered since last report: NA
If YES, total gallons recovered to date: NA

lave vapors been identified in any confined spaces (basement, sewers)? ☐YES ☒NO

:stimated depth to groundwater: None Encountered in Significant Quantities | Estimated groundwater flow direction: NA

:stimated distance and direction from point of release to nearest:
Private well: > 5 Miles b. Municipal well: > 5 Miles c. Surface water/wetland: > 5 Miles

ince last report: a. cubic yards of soil remediated: 523 Tons (300 Cubic Yards) b. gallons of groundwater remediated: None

otals to date: a. cubic yards of soil remediated: b. gallons of groundwater remediated: None

lichigan RBCA Site Classification (1-4): 3

as contamination migrated off-site above Tier 1 Residential RBSLs ☐YES ☒NO

YES, have off-site impacted parties been notified (per Section 21309a(3) of Part 213 ☐YES ☐NO

MTBE	Has MTBE been detected in any groundwater sample? ☒YES ☐NO	Maximum MTBE concentration found in groundwater 600 ppb.

CERTIFICATION OF REPORT COMPLETION

undersigned CP, hereby attest to the best of my knowledge and belief that the statements in this document and all attachments are accurate, and complete. I certify that the report was submitted to the Remediation & Redevelopment Division (RRD).

11/10/03 (Date submitted **REQUIRED**)

riginal Signature - (**REQUIRED**) Date 11/10/03

ugtas E. Drouare
T CP's Name

732

RECEIVED
NOV 14 2003
MDEQ

Eric M. Ruppresht
PRINT QC PROJECT MANAGER'S NAME

RC Engineering, Inc. A Wilcox Company
NAME OF CONSULTING FIRM

QC ID: Z0097

RESS 5859 Sherman Road Sagina, MI 48604 PHONE: (989) 752-6500 FAX: (989) 752-6600

PROJECT COMPLETION REPORT
UNDERGROUND STORAGE TANK REMOVAL
DEPARTMENT OF AGRICULTURE – STATE FAIRGROUNDS SITE
1120 WEST STATE FAIR DRIVE
DETROIT, WAYNE COUNTY, MICHIGAN
FACILITY ID NO. 0-0009795

NOVEMBER 10, 2003

PREPARED FOR:

TETRA TECH NUS, INC.
1921 EAST MILLER ROAD
LANSING, MICHIGAN 48911
TETRA TECH SUBCONTRACT NO. CCSTD-011007 (RB)

PREPARED BY:

RC ENGINEERING, INC., A WILCOX COMPANY
5859 SHERMAN ROAD
SAGINAW, MICHIGAN 48604
RC PROJECT NO.: E-029947

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DEPARTMENT OF AGRICULTURE – STATE FAIRGROUNDS SITE
1120 WEST STATE FAIR DRIVE
DETROIT,WAYNE COUNTY, MICHIGAN
FACILITY ID NO. 0-0009795

1.0 PRE-TANK REMOVAL ACTIVITIES

1.1 Project Initiation

RC Engineering, Inc., A Wilcox Company (RC), was subcontracted (Subcontract No. CCSTD-011007 (RB)) by Tetra Tech NUS, Inc. (TT) to conduct the services shown below at the Department of Agriculture – State Fairgrounds Site located at 1120 West State Fair Drive in the City of Detroit, Wayne County, Michigan. This site was a modification to the original project identified as the "Detroit Group B Tank Pulls" of the same subcontract number.

Scope of Services Include:

- Pre-Tank Removal Activities
- Underground Storage Tank (UST) and Contaminated Soil/Groundwater Removal and Disposal Oversight and Sampling
- Limited Site Assessment
- Generation of a Project Completion Report

The UST's were located in an area that had been utilized as a parking area for the State Fairgrounds. Two, 2,000-gallon UST's (Tank ID Numbers 5 and 6) formerly utilized to store gasoline were identified on the Michigan Department of Environmental Quality (MDEQ) web site. The UST's were installed in 1987. A confirmed release for this UST system was identified on May 9, 2003. The date the UST's were last operated is unknown.

1.2 Pre-tank Removal Activities

A preliminary project meeting was held at the referenced site on June 18, 2003 with TT, M.L. Chartier, RC, State Fairgrounds personnel and the MDEQ. RC received a scope of services cost request from TT for the project and submitted a price proposal form on June 27, 2003.

Upon the UST's being removed from the ground, RC completed and submitted an amended registration (MDEQ Form EQP3821 – Rev 11/02). A copy of the amended registration is located in Appendix I.

2.0 SUMMARY OF CORRECTIVE ACTIONS

2.1 Immediate Response Action Implementation

M.L. Chartier removed approximately 2,857 gallons of product/fluids from two UST's on July 23, 2003. The Uniform Hazardous Waste Manifest documenting the amount of fluid removed is shown in Appendix A. The UST's were cleaned, degassed and removed the same day. The UST number, capacity and identified content are summarized below.

UST No.	Capacity (gallons)	Content
#1	2,000	Leaded/Unleaded Gasoline
#2	2,000	Leaded/Unleaded Gasoline

Visibly stained soils and petroleum odors were detected as the UST's were removed. The UST's did not appear to be in poor condition as no holes were observed. A confirmed release report had previously been submitted for the site. No free product was observed.

Sandy fill material was encountered in the top two feet of the excavation. Sandy clay was observed throughout the remainder of the excavation. Mottled, blue-green clay was observed to a depth of approximately seven and a half feet below the ground surface and brown clay to the extent of the excavation. Groundwater was observed in the excavation after the UST's were removed. The encountered groundwater is interpreted to be water that has collected in the fill material surrounding the tanks. A distinct water bearing zone was not encountered on the site. Due to the limited amount of groundwater present, no pumping was necessary to proceed with the soil excavation and backfilling.

Soil samples were collected from the excavation based upon "MDEQ Sampling Strategies and Statistics Training Materials for Part 201 Cleanup Criteria" (MDEQ-Remediation and Redevelopment Division, 2002). All samples were screened in the field with a Thermo Environmental Instruments, Inc. Photoionization Detector (PID) to evaluate the presence or absence of compounds having an ionization potential (IP) of 10.6 electron volts (eV) or less. The PID was field calibrated to Isobutylene and has a lower detection limit of approximately one part per million (PPM). Testing was performed by sealing representative portions of each sample in a plastic zip-lock bag and allowing the contents to elevate in temperature. The probe of the PID was then inserted through the top of the bag and the soil-gas headspace tested. Daily PID Field Screening Logs are attached as Appendix F. M.L. Chartier removed a total of 522.6 tons of impacted soil from the site and disposed at Woodland Meadows Landfill in Van Buren, Michigan. Non-hazardous waste manifests for the disposed soils are included in Appendix B.

A total of fifteen soil samples were collected for verification purposes from the excavation. Six samples were collected from the floor of the excavation with the remaining nine from sidewalls and former utilities penetrating the excavation. Soil samples submitted for laboratory analysis were collected from differing types of strata at varying levels.

At the completion of the soil removal activities, the excavation was backfilled with sand and compacted. Stone was placed on top of the compacted sand. The stone brought the excavation to approximately six inches below the surrounding grade in preparation for asphalt placement at a later time. Copies of density tests verifying the compaction of the sand fill are included in Appendix C.

2.2 Free Product Discovery and Removal

Free product was not observed at the site.

3.0 VERIFICATION SAMPLING

3.1 Target Parameters

Collected soil and groundwater samples were analyzed for volatile organic compounds and lead (total and dissolved). The laboratory analyses selected for each sample were based upon MDEQ Operational Memorandum No. 14. The following parameters are reported in Table 1 and Table 2 as these are the indicator parameters for leaded gas releases:

> Benzene, toluene, ethylbenzene and xylenes (BTEX), 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene (TMB's), methyl-tert-butyl-ether (MTBE), 1,2-dibromoethane, 1,2-dichloroethane, naphthalene, 2-methylnaphthalene, total lead and dissolved lead.

3.2 Soil Verification Sampling

A total of fifteen soil samples were collected for verification purposes from the excavation with six samples collected from the floor of the excavation and the remaining nine from sidewalls and former utilities entering and exiting the excavation ("MDEQ Sampling Strategies and Statistics Training Materials for Part 201 Cleanup Criteria, 2002).

Floor Samples

The floor samples include S-21, S-22, S-23, S-24, S-72 and S-73. Analytical results for samples S-21, S-22, S-23 and S-24 indicated concentrations of MTBE were present in levels exceeding Part 201 Residential Cleanup Criteria of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as amended (Part 201 Residential Cleanup Criteria). MTBE was also present in samples S-72 and S-73 but in concentrations below the criteria. Total lead was present above laboratory method detection levels (MDL's) in each of the bottom samples but below the Statewide Default Background Level.

Sidewall Samples

Sidewall samples collected include S-19, S-25, S-26, S-38, S-41, S-49, S-62, S-68 and S-71. Samples S-19 and S-68 were from a former clay drainage tile penetrating the excavation and S-25 was collected where an electrical line was observed entering the excavation. Concentrations of volatile compounds exceeding MDL's were observed at each of these sample locations with the exception of S-71. Concentrations of volatile organic compounds exceeding Part 201 Residential Cleanup Criteria were observed at S-25, S-26, S-38, S-41, S-62 and S-68. Analytical parameters exceeded include benzene, ethylbenzene, naphthalene, MTBE and 1,2,4-trimethylbenzene. Total lead exceeding MDL's was observed at each of these locations with the exception of S-19 but in concentrations below exceeding NREPA Part 201 Residential Cleanup Criteria.

Figure 3 shows the sampling locations along with the extent of the excavation. Table 1 contains a summary of the soil sampling results along with a comparison to NREPA Part 201 Residential Cleanup Criteria. The laboratory analytical data reports are presented in Appendix G.

3.3 Groundwater Verification Sampling

One groundwater sample, WS-1, was collected from the floor of the excavation. This sample was collected on July 23, 2003 immediately following removal of the UST's from the ground. Significant quantities of groundwater were not observed after the UST's were removed. The analytical results indicated that concentrations of the following compounds were present in levels exceeding NREPA Part 201 Residential Cleanup Criteria: BTEX, TMB's, naphthalene, 2-methylnaphthalene, MTBE and n-propylbenzene. Other concentrations of volatile organic compounds were also detected in concentrations exceeding MDL's but below NREPA Part 201 Residential Cleanup Criteria.

Table 2 contains a summary of the groundwater sampling results along with a comparison to NREPA Part 201 Residential Cleanup Criteria. The laboratory analytical data report is presented in Appendix H.

3.4 Verification for Other Media

No media other than soil and groundwater were verified.

4.0 SITE ASSESSMENT

4.1 UST Removal Assessment Activities

A Site Location Map, Site Diagram, Sample Location Diagram, Cross-section Reference Diagram and Cross-section Diagram are attached as Figures 1 through 5, respectively.

The laboratory analytical results for the collected soil samples indicated that contaminant concentrations exceeding NREPA Part 201 Residential Cleanup Criteria remain in the floor and sidewalls of the excavation.

4.2 Post-UST Removal Activities

Following the placement of gravel on the top of the excavation, no additional site activities were performed.

4.3 Soil and Groundwater Conditions

Stained, fill sand was encountered in the top two feet of the excavation. Sandy clay to a depth of approximately seven and a half feet was observed below the fill sand. Frequent silt and sand partings with blue and green mottling were observed in this layer. From approximately seven and a half feet to the bottom of the excavation, brown, sandy clay was observed. No significant amounts of groundwater were observed in the excavation after the UST's were removed.

5.0 RISK BASED CORRECTIVE ACTION (RBCA) EVALUATION

5.1 Property Use Categories

Tier I Residential/Commercial I Criteria was selected as the applicable property use category for the site. Based upon the analytical sampling results collected from the sidewalls and floor of the excavation, the extent of contamination has not been defined.

Determination of off-site contamination was not included in the project scope of services. Based upon the size of the property in relation to the size and location of the release, it is not likely that contamination has migrated onto off-site properties.

5.2 Exposure Pathways

Only the exposure pathways exceeding NREPA Part 201 Residential Cleanup Criteria were evaluated.

5.2.1 Soil

Tier I Residential and Commercial I Criteria for Drinking Water Protection
Tier I Residential and Commercial I Criteria for Groundwater Surface Water Interface Protection
Tier I Residential and Commercial I Criteria for Volatilization to Indoor Air Inhalation

5.2.2 Groundwater

Tier I Residential and Commercial I Criteria for Drinking Water
Tier I Groundwater Surface Water Interface

5.3 Potential Receptors

5.3.1 Soil

5.3.1.1 Tier I Residential and Commercial I Criteria for Drinking Water Protection

The MDEQ website was evaluated to identify domestic/public water supply wells within a 2-year travel time of the site. No wells were identified. During the excavation, groundwater was not encountered in significant quantities. As a result, this pathway is not relevant.

5.3.1.2 Tier I Residential and Commercial I Criteria for Groundwater Surface Water Interface Protection

A copy of the 7-1/2 minute USGS topographic map of the Highland Park, Michigan Quadrangle depicting the area of the subject site is included as Figure 6. This map was derived from aerial photographs taken in 1968 and revised in 1983. This map shows the roads, highways and other landmarks essentially as they appeared at that time. The topographic contour lines shown on this map indicate that the subject site had a ground surface elevation of approximately 642 feet above Mean Sea Level (MSL). There were no significant water bodies (river, streams or lakes) within a five-mile radius of the site. Local surface water drainage may be modified by the presence of man made drainage features. Based upon the distance to the nearest surface water feature and the observed clay deposits in the soil, this criteria does not pose a relevant exposure pathway.

5.3.1.3 Tier I Residential and Commercial I Criteria for Volatilization to Indoor Air Inhalation

No structures or buildings are currently present in the area of the identified contamination exceeding this criteria. However, the potential exists for a structure to be constructed in this area since no building restrictions exist. As a result, this criteria may pose a relevant exposure pathway.

5.3.2 Groundwater

5.3.2.1 Tier I Residential and Commercial I Criteria for Drinking Water

The MDEQ website was evaluated to identify domestic/public water supply wells within a 2-year travel time of the site. No wells were identified. During the UST excavations, groundwater was not encountered in significant quantities. As a result, this pathway is not relevant.

5.3.2.2 Tier I Groundwater Surface Water Interface

A copy of the 7-1/2 minute USGS topographic map of the Highland Park, Michigan Quadrangle depicting the area of the subject site is included in Appendix I. This map was derived from aerial photographs taken in 1968 and revised in 1983. This map shows the roads, highways and other landmarks essentially as they appeared at that time. The topographic contour lines shown on this map indicate that the subject site had a ground surface elevation of approximately 642 feet above Mean Sea Level (MSL). There were no significant water bodies (river, streams or lakes) within a five-mile radius of the site. Local surface water drainage may be modified by the presence of man made drainage features. Based upon the distance to the nearest surface water feature and the observed clay deposits in the soil, this criteria does not pose a relevant exposure pathway.

5.4 Site Classification

Contamination in the soil exceeds the indoor air inhalation criteria and the potential exists for vapor concentrations to accumulate. As a result, the site is classified as Class 3.

5.5 Tiered Evaluation and Cleanup Goals

A Tier II or Tier III evaluation was not conducted for the site.

6.0 CONCLUSIONS

6.1 Soil

Based upon the observed soil concentrations, volatile organic compounds exceeding NREPA Part 201 Residential Cleanup Criteria remain along the sidewalls and floor of the excavation. Total lead concentrations were also observed but in concentrations below NREPA Part 201 Residential Cleanup Criteria.

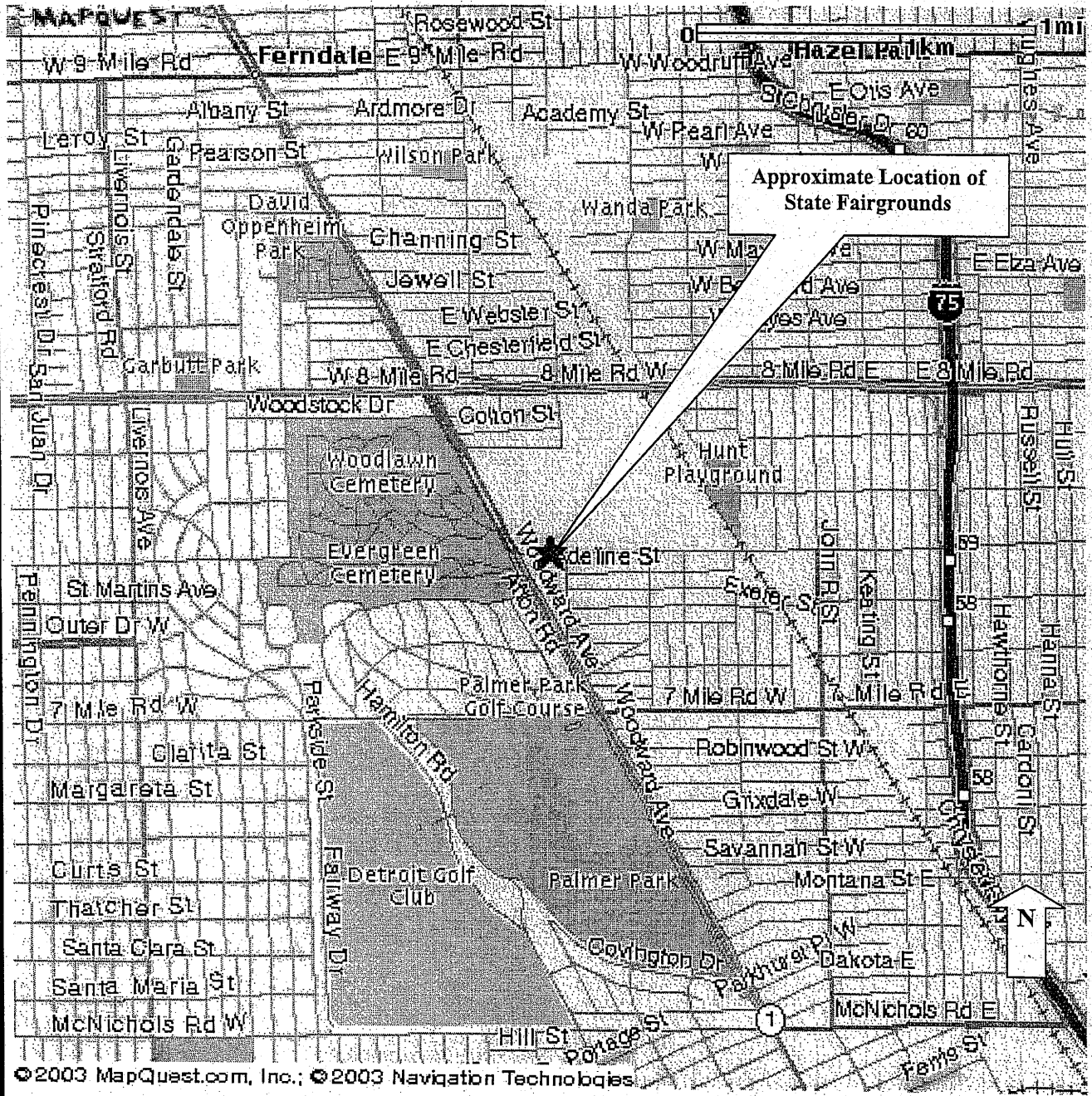
6.2 Groundwater

Based upon the observed groundwater concentrations, volatile organic compounds exceeding NREPA Part 201 Residential Cleanup Criteria exist. Dissolved lead was also observed but in concentrations below NREAPA Part 201 Residential Cleanup Criteria.

7.0 RECOMMENDATIONS FOR FUTURE ACTIVITIES

The following recommendations are based upon the remaining contaminant concentrations on the site.

- The vertical and horizontal extent of soil contamination should be defined.
- Evaluate whether a restriction on the construction of buildings in the area with concentrations exceeding volatilization to indoor air inhalation should be established.



RC ENGINEERING, INC.
Phone: (989) 752-6500; Fax: (989) 752-6600
Website: http://www.rcinc.net

FIGURE 1

SITE LOCATION MAP

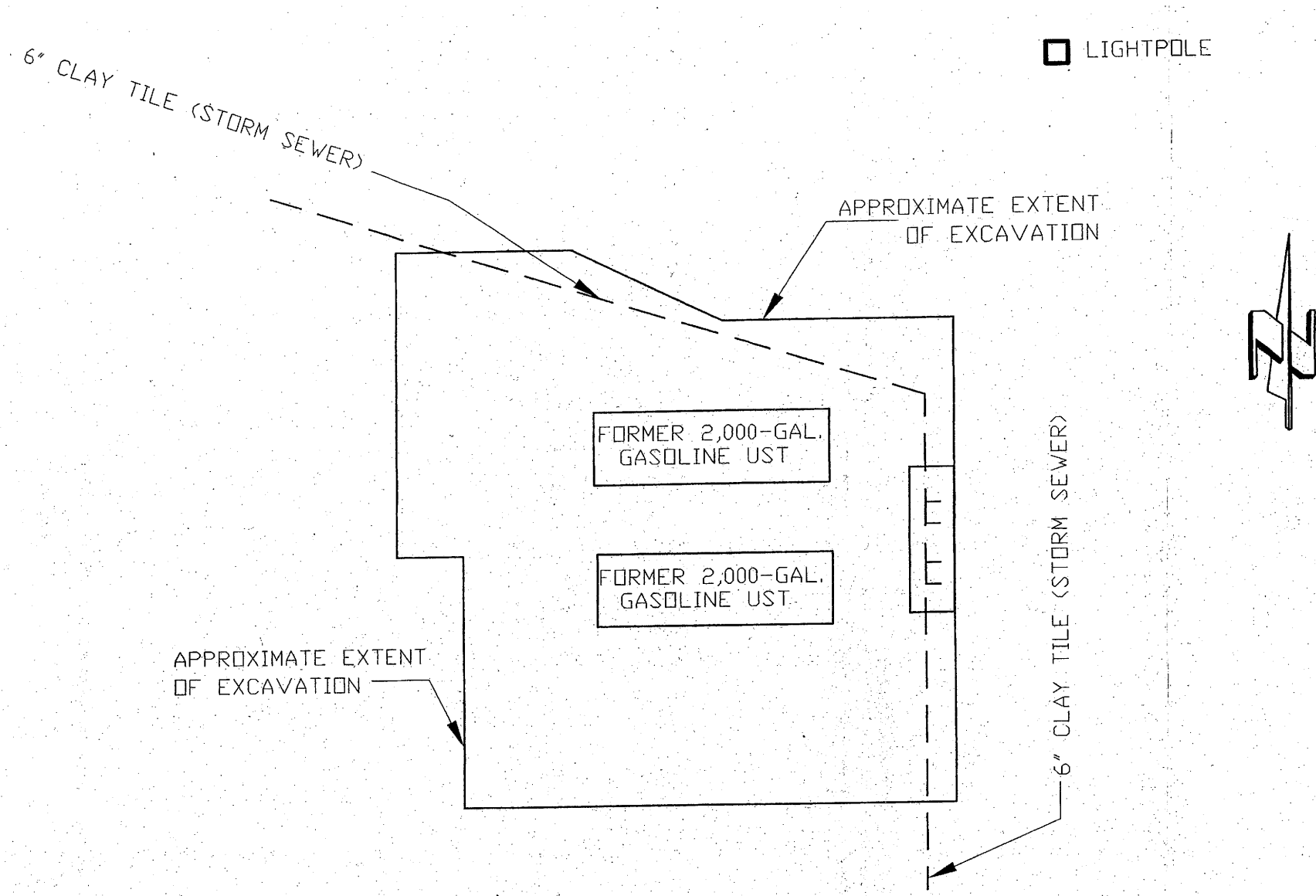
Michigan State Fairgrounds

1120 West State Fair Road

Detroit, Wayne County, Michigan

RC Project No. E-029947

DRAWN BY:	EMR
DATE:	10/6/03
APPROVED BY:	NA
DATE:	NA
UPDATED BY:	NA
DATE:	NA



DRAWN BY: EMR	DATE: 8/1/03
PROJECT MGR: EMR	SCALE: 1"=10'
DATE REVISED: NA	FILE: Site Drawing.DWG

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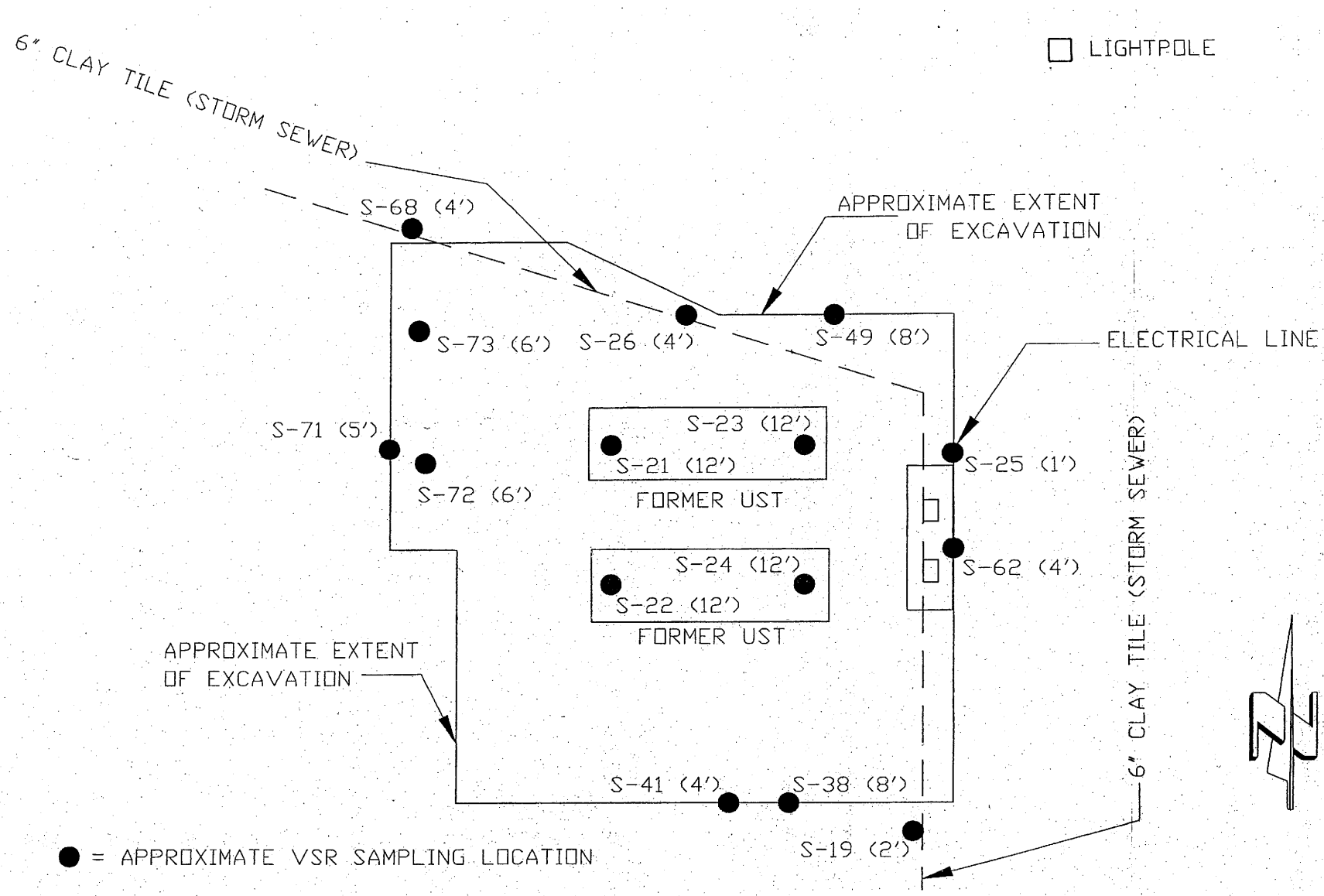
FIGURE 2 - SITE DIAGRAM
DEPARTMENT OF AGRICULTURE
MICHIGAN STATE FAIRGROUNDS
CITY OF DETROIT
WAYNE COUNTY, MICHIGAN
RC PROJECT No. **E-029947**



DRAWN BY: EMR	DATE: 8/1/03
PROJECT MGR: EMR	SCALE: 1"=10'
DATE REVISED: NA	FILE: Site Drawing.DWG

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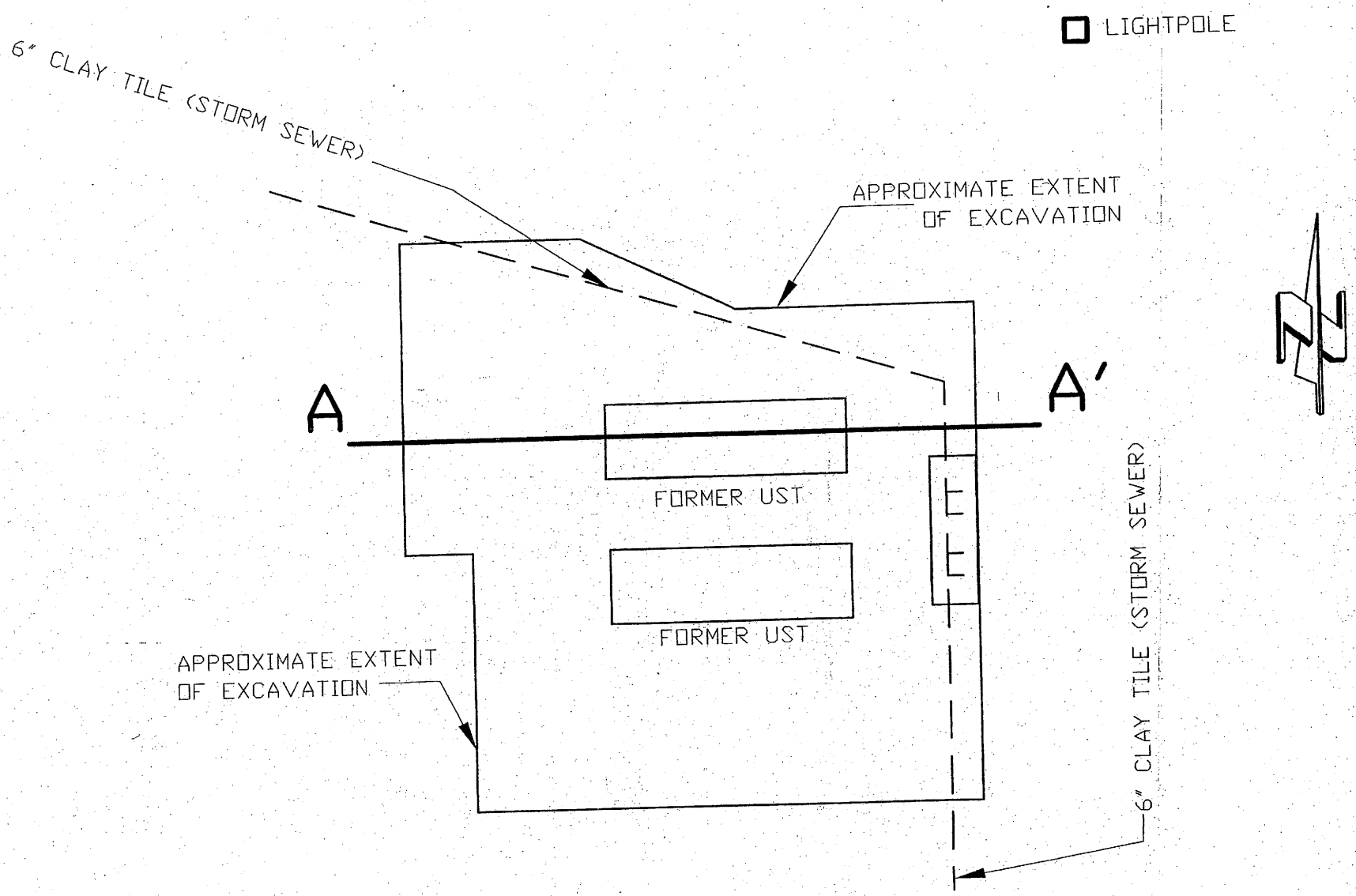
FIG. 3- SAMPLE LOCATION DIAGRAM
DEPARTMENT OF AGRICULTURE
MICHIGAN STATE FAIRGROUNDS
CITY OF DETROIT
WAYNE COUNTY, MICHIGAN
RC PROJECT No. **E-029947**



DRAWN BY: EMR	DATE: 8/1/03
PROJECT MGR: EMR	SCALE: 1"=10'
DATE REVISED: NA	FILE: Site Drawing.DWG

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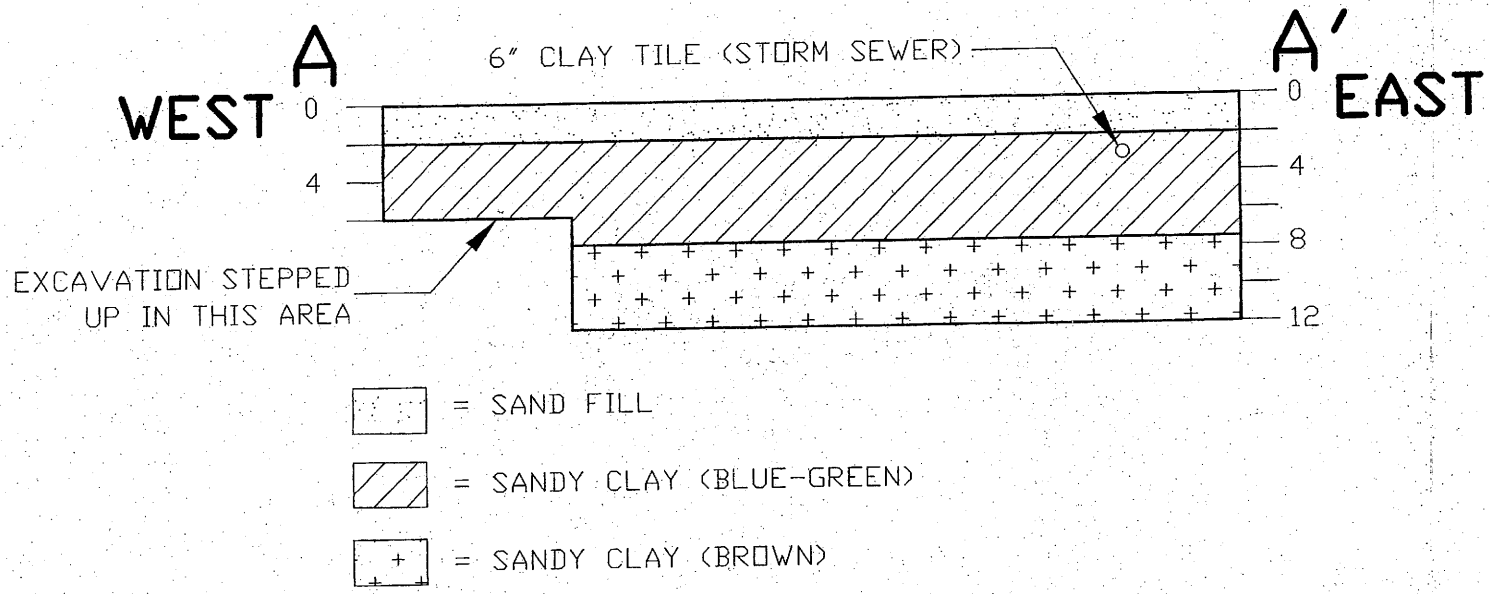
FIG. 4 - CROSS-SECT. REF. DIAG.
DEPARTMENT OF AGRICULTURE
MICHIGAN STATE FAIRGROUNDS
CITY OF DETROIT
WAYNE COUNTY, MICHIGAN
RC PROJECT No. **E-029947**



CROSS-SECTION PRIOR TO SAND BACKFILL

DRAWN BY: EMR	DATE: 8/1/03
PROJECT MGR: EMR	SCALE: 1"=10'
DATE REVISED: NA	FILE: Site Drawing.DWG

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FIG. 5- CROSS-SECTIONAL DIAGRAM
DEPARTMENT OF AGRICULTURE
MICHIGAN STATE FAIRGROUNDS
CITY OF DETROIT
WAYNE COUNTY, MICHIGAN
RC PROJECT No. **E-029947**

Department of Agriculture
Michigan State Fairgrounds
Analytical Soil Sampling Results

VOLATILES										
Sample ID	S-19		S-21		S-22		S-23		S-24	
Sample Depth (feet BGS)	2		12		12		12		12	
Date Collected	7/28/03		7/28/03		7/28/03		7/28/03		7/28/03	
Date Extracted	7/31/03		7/31/03		7/31/03		7/31/03		7/31/03	
Date Analyzed	8/4/03		8/4/03		8/4/03		8/4/03		8/5/03	
Collection Method	Grab Sample		Grab Sample		Grab Sample		Grab Sample		Grab Sample	
Analytical Method	8260		8260		8260		8260		8260	
CONSTITUENT (ug/kg)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
Benzene	90	59	<56	56	<58	58	<56	56	<56	56
Toluene	130	<59	<56	56	<58	58	<56	56	<56	56
Ethylbenzene	94	<59	<56	56	<58	58	<56	56	<56	56
Xylenes	240	120	<110	110	<120	120	<110	110	<110	110
1,2,4-Trimethylbenzene	220	59	<56	56	<58	58	<56	56	<56	56
1,3,5-Trimethylbenzene	<59	59	<56	56	<58	58	<56	56	<56	56
MTBE	<59	59	**2,700**	56	**5,600**	58	**6,900**	56	**9,600**	56
1,2-Dibromoethane	<59	59	<56	56	<58	58	<56	56	<56	56
1,2-Dichloroethane	<59	59	<56	56	<58	58	<56	56	<56	56
Naphthalene	<290	290	<280	280	<290	290	<280	280	<280	280
2-Methylnaphthalene	<290	290	<280	280	<290	290	<280	280	<280	280

METALS										
Sample ID	S-19		S-21		S-22		S-23		S-24	
Sample Depth (feet BGS)	2		12		12		12		12	
Date Collected	7/28/03		7/28/03		7/28/03		7/28/03		7/28/03	
Date Extracted	NA		NA		NA		NA		NA	
Date Analyzed	8/19/03		8/19/03		8/19/03		8/19/03		8/19/03	
Collection Method	Grab Sample		Grab Sample		Grab Sample		Grab Sample		Grab Sample	
Analytical Method	6010		6010		6010		6010		6010	
CONSTITUENT (ug/kg)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
Lead	<500	500	7,400	500	12,000	500	9,300	500	9,700	500
CRITERIA EXCEEDED	NONE		Drinking Water		Drinking Water		Drinking Water		Drinking Water	

BGS = Below Ground Surface
MDL = Method Detection Limit
Bolding Indicates Part 201 Criteria Exceeded

GSI = Groundwater Surface Water Interface Criteria

E-029947

Department of Agriculture
Michigan State Fairgrounds
Analytical Soil Sampling Results

VOLATILES										
Sample ID	S-25		S-26		S-38		S-41		S-49	
Sample Depth (feet BGS)	1 1/4		4		8		4		8	
Date Collected	7/28/03		7/28/03		7/29/03		7/29/03		7/28/03	
Date Extracted	7/31/03		7/31/03		7/31/03		7/31/03		8/5/03	
Date Analyzed	8/5/03		8/5/03		8/5/03		8/5/03		7/31/03	
Collection Method	Grab Sample		Grab Sample		Grab Sample		Grab Sample		Grab Sample	
Analytical Method	8260		8260		8260		8260		8260	
CONSTITUENT (ug/kg)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
Benzene	**210**	61	**1,800**	62	<57	57	**2,600**	55	<57	57
Toluene	180	61	<62	62	<57	57	94	55	<57	57
Ethylbenzene	94	61	**1,800**	62	<57	57	**1,700**	55	<57	57
Xylenes	362	120	250	120	<110	110	140	110	<110	110
1,2,4-Trimethylbenzene	130	61	110	62	<57	57	190	55	<57	57
1,3,5-Trimethylbenzene	<61	61	<62	62	<57	57	<55	55	<57	57
MTBE	<61	61	320	62	**7,200**	56	**1,800**	55	290	56
1,2-Dibromoethane	<61	61	<62	62	<57	57	<55	55	<57	57
1,2-Dichloroethane	<61	61	<62	62	<57	57	<55	55	<57	57
Naphthalene	<300	300	**1,600**	310	<290	290	530	270	<290	290
2-Methylnaphthalene	<300	300	840	310	<290	290	<270	270	<290	290

METALS										
Sample ID	S-25		S-26		S-38		S-41		S-49	
Sample Depth (feet BGS)	1 1/4		4		8		4		8	
Date Collected	7/28/03		7/28/03		7/29/03		7/29/03		7/28/03	
Date Extracted	NA		NA		NA		NA		NA	
Date Analyzed	8/19/03		8/19/03		8/19/03		8/19/03		8/19/03	
Collection Method	Grab Sample		Grab Sample		Grab Sample		Grab Sample		Grab Sample	
Analytical Method	6010		6010		6010		6010		6010	
CONSTITUENT (ug/kg)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
Lead	14,000	500	10,000	500	9,800	500	10,000	500	14,000	500
CRITERIA EXCEEDED	Drinking Water		Drinking Water, GSI, Indoor Air		Drinking Water		Drinking Water, GSI, Indoor Air		NONE	

BGS = Below Ground Surface
MDL = Method Detection Limit
Bolding Indicates Part 201 Criteria Exceeded

GSI = Groundwater Surface Water Interface Criteria

E-029947

Department of Agriculture
Michigan State Fairgrounds
Analytical Soil Sampling Results

VOLATILES										
Sample ID	S-62		S-68		S-71		S-72		S-73	
Sample Depth (feet BGS)	4		4		5		6		6	
Date Collected	7/28/03		7/29/03		7/29/03		7/29/03		7/28/03	
Date Extracted	8/5/03		8/5/03		8/5/03		8/5/03		8/5/03	
Date Analyzed	7/31/03		7/31/03		7/31/03		7/31/03		7/31/03	
Collection Method	Grab Sample		Grab Sample		Grab Sample		Grab Sample		Grab Sample	
Analytical Method	8260		8260		8260		8260		8260	
CONSTITUENT (ug/kg)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
Benzene	**440**	60	<61	61	<58	58	<57	57	<55	55
Toluene	<60	60	<61	61	<58	58	<57	57	<55	55
Ethylbenzene	**570**	60	**380**	61	<58	58	<57	57	<55	55
Xylenes	590	120	440	120	<120	120	<110	110	<110	110
1,2,4-Trimethylbenzene	150	60	**4,300**	61	<58	58	58	57	<55	55
1,3,5-Trimethylbenzene	<60	60	130	61	<58	58	<57	57	<55	55
MTBE	<60	60	<61	61	<58	58	83	57	190	55
1,2-Dibromoethane	<60	60	<61	61	<58	58	<57	57	<55	55
1,2-Dichloroethane	<60	60	<61	61	<58	58	<57	57	<55	55
Naphthalene	**1,600**	300	820	310	<290	290	<280	280	<280	280
2-Methylnaphthalene	1,200	300	2,000	310	<290	290	<280	280	<280	280

METALS										
Sample ID	S-62		S-68		S-71		S-72		S-73	
Sample Depth (feet BGS)	4		4		5		6		6	
Date Collected	7/28/03		7/29/03		7/29/03		7/29/03		7/28/03	
Date Extracted	NA		NA		NA		NA		NA	
Date Analyzed	8/19/03		8/19/03		8/19/03		8/19/03		8/19/03	
Collection Method	Grab Sample		Grab Sample		Grab Sample		Grab Sample		Grab Sample	
Analytical Method	6010		6010		6010		6010		6010	
CONSTITUENT (ug/kg)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
Lead	9,100	500	13,000	500	8,900	500	10,000	500	10,000	500
CRITERIA EXCEEDED	Drinking Water, GSI		Drinking Water, GSI		None		None		None	

BGS = Below Ground Surface GSI = Groundwater Surface Water Interface Criteria
MDL = Method Detection Limit
Bolding Indicates Part 201 Criteria Exceeded

E-029947

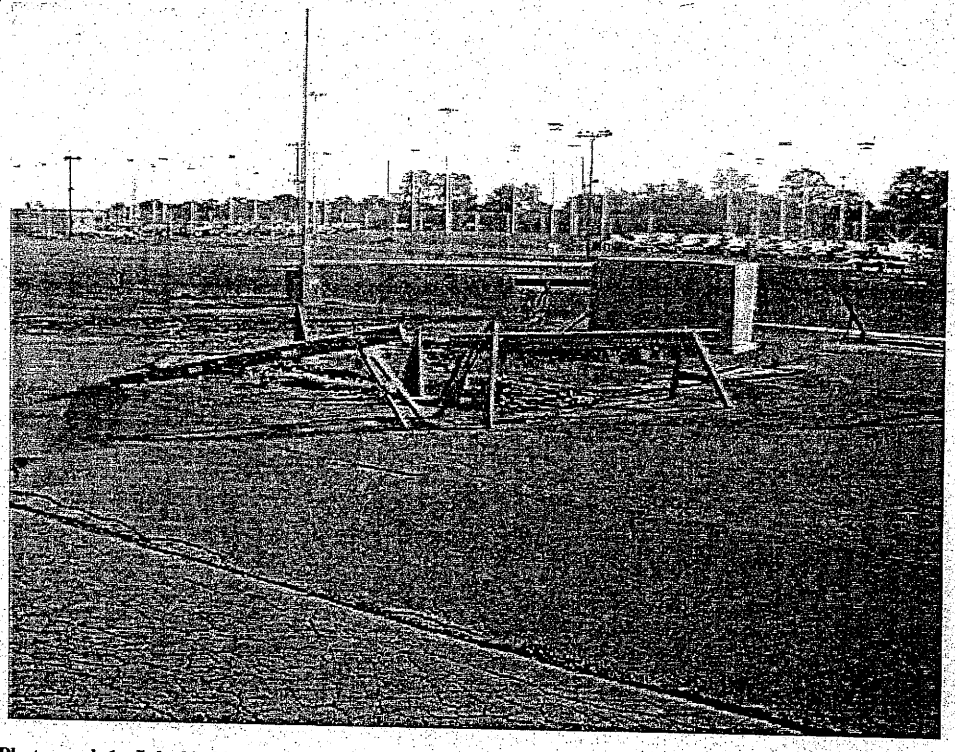
Department of Agriculture
Michigan State Fairgrounds
Analytical Groundwater Sampling Results

VOLATILES										
Sample ID	WS-1									
Sample Depth (feet BGS)	UST Cavity									
Date Collected	7/23/03									
Date Extracted	NA									
Date Analyzed	7/30/03									
Collection Method	Grab Sample									
Analytical Method	8260									
CONSTITUENT (ug/L)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
Benzene	**4,500**	50								
Toluene	**3,500**	50								
Ethylbenzene	**1,300**	50								
Xylenes	**9,800**	100								
1,2,4-Trimethylbenzene	**3,400**	50								
1,3,5-Trimethylbenzene	**990**	50								
MTBE	**600**	50								
1,2-Dibromoethane	<1.0	1.0								
1,2-Dichloroethane	<1.0	1.0								
Naphthalene	**730**	250								
2-Methylnaphthalene	**360**	250								
METALS										
Sample ID	WS-1									
Sample Depth (feet BGS)	UST Cavity									
Date Collected	7/23/03									
Date Extracted	NA									
Date Analyzed	8/6/03									
Collection Method	Grab Sample									
Analytical Method	6020									
CONSTITUENT (ug/L)	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
Lead	1.5	1.0								
CRITERIA EXCEEDED	Drinking Water, GSI									

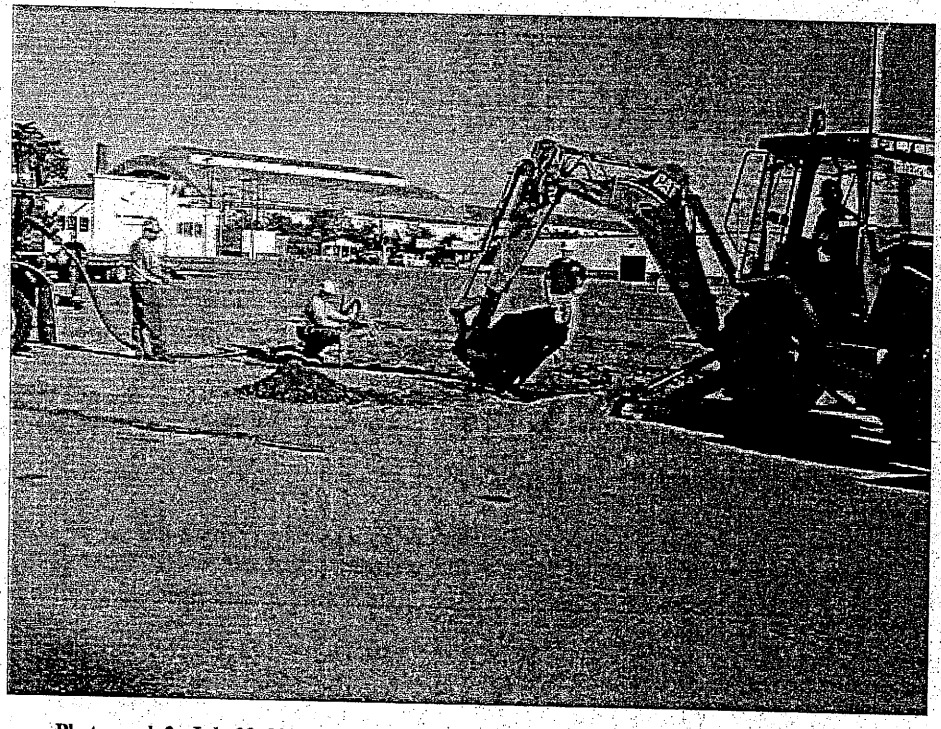
BGS= Below Ground Surface
MDL= Method Detection Limit
Bolding Indicates Part 201 Criteria Exceeded

GSI = Groundwater Surface Water Criteria

E-029947



Photograph 1: July 23, 2003 – No UST removal activities have been initiated. The pump island is enclosed.



Photograph 2: July 23, 2003 – M.L. Chartier is exposing the UST to pump out tank contents.

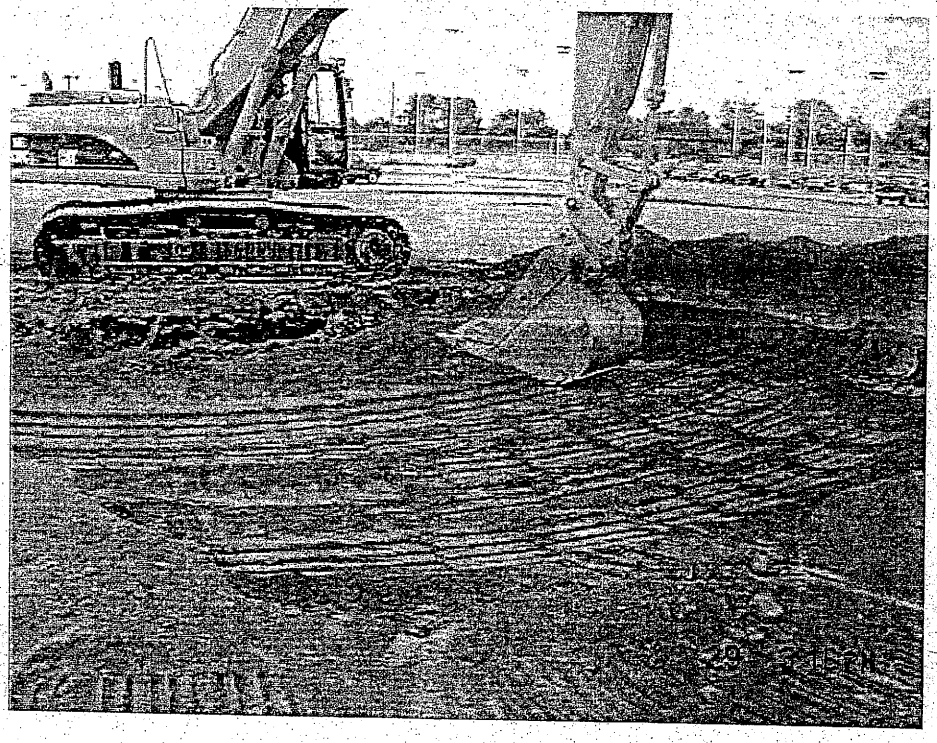
Photographs depict the subject site at the time they were taken. Their material content has not been altered. Some formatting of size, brightness or contrast may have occurred to improve viewing of details.

RC ENGINEERING, INC.
Phone: (989) 752-6500; Fax: (989) 752-6600
Website: http://www.rcinc.net

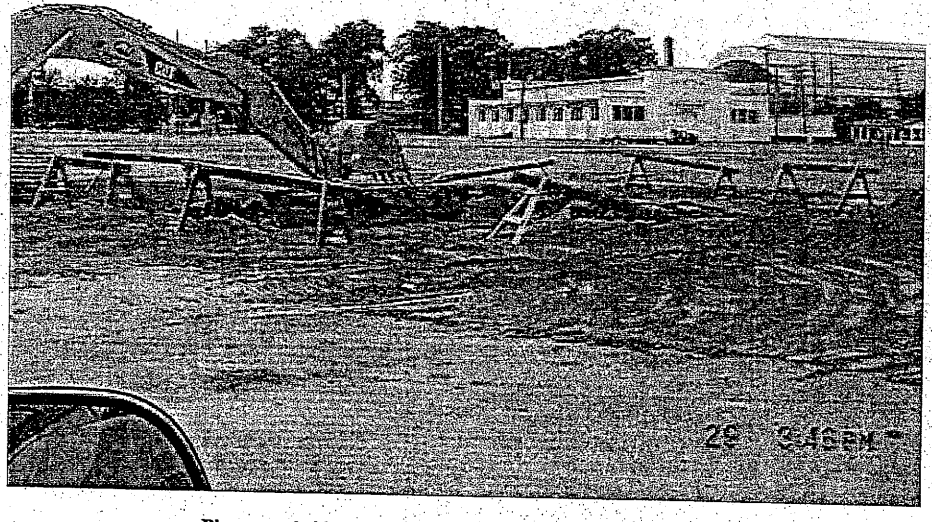
SITE PHOTOS – SHEET 1

Michigan State Fairgrounds
UST Removal
Detroit, Michigan
RC Project No.: E-029947

DRAWN BY:	EMR
DATE:	09/23/03
APPROVED BY:	DED
DATE:	09/23/03
UPDATED BY:	
DATE:	



Photograph 19: July 29, 2003 – Backfill being compacted.



Photograph 20: July 29, 2003 Backfilling of the excavation.

Photographs depict the subject site at the time they were taken. Their material content has not been altered. Some formatting of size, brightness or contrast may have occurred to improve viewing of details.

RC ENGINEERING, INC.
Phone: (989) 752-6500; Fax: (989) 752-6600
Website: http://www.rcinc.net

SITE PHOTOS – SHEET 10

Michigan State Fairgrounds
UST Removal
Detroit, Michigan
RC Project No.: E-029947

DRAWN BY:	EMR
DATE:	09/23/03
APPROVED BY:	DED
DATE:	09/23/03
UPDATED BY:	
DATE:	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT

JENNIFER M. GRANHOLM
GOVERNOR

STEVEN E. CHESTER
DIRECTOR

January 15, 2004

Mr. David Nederlander
Michigan Department of Agriculture
1120 W. State Fair
Detroit, Michigan 48203

Dear Mr. Nederlander:

SUBJECT: Deadline for Submittal of Initial Assessment Report
Location: State Fair Grounds
1120 W. State Fair, Detroit, Wayne County, Michigan
Confirmed Release Date: May 9, 2003
Confirmed Release No. C-0187-03
Facility ID No. 0-0009795

This letter serves to advise you that this facility is out of compliance with Part 213, Leaking Underground Storage Tanks (LUST) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), for failure to submit an Initial Assessment Report (IAR) as required by Section 21308a of Act 451.

Section 21308a of Act 451 states that within 90 days after a release has been reported, a consultant retained by the owner or operator shall complete an IAR and submit the report to the Department of Environmental Quality (DEQ), Remediation and Redevelopment Division (RRD). Based on the reported date of the confirmed release, an IAR was due for this facility on or before August 9, 2003; the RRD has no record of having received this report.

Under the authority of Part 213 of Act 451, the RRD requests Department of Agriculture – State Fair Grounds submit the required report or a written commitment to provide the overdue report. This office should receive the report or written commitment to submit the report ***no later than fourteen days of receipt of this letter.*** The written commitment should include a reasonable date for submittal of the overdue report.

Should you fail to respond to this letter within fourteen days, the DEQ may do any of the following:

1. Pursue escalated enforcement actions against Department of Agriculture – State Fair Grounds as an owner or operator of the facility.

2. Impose fines and/or penalties as provided in Part 213 of Act 451 against Department of Agriculture – State Fair Grounds as owner/operator of the facility,

including late/incomplete report penalties pursuant to Section 21313a of Part 213.

The work necessary to define the full extent of soil and groundwater contamination, etc. must be overseen by, and the reports completed and submitted by, an environmental consulting firm approved by the RRD, commonly referred to as a qualified consultant (QC).

Section 21307a(2) of Part 213 requires that the QC provide this office with a minimum of 48 hours notice to conducting any on-site activities.

Sincerely,

Pewu Bah-deh

Pewu Bah-deh
Environmental Quality Analyst
Storage Tank Division
313-456-4673

drs

cc: Mr. Steve Kitler, DEQ

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

March 5, 2004

TO: Sharon Picard, Funding and Support Unit, RRD

CC: Steven Kitler, EQM, RRD

FROM: Pewu Bah-deh, RRD

SUBJECT: Status of State Fairgrounds UST Removal Project
1120 W. State Fair, Detroit, Michigan

Per your request, the following site update for the subject site is being submitted to you.

BACKGROUND

The DEQ was contacted in early May, 2003 regarding the release of petroleum products from 2 underground storage tanks (USTs) at the subject site. The DEQ, Detroit Fire Department, and HAZMAT team responded by removing approximately 2,400 gallons of product from the USTs to abate the immediate hazard.

Subsequently, Tetra Tech NUS, Inc., (Tetra) was contracted by the DEQ to provide site investigation and remediation services to reduce the acute risk level.

CORRECTIVE ACTION TO DATE

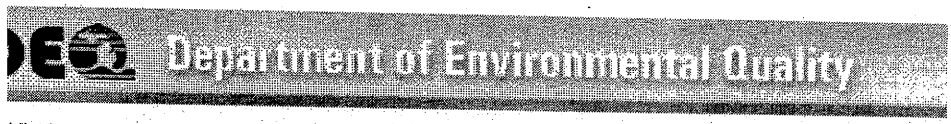
The project Scope of Work did not call for a complete site investigation and remediation, therefore, Tetra conducted a limited response activity. Tetra/subcontractor excavated the 2 USTs, piping, and contaminated soil (about 300 cubic yards) and disposed of them at appropriate landfill/disposal site. A Projection Completion Report has been submitted to the DEQ, reviewed, and approved.

ADDITIONAL CORRECTIVE ACTIONS NEEDED

The site still contains levels of contaminant concentrations high enough to prevent closure in accordance with Risk-Based Corrective Action (RBCA). The responsible party for the site needs to retain a State approved Underground Storage Tank Qualified Consultant, to perform a complete corrective action in accordance with RBCA. Cost of the additional investigation and cleanup could be approximately **$20,000.00.**

FUTURE USE OF THE SITE

The site is part of the State Fairgrounds parcel. The area is currently used as a parking facility and its known future use is to remain a parking facility. Per discussion with the Assistant General Manager of the facility, there are no definite plans for further redevelopment of the site. However, the Manager indicated that the Michigan Department of Transportation has shown interest in acquiring use of the facility at some future time. He also stated that METRO PARK has indicated some interest in future use of the site. In either case, the use is likely to remain a parking facility.



age Tank Information Database

Storage Tank Facilities List

SID-DEQ

ility and Tank Details

lity Information:
lity ID:00009795
artment of Agriculture / State Fair Grounds
) W State Fair, Detroit, MI 48203
ne# : 313-4564573

Owner Information:
MDA - State of Michigan
1120 W State Fair, Detroit, MI 48203
Phone# : 313-369-8231

nk)	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
	Removed from Ground	8000	4/23/1974 12:00:00 AM	Gasoline			Galvanized Steel		Asphalt Coated or Bare Steel	No
	Removed from Ground	11000	4/23/1956 12:00:00 AM	HEATING OIL			Galvanized Steel		Asphalt Coated or Bare Steel	No
	Closed in Ground	2000	4/23/1956 12:00:00 AM	HEATING OIL			Galvanized Steel		Asphalt Coated or Bare Steel	No
	Removed from Ground		4/23/1936 12:00:00 AM	Gasoline			NONE		Unknown	No
	Removed from Ground	2000	7/1/1987 12:00:00 AM	Gasoline	Inter Monitoring Double Walled Tank, Inter Monitoring/Second Containment, Manual Tank Gauging, Tank Tightness Testing	Interstitial Monitoring Double Walled Piping, Interstitial Monitoring/Second Containment, Line Tightness Testing	Double Walled	Suction: No Valve At Tank	Double Walled	No
	Removed from Ground	2000	7/1/1987 12:00:00 AM	Gasoline	Inter Monitoring Double Walled Tank, Inter Monitoring/Second Containment, Manual Tank Gauging, Tank Tightness Testing	Interstitial Monitoring Double Walled Piping, Interstitial Monitoring/Second Containment, Line Tightness Testing	Galvanized Steel	Suction: No Valve At Tank	Asphalt Coated or Bare Steel	No

Release Information

eak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
)187-03	Department of Agriculture	05/09/2003	Gasoline,Gasoline	Open			

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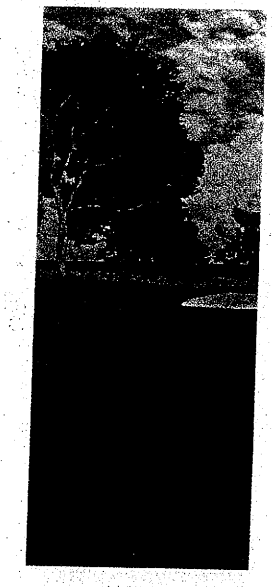

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the youth connection

Increasing the Health and Safety of Youth in SE Michigan

1120 West State Fair
Detroit, Michigan 48203
(313) 368-2542 (phone)
(313) 368-2641 (fax)
www.theyouthconnection.org

The Youth Connection Career Academy

Organization Description

Mission: The Youth Connection (TYC) is committed to making metropolitan Detroit the best community to raise children by providing leadership for the improvement of the health and safety of youth through advocacy, increased investments, national- and community-wide partnerships and achieving measurable results.

The Youth Connection Career Academies (TYCCA) is a TYC program designed to expose, engage, and train youth aged 14-21 for careers in public safety, service, skilled trades and healthcare. Initially targeted at youth attending Detroit Public Schools (DPS), and with a special emphasis on youth who are in or aging out of foster care, the intent is to provide instruction, training, apprenticeships and jobs while developing "home-grown" heroes. Although the current focus is public safety, service, skilled trades and healthcare careers, TYCCA will provide a ladder out of poverty and into a variety of careers through an expanding number of partnerships.

By engaging youth during their early high school years, TYCCA immerses them into the real world of a chosen field while encouraging continuing education and positive behavior. While promoting civic commitment and giving back to the community, TYCCA also demonstrates the rewards available through increased training, good behavior and responsibility through STIPENDS... PAID SUMMER INTERNSHIPS!

In addition to coordinating the TYCCA, The Youth Connection provides education and information regarding the positive impact of after school programs upon communities, works to expand after-school participation, and oversees a city-wide database of both after-school programs and their school-aged participants. TYC also works to modify public policies that are barriers to increased participation in after school programs and career opportunities for youth.

Partnership

TYCCA is collaboration between The Youth Connection (TYC), Detroit Public Schools (DPS), the City of Detroit Fire, EMS, Police and Water Departments, Henry Ford Health System, the Detroit Office of Homeland Security and Emergency Management and, Wayne County Community College District (WC^3D). This successful partnership allows TYCCA to provide youth with direct, hands-on training from experts and representatives from these partnering organizations. This direct exposure and hands-on training from people who are currently engaged in those careers immerses youth in the real world of business and government in a way never before possible. New knowledge is learned, new skills are gained and a new perspective of education, work and responsibility is instilled.

In addition to reaching DPS students, partnerships with the Michigan Department of Human Services (DHS) and the Children's Center, a local child care agency, allows TYCCA to provide access to job training for youth in foster care who may not be aware of these opportunities. Additionally, some partners offer hiring incentives and early notification of job openings to TYCCA program participants.

Roles and Responsibilities of Partners

- ***Detroit Public Schools (DPS):*** TYC works with DPS Career and Technical Centers to identify youth who are interested in public safety, health care, skill trades and aeronautics careers. These centers provide basic skills and the academic foundation the career and technical areas. DPS representatives are on TYCCA advisory committee

and in conjunction with the experts and representatives from business and government, have improved the school curriculum to reflect real world expectations and requirements.

- ***The City of Detroit Fire, EMT, Police and Water Departments:*** Students actually work in the departments along side firefighters, police officers and skilled trade technicians. During the summer, TYCCA and these City of Detroit departments provide the staff and resources for 6-8 week paid summer internships.

- ***Homeland Security and Emergency Management:*** Student participants receive Teen Community Emergency Response Team (CERT) training provided by the Detroit Office of Homeland Security and Emergency Management. This training teaches the interns how to prepare for, respond to and recover from emergencies and terrorist events in order to save lives, protect public health, safety and property within the City of Detroit. They learn skills to protect themselves and to assist their families, communities, and emergency responders during catastrophic events by participating in emergency or disaster scenarios and simulation exercises. Upon completion, interns are able to identify and anticipate hazards, extinguish small fires, conduct light search and rescue efforts, provide damage assessment information, set-up medical treatment areas (triage), apply basic first aid and medical techniques, and help in reducing survivor stress. Also, Teen CERT teams can assist their families and their school administration with emergency preparedness education, drills and exercises

- ***Henry Ford Health System (HFHS):*** Throughout the school year, HFHS provides job shadowing in a variety of career fields including: health care facility management, landscaping, nursing, and other medical specialty areas. HFHS and TYCCA also provide paid summer internships.

- ***Wayne County Community College District (WC^{3}D):*** Youth who participate in TYCCA are provided with dual enrollment in WC3D's Career and Technical Center and upon graduation receive twelve hours of credit towards continuing education.

- ***The Wayne County Department of Human Services Children and Family Division and The Children's Center of Wayne County:*** These partners help to identify those youth in foster care who are appropriate for TYCCA and provide mentoring and other support for them during their participation.

Number of Youth Served

TYCCA has provided training and paid internships for close to 400 students to date. We have recently expanded the program to be in operation year-round and to work with 125 youth this year. We anticipate continuing to expand TYCCA in response to an expanding number of partners and increasing student demand.

Duration of the Partnership

Five years ago, The Youth Connection (TYC) and the City of Detroit Fire Department began this partnership. The initial goal was to expose students of Detroit Public Schools (DPS) to careers in public safety and service. The initial partnership included the City of Detroit Fire/EMT, Police, and Water departments and two of the DPS Career and Technical centers. The partnership has expanded to include those listed above and all are fully engaged with representatives participating on TYCCA Advisory Committee.

Community Impact

The Detroit Regional Chamber has encouraged The Youth Connection to continue focusing upon providing internship opportunities for high school students to increase the local human resource pipe line to fill career and business opportunities in our community.

The Detroit Police Department (DPD) values TYCCA for the job it does in preparing youth for careers as police officers. In February of 2008, the DPD agreed to award TYCCA graduates with an additional 5 points on their job applications to the

olice department. Additionally, the Chief of Police sent letters to the 300 TYCCA participants inviting those who meet ıe minimum requirements to apply for jobs with the department.

Vhen the Detroit Fire Department was awarded certification as a regional training center, TYCCA was cited as a ontributing reason for obtaining the certification. Michigan state legislators were impressed with TYCCA was doing to evelop "home-grown" heroes. Because DFD is now a regional training center, there is increased opportunity for youth ı Detroit to become fire fighters and EMT technicians for not only the city of Detroit but many other U.S. cites.

dditionally, some of TYCCA partners offer hiring incentives and early notification of job openings to TYCCA participants. number of TYCCA students have been hired by subcontractors of the Detroit Water Department, the F.B.I, and the ıetroit Police Department (DPD). Currently, several are in the application process with the DPD and others are waiting ɔ enroll in the Fire Department Regional Training Center. Additionally, 75% of the 2008 TYCCA senior class was ccepted into college.

he skills that youth acquire because of TYCCA enhance their resumes and improve their success rate at selling hemselves to employers. For example:

Since 2004, over 300 students have been trained in infant, child and adult CPR, the use of an Automatic External Defibrillator and basic first aid;

Over 300 students have received Teen Community Emergency Response Team (CERT) training since 2006.

TYCCA has facilitated three successful Teen Mock Disaster Exercises providing interns the opportunity to showcase their skills and leadership abilities by assessing emergency situations, organizing and executing evacuation plans, participating in search and rescue, fire suspension and first aid treatment plans.

YCCA has brought the City of Detroit national recognition. The Youth Connection and several partners were asked to it on the National Committee for Careers in Law, Public Safety, Corrections & Security. As members of the committee, ve are currently working to design a range of national academic curriculums for youth interested in these careers.

Ability to Expand and Replicate

Throughout the U.S., unemployment is a serious and growing issue. The Youth Connection and our partners have noved aggressively to addressing it in Detroit. We firmly believe that it is much easier and more effective to train and ɔrepare youth with appropriate behavior, excellent skills, and viable career options before they enter the employment ɔool than it is to try and save the unskilled adult after they begin to drown. This is true in every city and community hroughout the U.S. Additionally, the foster care system in Michigan has a horrendous record of preparing youth for careers or employment before they age out of the system at 18 years old. Recognizing this as a superhighway to long erm unemployment and poverty, TYC approached our partners about targeting youth who are in foster care to provide hem with skills, training and career opportunities that would help to reduce unemployment, crime and community deterioration. All of our partners came on board and have worked with us to secure resources and opportunities to expand TYCCA to youth in foster care. TYCCA now serves student in foster care in Detroit and we will continue to seek ɔartners to expand the career options we can provide.

Commitment

All businesses and government departments who agree to become a TYCCA partner sign a Memorandum of Jnderstanding and place representatives on TYCCA Advisory Board. The support we receive from partners is ɔutstanding and we are encouraged to see additional businesses and government departments willing to partner as the community becomes more aware of TYCCA. Our kids and their parents say it all: the kids positively describe their relationships with TYCCA staff and partners who work with them and their parents are simply overjoyed that their children have this experience and opportunity. We are thankful that we have this opportunity to positively change lives and we are hopeful that what we do continues to make our community a better place to live.

Fieldhouse Shelby
Bayou Adventure at Shelby
Joe's Southern Grill
Joe's Backyard Bar B Q
Fieldhouse Detroit
Map and Directions
The Annex

Fieldhouse Detroit, Michigan

The Detroit Fieldhouse is located inside the Michigan State Fairgrounds with an entrance off of 8 mile Road ¼ mile east of Woodward. This facility is the coolest pure basketball gym in the country. It is housed in the Agricultural Building, an 80 year old open span building with 65 foot ceilings.

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(313) 368-0055 office

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Driving Direction to Fieldhouse Detroit

The Fieldhouse Detroit is located in the Historic Agricultural Building at the Michigan State Fairgrounds at the intersection of Woodward and 8 Mile Road. Entrance is from 8 Mile Road approximately .3 miles east of Woodward.

From I-696: Exit onto Woodward South. Turn left on 8 Mile Road. Turn right at the north entrance.

From I-75: Exit onto 8 Mile Road. Pass entrance. Make a U-turn prior to Woodward and turn right into the North entrance to the State Fairgrounds.

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In early February, the roller hockey program at Joe Dumars' Fieldhouse, previously known as the MRHA, announced that they have teamed up with the Little Caesars Amateur Hockey Association to form the Little Caesars Roller Hockey League at Joe Dumars' Fieldhouse.

2009 Summer Camps

Summer is here and it's time for Summer Camp. We're offering new, exciting camps for all ages. To learn more, click on the link below to download our catalog, view the camp offerings online, or call the Fieldhouse (586) 731-3080.

2009 Summer Camps

Little Kickers Childhood Development Program

The Joe Dumars' Fieldhouse is excited to offer a new childhood development program, Lil' Kickers. Lil' Kickers is a child development program filled with creativity, high-energy coaches and loads of fun. When your child steps onto the field of any Lil' Kickers class they will find a world that has been transformed just for them. Our innovative curriculum and child-centered teaching methods are just what your child needs to learn soccer, and a whole lot more. Click here for more information.

Watch a video and learn more about how one of our Lil' Kicker's Moms feels about our Lil' Kickers Program.

To learn more about the Lil' Kickers program for children ages eighteen months to nine years, follow this link.