

From: Brian Kappen <bkappen@enviroforensics.com>
Sent: Thursday, December 08, 2022 9:41 AM
To: Amungwafor, Binyoti - DNR
Cc: Meyer, Jennifer S - DNR
Subject: 02-41-551923 OHM-Wauwatosa Change Order Request
Attachments: 02-41-551923 Revised DERF Sheet 4400-214D_092022.xls; OHM-Wauwatosa Change Order Attachments.pdf

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From: Brian Kappen
Sent: Thursday, September 29, 2022 9:03 AM
To: Amungwafor, Binyoti - DNR <Binyoti.Amungwafor@wisconsin.gov>
Subject: 02-41-551923 OHM-Wauwatosa Change Order Request

Binyoti,

A DERF change order request for the OHM-Wauwatosa site is presented below and attached. Please reply or call if you need more information or detail.

Change Order Task Description

This change order covers the following actions:

1. Prepare the case closure request
2. Perform additional data collection activities in response to the closure not recommended letter dated September 21, 2022. EnviroForensics proposes to complete the following tasks:

Assessment of potential contaminant impact and migration in the sanitary sewers

- Coordinate access to the utility with the City of Wauwatosa, including a permit to occupy the right-of-way and traffic control plan.
- Collect grab sewer vapor samples in 1-liter vacuum canisters from the two (2) manhole locations highlighted on **Figure 1**, according to the procedures in publication RR-649.
- Collect passive sewer vapor samples from the two (2) manholes over a 7-day period by suspending sorbent sampling devices from the manhole openings.
- Request laboratory analysis of all samples for the contaminants of concern.

Additional sampling to demonstrate the effectiveness of the SVE system

- Collect soil gas samples in 1-liter vacuum canisters from permanent sampling points SG-4s/d, SG-6s/d, and SG-7s/d (six samples total) shown on **Figure 1**. Perform negative pressure and leak testing using helium prior to sample collection.
- Re-sample sub-slab vapor from permanent sampling points VP-5 and VP-6 shown on **Figure 2**, per the procedures in publication RR-986.

As requested in the letter, the attached **Table 1** provides a summary of all vacuum measurements collected during operation of the SVE system, and the estimated radius of influence around the extraction wells is depicted on **Figure 3**.

Change Order Budget

1. Preparation of the Case Closure Request, plus revisions to the closure package and re-submittal after collection of the additional sampling data proposed above = \$14,650.
2. There is sufficient budget remaining on existing Phases 23f and 23g to cover labor and expenses associated with the additional sampling proposed above; however, additional budget for analytical laboratory needed = \$2,750.

Total change order budget request = **\$17,400**. DERF sheet 4400-214D is attached.

Regards,

Brian Kappen, Senior Geologist/ Project Manager

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Site Name: One Hour Martinizing, Wauwatosa

BRRTS #: 02-41-551923

Type of Action: Remediation

TASKS	EnviroForensics Work Scope June 2019	EnviroForensics Change Order October 2022	Total Approved Budget	Previous Claims (If applicable)	July 2018 Invoice# 19802	August 2018 Invoice# 19921	September 2018 Invoice# 20045	October 2018 Invoice# 20220	December 2018 Invoice# 20588	January 2019 Invoice# 20677	February 2019 Invoice# 20827	March 2019 Invoice# 20958	April 2019 Invoice# 21147	May 2019 Invoice# 21259
Consultant Costs														
23a -- SVE Remedial System Design	\$ 19,591.00		\$ 19,591.00		\$ 2,814.50	\$ 7,904.95	\$ 5,957.00	\$ 2,906.32						
22c -- SVE System Design Revisions	\$ 13,936.00		\$ 13,936.00							\$ 621.00		\$ 1,094.50	\$ 4,660.00	\$ 4,570.00
23c -- Additional Site Investigation	\$ 2,300.90		\$ 2,300.90											
C100/ 23d -- SVE Construction, Infrastructure Installation, and O&M Plan Development	\$ 14,748.20		\$ 14,748.20											
C200/ 23e -- SVE System O&M for 12 months	\$ 18,035.80		\$ 18,035.80											
23f -- Data Analysis and Bi-annual Performance Reporting	\$ 9,157.30		\$ 9,157.30											
C300/ 23g -- Year End Confirmation Sampling and Results Reporting	\$ 3,334.00		\$ 3,334.00											
C500 - Closure Request		\$ 14,650.00	\$ 14,650.00											
C700/ 22d/ 23h -- Project Management (through design and one year O&M)	\$ 9,696.80		\$ 9,696.80						\$ 451.50	\$ 848.50	\$ 52.50	\$ 122.00	\$ 434.00	
Consultant Cost Total	\$ 90,800.00	\$ 14,650.00	\$ 105,450.00	\$ -	\$ 2,814.50	\$ 7,904.95	\$ 5,957.00	\$ 2,906.32	\$ 451.50	\$ 1,469.50	\$ 52.50	\$ 1,216.50	\$ 5,094.00	\$ 4,570.00
Sub-Contractor Costs														
Private Utility Locate	\$ 900.00		\$ 900.00											
Driller	\$ 3,850.00		\$ 3,850.00											
Electrical Contractor	\$ 8,000.00		\$ 8,000.00											
SVE Equipment Purchase	\$ 20,000.00		\$ 20,000.00											
Monthly Electrical Usage and Telemetry (12 months)	\$ 8,400.00		\$ 8,400.00											
Analytical Laboratory	\$ 2,651.00	\$ 2,750.00	\$ 5,401.00											
Waste Water & Drill Cutting Disposal	\$ 130.00		\$ 130.00											
Sub-Contractor Cost Total	\$ 43,931.00	\$ 2,750.00	\$ 46,681.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DERF ELIGIBLE SUB-TOTALS	\$ 134,731.00	\$ 17,400.00	\$ 152,131.00	\$ -	\$ 2,814.50	\$ 7,904.95	\$ 5,957.00	\$ 2,906.32	\$ 451.50	\$ 1,469.50	\$ 52.50	\$ 1,216.50	\$ 5,094.00	\$ 4,570.00
Non-DERF Eligible Expenses														
Shipping								\$ 11.22						
Subcontractor Mark-Up														
Travel														
Unapproved costs													\$ 1,758.90	\$ 282.50
Non-DERF Cost Total					\$ -	\$ -	\$ -	\$ 11.22	\$ -	\$ -	\$ -	\$ -	\$ 1,758.90	\$ 282.50
INVOICE GRAND TOTAL					\$ -	\$ 2,814.50	\$ 7,904.95	\$ 5,957.00	\$ 2,917.54	\$ 451.50	\$ 1,469.50	\$ 52.50	\$ 1,216.50	\$ 6,852.90

Check Numbers

Site Name: One Hour Martinizing, Wauwatosa

BRRTS #: 02-41-551923

Type of Action: Remediation

TASKS	EnviroForensics Work Scope June 2019	EnviroForensics Change Order October 2022	Total Approved Budget	Previous Claims (If applicable)	June 2019 Invoice# 21426	July 2019 Invoice# 21647	August 2019 Invoice# 21760	September 2019 Invoice# 21914	October 2019 Invoice# 22132	November 2019 Invoice# 22317	December 2019 Invoice# 22377	January 2020 Invoice# 22524	February 2020 Invoice# 22771	March 2020 Invoice# 22884
Consultant Costs														
23a -- SVE Remedial System Design	\$ 19,591.00		\$ 19,591.00											
22c -- SVE System Design Revisions	\$ 13,936.00		\$ 13,936.00		\$ 2,182.50	\$ 546.00	\$ 1,210.00							
23c -- Additional Site Investigation	\$ 2,300.90		\$ 2,300.90								\$ 26.60	\$ 1,200.50	\$ 616.50	
C100/ 23d -- SVE Construction, Infrastructure Installation, and O&M Plan Development	\$ 14,748.20		\$ 14,748.20						\$ 630.00	\$ 605.00	\$ 987.00	\$ 449.50	\$ 387.50	
C200/ 23e -- SVE System O&M for 12 months	\$ 18,035.80		\$ 18,035.80											
23f -- Data Analysis and Bi-annual Performance Reporting	\$ 9,157.30		\$ 9,157.30											
C300/ 23g -- Year End Confirmation Sampling and Results Reporting	\$ 3,334.00		\$ 3,334.00											
C500 - Closure Request		\$ 14,650.00	\$ 14,650.00											
C700/ 22d/ 23h -- Project Management (through design and one year O&M)	\$ 9,696.80		\$ 9,696.80			\$ 87.50		\$ 52.00	\$ 341.00	\$ 238.50		\$ 139.50	\$ 232.50	\$ 263.50
Consultant Cost Total	\$ 90,800.00	\$ 14,650.00	\$ 105,450.00	\$ -	\$ 2,182.50	\$ 633.50	\$ 1,210.00	\$ 52.00	\$ 971.00	\$ 843.50	\$ 1,013.60	\$ 1,789.50	\$ 1,236.50	\$ 263.50
Sub-Contractor Costs														
Private Utility Locate	\$ 900.00		\$ 900.00										\$ 300.00	
Driller	\$ 3,850.00		\$ 3,850.00									\$ 545.00		
Electrical Contractor	\$ 8,000.00		\$ 8,000.00											
SVE Equipment Purchase	\$ 20,000.00		\$ 20,000.00											
Monthly Electrical Usage and Telemetry (12 months)	\$ 8,400.00		\$ 8,400.00											
Analytical Laboratory	\$ 2,651.00	\$ 2,750.00	\$ 5,401.00									\$ 370.45		
Waste Water & Drill Cutting Disposal	\$ 130.00		\$ 130.00											
Sub-Contractor Cost Total	\$ 43,931.00	\$ 2,750.00	\$ 46,681.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 915.45	\$ 300.00	\$ -
DERF ELIGIBLE SUB-TOTALS	\$ 134,731.00	\$ 17,400.00	\$ 152,131.00	\$ -	\$ 2,182.50	\$ 633.50	\$ 1,210.00	\$ 52.00	\$ 971.00	\$ 843.50	\$ 1,013.60	\$ 2,704.95	\$ 1,536.50	\$ 263.50
Non-DERF Eligible Expenses														
Shipping														
Subcontractor Mark-Up														
Travel														
Unapproved costs														
Non-DERF Cost Total					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
INVOICE GRAND TOTAL					\$ -	\$ 2,182.50	\$ 633.50	\$ 1,210.00	\$ 52.00	\$ 971.00	\$ 843.50	\$ 1,013.60	\$ 2,704.95	\$ 1,536.50

Check Numbers

Site Name: One Hour Martinizing, Wauwatosa

BRRTS #: 02-41-551923

Type of Action: Remediation

TASKS	EnviroForensics Work Scope June 2019	EnviroForensics Change Order October 2022	Total Approved Budget	Previous Claims (If applicable)	April 2020 Invoice# 23025	May 2020 Invoice# 23143	June 2020 Invoice# 23322	August 2020 Invoice# 23631	September 2020 Invoice# 23746	October 2020 Invoice# 23917	November 2020 Invoice# 24029	December 2020 Invoice# 24216	January 2021 Invoice# 24386	February 2021 Invoice# 24496
Consultant Costs														
23a -- SVE Remedial System Design	\$ 19,591.00		\$ 19,591.00											
22c -- SVE System Design Revisions	\$ 13,936.00		\$ 13,936.00											
23c -- Additional Site Investigation	\$ 2,300.90		\$ 2,300.90											
C100/ 23d -- SVE Construction, Infrastructure Installation, and O&M Plan Development	\$ 14,748.20		\$ 14,748.20			\$ 504.00	\$ 110.25	\$ 78.75	\$ 737.10	\$ 809.10	\$ 900.00	\$ 15,040.71	\$ 98.01	
C200/ 23e -- SVE System O&M for 12 months	\$ 18,035.80		\$ 18,035.80										\$ 6,259.95	\$ 2,789.75
23f -- Data Analysis and Bi-annual Performance Reporting	\$ 9,157.30		\$ 9,157.30											
C300/ 23g -- Year End Confirmation Sampling and Results Reporting	\$ 3,334.00		\$ 3,334.00											
C500 - Closure Request		\$ 14,650.00	\$ 14,650.00											
C700/ 22d/ 23h -- Project Management (through design and one year O&M)	\$ 9,696.80		\$ 9,696.80		\$ 108.50							\$ 1,396.00	\$ 524.70	\$ 173.25
Consultant Cost Total	\$ 90,800.00	\$ 14,650.00	\$ 105,450.00	\$ -	\$ 108.50	\$ 504.00	\$ 110.25	\$ 78.75	\$ 737.10	\$ 809.10	\$ 900.00	\$ 16,436.71	\$ 6,882.66	\$ 2,963.00
Sub-Contractor Costs														
Private Utility Locate	\$ 900.00		\$ 900.00											
Driller	\$ 3,850.00		\$ 3,850.00											
Electrical Contractor	\$ 8,000.00		\$ 8,000.00									\$ 1,750.00		
SVE Equipment Purchase	\$ 20,000.00		\$ 20,000.00						\$ 7,162.80		\$ 10,744.20	\$ 1,050.00		
Monthly Electrical Usage and Telemetry (12 months)	\$ 8,400.00		\$ 8,400.00											
Analytical Laboratory	\$ 2,651.00	\$ 2,750.00	\$ 5,401.00										\$ 524.09	\$ 270.00
Waste Water & Drill Cutting Disposal	\$ 130.00		\$ 130.00											
Sub-Contractor Cost Total	\$ 43,931.00	\$ 2,750.00	\$ 46,681.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,162.80	\$ -	\$ 10,744.20	\$ 2,800.00	\$ 524.09	\$ 270.00
DERF ELIGIBLE SUB-TOTALS	\$ 134,731.00	\$ 17,400.00	\$ 152,131.00	\$ -	\$ 108.50	\$ 504.00	\$ 110.25	\$ 78.75	\$ 7,899.90	\$ 809.10	\$ 11,644.20	\$ 19,236.71	\$ 7,406.75	\$ 3,233.00
Non-DERF Eligible Expenses														
Shipping														
Subcontractor Mark-Up									\$ 716.28		\$ 1,074.42	\$ 280.00	\$ 52.41	\$ 27.00
Travel											\$ 577.58			
Unapproved costs														
Non-DERF Cost Total					\$ -	\$ -	\$ -	\$ -	\$ 716.28	\$ -	\$ 1,074.42	\$ 857.58	\$ 52.41	\$ 27.00
INVOICE GRAND TOTAL					\$ -	\$ 108.50	\$ 504.00	\$ 110.25	\$ 8,616.18	\$ 809.10	\$ 12,718.62	\$ 20,094.29	\$ 7,459.16	\$ 3,260.00

Check Numbers

Site Name: One Hour Martinizing, Wauwatosa

BRRTS #: 02-41-551923

Type of Action: Remediation

TASKS														
Bid / Budgeted Description	EnviroForensics Work Scope June 2019	EnviroForensics Change Order October 2022	Total Approved Budget	Previous Claims (If applicable)	March 2021 Invoice# 24668	April 2021 Invoice# 24879	May 2021 Invoice# 25079	June 2021 Invoice# 25215	July 2021 Invoice# 25393	August 2021 Invoice# 25537	September 2021 Invoice# 25677	October 2021 Invoice# 25859	November 2021 Invoice# 26050	December 2021 Invoice# 26050
Consultant Costs														
23a -- SVE Remedial System Design	\$ 19,591.00		\$ 19,591.00											
22c -- SVE System Design Revisions	\$ 13,936.00		\$ 13,936.00											
23c -- Additional Site Investigation	\$ 2,300.90		\$ 2,300.90											
C100/ 23d -- SVE Construction, Infrastructure Installation, and O&M Plan Development	\$ 14,748.20		\$ 14,748.20				\$ 174.35							
C200/ 23e -- SVE System O&M for 12 months	\$ 18,035.80		\$ 18,035.80		\$ 639.30	\$ 747.35	\$ 1,072.30	\$ 438.03	\$ 1,601.95	\$ 471.60	\$ 611.70	\$ 1,233.45	\$ 989.50	\$ 652.50
23f -- Data Analysis and Bi-annual Performance Reporting	\$ 9,157.30		\$ 9,157.30											
C300/ 23g -- Year End Confirmation Sampling and Results Reporting	\$ 3,334.00		\$ 3,334.00											\$ 481.50
C500 - Closure Request		\$ 14,650.00	\$ 14,650.00											
C700/ 22d/ 23h -- Project Management (through design and one year O&M)	\$ 9,696.80		\$ 9,696.80		\$ 409.50	\$ 204.75	\$ 178.20	\$ 112.50	\$ 39.15		\$ 78.30	\$ 94.05		\$ 52.20
Consultant Cost Total	\$ 90,800.00	\$ 14,650.00	\$ 105,450.00	\$ -	\$ 1,048.80	\$ 952.10	\$ 1,424.85	\$ 550.53	\$ 1,641.10	\$ 471.60	\$ 690.00	\$ 1,327.50	\$ 989.50	\$ 1,186.20
Sub-Contractor Costs														
Private Utility Locate	\$ 900.00		\$ 900.00											
Driller	\$ 3,850.00		\$ 3,850.00											
Electrical Contractor	\$ 8,000.00		\$ 8,000.00											
SVE Equipment Purchase	\$ 20,000.00		\$ 20,000.00											
Monthly Electrical Usage and Telemetry (12 months)	\$ 8,400.00		\$ 8,400.00					\$ 709.94	\$ 1,071.82			\$ 930.74		
Analytical Laboratory	\$ 2,651.00	\$ 2,750.00	\$ 5,401.00		\$ 90.00	\$ 90.00	\$ 90.00	\$ 90.00	\$ 90.00		\$ 90.00	\$ 90.00	\$ 90.00	\$ 480.00
Waste Water & Drill Cutting Disposal	\$ 130.00		\$ 130.00					\$ 546.11						
Sub-Contractor Cost Total	\$ 43,931.00	\$ 2,750.00	\$ 46,681.00	\$ -	\$ 90.00	\$ 90.00	\$ 90.00	\$ 1,346.05	\$ 1,161.82	\$ -	\$ 90.00	\$ 1,020.74	\$ 90.00	\$ 480.00
DERF ELIGIBLE SUB-TOTALS	\$ 134,731.00	\$ 17,400.00	\$ 152,131.00	\$ -	\$ 1,138.80	\$ 1,042.10	\$ 1,514.85	\$ 1,896.58	\$ 2,802.92	\$ 471.60	\$ 780.00	\$ 2,348.24	\$ 1,079.50	\$ 1,666.20
Non-DERF Eligible Expenses														
Shipping														
Subcontractor Mark-Up					\$ 9.00	\$ 9.00	\$ 9.00	\$ 134.60	\$ 116.18		\$ 9.00	\$ 102.07	\$ 9.00	\$ 48.00
Travel														
Unapproved costs														
Non-DERF Cost Total					\$ -	\$ 9.00	\$ 9.00	\$ 9.00	\$ 134.60	\$ 116.18	\$ -	\$ 9.00	\$ 102.07	\$ 9.00
INVOICE GRAND TOTAL					\$ -	\$ 1,147.80	\$ 1,051.10	\$ 1,523.85	\$ 2,031.18	\$ 2,919.10	\$ 471.60	\$ 789.00	\$ 2,450.31	\$ 1,088.50

Check Numbers

Site Name: One Hour Martinizing, Wauwatosa

BRRTS #: 02-41-551923

Type of Action: Remediation

Dry Cleaner Environmental Response Program
Reimbursement Cost Detail Linking Spreadsheet Form

TASKS Bid / Budgeted Description	TASKS			Previous Claims (If applicable)	January 2022 Invoice# 26381	Total Invoiced Costs	DERF COST BREAKOUT (this claim)							
	EnviroForensics Work Scope June 2019	EnviroForensics Change Order October 2022	Total Approved Budget				A Soil Investigation	B Soil Remediation	C Groundwater Investigation	D Groundwater Remediation	E Air/Vapor Investigation	F Air/Vapor Remediation	G Lab & Other Analysis	H Miscellaneous Costs
Consultant Costs														
23a -- SVE Remedial System Design	\$ 19,591.00		\$ 19,591.00			\$ 19,582.77		\$ 19,582.77						
22c -- SVE System Design Revisions	\$ 13,936.00		\$ 13,936.00			\$ 14,884.00		\$ 14,884.00						
23c -- Additional Site Investigation	\$ 2,300.90		\$ 2,300.90			\$ 1,843.60	\$ 1,843.60							
C100/ 23d -- SVE Construction, Infrastructure Installation, and O&M Plan Development	\$ 14,748.20		\$ 14,748.20			\$ 21,511.27		\$ 21,511.27						
C200/ 23e -- SVE System O&M for 12 months	\$ 18,035.80		\$ 18,035.80		\$ 534.00	\$ 18,041.38		\$ 18,041.38						
23f -- Data Analysis and Bi-annual Performance Reporting	\$ 9,157.30		\$ 9,157.30			\$ -								
C300/ 23g -- Year End Confirmation Sampling and Results Reporting	\$ 3,334.00		\$ 3,334.00			\$ 481.50		\$ 481.50						
C500 - Closure Request		\$ 14,650.00	\$ 14,650.00											
C700/ 22d/ 23h -- Project Management (through design and one year O&M)	\$ 9,696.80		\$ 9,696.80		\$ 65.25	\$ 6,699.35	\$ 699.35	\$ 6,000.00						
Consultant Cost Total	\$ 90,800.00	\$ 14,650.00	\$ 105,450.00	\$ -	\$ 599.25	\$ 83,043.87	\$ 2,542.95	\$ 80,500.92	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sub-Contractor Costs														
Private Utility Locate	\$ 900.00		\$ 900.00			\$ 300.00	\$ 300.00							
Driller	\$ 3,850.00		\$ 3,850.00			\$ 545.00	\$ 545.00							
Electrical Contractor	\$ 8,000.00		\$ 8,000.00			\$ 1,750.00		\$ 1,750.00						
SVE Equipment Purchase	\$ 20,000.00		\$ 20,000.00			\$ 18,957.00		\$ 18,957.00						
Monthly Electrical Usage and Telemetry (12 months)	\$ 8,400.00		\$ 8,400.00		\$ 517.33	\$ 3,229.83		\$ 3,229.83						
Analytical Laboratory	\$ 2,651.00	\$ 2,750.00	\$ 5,401.00			\$ 2,364.54	\$ 364.54	\$ 2,000.00						
Waste Water & Drill Cutting Disposal	\$ 130.00		\$ 130.00			\$ 546.11		\$ 546.11						
Sub-Contractor Cost Total	\$ 43,931.00	\$ 2,750.00	\$ 46,681.00	\$ -	\$ 517.33	\$ 27,692.48	\$ 1,209.54	\$ 26,482.94	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DERF ELIGIBLE SUB-TOTALS	\$ 134,731.00	\$ 17,400.00	\$ 152,131.00	\$ -	\$ 1,116.58	\$ 110,736.35	\$ 3,752.49	\$ 106,983.86	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Total DERF Eligible Costs This Claim \$ 110,736.35

Non-DERF Eligible Expenses			
Shipping			\$ 11.22
Subcontractor Mark-Up		\$ 51.73	\$ 2,647.69
Travel			\$ 577.58
Unapproved costs		\$ 91.35	\$ 2,132.75
Non-DERF Cost Total	\$ -	\$ 143.08	\$ 5,369.24
INVOICE GRAND TOTAL	\$ -	\$ 1,259.66	\$ 116,105.59

Check Numbers

Site Name: One Hour Martinizing, Wauwatosa

BRRTS #: 02-41-551923

1400-214D (R 08/12)

Type of Action: Remediation

TASKS						
Bid / Budgeted Description	EnviroForensics Work Scope June 2019	EnviroForensics Change Order October 2022	Total Approved Budget	Previous Claims (if applicable)	Budget Remaining Use (-) to indicate cost over-run	% Task Complete, Remarks
Consultant Costs						
23a -- SVE Remedial System Design	\$ 19,591.00		\$ 19,591.00		\$ 8.23	100%
22c -- SVE System Design Revisions	\$ 13,936.00		\$ 13,936.00		\$ (948.00)	100%
23c -- Additional Site Investigation	\$ 2,300.90		\$ 2,300.90		\$ 457.30	100%
C100/ 23d -- SVE Construction, Infrastructure Installation, and O&M Plan Development	\$ 14,748.20		\$ 14,748.20		\$ (6,763.07)	100%
C200/ 23e -- SVE System O&M for 12 months	\$ 18,035.80		\$ 18,035.80		\$ (5.58)	100%
23f -- Data Analysis and Bi-annual Performance Reporting	\$ 9,157.30		\$ 9,157.30		\$ 9,157.30	
C300/ 23g -- Year End Confirmation Sampling and Results Reporting	\$ 3,334.00		\$ 3,334.00		\$ 2,852.50	
C500 - Closure Request		\$ 14,650.00	\$ 14,650.00		\$ 14,650.00	
C700/ 22d/ 23h -- Project Management (through design and one year O&M)	\$ 9,696.80		\$ 9,696.80		\$ 2,997.45	
Consultant Cost Total	\$ 90,800.00	\$ 14,650.00	\$ 105,450.00	\$ -	\$ 22,406.13	
Sub-Contractor Costs						
Private Utility Locate	\$ 900.00		\$ 900.00		\$ 600.00	100%
Driller	\$ 3,850.00		\$ 3,850.00		\$ 3,305.00	100%
Electrical Contractor	\$ 8,000.00		\$ 8,000.00		\$ 6,250.00	100%
SVE Equipment Purchase	\$ 20,000.00		\$ 20,000.00		\$ 1,043.00	100%
Monthly Electrical Usage and Telemetry (12 months)	\$ 8,400.00		\$ 8,400.00		\$ 5,170.17	100%
Analytical Laboratory	\$ 2,651.00	\$ 2,750.00	\$ 5,401.00		\$ 3,036.46	
Waste Water & Drill Cutting Disposal	\$ 130.00		\$ 130.00		\$ (416.11)	100%
Sub-Contractor Cost Total	\$ 43,931.00	\$ 2,750.00	\$ 46,681.00	\$ -	\$ 18,988.52	
DERF ELIGIBLE SUB-TOTALS	\$ 134,731.00	\$ 17,400.00	\$ 152,131.00	\$ -	\$ 41,394.65	
Non-DERF Eligible Expenses						
Shipping						
Subcontractor Mark-Up						
Travel						
Unapproved costs						
Non-DERF Cost Total				\$ -		
INVOICE GRAND TOTAL				\$ -		

Check Numbers

Compatibility Report for 6140 DERF Sheet 4400-214D.xls

Run on 9/25/2018 16:20

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Minor loss of fidelity

# of occurrences	Version
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Excel 97-2003

Legend

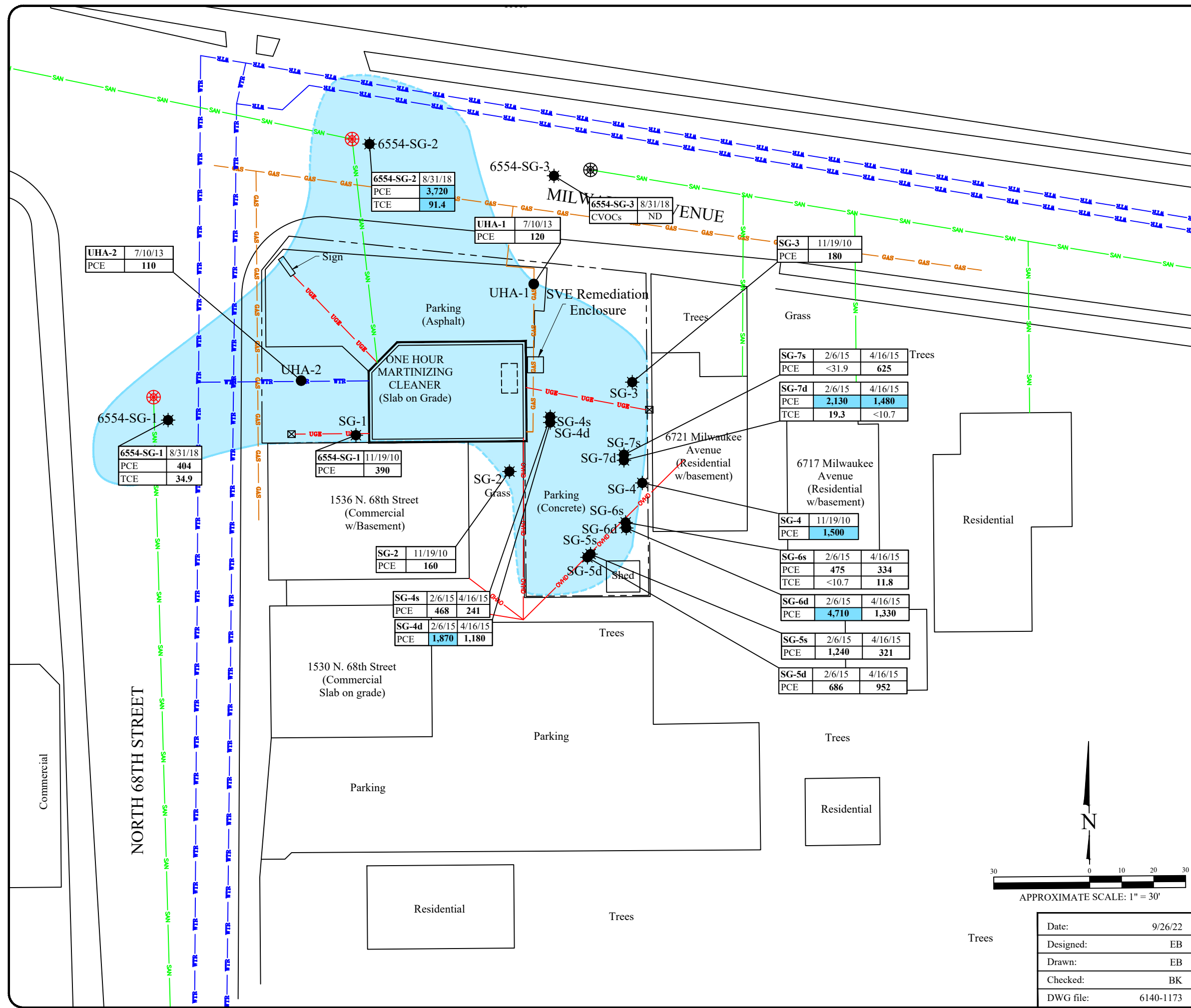
- Property boundary
- UGE - Underground electric line utility
- OVHD - Overhead electric line utility
- GAS - Gas line utility
- SAN - Sanitary line utility
- WTR - Water line utility
- Old light location
- SG-1 - Soil gas sample location
- UHA-1 - Utility corridor soil and soil gas sample location

Analytes	Vapor Risk Screening Levels (Soil Gas)	
	Residential	Small Commercial
PCE	1,400	5,800
TCE	70	290

Notes:

1. Bolded and shaded blue values are above the residential vapor risk screening level
2. Units in micrograms per cubic meter = ug/m³
3. NE = Not Established
4. PCE = Tetachloroethene
5. TCE = Trichloroethene
6. CVOCs = Chlorinated Volatile Organic Compounds
7. ND = Not Detected

- Extent of soil contamination that exceeds a Soil to Groundwater RCL (Dashed where inferred)
- Proposed sewer vapor sampling location



UHA-2	7/10/13	PCE	110
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6554-SG-2	8/31/18	PCE	3,720
		TCE	91.4

6554-SG-3	8/31/18	CVOCs	ND
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UHA-1	7/10/13	PCE	120
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SG-3	11/19/10	PCE	180
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6554-SG-1	8/31/18	PCE	404
		TCE	34.9

6554-SG-1	11/19/10	PCE	390
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SG-2	11/19/10	PCE	160
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SG-4s	2/6/15	4/16/15	PCE	468	241
SG-4d	2/6/15	4/16/15	PCE	1,870	1,180

SG-4s	2/6/15	4/16/15	PCE	468	241
SG-4d	2/6/15	4/16/15	PCE	1,870	1,180

SG-7s	2/6/15	4/16/15	PCE	<31.9	625
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SG-7d	2/6/15	4/16/15	PCE	2,130	1,480
			TCE	19.3	<10.7

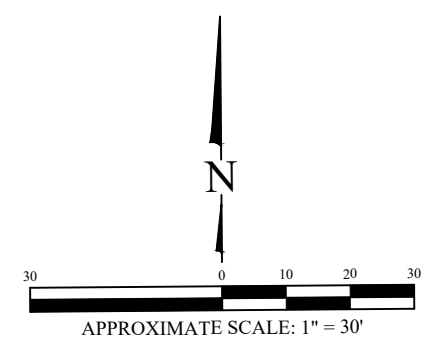
SG-4	11/19/10	PCE	1,500
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SG-6s	2/6/15	4/16/15	PCE	475	334
			TCE	<10.7	11.8

SG-6d	2/6/15	4/16/15	PCE	4,710	1,330
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SG-5s	2/6/15	4/16/15	PCE	1,240	321
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SG-5d	2/6/15	4/16/15	PCE	686	952
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VAPOR INTRUSION MAP - SOIL GAS

One Hour Martinizing
6737 West Milwaukee Avenue
Wauwatosa, WI

Date:	9/26/22
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6140-1173

825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

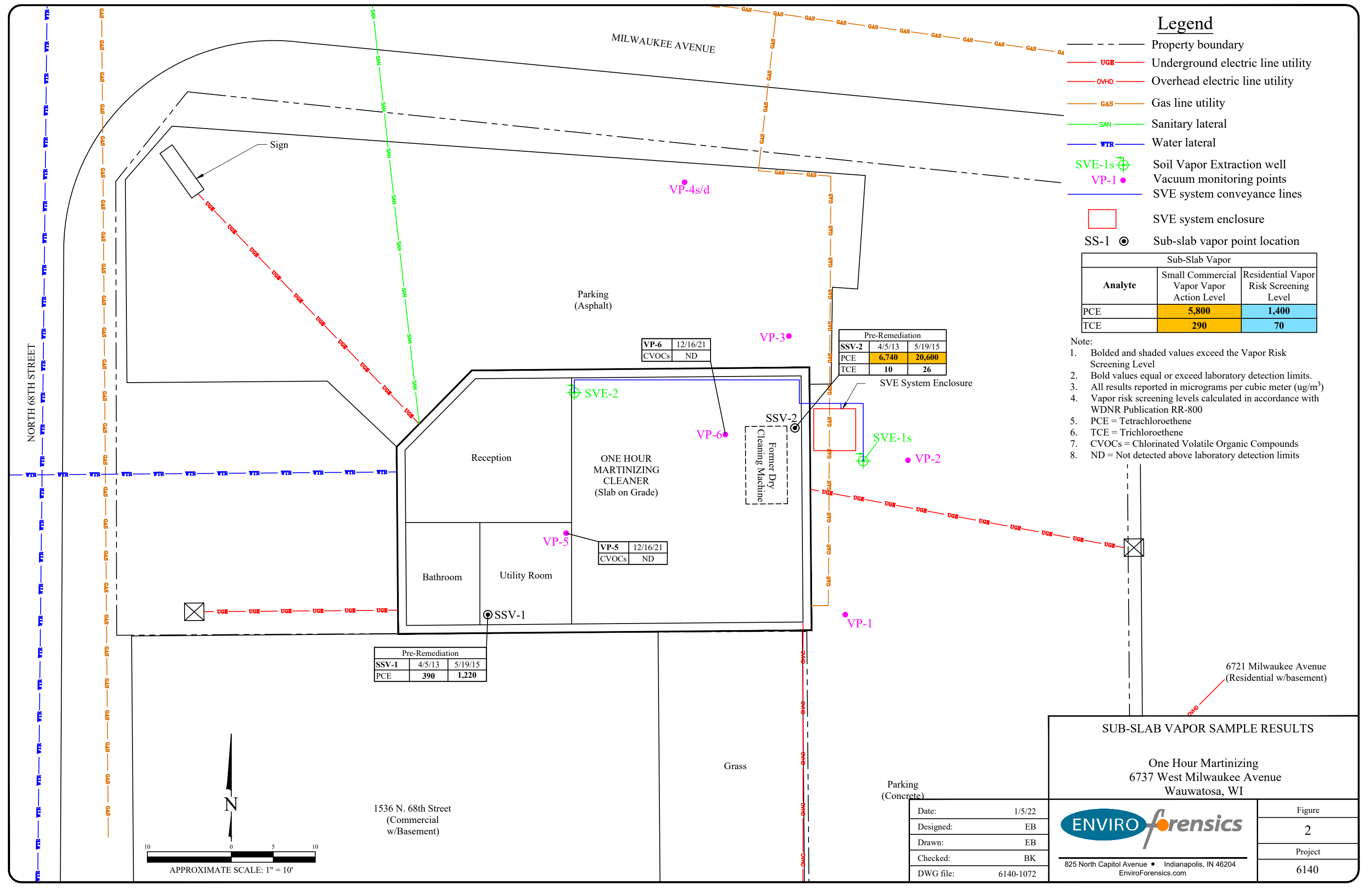
Figure	1
Project	6140

Legend

- Property boundary
- Underground electric line utility
- Overhead electric line utility
- Gas line utility
- Sanitary lateral
- Water lateral
- SVE-1s Soil Vapor Extraction well
- VP-1 Vacuum monitoring points
- SVE system conveyance lines
- SVE system enclosure
- SS-1 Sub-slab vapor point location

Analyte	Sub-Slab Vapor	
	Small Commercial Vapor Action Level	Residential Vapor Risk Screening Level
PCE	5,800	1,400
TCE	290	70

- Note:
- Bolded and shaded values exceed the Vapor Risk Screening Level
 - Bold values equal or exceed laboratory detection limits.
 - All results reported in micrograms per cubic meter (ug/m³)
 - Vapor risk screening levels calculated in accordance with WDNR Publication RR-800
 - PCE = Tetrachloroethene
 - TCE = Trichloroethene
 - CVOCs = Chlorinated Volatile Organic Compounds
 - ND = Not detected above laboratory detection limits



Pre-Remediation	
VP-6	12/16/21
CVOCs	ND

Pre-Remediation		
SSV-2	4/5/13	5/19/15
PCE	6,740	20,600
TCE	10	26

Pre-Remediation	
VP-5	12/16/21
CVOCs	ND

Pre-Remediation		
SSV-1	4/5/13	5/19/15
PCE	390	1,220

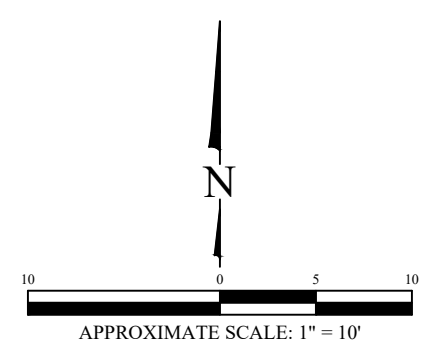
SUB-SLAB VAPOR SAMPLE RESULTS

One Hour Martinizing
6737 West Milwaukee Avenue
Wauwatosa, WI

	Figure
	2
	Project
	6140

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EnviroForensics.com

Date:	1/5/22
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6140-1072



1536 N. 68th Street
(Commercial w/Basement)

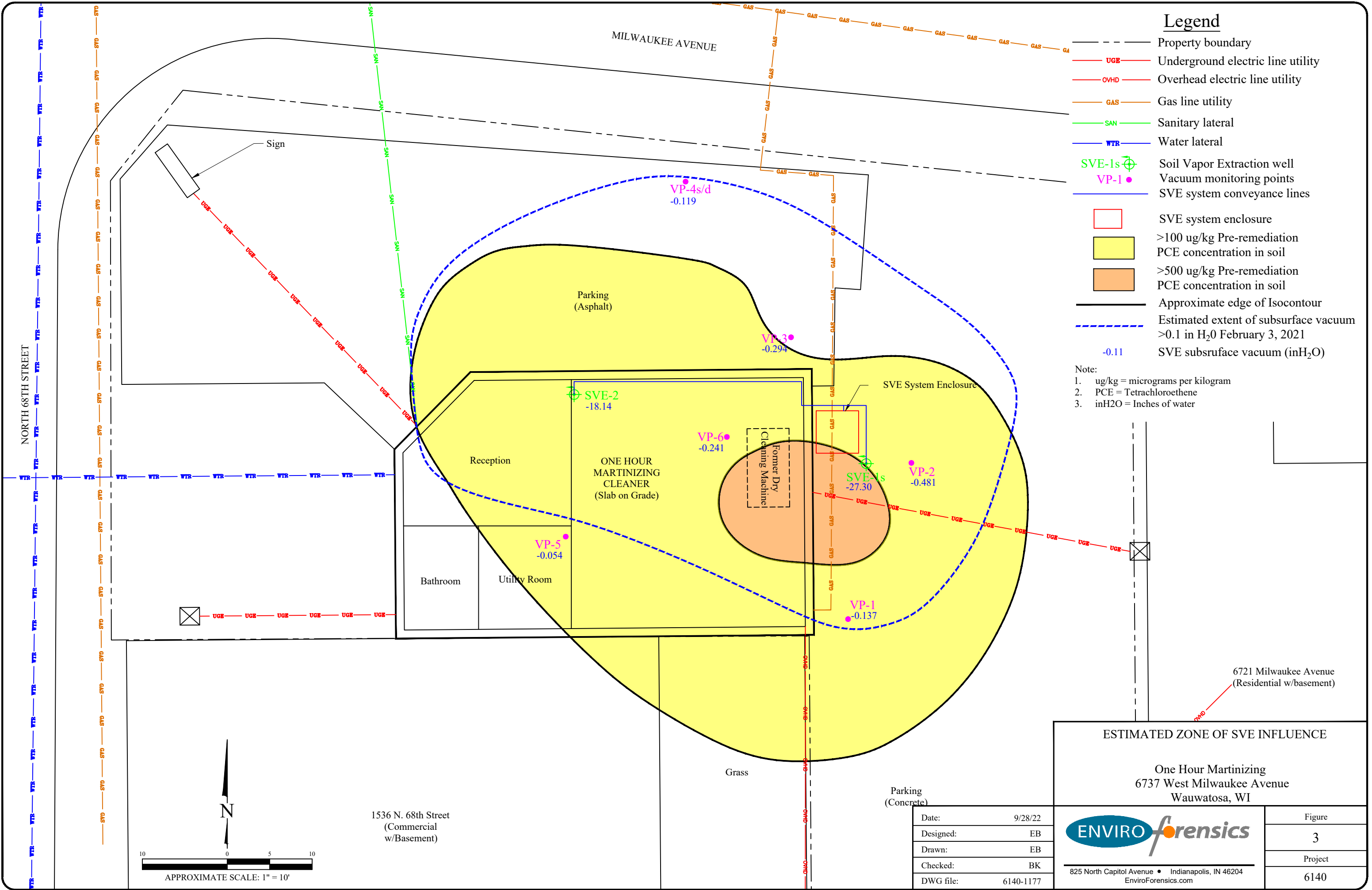
6721 Milwaukee Avenue
(Residential w/basement)

TABLE 1
SOIL VAPOR EXTRACTION SYSTEM VACUUM MEASUREMENT DATA
 One Hour Martinizing
 6737 W. Milwaukee Avenue, Wauwatosa, Wisconsin

Date	Operating Zone	System Vacuum	Vacuum Monitoring Points									Notes
			SVE-1S	SVE-2	VP-1	VP-2	VP-3	VP-4S	VP-4D	VP-5	VP-6	
1/11/2021	SVE-1S & SVE-2	-44	-25.00	-17.25	-0.322	-0.639	-0.267	-0.074	-0.095	-0.084	-0.274	Both conveyance line valves 100% open
1/11/2021	SVE-1S	-46	-65.20	-0.032	-0.509	-1.253	-0.517	-0.082	-0.049	-0.003	-0.145	SVE-2 valve completely closed
1/11/2021	SVE-2	-48	-0.074	-22.22	-0.073	-0.099	-0.138	-0.061	-0.021	-0.061	-0.229	SVE-1s valve completely closed
1/12/2021	SVE-1S & SVE-2	-46	-17.32	-16.51	-0.319	-0.550	-0.319	-0.115	-0.078	-0.062	-0.249	SVE-1S conveyance line valve adjusted so that wellhead vacuum is approximately equal
2/3/2021	SVE-1S & SVE-2	-47	-27.30	-18.14	-0.137	-0.481	-0.294	-0.119	-0.076	-0.054	-0.241	Both conveyance line valves 100% open
4/6/2021	SVE-1S & SVE-2	-49	-27.46	-17.52	-0.246	-0.475	-0.276	-0.095	-0.082	-0.074	-0.267	Both conveyance line valves 100% open

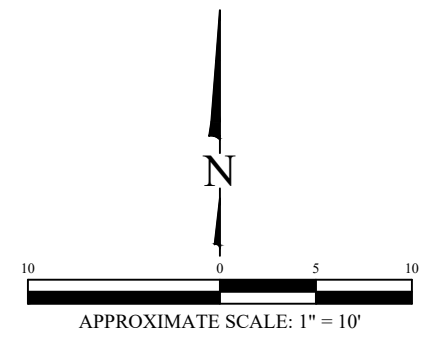
Notes:

All vacuum measurements reported in units of inches of water
 Vacuum measured with a digital manometer
 See Figure 1 for vacuum monitoring point locations



ESTIMATED ZONE OF SVE INFLUENCE	
One Hour Martinizing 6737 West Milwaukee Avenue Wauwatosa, WI	
	Figure 3
825 North Capitol Avenue • Indianapolis, IN 46204 EnviroForensics.com	Project 6140

Date:	9/28/22
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	6140-1177



1536 N. 68th Street
(Commercial w/Basement)

Parking
(Concrete)