

Northern Utilities, Inc. – NEW HAMPSHIRE DIVISION

ENVIRONMENTAL RESPONSE COST ANNUAL AUDIT FILLING

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Schedule 1

Site Specific Expenses

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING
2023-2024 ENVIRONMENTAL RESPONSE COSTS
SITE SPECIFIC EXPENSES

Line	Description	Total	11/14-10/15	11/15-10/16	11/16-10/17	11/17-10/18	11/18-10/19	11/19-10/20	11/20-10/21	11/21-10/22	11/22-10/23	11/23-10/24	11/24-10/25	11/25-10/26	11/26-10/27	11/27-10/28	11/28-10/29	11/29-10/30	11/30-10/31
ENVIRONMENTAL RESPONSE COST (ERC)																			
1	July 14 - June 15 Expenses Amortization (1/7)	\$ 112,198		\$ 16,028	\$ 16,028	\$ 16,028	\$ 16,028	\$ 16,028	\$ 16,028	\$ 16,028									
2	July 15 - June 16 Expenses Amortization (1/7)	\$ 2,179,885		\$ 311,412	\$ 311,412	\$ 311,412	\$ 311,412	\$ 311,412	\$ 311,412	\$ 311,412									
3	July 16 - June 17 Expenses Amortization (1/7)	\$ 54,154			\$ 7,736	\$ 7,736	\$ 7,736	\$ 7,736	\$ 7,736	\$ 7,736	\$ 7,736								
4	July 17 - June 18 Expenses Amortization (1/7)	\$ 283,143				\$ 40,449	\$ 40,449	\$ 40,449	\$ 40,449	\$ 40,449	\$ 40,449	\$ 40,449							
5	July 18 - June 19 Expenses Amortization (1/7)	\$ 203,357					\$ 29,051	\$ 29,051	\$ 29,051	\$ 29,051	\$ 29,051	\$ 29,051	\$ 29,051	\$ 29,051					
6	July 19 - June 20 Expenses Amortization (1/7)	\$ 77,165						\$ 11,024	\$ 11,024	\$ 11,024	\$ 11,024	\$ 11,024	\$ 11,024	\$ 11,024	\$ 11,024				
7	July 20 - June 21 Expenses Amortization (1/7)	\$ 118,256							\$ 16,894	\$ 16,894	\$ 16,894	\$ 16,894	\$ 16,894	\$ 16,894	\$ 16,894	\$ 16,894			
8	July 21 - June 22 Expenses Amortization (1/7)	\$ 48,434								\$ 6,919	\$ 6,919	\$ 6,919	\$ 6,919	\$ 6,919	\$ 6,919	\$ 6,919	\$ 6,919		
9	July 22 - June 23 Expenses Amortization (1/7)	\$ 33,800									\$ 4,829	\$ 4,829	\$ 4,829	\$ 4,829	\$ 4,829	\$ 4,829	\$ 4,829	\$ 4,829	
10	July 23 - June 24 Expenses Amortization (1/7)	\$ 22,469										\$ 3,210	\$ 3,210	\$ 3,210	\$ 3,210	\$ 3,210	\$ 3,210	\$ 3,210	\$ 3,210
11	Subtotal (Line 1 through Line 9)	\$ -	\$ 16,028	\$ 327,440	\$ 335,177	\$ 375,626	\$ 404,677	\$ 415,700	\$ 432,594	\$ 423,485	\$ 116,901	\$ 112,375	\$ 71,926	\$ 42,875	\$ 31,851	\$ 14,958	\$ 8,038	\$ 3,210	
12	Add: Excess amortization from prior years (from schedule 5, Line 9)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	Less: Excess amortization to be deferred (from schedule 5, Line 8)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	Total Environmental Response cost to be recovered (ERC)	\$ -	\$ 16,028	\$ 327,440	\$ 335,177	\$ 375,626	\$ 404,677	\$ 415,700	\$ 432,594	\$ 423,485	\$ 116,901	\$ 112,375	\$ 71,926	\$ 42,875	\$ 31,851	\$ 14,958	\$ 8,038	\$ 3,210	
15	July 2014 - June 2015 Unamortized beginning balance		\$ 112,198	\$ 96,170	\$ 80,141	\$ 64,113	\$ 48,085	\$ 32,057	\$ 16,028										
16	July 2015 - June 2016 Unamortized beginning balance			\$ 2,179,885	\$ 1,868,473	\$ 1,557,061	\$ 1,245,649	\$ 934,236	\$ 622,824	\$ 311,412									
17	July 2016 - June 2017 Unamortized beginning balance				\$ 54,154	\$ 46,418	\$ 38,681	\$ 30,945	\$ 23,209	\$ 15,473	\$ 7,736								
18	July 2017 - June 2018 Unamortized beginning balance					\$ 283,143	\$ 242,694	\$ 202,245	\$ 161,796	\$ 121,347	\$ 80,898	\$ 40,449							
19	July 2018 - June 2019 Unamortized beginning balance						\$ 203,357	\$ 174,306	\$ 145,255	\$ 116,204	\$ 87,153	\$ 58,102	\$ 29,051						
20	July 2019 - June 2020 Unamortized beginning balance							\$ 77,165	\$ 66,141	\$ 55,118	\$ 44,094	\$ 33,071	\$ 22,047	\$ 11,024					
21	July 2020 - June 2021 Unamortized beginning balance								\$ 118,256	\$ 101,362	\$ 84,468	\$ 67,575	\$ 50,681	\$ 33,787	\$ 16,894				
22	July 2021 - June 2022 Unamortized beginning balance									\$ 48,434	\$ 41,515	\$ 34,596	\$ 27,677	\$ 20,757	\$ 13,838	\$ 6,919			
23	July 2022 - June 2023 Unamortized beginning balance										\$ 33,800	\$ 28,971	\$ 24,143	\$ 19,314	\$ 14,486	\$ 9,657	\$ 4,829		
24	July 2023 - June 2024 Unamortized beginning balance											\$ 22,469	\$ 19,259	\$ 16,049	\$ 12,840	\$ 9,630	\$ 6,420	\$ 3,210	
24	Total Unamortized beginning balance	\$ 374,077	\$ 415,344	\$ 2,508,270	\$ 2,164,053	\$ 2,041,089	\$ 1,815,204	\$ 1,456,794	\$ 1,153,509	\$ 769,349	\$ 379,664	\$ 285,232	\$ 172,857	\$ 100,932	\$ 58,057	\$ 26,206	\$ 11,248	\$ 3,210	
25	INSURANCE/3RD PARTY EXPENSES (IE) Expenses (from schedule 2)																		
26	INSURANCE/3RD PARTY RECOVERIES (IR)																		
27	UNDER/OVER Recovery from previous year																		
28	Total of Lines 23 through 27	\$ 374,077	\$ 415,344	\$ 2,508,270	\$ 2,164,053	\$ 2,041,089	\$ 1,815,204	\$ 1,456,794	\$ 1,153,509	\$ 769,349	\$ 379,664	\$ 285,232	\$ 172,857	\$ 100,932	\$ 58,057	\$ 26,206	\$ 11,248	\$ 3,210	

Schedule 2

Cost Summary

Remediation Adjustment Clause Compliance Filing
2023 - 2024 Environmental Response Costs
Summary

LINE NO.	DESCRIPTION	LEGAL EXPENSE	CONSULTING EXPENSE	REMEDIATION EXPENSE	OTHER EXPENSE	100% RECOVERABLE EXPENSE	INSURANCE & 3RD PARTY EXPENSE	INSURANCE & THIRD PARTY RECOVERIES
1	Portsmouth Gas Works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	Exeter Gas Works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	Rochester Gas Works	\$ -	\$ -	\$ 22,469.21	\$ -	\$ 22,469.21	\$ -	\$ -
4	Dover Gas Works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	Somerworth Gas Works	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTALS		\$ -	\$ -	\$ 22,469.21	\$ -	\$ 22,469.21	\$ -	\$ -

Schedule 3 Invoice Lists

REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING
2023 - 2024 Environmental Response Costs
Site 11
Exeter Gas Works

Schedule 3A

LINE	VENDOR NAME	INVOICE NO.	LEGAL EXPENSE	CONSULTING EXPENSE	REMEDIATION EXPENSE	OTHER EXPENSE	TOTAL
	None						\$ -
							\$ -
							\$ -
TOTAL			\$ -	\$ -	\$ -	\$ -	\$ -

REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING
2023 - 2024 Environmental Response Costs
Site 13
Rochester Gas Works

Schedule 3B

LINE	VENDOR NAME	INVOICE NO.	LEGAL EXPENSE	CONSULTING EXPENSE	REMEDIATION EXPENSE	OTHER EXPENSE	TOTAL
1	AECOM	2000773649			\$1,955.22		\$ 1,955.22
2	AECOM	2000785703			\$2,344.94	\$ -	\$ 2,344.94
3	AECOM	2000807276			\$3,260.44	\$ -	\$ 3,260.44
4	AECOM	2000820933			\$2,173.83	\$ -	\$ 2,173.83
5	AECOM	2000838000			\$1,432.14	\$ -	\$ 1,432.14
6	AECOM	2000841547			\$2,520.93	\$ -	\$ 2,520.93
7	AECOM	2000851966			\$2,909.24	\$ -	\$ 2,909.24
8	AECOM	2000871945			\$2,520.93	\$ -	\$ 2,520.93
9	AECOM	2000885412			\$3,351.54	\$ -	\$ 3,351.54
10	TOTAL		\$ -	\$ -	\$ 22,469.21	\$ -	\$ 22,469.21

REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING
2023 - 2024 Environmental Response Costs
Site 14
Somersworth Gas Works

Schedule 3C

LINE	VENDOR NAME	INVOICE NO.	LEGAL EXPENSE	CONSULTING EXPENSE	REMEDIATION EXPENSE	OTHER EXPENSE	TOTAL
1	NONE		\$ -	\$ -	\$ -	\$ -	\$ -
2			\$ -	\$ -	\$ -	\$ -	\$ -
3	TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -

REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING
2023 - 2024 Environmental Response Costs
Dover Gas Works
Cocheco and Portland Streets, Dover, NH

Schedule 3D

LINE	VENDOR NAME	INVOICE NO.	LEGAL EXPENSE	CONSULTING EXPENSE	REMEDIATION EXPENSE	OTHER EXPENSE	TOTAL	
1	None					\$	-	
2						\$	-	
3						\$	-	
TOTAL			\$	-	\$	-	\$	-

REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING
2023 - 2024 Environmental Response Costs
Portsmouth Gas Works

Schedule 3E

LINE	VENDOR NAME	INVOICE NO.	LEGAL EXPENSE	CONSULTING EXPENSE	REMEDIATION EXPENSE	OTHER EXPENSE	TOTAL
1	None						\$ -
2							\$ -
3							\$ -
TOTAL			\$ -	\$ -	\$ -	\$ -	\$ -

Schedule 4 Site Narratives

COMPANY NAME

NORTHERN UTILITIES, INC.

EXETER GAS WORKS

LINE
NO.

SCHEDULE 4A

1. SITE LOCATION: Water Street and Green Street in Exeter, NH
2. DATE SITE WAS FIRST INVESTIGATED AS A DISPOSAL SITE:
The U.S. Environmental Protection Agency (EPA) conducted a Preliminary Assessment in 1982
3. SUMMARY OF MATERIAL DEVELOPMENTS AND INTERACTIONS WITH ENVIRONMENTAL AUTHORITIES (July 1, 2023 – June 30, 2024):
 - Northern continues to retain AECOM to coordinate communications with the Exeter Housing Authority (EHA), Exeter Department of Public Works (DPW), and Philips Exeter Academy (PEA). Although AECOM has also been retained to manage groundwater sampling associated with the Site's Groundwater Monitoring Program (GMP), no remediation-related activities were conducted by AECOM during the reporting time period.
4. NEW HAMPSHIRE SITE REMEDIATION PROGRAM PHASE:

The former Exeter Gas Works continues to progress towards site closure via the NH DES overseen GMP. However, no remediation work was conducted during the reporting time period.
5. NATURE AND SCOPE OF SITE CONTAMINATION:

Areas containing residual materials from the historic operation and decommissioning of the former manufactured gas plant were discovered on small parcels of land on the north and south sides of Water Street. These residuals, which include coal tars and oils, were found in the soil at discrete locations and in underlying groundwater. The objective of the cleanup project, as discussed with the NH DES, has been to stabilize affected soils to the extent practicable and to enhance the natural attenuation of any residuals in groundwater.

Northern prepared a project Completion Report that was submitted to NH DES in January 2002. The Completion report documented that all construction work was completed in accordance with the Remedial Action Plan (RAP) that was submitted to the NH DES in October 2001. The remedy consisted of the in-situ solidification of MGP residuals on the main parcel by auger mixing using a formulation of Portland cement and organophilic clay followed by grading and planting for site closure. The remedy also consisted of the injection of an oxygen release compound (ORC) into the soils and groundwater in the vicinity of the former settling lagoons on Exeter Housing Authority property. Finally, activity and use restrictions were noticed on the affected property deeds.

Subsequent to the completion of the site remediation, MGP residuals were identified in sediments at the mouth of a stormwater outfall discharging into the Squamscott River. The residuals were discharged to the storm sewer system as part of the process activities during the operation of the MGP. The sediment impacts were remediated successfully in 2016 with NH DES required monitoring of the Squamscott River continuing into and eventually terminating in 2017.

6. HISTORY AND CURRENT STATUS OF USE AND OWNERSHIP OF SITE:

The Exeter Gas Works operated from 1864 through 1955. The gas works was owned and operated by several companies during that time, including Exeter Gas Light Company in 1864, Strafford-York Gas Company in 1911, and Allied New Hampshire Gas Company in 1942. Allied New Hampshire Gas Company was a predecessor of Northern Utilities. Northern sold the eastern portion of the property to the Town of Exeter in 1978. In 1981 the eastern portion of the former MGP property was transferred to the EHA. This portion of the site is currently used for elderly housing. The western portion of the former MGP is currently owned by Northern and is a landscaped park, which serves as a cap to the underlying stabilized soil.

7. LISTING AND STATUS OF INSURANCE AND 3RD PARTY LAWSUITS AND SETTLEMENTS: None

NAME OF SUIT: Not Applicable

DATE FILED: Not Applicable

STATUS (PENDING/SETTLED): Not Applicable

COMPANY NAME

NORTHERN UTILITIES, INC.

ROCHESTER FORMER MGP SITE

LINE
NO

SCHEDULE 4B

1. SITE LOCATION: Route 125 and Spaulding Turnpike, Rochester, NH
2. DATE SITE WAS FIRST INVESTIGATED AS A DISPOSAL SITE:
The property owner of record reported environmental concerns in 1989.
3. SUMMARY OF MATERIAL DEVELOPMENTS AND INTERACTIONS WITH ENVIRONMENTAL AUTHORITIES (July 1, 2023 – June 30, 2024):
 - Northern directed AECOM to continue providing environmental consulting services, including remediation design support and groundwater monitoring, for the former manufactured gas plant (MGP). AECOM conducted two sampling events and submitted an annual report to the New Hampshire Department of Environmental Services (NH DES) for review during the reporting period, which summarized the status of groundwater quality monitoring.
 - In May 2024, the NH DES responded to Northern’s remedial action plan (RAP) submitted in December 2022, as part of its Groundwater Management Permit (GMP) renewal through May 2029 (See Exhibit 1, Schedule 4B). Among other issues, the NH DES requested additional information prior to approving the RAP (e.g., a listing of all required permits, a construction/design plan, and proper decommissioning of impacted monitoring wells).
 - Northern directed AECOM to address the issues raised by the NH DES, and an addendum to the RAP, along with a soil/management plan/pre-design investigation report, were submitted by AECOM in July 2024 (See Exhibits 2 and 3, Schedule 4B). Northern anticipates commencement of remediation activities by the end of third quarter of 2025 (3Q25); however, commencement is dependent upon final approval of the RAP and associated construction/design plan by the NH DES, which continued to experience extended review time periods throughout the reporting time period.
4. NEW HAMPSHIRE SITE REMEDIATION PROGRAM PHASE:

The Rochester former Manufactured Gas Plant is awaiting a decision from the NH DES (on implementing remediation activities detailed in the submitted RAP) and monitor its progress via the groundwater monitoring program (GMP) overseen by the NH DES.
5. NATURE AND SCOPE OF SITE CONTAMINATION:

Areas containing residual materials from the historic operation and decommissioning of the former MGP were discovered on the two-acre parcel. These residuals, which include coal tars and oils, were found in the soil at discrete locations and in the underlying groundwater. The remediation design focused on removing the affected soils to the extent practicable and enhancing

the natural attenuation of any residuals in groundwater.

In addition, the remediation design included the removal of a tar well, which had been previously inaccessible because of propane storage equipment, the purchase of a former parcel from AmeriGas to facilitate the placement of notices of Activity and Use Restrictions (AURs) on the deeds, the demolition of an historic structure, the implementation of a multiphase phytoremediation program to mitigate contaminated groundwater flow, and a further assessment of the residuals through a groundwater monitoring program.

In its May 2024 response to the December 2022 submitted RAP, the NH DES preferred the methodology of on-site solidification of contaminated soils. Upon completion of the solidification project, increased groundwater monitoring (twice per year) will be required until overall site stabilization has been achieved (anticipated two year after completion of the solidification project). The NH DES noted that monitoring under the GMP would continue until compliance with the ambient groundwater quality standards (AGQS) was achieved for elevated contaminants.

6. HISTORY AND CURRENT STATUS OF USE AND OWNERSHIP OF SITE:

The Rochester Gas Light Company owned and operated the former gas works from 1906 through 1911. The gas works was subsequently owned and operated by two, separate companies after the Rochester Gas Light Company – Strafford-York Gas Company in 1911 and Allied New Hampshire Gas Company in 1942. The plant ceased operating in 1957. Allied New Hampshire Gas Company was a predecessor of Northern.

However, Northern sold the property to Pyrofax Gas Corporation in 1971. Pyrofax sold the property to Petrolane Gas Service, LP in 1987. AmeriGas purchased Petrolane in 1994. The property was purchased by Northern from AmeriGas in 2004 as part of a settlement agreement. Northern also purchased the eastern portion of the site from Mr. Peter Field in 1990. This portion of the site is undeveloped and contains remnants of a railroad bed. Northern also owns land adjacent to the former gas works.

7. LISTING AND STATUS OF INSURANCE AND 3RD PARTY LAWSUITS AND SETTLEMENTS:

NAME OF SUIT: Field vs. Petrolane and Northern Utilities, and Petrolane vs. Northern Utilities

DATE FILED: 1988

STATUS (PENDING/SETTLED): Settled 1994

Attachment A

Insurance Recovery Allocation

**Northern Utilities, Inc. - New Hampshire Division
Allocation of Environmental Insurance Recoveries**

**Attachment A
Page 1 of 2**

ERC Recovery Allocation

	Allocation %	Recovery Amount	% of Recovery Total	Resolution Fee	% of Resolution Fee
Recovery Total		\$ -			
Dispute Resolution Fee				\$0.00	0.0%
<u>New Hampshire</u>					
MGP Sites	0.00%	\$0.00		\$0.00	
Ratepayer	100.00%	\$0.00		\$0.00	
Non - MGP	0.00%	\$0.00		\$0.00	
Total		\$0.00	0.0%	\$0.00	0.0%

**Northern Utilities, Inc. - New Hampshire Division
Allocation of Environmental Insurance Recoveries**

ERC Recovery Allocation

	Allocation %	Recovery Amount	% of Recovery Total	Resolution Fee	% of Resolution Fee
Recovery Total		\$ -			
Dispute Resolution Fee				\$0.00	0.0%
MGP Sites	0.00%	\$0.00		\$0.00	
Shareholder	0.00%	\$0.00		\$0.00	
Ratepayer	0.00%	\$0.00		\$0.00	
Non - MGP	0.00%	\$0.00		\$0.00	
Total		\$0.00	0.0%	\$0.00	0.0%
<u>New Hampshire</u>					
MGP Sites	0.00%	\$0.00		\$0.00	
Ratepayer	0.00%	\$0.00		\$0.00	
Non - MGP	0.00%	\$0.00		\$0.00	
Total		\$0.00	0.0%	\$0.00	0.0%
<u>Maine</u>					
Shareholder	50.00%	\$0.00		\$0.00	
Ratepayer	50.00%	\$0.00		\$0.00	
Total		\$0.00	0.0%	\$0.00	0.0%

Northern Utilities, Inc.- New Hampshire Division
2023 - 2024 Environmental Response Costs

Vendor Name	Invoice #	Total Invoice	New Hampshire 05900	
			Allocation Amount	
			0.0%	
			NH	
		\$0.00	\$0.00	\$0.00
			517628	517629
		\$0.00	\$0.00	\$0.00
Total		\$0.00	\$0.00	\$0.00

Total Insurance Expense **\$0.00**

Total Insurance Recovery **\$0.00**

Schedule 5 Cost Amortization

**NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
CALCULATION OF EXCESS ENVIRONMENTAL
RESPONSE COST AMORTIZATION**

**Schedule 5
Page 1 of 1**

Line No.	Description	July 15 - June 16	July 16 - June 17	July 17 - June 18	July 18 - June 19	July 19 - June 20	July 20 - June 21	July 21 - June 22	July 22 - June 23	July 23 - June 24
1	NH FIRM GAS REVENUES FROM PRIOR PERIOD (includes total firm and transportation (excluding off-system revenues))	\$51,311,654	\$59,038,627	\$66,568,530	\$74,616,651	\$61,186,711	\$67,254,093	\$80,378,260	\$86,306,830	\$72,979,741
2	5% of Line 1	\$ 2,565,583	\$ 2,951,931	\$ 3,328,426	\$ 3,730,833	\$ 3,059,336	\$ 3,362,705	\$ 4,018,913	\$ 4,315,341	\$ 3,648,987
3	TOTAL ERC COST TO BE RECOVERED (FROM SCHEDULE 1)	\$ 16,028	\$ 327,440	\$ 335,177	\$ 375,626	\$ 404,677	\$ 415,700	\$ 432,594	\$ 423,485	\$ 116,901
4	EXCESS AMORTIZATION DEFERRED FROM PRIOR YEARS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	CARRYING CHARGES	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6	EXCESS AMORTIZATION FROM PRIOR YEARS PLUS CARRYING CHARGES (LINE 4 PLUS LINE 5)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	TOTAL POTENTIAL ERC COST TO RECOVERED (LINE 3 PLUS LINE 6)	\$ 16,028	\$ 327,440	\$ 335,177	\$ 375,626	\$ 404,677	\$ 415,700	\$ 432,594	\$ 423,485	\$ 116,901
8	EXCESS AMORTIZATION TO BE DEFERRED (LINE 2 LESS LINE 7; IF POSITIVE ENTER ZERO)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9	EXCESS AMORTIZATION FROM PRIOR PLUS CARRYING CHARGES TO BE RECOVERED (LINE 7 MINUS LINE 3; IF NEGATIVE ENTER ZERO)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: July 2014 - June 2018 data shown in line 1 has been corrected from prior filings to reflect the July - June period.

Attachment 3B
Rochester Invoices

3rd Party Recovery

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Contracting Project Manager

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Check Payment to:
AECOM Inc.
An AECOM Company
1178 Paysphere Circle
Chicago, IL 60674

ACH Payment to:
AECOM Inc.
An AECOM Company
Bank of America
Account Number 5800937020
ABA Number 071000039

Wire Transfer Payment to:
AECOM Inc.
An AECOM Company
Bank of America
New York, NY 10001
Account Number 5800937020
ABA Number 026009593
SWIFT CODE BOFAUS3N

250 Apollo Drive, Chelmsford, MA 01824
Tel: 978-905-2100
Fax: 978-905-2101

Federal Tax ID No. 06-0852759

ATTN : MURPHY THOMAS
UNITIL SERVICES CORPORATON
6 LIBERTY LANE W
HAMPTON, NH 03842
United States

Invoice Date: 29-JUN-23
Invoice Number: 2000773649

Agreement Number: EM13046004
Agreement Description: Conversion - 02/01/23

Payment Term: 30 DAYS

Please reference Invoice Number and Project Number with Remittance

RECEIVED JUL 08 12 00 PM '23
[Handwritten Signature]

Project Number : 60139734
Bill Through Date : 27-MAY-23 - 23-JUN-23

Project Name : UNITIL PHYTOREMEDIATION PROGRAM

Task Number : 1600

Task Name : 2023 GW Supp Inspect

Labor Bill Rate					
Employee Name/Title	Title/Expenditure	Date	Hours	Bill Rate	Billed Amt
Howe, Charles S	P16	09-JUN-23	6.00	139.05	834.30
McCarthy, Ryan S	P18	02-JUN-23	0.50	175.10	87.55
McCarthy, Ryan S	P18	09-JUN-23	1.00	175.10	175.10
McCarthy, Ryan S	P18	16-JUN-23	0.50	175.10	87.55
McKenna, James Walter (Walter)	P08	09-JUN-23	9.50	65.00	617.50
Total Labor Bill Rate			17.50		1,802.00

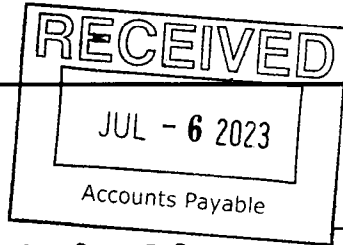
Reimbursable						
Expenditure Type	Employee/Vendor Name	Date	Inv Number	Raw Cost	Multiplier	Billed Amt
Lunch	McKenna, James Walter (Walter)	09-JUN-23	EXP9004168	22.99	1.0500	24.14
Materials	McKenna, James Walter (Walter)	09-JUN-23	EXP9004168	24.69	1.0500	25.92
Mileage	McKenna, James Walter (Walter)	09-JUN-23	EXP9004168	98.25	1.0500	103.16
Total Reimbursable				145.93		153.22

Task Total : 2023 GW Supp Inspect

1,955.22

Project Total : UNITIL PHYTOREMEDIATION PROGRAM

1,955.22



Invoice Summaries

Total Current Amount :	1,955.22
Retention Amount :	0.00
Pre-Tax Amount :	1,955.22
Tax Amount :	0.00
Total Invoice Amount :	1,955.22

PO 80303

30.40.00.00.182.29.00

[Handwritten Signature]

Billing Summaries

Billing Summary	Current	Prior	Total	Limit	Remain
Billings	1,955.22	377,337.27	379,292.49	402,878.59	23,586.10
Tax	0.00	0.00	0.00		
Billing Total :	1,955.22	377,337.27	379,292.49		

Outstanding Invoices

Invoice Number	Invoice Date	Invoice Balance
2000761855 <i>PAID</i>	01-JUN-23	3,878.38
Outstanding Total :		3,878.38

Table 1 Invoice Summary
2022 Phytoremediation Program
June 2023 Billing Period

Task		Authorized Budget	Previously Invoiced	Current Invoice	Total Invoiced	Remaining Budget
1600	Continued Groundwater Suppression Installation Activities 2023	\$ 22,200.00	\$ 5,240.58	\$ 1,955.22	\$ 7,195.80	\$ 15,004.20
Total		\$22,200.00	\$5,240.58	\$1,955.22	\$7,195.80	\$15,004.20

2023 Phyto Funding \$22,200

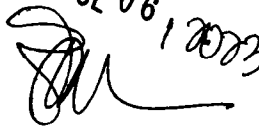


AECOM
250 Apollo Drive
Chelmsford, MA 01824
aecom.com

June 29, 2023

AECOM Reference
60139734-Inv. 125

Mr. Thomas Murphy
Unitil Services Corp.
6 Liberty Lane W
Hampton, NH 03842-1720

RECEIVED JUL 06 1 2023


**Invoice for Activities Related to 2023 Phytoremediation Program
Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432)
32 Gonic Road, Rochester, NH
Period Ending June 23, 2023**

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2023 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$1,955.22. The total authorized budget for this project for the 2023 calendar year is \$22,200. As part of the scope of work, AECOM will perform six limited Site inspections on a bi-monthly basis for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

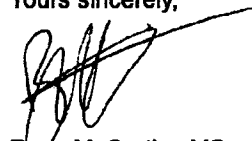
The following section briefly describes work and charges for this invoicing period for each task:

Task 1600 2023 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were labor related the June site inspection/ well gauging activities. Limited field expenses and project management costs are also included. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$1,955.22.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,



Ryan McCarthy, MS
Project Manager
AECOM
E: ryan.mccarthy@aecom.com



Check Payment to:
AECOM Inc.
An AECOM Company
1178 Paysphere Circle
Chicago, IL 60674

ACH Payment to:
AECOM Inc.
An AECOM Company
Bank of America
Account Number 5800937020
ABA Number 071000039

Wire Transfer Payment to:
AECOM Inc.
An AECOM Company
Bank of America
New York, NY 10001
Account Number 5800937020
ABA Number 026009593
SWIFT CODE BOFAUS3N

250 Apollo Drive, Chelmsford, MA 01824
Tel: 978-905-2100
Fax: 978-905-2101

Federal Tax ID No. 06-0852759

ATTN : MURPHY THOMAS
UNITIL SERVICES CORPORATON
6 LIBERTY LANE W
HAMPTON, NH 03842
United States

Invoice Date: 02-AUG-23
Invoice Number: 2000785703

Agreement Number: EM13046004
Agreement Description: Conversion - TAR 02/1/23

Payment Term: 30 DAYS

Please reference Invoice Number and Project Number with Remittance

RECEIVED AUG 30 12 06 PM '23

Project Number : 60139734
Bill Through Date : 24-JUN-23 - 28-JUL-23

Project Name : UNITIL PHYTOREMEDIATION PROGRAM

Task Number : 1600

Task Name : 2023 GW Supp Inspect

Labor Bill Rate						
Employee Name/Title	Title/Expenditure	Date	Hours	Bill Rate	Billed Amt	
Howe, Charles S	P16	14-JUL-23	8.00	139.05	1,112.40	
McCarthy, Ryan S	P18	07-JUL-23	1.00	175.10	175.10	
McCarthy, Ryan S	P18	14-JUL-23	2.00	175.10	350.20	
McKenna, James Walter (Walter)	P08	07-JUL-23	0.50	65.00	32.50	
McKenna, James Walter (Walter)	P08	14-JUL-23	2.50	65.00	162.50	
McKenna, James Walter (Walter)	P08	14-JUL-23	5.50	65.00	357.50	
Total Labor Bill Rate			19.50		2,190.20	

Reimbursable						
Expenditure Type	Employee/Vendor Name	Date	Inv Number	Raw Cost	Multiplier	Billed Amt
Field Supplies	US ENVIRONMENTAL RENTAL CORP	15-JUN-23	151657	49.13	1.0500	51.58
Mileage	McKenna, James Walter (Walter)	14-JUL-23	EXP9064758	98.25	1.0500	103.16
Total Reimbursable				147.38		154.74

Task Total : 2023 GW Supp Inspect

2,344.94

RECEIVED

Project Total : UNITIL PHYTOREMEDIATION PROGRAM

2,344.94

AUG 30 2023

Invoice Summaries

Total Current Amount :	2,344.94
Retention Amount :	0.00
Pre-Tax Amount :	2,344.94
Tax Amount :	0.00

Accounts Payable

Total Invoice Amount :

2,344.94

PO 80303

30.40.00.00.187.79.00

Billing Summaries

Billing Summary	Current	Prior	Total	Limit	Remain
Billings	2,344.94	379,292.49	381,637.43	402,878.59	21,241.16
Tax	0.00	0.00	0.00		
Billing Total :	2,344.94	379,292.49	381,637.43		

Outstanding Invoices

Invoice Number	Invoice Date	Invoice Balance
2000761855	01-JUN-23	3,878.38

Outstanding Total :

3,878.38
00004

Table 1 Invoice Summary
2022 Phytoremediation Program
July 2023 Billing Period

Task		Authorized Budget	Previously Invoiced	Current Invoice	Total Invoiced	Remaining Budget
1600	Continued Groundwater Suppression Installation Activities 2023	\$ 22,200.00	\$ 7,195.80	\$ 2,344.94	\$ 9,540.74	\$ 12,659.26
Total		\$22,200.00	\$7,195.80	\$2,344.94	\$9,540.74	\$12,659.26

2023 Phyto Funding \$22,200



AECOM
250 Apollo Drive
Chelmsford, MA 01824
aecom.com

August 1, 2023

AECOM Reference
60139734-Inv. 126

Mr. Thomas Murphy
Unitil Services Corp.
6 Liberty Lane W
Hampton, NH 03842-1720

**Invoice for Activities Related to 2023 Phytoremediation Program
Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432)
32 Gonic Road, Rochester, NH
Period Ending July 28, 2023**

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2023 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$2,344.94. The total authorized budget for this project for the 2023 calendar year is \$22,200. As part of the scope of work, AECOM will perform six limited Site inspections on a bi-monthly basis for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1600 2023 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were labor related the July site inspection/ well gauging activities. Limited field expenses and project management costs are also included. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$2,344.94.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Ryan McCarthy, MS
Project Manager
AECOM
E: ryan.mccarthy@aecom.com



Check Payment to:
AECOM Inc.
An AECOM Company
1178 Paysphere Circle
Chicago, IL 60674

ACH Payment to:
AECOM Inc.
An AECOM Company
Bank of America
Account Number 5800937020
ABA Number 071000039

Wire Transfer Payment to:
AECOM Inc.
An AECOM Company
Bank of America
New York, NY 10001
Account Number 5800937020
ABA Number 026009593
SWIFT CODE BOFAUS3N

250 Apollo Drive, Chelmsford, MA 01824
Tel: 978-905-2100
Fax: 978-905-2101

Federal Tax ID No. 06-0852759

ATTN : MURPHY THOMAS
UNITIL SERVICES CORPORATON
6 LIBERTY LANE W
HAMPTON, NH 03842
United States

Invoice Date: 27-SEP-23
Invoice Number: 2000807276

RECEIVED

Agreement Number: EM13046004
Agreement Description: Conversion - 177740CT 02 2023

Payment Term: 30 DAYS

RECEIVED OCT 02 2023
[Handwritten signature]

Accounts Payable

Please reference Invoice Number and Project Number with Remittance

Project Number : 60139734
Bill Through Date : 29-JUL-23 - 22-SEP-23

Project Name : UNITIL PHYTOREMEDIATION PROGRAM

Task Number : 1600

Task Name : 2023 GW Supp Inspect

Labor Bill Rate					
Employee Name/Title	Title/Expenditure	Date	Hours	Bill Rate	Billed Amt
Chan, Nicholas (Nick)	P08	15-SEP-23	8.00	66.95	535.60
Howe, Charles S	P16	01-SEP-23	8.00	139.05	1,112.40
McCarthy, Ryan S	P18	04-AUG-23	1.00	175.10	175.10
McCarthy, Ryan S	P18	18-AUG-23	1.00	175.10	175.10
McCarthy, Ryan S	P18	25-AUG-23	1.00	175.10	175.10
McCarthy, Ryan S	P18	15-SEP-23	1.00	175.10	175.10
McCarthy, Ryan S	P18	22-SEP-23	1.00	175.10	175.10
McKenna, James Walter (Walter)	P08	15-SEP-23	8.00	65.00	520.00
Meyler, Mary E (Mary)	P11	18-AUG-23	0.50	128.75	64.38

Total Labor Bill Rate

29.50

3,107.88

Reimbursable

Expenditure Type	Employee/Vendor Name	Date	Inv Number	Raw Cost	Multiplier	Billed Amt
Lunch	Chan, Nicholas (Nick)	13-SEP-23	EXP9158023	15.68	1.0500	16.46
Mileage	Chan, Nicholas (Nick)	13-SEP-23	EXP9158023	91.56	1.0500	96.14
Outside Contractors	US ENVIRONMENTAL RENTAL CORP	14-SEP-23	158964	33.13	1.0500	34.79
Travel All Other	Chan, Nicholas (Nick)	13-SEP-23	EXP9158023	4.92	1.0500	5.17

Total Reimbursable

145.29

152.56

Task Total : 2023 GW Supp Inspect

3,260.44

Project Total : UNITIL PHYTOREMEDIATION PROGRAM

3,260.44

Invoice Summaries

Total Current Amount :		3,260.44
Retention Amount :		0.00
Pre-Tax Amount :		3,260.44
Tax Amount :		0.00
Total Invoice Amount :		3,260.44

30 40 00.00.182.29 00

PO 80303

Billing Summaries

Billing Summary	Current	Prior	Total	Limit	Remain
Billings	3,260.44	381,637.43	384,897.87	402,878.59	17,980.72
Tax	0.00	0.00	0.00		
Billing Total :	3,260.44	381,637.43	384,897.87		



AECOM
250 Apollo Drive
Chelmsford, MA 01824
aecom.com

September 26, 2023

AECOM Reference
60139734-Inv. 127

Mr. Thomas Murphy
Unitil Services Corp.
6 Liberty Lane W
Hampton, NH 03842-1720

RECEIVED OCT 02 ,

**Invoice for Activities Related to 2023 Phytoremediation Program
Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432)
32 Gonic Road, Rochester, NH
Period Ending September 22, 2023**

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2023 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$3,260.44. The total authorized budget for this project for the 2023 calendar year is \$22,200. As part of the scope of work, AECOM will perform six limited Site inspections on a bi-monthly basis for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1600 2023 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were labor related the August/ September site inspections/ well gauging activities. Limited field expenses and project management costs are also included. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$3,260.44.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Ryan McCarthy, MS
Project Manager
AECOM
E: ryan.mccarthy@aecom.com

AECOM Technology Corporation
Employee Timesheet

Timecard Period : 09-SEP-23 - 15-SEP-23
Organization : 41.ACM.US_ME.7965
Assignment Category : A - Full Time
Employee Category : Exempt
Employee Name : Chan, Nicholas (Nick)
Employee Number : 725473
Draft Number : 125

Project	Task	Type	SAT	SUN	MON	TUE	WED	THUR	FRI	Total
			09-SEP	10-SEP	11-SEP	12-SEP	13-SEP	14-SEP	15-SEP	
60139734 UNITIL ROCHESTER PHYTO	1600 2023 GW Supp Inspect	Regular Hrs	0.00	0.00	0.00	0.00	8.00	0.00	0.00	8.00
Total :			0.00	0.00	0.00	0.00	8.00	0.00	0.00	8.00

Chan, Nicholas (Nick)

McCarthy, Ryan S

Employee Signature

Approver For Employee Signature

Approver Signature

Total Regular Hours: 8.00
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00

AECOM Technology Corporation
Employee Timesheet

Timecard Period : 29-JUL-23 - 04-AUG-23
Organization : 41.ACM.US_ME.7965
Assignment Category : A - Full Time
Employee Category : Exempt
Employee Name : McCarthy, Ryan S
Employee Number : 648137
Draft Number : 125

Project	Task	Type	SAT 29-JUL	SUN 30-JUL	MON 31-JUL	TUE 01-AUG	WED 02-AUG	THUR 03-AUG	FRI 04-AUG	Total
60139734 UNITIL ROCHESTER PHYTO	1600 2023 GW Supp Inspect	Regular Hrs	0.00	0.00	0.00	0.50	0.00	0.00	0.50	1.00
Total :			0.00	0.00	0.00	0.50	0.00	0.00	0.50	1.00

McCarthy, Ryan S

Employee Signature

Total Regular Hours: 1.00
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00

Approver For Employee Signature

Tammi, Carl E

Approver Signature

AECOM Technology Corporation
Employee Timesheet

Timecard Period : 19-AUG-23 - 25-AUG-23
Organization : 41.ACM.US_ME.7965
Assignment Category : A - Full Time
Employee Category : Exempt
Employee Name : McCarthy, Ryan S
Employee Number : 648137
Draft Number : 125

Project	Task	Type	SAT	SUN	MON	TUE	WED	THUR	FRI	Total
			19-AUG	20-AUG	21-AUG	22-AUG	23-AUG	24-AUG	25-AUG	
60139734 UNITIL ROCHESTER PHYTO	1600 2023 GW Supp Inspect	Regular Hrs	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00
Total :			0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00

McCarthy, Ryan S

Employee Signature

Total Regular Hours: 1.00
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00

Approver For Employee Signature

Tammi, Carl E

Approver Signature

AECOM Technology Corporation
Employee Timesheet

Timecard Period : 16-SEP-23 - 22-SEP-23
Organization : 41.ACM.US_ME.7965
Assignment Category : A - Full Time
Employee Category : Exempt
Employee Name : McCarthy, Ryan S
Employee Number : 648137
Draft Number : 125

Project	Task	Type	SAT	SUN	MON	TUE	WED	THUR	FRI	Total
			16-SEP	17-SEP	18-SEP	19-SEP	20-SEP	21-SEP	22-SEP	
60139734 UNITIL ROCHESTER PHYTO	1600 2023 GW Supp Inspect	Regular Hrs	0.00	0.00	0.00	0.50	0.50	0.00	0.00	1.00
Total :			0.00	0.00	0.00	0.50	0.50	0.00	0.00	1.00

McCarthy, Ryan S

Employee Signature

Total Regular Hours: 1.00
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00

Approver For Employee Signature

Tammi, Carl E

Approver Signature

AECOM Technology Corporation
Employee Timesheet

Timecard Period : 12-AUG-23 - 18-AUG-23
Organization : 41.ACM.US_ME.7965
Assignment Category : A - Full Time
Employee Category : Exempt
Employee Name : Meyler, Mary E (Mary)
Employee Number : 647206
Draft Number : 125

Project	Task	Type	SAT	SUN	MON	TUE	WED	THUR	FRI	Total
			12-AUG	13-AUG	14-AUG	15-AUG	16-AUG	17-AUG	18-AUG	
60139734 UNITIL ROCHESTER PHYTO	1600 2023 GW Supp Inspect	Regular Hrs	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.50
Total :			0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.50

Meyler, Mary E (Mary)

Tammi, Carl E

Employee Signature

Approver For Employee Signature

Approver Signature

Total Regular Hours: 0.50
Total Overtime Hours: 0.00
Total Non-Worked Hours: 0.00



U.S. Environmental
Rentals • Sales • Service
DEVICE & DATA EXPERTISE
usenvironmental.com (888) 550-8100

U S Environmental Rental Corp
166 Riverview Ave
Waltham, MA 02453
(781)899-1560

Loc MA1
INVOICE# 158964
Inv. Date 09/14/23
FINAL INVOICE


Rented To: Aecom
Delivery Location: Aecom- Waltham Pick-Up

Aecom
P.O Box 5604
Glen Allen VA 23058-5604

Aecom- Waltham Pick-Up
166 Riverview Ave
Waltham MA 02453
Walter McKenna / (978) 804-4520
walter.mckenna@aecom.com

Ordered By: Walter McKenna
PO#: 60139734
Account #: Usenv

Ship Date: 09/12/23 Tue
Ship Method: Customer Pick Up @10AM
Bill To: Ryan McCarthy

Start Date: 09/13/23 Wed GAG
Through: 09/13/23 Wed MMJ
Project#:

Qty	Item	Description	Day	Week	4W	Discount	Total
1	3010-1045	Heron Dipper-T Serial #: 1226-T Out Date: 09/13/23	29.00	68.00	204.00	50%	14.50
1	3010-1455	Heron Skinny Dipper - 200FT Serial #: 13FF2204216ML Out Date: 09/13/23	29.00	68.00	204.00	50%	14.50

----- Payments -----

*** Total Reflects a \$29.00 Discount ***

Rentals	29.00
Sales	0.00
Delivery/Other	0.00
Damage Waiver	2.32
Sales Tax	1.81
Total	33.13

PLEASE REMIT ALL PAYMENTS TO:
166 Riverview Ave, Waltham, MA, 02453

Amount Billed 33.13
09/15/23 09:36:25 Page 1

Check Payment to:
AECOM Inc.
An AECOM Company
1178 Paysphere Circle
Chicago, IL 60674

ACH Payment to:
AECOM Inc.
An AECOM Company
Bank of America
Account Number 5800937020
ABA Number 071000039

Wire Transfer Payment to:
AECOM Inc.
An AECOM Company
Bank of America
New York, NY 10001
Account Number 5800937020
ABA Number 026009593
SWIFT CODE BOFAUS3N



250 Apollo Drive, Chelmsford, MA 01824
Tel: 978-905-2100
Fax: 978-905-2101

Federal Tax ID No. 06-0852759

ATTN : MURPHY THOMAS
UNITIL SERVICES CORPORATON
6 LIBERTY LANE W
HAMPTON, NH 03842
United States

Invoice Date: 07-NOV-23
Invoice Number: 2000820933

Agreement Number: EM13046004
Agreement Description: Conversion - 177741

Payment Term: 30 DAYS

Please reference Invoice Number and Project Number with Remittance

RECEIVED NOV 08 12 00 PM
[Signature]

Project Number : 60139734
Bill Through Date : 23-SEP-23 - 27-OCT-23

Project Name : UNITIL PHYTOREMEDIATION PROGRAM

Task Number : 1600

Task Name : 2023 GW Supp Inspect

Labor Bill Rate

Employee Name/Title	Title/Expenditure	Date	Hours	Bill Rate	Billed Amt
Howe, Charles S	P16	13-OCT-23	8.00	139.05	1,112.40
McCarthy, Ryan S	P18	13-OCT-23	1.00	175.10	175.10
McKenna, James Walter (Walter)	P08	13-OCT-23	8.00	65.00	520.00
Total Labor Bill Rate			17.00		1,807.50

Reimbursable

Expenditure Type	Employee/Vendor Name	Date	Inv Number	Raw Cost	Multiplier	Billed Amt
Field Supplies	US ENVIRONMENTAL RENTAL CORP	17-JUL-23	154245	49.13	1.0500	51.58
Field Supplies	US ENVIRONMENTAL RENTAL CORP	17-OCT-23	161292	49.13	1.0500	51.58
Lunch	McKenna, James Walter (Walter)	13-SEP-23	EXP9159325	23.64	1.0500	24.82
Lunch	McKenna, James Walter (Walter)	11-OCT-23	EXP9238955	12.53	1.0500	13.16
Materials	McKenna, James Walter (Walter)	11-OCT-23	EXP9238955	17.97	1.0500	18.87
Mileage	McKenna, James Walter (Walter)	13-SEP-23	EXP9159325	98.25	1.0500	103.16
Mileage	McKenna, James Walter (Walter)	11-OCT-23	EXP9238955	98.25	1.0500	103.16
Total Reimbursable				348.90		366.33

Task Total : 2023 GW Supp Inspect

2,173.83

Project Total : UNITIL PHYTOREMEDIATION PROGRAM

RECEIVED

2,173.83

Invoice Summaries

NOV 09 2023

Total Current Amount :	2,173.83
Retention Amount :	0.00
Pre-Tax Amount :	2,173.83
Tax Amount :	0.00
Total Invoice Amount :	2,173.83

Accounts Payable

Billing Summaries

Billing Summary	Current	Prior	Total	Limit	Remain
Billings	2,173.83	384,897.87	387,071.70	402,878.59	15,806.89
Tax	0.00	0.00	0.00		
Billing Total :	2,173.83	384,897.87	387,071.70		

PO 80303 30.40.00.00.182.29.00

Table 1 Invoice Summary
2022 Phytoremediation Program
October 2023 Billing Period

Task		Authorized Budget	Previously Invoiced	Current Invoice	Total Invoiced	Remaining Budget
1600	Continued Groundwater Suppression Installation Activities 2023	\$ 22,200.00	\$ 12,801.18	\$ 2,173.83	\$ 14,975.01	\$ 7,224.99
Total		\$22,200.00	\$12,801.18	\$2,173.83	\$14,975.01	\$7,224.99

2023 Phyto Funding \$22,200

Invoice Date
July 17, 2023

Invoice

154245

To		From	
Bill To	Ship To	Invoice From	Remit To
AECOM Technical Services Inc.	US - Chelmsford, MA - 250 Apollo Dr.	US ENVIRONMENTAL RENTAL CORP	Ship From
PO Box 203970	250 Apollo Dr.	166 RIVERVIEW A	None
Austin TX	Chelmsford MA	166 RIVERVIEW AVENUE	None
78720-3970	01824	WALTHAM, MA 02453	
United States	United States	United States	
Buyer Tax ID		Supplier Tax ID	
None		None	
Attn/Ref			
Ryan McCarthy			

Invoice Details

Invoice Number 154245	Invoice Date July 17, 2023	Payment Term NET 60 DAYS	Payment Due Date
Currency USD	Contract Number	Date of Supply July 17, 2023	
Legal Entity AECOM	Project 60139734-UNITIL ROCHESTER PHYTO		

Item	PO	Description	Supplier Part Number	Qty	Units	Unit Price	Total
1	None	Heron Skinny Dipper		1	EACH	46.44 USD	46.44 USD

Taxes

Taxable Amount Charged Per Rate	Total Tax Per Rate
46.44 USD at TAX (%)	2.69 USD

Totals

Taxable Amount	46.44 USD
Shipping	0.00 USD
Amount Excluding Tax	46.44 USD
Total Tax	2.69 USD
Total Payable	49.13 USD



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usenvironmental.com (888) 550-8100

U S Environmental Rental Corp
166 Riverview Ave
Waltham, MA 02453
(781)899-1560

Loc MA1
INVOICE# 154245
Inv. Date 07/17/23

FINAL INVOICE



Rented To: Aecom P.O Box 5604 Glen Allen VA 23058-5604	Delivery Location: Aecom - Chelmsford 250 Apollo Dr. Chelmsford MA 01824 Walter McKenna / (978) 804-4520 walter.mckenna@aecom.com
--	---

Ordered By: Walter McKenna	Ship Date: 07/13/23 Thu	Start Date: 07/14/23 Fri GAG
PO#: 60139734	Ship Method: Delivery By 5PM	Through: 07/14/23 Fri MMJ
Account #: *AECOM036	Bill To: Ryan McCarthy	Project#:

Qty	Item	Description	Day	Week	4W	Discount	Total
1	3010-1451	Heron Skinny Dipper - 200FT Serial #: 13FF202252HB Out Date: 07/14/23	29.00	68.00	204.00	50%	14.50
1	3020-1423	Heron H.Oil - 300FT Serial #: 16GF2210042FR Out Date: 07/14/23	57.00	169.00	507.00	50%	28.50

---- Payments ----

*** Total Reflects a \$43.00 Discount ***

Rentals	43.00
Sales	0.00
Delivery/Other	0.00
Damage Waiver	3.44
Sales Tax	2.69
Total	49.13

PLEASE REMIT ALL PAYMENTS TO:
166 Riverview Ave, Waltham, MA, 02453

Amount Billed 49.13

07/18/23 12:07:31 Page 1

From "USAPImaging@aecom.com" <USAPImaging@aecom.com>
Subject **FW: U.S. Environmental Rental Corp. Invoice**
To "aecom-invoices@ctiimage.com" <aecom-invoices@ctiimage.com>
Date July 18, 2023 at 12:07:59 PM EDT

From: mariaj@usenvironmental.com <mariaj@usenvironmental.com>
Sent: Tuesday, July 18, 2023 9:07:40 AM (UTC-08:00) Pacific Time (US & Canada)
To: USAPImaging@aecom.com <USAPImaging@aecom.com>
Subject: U.S. Environmental Rental Corp. Invoice

To:
Accounts Payable
AECOM
USAPImaging@aecom.com

Please process the attached invoice for payment.

If you have any questions, please give us a call at 781-899-1560 M-F 9:00AM - 6:00PM.

REMIT ALL PAYMENTS TO:
U.S. Environmental Rental Corporation
166 Riverview Ave.
Waltham, MA 02453

Thank you,
Maria Jimenez

U S Environmental Rental Corp
166 Riverview Ave
Waltham, MA 02453

Phone: (781) 899-1560

Invoice Date
October 17, 2023

Invoice

161292

To

Bill To
AECOM Technical Services
Inc.
PO Box 203970
Austin
TX
78720-3970
United States

Buyer Tax ID
None

Attn/Ref
Ryan McCarthy

Ship To
US - Chelmsford, MA - 250
Apollo Dr.
250 Apollo Dr.
Chelmsford
MA
01824
United States

From

Invoice From
US ENVIRONMENTAL RENTAL CORP
166 RIVERVIEW A
166 RIVERVIEW AVENUE
WALTHAM, MA 02453
United States

Remit To
None

Ship From
None

Supplier Tax ID
None

Invoice Details

Invoice Number 161292	Invoice Date October 17, 2023	Payment Term NET 60 DAYS	Payment Due Date
Currency USD	Contract Number	Date of Supply October 17, 2023	
Legal Entity AECOM	Project 60139734-UNITIL ROCHESTER PHYTO		

Item	PO	Description	Supplier Part Number	Qty	Units	Unit Price	Total
1	None			1	EACH	46.44 USD	46.44 USD

Taxes

Taxable Amount Charged Per Rate	Total Tax Per Rate
46.44 USD at TAX (%)	2.69 USD

Totals

Taxable Amount	46.44 USD
Shipping	0.00 USD
Amount Excluding Tax	46.44 USD
Total Tax	2.69 USD
Total Payable	49.13 USD



U.S. Environmental
Rentals • Sales • Service
DEVICE & DATA EXPERTISE
usenvironmental.com (888) 550-8100

U S Environmental Rental Corp
166 Riverview Ave
Waltham, MA 02453
(781)899-1560

Loc MA1
INVOICE# 161292
Inv. Date 10/17/23
FINAL INVOICE


Rented To: Aecom
Delivery Location: Aecom - Chelmsford

Aecom
P.O Box 5604
Glen Allen VA 23058-5604

250 Apollo Dr.
Chelmsford MA 01824
Walter McKenna / (978) 804-4520
walter.mckenna@aecom.com

Ordered By: Walter McKenna Ship Date: 10/10/23 Tue Start Date: 10/11/23 Wed SMS
PO#: 60139734 Ship Method: Delivery By 5PM Through: 10/11/23 Wed JTH
Account #: *AECOM036 Bill To: Ryan McCarthy Project#:

Qty	Item	Description	Day	Week	AW	Discount	Total
Both Heron							
1	3010-1456	Heron Skinny Dipper - 200FT Serial #: 13FF2203119ML Out Date: 10/11/23	29.00	68.00	204.00	50%	14.50
1	3020-1437	Heron H.Oil - 200FT Serial #: 16FF2305147ML Out Date: 10/11/23	57.00	169.00	507.00	50%	28.50

----- Payments -----

*** Total Reflects a \$43.00 Discount ***

Rentals	43.00
Sales	0.00
Delivery/Other	0.00
Damage Waiver	3.44
Sales Tax	2.69
Total	49.13

PLEASE REMIT ALL PAYMENTS TO:
166 Riverview Ave, Waltham, MA, 02453

Amount Billed 49.13

10/18/23 11:55:17 Page 1

From "USAPImaging@aecom.com" <USAPImaging@aecom.com>
Subject **FW: U.S. Environmental Rental Corp. Invoice**
To "aecom-invoices@ctiimage.com" <aecom-invoices@ctiimage.com>
Date October 18, 2023 at 11:55:35 AM EDT

From: jhuh@usenvironmental.com <jhuh@usenvironmental.com>
Sent: Wednesday, October 18, 2023 8:55:20 AM (UTC-08:00) Pacific Time (US & Canada)
To: USAPImaging@aecom.com <USAPImaging@aecom.com>
Subject: U.S. Environmental Rental Corp. Invoice

To:
Accounts Payable
AECOM
USAPImaging@aecom.com

Please process the attached invoice for payment.

If you have any questions, please give us a call at 781-899-1560 M-F 9:00AM - 6:00PM.

REMIT ALL PAYMENTS TO:
U.S. Environmental Rental Corporation
166 Riverview Ave.
Waltham, MA 02453

Thank you,
Joon Huh

U S ENVIRONMENTAL RENTAL CORP
166 RIVERVIEW AVE
WALTHAM, MA 02453

Phone: (781) 899-1560
JOON HUH
jhuh@usenvironmental.com

Employee Name McKenna, James Walter (Walter)
Expense Date Range 12-SEP-23 - 28-SEP-23
Cost Center 7965
Approver McCarthy, Ryan S
Report Submit Date 28-SEP-2023
Report Currency USD
Project 60139734
Task 1600
Draft Number 126

ACM
 Signature

I certify the claimed business expenses contained herein are bona fide and proper business expenses incurred on behalf of AECOM, and is in accordance with AECOM travel & expense policies.

Supplier Expenses

Date	Expense Type	Receipt Amount	Receipt Currency	Reimbursable Amount	Merchant	Justification	Expenditure Organization
13-SEP-2023	Lunch	23.64	USD	23.64		Lunch at Unitil Rochester site.	41.ACM.US_ME.7965

Mileage Expense

Start Date	End Date	Expense Type	Receipt Amount	Receipt Currency	Reimbursable Amount	Trip Distance	Mileage Rate	Justification	Expenditure Organization
13-SEP-2023	13-SEP-2023	Mileage	98.25	USD	98.25	150	.655	Trip to Unitil Rochester site (roundtrip).	41.ACM.US_ME.7965

Total: 121.89



My Cielo Taqueria
467 HOLLYHURST AVE
ROCKFORD, IL 61107-1197
815.398.7799

To Go

Cashier: Chapparris
RS: Sep 2023 7:28:58

Transaction 20007		
CASH		
1 To-Go		\$6.50
1 Burrito Head		\$1.49
	Chicken	\$0.90
1 Janitor		\$2.50
Subtotal		
State Tax	1.5%	\$0.99
		\$4.97
Total		
Tip		\$20.56
		\$25.53
CREDIT CARD		
MAYSTRECARD		

Retain this copy for statement validation

13 SEP 2023 7:28:58
\$25.53 | Method: CASH
MAYSTRECARD
Reference ID: 20230908166 | Auth ID:
028792
MIP: 028792
AUS: 028792
THANK YOU, SEE YOU SOON!

Get 19 points towards perks

when purchase code is 7752



Expires 09/30/2023

How are we doing?
Your review is 7/10
to send anyone feedback

Check Receipts Here
Please Print Here
Please Print Here
[Link]

Employee Name McKenna, James Walter (Walter)
Expense Date Range 28-SEP-23 - 26-OCT-23
Cost Center 7965
Approver McCarthy, Ryan S
Report Submit Date 29-OCT-2023
Report Currency USD
Project 60139734
Task 1600
Draft Number 126

ACM
Signature

I certify the claimed business expenses contained herein are bona fide and proper business expenses incurred on behalf of AECOM, and is in accordance with AECOM travel & expense policies.

Supplier Expenses

Date	Expense Type	Receipt Amount	Receipt Currency	Reimbursable Amount	Merchant	Justification	Expenditure Organization
11-OCT-2023	Lunch	12.53	USD	12.53		Unitil Roch meal.	41.ACM.US_ME.7965
11-OCT-2023	Materials	17.97	USD	17.97		Nitrile gloves for well gauging.	41.ACM.US_ME.7965

Mileage Expense

Start Date	End Date	Expense Type	Receipt Amount	Receipt Currency	Reimbursable Amount	Trip Distance	Mileage Rate	Justification	Expenditure Organization
11-OCT-2023	11-OCT-2023	Mileage	98.25	USD	98.25	150	.655	Trip to Unitil Rochester site (roundtrip).	41.ACM.US_ME.7965

Total: 128.75



**How doers
get more done.**

NOW HIRING TEXT HOMEDEPOT TO 52270
KEN CILLO@HOMEDEPOT.COM

3409 00062 93914 10/11/23 07:26 AM
SALE SELF CHECKOUT

731919245700 1 SIZE FITS <A> 17.97N
HDX DISPOSABLE NITRILE BLUE 100CT

SUBTOTAL 17.97
SALES TAX 0.00
TOTAL \$17.97

XXXXXXXXXXXX8766 MASTERCARD USD\$ 17.97
AUTH CODE 01381Z/8622587 TA
Chip Read
AID A0000000041010 CAPITAL ONE

3409 10/11/23 07:26 AM



3409 62 93914 10/11/2023 8038

RETURN POLICY DEFINITIONS
POLICY ID DAYS POLICY EXPIRES ON
A 1 90 01/09/2024

DID WE NAIL IT?

Take a short survey for a chance TO WIN
A \$5,000 HOME DEPOT GIFT CARD

Opine en español

www.homedepot.com/survey

User ID: H89 191526 188179
PASSWORD: 23511 188117

Entries must be completed within 14 days
of purchase. Entrants must be 18 or
older to enter. See complete rules on
website. No purchase necessary.



AECOM
250 Apollo Drive
Chelmsford, MA 01824
aecom.com

November 1, 2023

AECOM Reference
60139734-Inv. 128

Mr. Thomas Murphy
Unitil Services Corp.
6 Liberty Lane W
Hampton, NH 03842-1720

RECEIVED NOV 08 1 2023

Invoice for Activities Related to 2023 Phytoremediation Program
Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432)
32 Gonic Road, Rochester, NH
Period Ending October 27, 2023

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2023 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$2,173.83. The total authorized budget for this project for the 2023 calendar year is \$22,200. As part of the scope of work, AECOM will perform monthly Site inspections for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1600 2023 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were labor related the October site inspection/ well gauging activities. Limited field expenses and project management costs are also included. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$2,173.83.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Ryan McCarthy, MS
Project Manager
AECOM
E: ryan.mccarthy@aecom.com



Check Payment to:
AECOM Inc.
An AECOM Company
1178 Paysphere Circle
Chicago, IL 60674

ACH Payment to:
AECOM Inc.
An AECOM Company
Bank of America
Account Number 5800937020
ABA Number 071000039

Wire Transfer Payment to:
AECOM Inc.
An AECOM Company
Bank of America
New York, NY 10001
Account Number 5800937020
ABA Number 026009593
SWIFT CODE BOFAUS3N

250 Apollo Drive, Chelmsford, MA 01824
Tel: 978-905-2100
Fax: 978-905-2101

Federal Tax ID No. 06-0852759

ATTN: MURPHY THOMAS
UNITIL SERVICES CORPORATION
6 LIBERTY LANE W
HAMPTON, NH 03842
United States

Invoice Date: 20-DEC-23
Invoice Number: 2000838000

Agreement Number: EMI3046004
Agreement Description: Conversion - 177741

Payment Term: 30 DAYS

Please reference Invoice Number and Project Number with Remittance

RECEIVED DEC 20 1 00 23
[Signature]

Project Number : 60139734
Bill Through Date : 28-OCT-23 - 04-DEC-23

Project Name : UNITIL PHYTOREMEDIATION PROGRAM

Task Number : 1600

Task Name : 2023 GW Supp Inspect

Labor Bill Rate

Employee Name/Title	Title/Expenditure	Date	Hours	Bill Rate	Billed Amt
Chan, Nicholas (Nick)	P08	10-NOV-23	8.00	66.95	535.60
McCarthy, Ryan S	P18	03-NOV-23	1.00	175.10	175.10
McCarthy, Ryan S	P18	10-NOV-23	0.50	175.10	87.55
McCarthy, Ryan S	P18	01-DEC-23	0.50	175.10	87.55
McKenna, James Walter (Walter)	P08	24-NOV-23	4.00	65.00	260.00
McKenna, James Walter (Walter)	P08	01-DEC-23	1.50	65.00	97.50
Meyler, Mary E (Mary)	P11	01-DEC-23	0.50	128.75	64.38
Total Labor Bill Rate			16.00		1,307.68

Reimbursable

Expenditure Type	Employee/Vendor Name	Date	Inv Number	Raw Cost	Multiplier	Billed Amt
Lunch	McKenna, James Walter (Walter)	21-NOV-23	EXP9273339	15.29	1.0500	16.05
Materials	McKenna, James Walter (Walter)	21-NOV-23	EXP9273339	5.00	1.0500	5.25
Mileage	McKenna, James Walter (Walter)	21-NOV-23	EXP9273339	98.25	1.0500	103.16
Total Reimbursable				118.54		124.46

Task Total : 2023 GW Supp Inspect

Accounts Payable

Project Total : UNITIL PHYTOREMEDIATION PROGRAM

1,432.14

Invoice Summaries

Total Current Amount :	30.50.00.00.187.79.00	1,432.14
Retention Amount :		0.00
Pre-Tax Amount :		1,432.14
Tax Amount :		0.00
Total Invoice Amount :		1,432.14

PO 80303

[Signature]

Billing Summaries

Billing Summary	Current	Prior	Total	Limit	Remain
Billings	1,432.14	387,071.70	388,503.84	402,878.59	14,374.75
Tax	0.00	0.00	0.00		
Billing Total :	1,432.14	387,071.70	388,503.84		

Applied J/M 12/20/23

Table 1 Invoice Summary
2022 Phytoremediation Program
November 2023 Billing Period

Task		Authorized Budget	Previously Invoiced	Current Invoice	Total Invoiced	Remaining Budget
1600	Continued Groundwater Suppression Installation Activities 2023	\$ 22,200.00	\$ 14,975.01	\$ 1,432.14	\$ 16,407.15	\$ 5,792.85
Total		\$22,200.00	\$14,975.01	\$1,432.14	\$16,407.15	\$5,792.85

2023 Phyto Funding \$22,200

Employee Name McKenna, James Walter (Walter)
 Expense Date Range 31-OCT-23 - 21-NOV-23
 Cost Center 7965
 Approver McCarthy, Ryan S
 Report Submit Date 27-NOV-2023
 Report Currency USD
 Project 60139734
 Task 1600
 Draft Number 127

ACM
Signature

I certify the claimed business expenses contained herein are bona fide and proper business expenses incurred on behalf of AECOM, and is in accordance with AECOM travel & expense policies.

Supplier Expenses

Date	Expense Type	Receipt Amount	Receipt Currency	Reimbursable Amount	Merchant	Justification	Expenditure Organization
21-NOV-2023	Lunch	15.29	USD	15.29		Ice for sample cooler. Meal.	41.ACMUS_ME.7965
21-NOV-2023	Materials	5.00	USD	5.00		Ice for sample cooler.	41.ACMUS_ME.7965

Mileage Expense

Start Date	End Date	Expense Type	Receipt Amount	Receipt Currency	Reimbursable Amount	Trip Distance	Mileage Rate	Justification	Expenditure Organization
21-NOV-2023	21-NOV-2023	Mileage	98.25	USD	98.25	150	.655	Trip to Unital Roch site (roundtrip).	41.ACMUS_ME.7965

Total: 118.54



AECOM
250 Apollo Drive
Chelmsford, MA 01824
aecom.com

December 19, 2023

AECOM Reference
60139734-Inv. 129

RECEIVED DEC 20 12 00 23

Mr. Thomas Murphy
Unitil Services Corp.
6 Liberty Lane W
Hampton, NH 03842-1720

Invoice for Activities Related to 2023 Phytoremediation Program
Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432)
32 Gonic Road, Rochester, NH
Period Ending December 4, 2023

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2023 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$1,432.14. The total authorized budget for this project for the 2023 calendar year is \$22,200. As part of the scope of work, AECOM will perform monthly Site inspections for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1600 2023 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were labor related the November site inspection/ well gauging activities. Limited field expenses and project management costs are also included. As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$1,432.14.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Ryan McCarthy, MS
Project Manager
AECOM
E: ryan.mccarthy@aecom.com



Check Payment to:
AECOM Inc.
An AECOM Company
1178 Paysphere Circle
Chicago, IL 60674

ACH Payment to:
AECOM Inc.
An AECOM Company
Bank of America
Account Number 5800937020
ABA Number 071000039

Wire Transfer Payment to:
AECOM Inc.
An AECOM Company
Bank of America
New York, NY 10001
Account Number 5800937020
ABA Number 026009593
SWIFT CODE BOFAUS3N

250 Apollo Drive, Chelmsford, MA 01824
Tel: 978-905-2100
Fax: 978-905-2101

Federal Tax ID No. 06-0852759

ATTN : MURPHY THOMAS
UNITIL SERVICES CORPORATON
6 LIBERTY LANE W
HAMPTON, NH 03842
United States

Invoice Date: 04-JAN-24
Invoice Number: 2000841547

Agreement Number: EM13046004
Agreement Description: Conversion - 177741

Payment Term: 30 DAYS

RECEIVED

JAN 17 2024

ACCOUNTS PAYABLE

RECEIVED JAN 09 12024
[Handwritten signature]

Please reference Invoice Number and Project Number with Remittance

Project Number : 60139734 Project Name : UNITIL PHYTOREMEDIATION PROGRAM
Bill Through Date : 05-DEC-23 - 29-DEC-23

Task Number : 1600

Task Name : 2023 GW Supp Inspect

Employee Name/Title	Title/Expenditure	Date	Hours	Bill Rate	Billed Amt
Chan, Nicholas (Nick)	P08	22-DEC-23	8.00	66.95	535.60
Howe, Charles S	P16	15-DEC-23	0.50	139.05	69.53
Howe, Charles S	P16	22-DEC-23	8.00	139.05	1,112.40
Howe, Charles S	P16	29-DEC-23	2.00	139.05	278.10
McCarthy, Ryan S	P18	15-DEC-23	1.00	175.10	175.10
McCarthy, Ryan S	P18	22-DEC-23	2.00	175.10	350.20
Total Labor Bill Rate			21.50		2,520.93
Task Total : 2023 GW Supp Inspect					2,520.93

Project Total : UNITIL PHYTOREMEDIATION PROGRAM **2,520.93**

Invoice Summaries		
Total Current Amount :		2,520.93
Retention Amount :		0.00
Pre-Tax Amount :		2,520.93
Tax Amount :		0.00
Total Invoice Amount :		2,520.93

Billing Summaries					
Billing Summary	Current	Prior	Total	Limit	Remain
Billings	2,520.93	388,503.84	391,024.77	402,878.59	11,853.82
Tax	0.00	0.00	0.00		
Billing Total :	2,520.93	388,503.84	391,024.77		

PO 80303 30,400.00, 182,79.00



AECOM
250 Apollo Drive
Chelmsford, MA 01824
aecom.com

January 3, 2023

AECOM Reference
60139734-Inv. 130

Mr. Thomas Murphy
Unitil Services Corp.
6 Liberty Lane W
Hampton, NH 03842-1720

RECEIVED JAN 09 12024

**Invoice for Activities Related to 2023 Phytoremediation Program
Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432)
32 Gonic Road, Rochester, NH
Period Ending December 29, 2023**

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2023 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$2,520.93. The total authorized budget for this project for the 2023 calendar year is \$22,200. As part of the scope of work, AECOM will perform monthly Site inspections for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1600 2023 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were labor related the December Site inspection/ well gauging activities (limited project management costs are also included). As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$2,520.93.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Ryan McCarthy, MS
Project Manager
AECOM
E: ryan.mccarthy@aecom.com



Check Payment to:
AECOM Inc.
An AECOM Company
1178 Paysphere Circle
Chicago, IL 60674

ACH Payment to:
AECOM Inc.
An AECOM Company
Bank of America
Account Number 5800937020
ABA Number 071000039

Wire Transfer Payment to:
AECOM Inc.
An AECOM Company
Bank of America
New York, NY 10001
Account Number 5800937020
ABA Number 026009593
SWIFT CODE BOFAUS3N

250 Apollo Drive, Chelmsford, MA 01824
Tel: 978-905-2100
Fax: 978-905-2101

Federal Tax ID No. 06-0852759

ATTN : MURPHY THOMAS
UNITIL SERVICES CORPORATON
6 LIBERTY LANE W
HAMPTON, NH 03842
United States

Invoice Date: 01-FEB-24
Invoice Number: 2000851966

Agreement Number: EM13046004
Agreement Description: Conversion - 177741

Payment Term: 30 DAYS

RECEIVED FEB 01 12:00 PM
[Signature]

Please reference Invoice Number and Project Number with Remittance

Project Number : 60139734
Bill Through Date : 30-DEC-23 - 26-JAN-24

Project Name : UNITIL PHYTOREMEDIATION PROGRAM

Task Number : 1600

Task Name : 2023 GW Supp Inspect

Labor Bill Rate

Employee Name/Title	Title/Expenditure	Date	Hours	Bill Rate	Billed Amt
Howe, Charles S	P16	05-JAN-24	8.00	139.05	1,112.40
McCarthy, Ryan S	P18	05-JAN-24	2.00	175.10	350.20
McCarthy, Ryan S	P18	19-JAN-24	1.00	175.10	175.10
McKenna, James Walter (Walter)	P08	05-JAN-24	8.00	65.00	520.00
McKenna, James Walter (Walter)	P08	12-JAN-24	1.00	65.00	65.00
Total Labor Bill Rate			20.00		2,222.70

Reimbursable

Expenditure Type	Employee/Vendor Name	Date	Inv Number	Raw Cost	Multiplier	Billed Amt
Field Supplies	US ENVIRONMENTAL RENTAL CORP	27-NOV-23	164968	354.45	1.0500	372.17
Field Supplies	US ENVIRONMENTAL RENTAL CORP	28-DEC-23	167506	16.57	1.0500	17.40
Field Supplies	US ENVIRONMENTAL RENTAL CORP	08-JAN-24	168241	50.27	1.0500	52.79
Lunch	Chan, Nicholas (Nick)	22-DEC-23	EXP9356957	17.23	1.0500	18.09
Lunch	McKenna, James Walter (Walter)	05-JAN-24	EXP9361274	20.16	1.0500	21.17
Mileage	Chan, Nicholas (Nick)	22-DEC-23	EXP9338778	89.74	1.0500	94.22
Mileage	McKenna, James Walter (Walter)	05-JAN-24	EXP9361274	100.50	1.0500	105.53
Travel All Other	Chan, Nicholas (Nick)	22-DEC-23	EXP9338778	4.92	1.0500	5.17
Total Reimbursable				653.84		686.54

Task Total : 2023 GW Supp Inspect

RECEIVED
FEB 05 2024

2,909.24

Project Total : UNITIL PHYTOREMEDIATION PROGRAM

2,909.24

ACCOUNTS PAYABLE

Invoice Summaries

Total Current Amount :	2,909.24
Retention Amount :	0.00
Pre-Tax Amount :	2,909.24
Tax Amount :	0.00
Total Invoice Amount :	2,909.24

PO 81758 30.40.00.00.182.29.00 *[Signature]*

Billing Summaries

Billing Summary	Current	Prior	Total	Limit	Remain
Billings	2,909.24	391,024.77	393,934.01	402,878.59	8,944.58
Tax	0.00	0.00	0.00		

Billing Summaries

<u>Billing Summary</u>	<u>Current</u>	<u>Prior</u>	<u>Total</u>	<u>Limit</u>	<u>Remain</u>
Billing Total :	2,909.24	391,024.77	393,934.01		

Outstanding Invoices

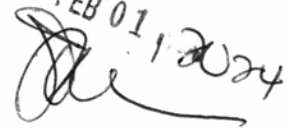
<u>Invoice Number</u>	<u>Invoice Date</u>	<u>Invoice Balance</u>
2000841547 <i>PAD</i>	04-JAN-24	2,520.93
Outstanding Total :		<u>2,520.93</u>

January 30, 2024

AECOM Reference
60139734-Inv. 131

Mr. Thomas Murphy
Unitil Services Corp.
6 Liberty Lane W
Hampton, NH 03842-1720

**Invoice for Activities Related to 2023 Phytoremediation Program
Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432)
32 Gonic Road, Rochester, NH
Period Ending January 26, 2024**

RECEIVED FEB 01 12 2024


Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2023 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$2,909.24. The total authorized budget for this project for the 2023 calendar year is \$22,200. As part of the scope of work, AECOM will perform monthly Site inspections for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed


The following section briefly describes work and charges for this invoicing period for each task:

Task 1600 2023 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were labor related the January Site inspection/ well gauging activities (limited project management costs are also included). As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$2,909.24.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,



Ryan McCarthy, MS
Project Manager
AECOM
E: ryan.mccarthy@aecom.com

IMPORTANT REMITTANCE INFORMATION

Please include the AECOM invoice number when sending payment

INVOICE NUMBER: 2000851966
Invoice Date: 01-FEB-24
Invoice Due Date: 02-MAR-24
Amount Due: \$2,909.24 USD
Project Number: 60139734

To process your payment timely and ensure credit is given, please include the AECOM invoice number when sending payment. Including this invoice number will allow AECOM to promptly apply your payment without delay or additional information requests placed upon your organization.

Failure to reference the AECOM invoice number when sending payment may result in delay of your account being credited.

To expedite payment processing, AECOM is asking its clients to submit payments electronically by ACH (Automated Clearing House) if possible.

ACH payments provide an alternative to paper checks, affording you the following advantages:

- Certainty of delivery
- Reduced operating costs through the elimination of paper check mailing

Regards,

AECOM Cash Application Department
CashAppsRemittance@aecom.com

Table 1 Invoice Summary
2023 Phytoremediation Program
January 2024 Billing Period

Task		Authorized Budget	Previously Invoiced	Current Invoice	Total Invoiced	Remaining Budget
1600	Continued Groundwater Suppression Installation Activities 2023	\$ 22,200.00	\$ 18,928.08	\$ 2,909.24	\$ 21,837.32	\$ 362.68
Total		\$22,200.00	\$18,928.08	\$2,909.24	\$21,837.32	\$362.68

2023 Phyto Funding \$22,200



Check Payment to:
AECOM Inc.
An AECOM Company
1178 Paysphere Circle
Chicago, IL 60674

ACH Payment to:
AECOM Inc.
An AECOM Company
Bank of America
Account Number 5800937020
ABA Number 071000039

Wire Transfer Payment to:
AECOM Inc.
An AECOM Company
Bank of America
New York, NY 10001
Account Number 5800937020
ABA Number 026009593
SWIFT CODE BOFAUS3N

250 Apollo Drive, Chelmsford, MA 01824
Tel: 978-905-2100
Fax: 978-905-2101

RECEIVED

APR 01 2024

Federal Tax ID No. 06-0852759

ATTN : MURPHY THOMAS
UNITIL SERVICES CORPORATON
6 LIBERTY LANE W
HAMPTON, NH 03842
United States

ACCOUNTS PAYABLE

Invoice Date: 27-MAR-24
Invoice Number: 2000871945

Agreement Number: EM13046004
Agreement Description: Conversion - 177741

Payment Term: 30 DAYS

RECEIVED MAR 28 12:00 PM
[Signature]

Please reference Invoice Number and Project Number with Remittance

Project Number : 60139734
Bill Through Date : 27-JAN-24 - 22-MAR-24

Project Name : UNITIL PHYTOREMEDIATION PROGRAM

Task Number : 1700

Task Name : Cont GW Supp Install

Labor Bill Rate

Employee Name/Title	Title/Expenditure	Date	Hours	Bill Rate	Billed Amt
Howe, Charles S	P17	15-MAR-24	6.00	159.65	957.90
McCarthy, Ryan S	P18	15-MAR-24	1.00	175.10	175.10
McCarthy, Ryan S	P18	22-MAR-24	1.00	175.10	175.10
McKenna, James Walter (Walter)	P08	15-MAR-24	14.25	65.00	926.25
McKenna, James Walter (Walter)	P08	22-MAR-24	0.50	65.00	32.50
Meyler, Mary E (Mary)	P15	08-MAR-24	1.00	128.75	128.75
McCarthy, Ryan S	P18	02-FEB-24	0.50	175.10	87.55
McCarthy, Ryan S	P18	16-FEB-24	0.50	175.10	87.55
McCarthy, Ryan S	P18	08-MAR-24	1.00	175.10	175.10
McKenna, James Walter (Walter)	P08	02-FEB-24	8.00	65.00	520.00
McKenna, James Walter (Walter)	P08	09-FEB-24	0.50	65.00	32.50
White, Taylor Patrick (Taylor)	Junior Technician	02-FEB-24	8.00	83.00	664.00
Total Labor Bill Rate			42.25		3,962.30

RECEIVED
APR 01 2024
APPROVED
JS

Reimbursable

Expenditure Type	Employee/Vendor Name	Date	Inv Number	Raw Cost	Multiplier	Billed Amt
Lunch	McKenna, James Walter (Walter)	08-MAR-24	EXP9460565	20.54	1.0500	21.57
Mileage	McKenna, James Walter (Walter)	08-MAR-24	EXP9460565	100.50	1.0500	105.53
Field Supplies	US ENVIRONMENTAL RENTAL CORP	06-FEB-24	170150	17.14	1.0500	18.00
Field Supplies	US ENVIRONMENTAL RENTAL CORP	11-MAR-24	173025	17.14	1.0500	18.00
Lunch	McKenna, James Walter (Walter)	02-FEB-24	EXP9403594	15.72	1.0500	16.51
Materials	White, Taylor Patrick (Taylor)	31-JAN-24	EXP9394339	23.98	1.0500	25.18
Materials	McKenna, James Walter (Walter)	02-FEB-24	EXP9403594	7.47	1.0500	7.84
Mileage	McKenna, James Walter (Walter)	02-FEB-24	EXP9403594	100.50	1.0500	105.53
Total Reimbursable				302.99		318.16

Task Total : Cont GW Supp Install

4,280.46

Project Total : UNITIL PHYTOREMEDIATION PROGRAM

4,280.46

Invoice Summaries

Total Current Amount :	4,280.46
Retention Amount :	0.00
Pre-Tax Amount :	4,280.46
Tax Amount :	0.00
Total Invoice Amount :	4,280.46

000041

Billing Summaries

<u>Billing Summary</u>	<u>Current</u>	<u>Prior</u>	<u>Total</u>	<u>Limit</u>	<u>Remain</u>
Billings	4,280.46	393,934.01	398,214.47	423,778.59	25,564.12
Tax	0.00	0.00	0.00		
Billing Total :	<u>4,280.46</u>	<u>393,934.01</u>	<u>398,214.47</u>		

Outstanding Invoices

<u>Invoice Number</u>	<u>Invoice Date</u>	<u>Invoice Balance</u>
2000841547	04-JAN-24	2,520.93
Outstanding Total :		<u>2,520.93</u>

PO 81758

30.40.00.00.182.29.00



Employee Name White, Taylor Patrick (Taylor)
Expense Date Range 25-JAN-24 - 09-FEB-24
Cost Center 7965
Approver McCarthy, Ryan S
Report Submit Date 20-FEB-2024
Report Currency USD
Project 60139734
Task 1600
Draft Number 130

ACM
Signature

I certify the claimed business expenses contained herein are bona fide and proper business expenses incurred on behalf of AECOM, and is in accordance with AECOM travel & expense policies.

Supplier Expenses

Date	Expense Type	Receipt Amount	Receipt Currency	Reimbursable Amount	Merchant	Justification	Expenditure Organization
31-JAN-2024	Materials	23.98	USD	23.98		Crampons for icy/snow condition site visit	41.ACM.US_ME.7965
				Total:	23.98		

Invoice Date
February 06, 2024

Invoice

170150

To	
Bill To	Ship To
AECOM Technical Services Inc.	US - Chelmsford, MA - 250 Apollo Dr.
PO Box 203970	250 Apollo Dr.
Austin TX	Chelmsford MA
78720-3970	01824
United States	United States
Buyer Tax ID	
None	
Attn/Ref	
Ryan McCarthy	

From		Remit To	Ship From
Invoice From			
US ENVIRONMENTAL RENTAL CORP		None	None
166 RIVERVIEW A			
166 RIVERVIEW AVENUE			
WALTHAM, MA 02453			
United States			
Supplier Tax ID			
None			

Invoice Details

Invoice Number 170150	Invoice Date February 06, 2024	Payment Term NET 60 DAYS	Payment Due Date
Currency USD	Contract Number	Date of Supply February 06, 2024	
Legal Entity AECOM	Project 60139734-UNITIL ROCHESTER PHYTO		

Item	PO	Description	Supplier Part Number	Qty	Units	Unit Price	Total
1	None			1	EACH	16.20 USD	16.20 USD

Taxes

Taxable Amount Charged Per Rate	Total Tax Per Rate
16.20 USD at TAX (%)	0.94 USD

Totals

Taxable Amount	16.20 USD
Shipping	0.00 USD
Amount Excluding Tax	16.20 USD
Total Tax	0.94 USD
Total Payable	17.14 USD



U.S. Environmental
Rentals • Sales • Service
DEVICE & DATA EXPERTISE
usenvironmental.com (888) 550-8100

U S Environmental Rental Corp
166 Riverview Ave
Waltham, MA 02453
(781)899-1560

Loc MA1
INVOICE# 170150
Inv. Date 02/06/24
FINAL INVOICE


Rented To: Aecom P.O Box 5604 Glen Allen VA 23058-5604	Delivery Location: Aecom - Chelmsford 250 Apollo Dr. Chelmsford MA 01824 Walter McKenna / (978) 804-4520 walter.mckenna@aecom.com
--	---

Ordered By: Walter McKenna	Ship Date: 02/01/24 Thu	Start Date: 02/02/24 Fri SMS
PO#: 60139734	Ship Method: Delivery By 5PM	Through: 02/02/24 Fri MMJ
Account #: *AECOM036	Bill To: Ryan McCarthy	Project#:

Qty	Item	Description	Day	Week	4W	Discount	Total
1	3010-1453	Heron Skinny Dipper - 200FT Serial #: 13FF2203120ML Out Date: 02/02/24 requested heron skinny dipper 200 ft	30.00	69.00	208.00	50%	15.00

---- Payments ----

*** Total Reflects a \$15.00 Discount ***

Rentals	15.00
Sales	0.00
Delivery/Other	0.00
Damage Waiver	1.20
Sales Tax	0.94
Total	17.14

Amount Billed 17.14

PLEASE REMIT ALL PAYMENTS TO:
166 Riverview Ave, Waltham, MA, 02453

Invoice Date
March 11, 2024

Invoice

173025

To	
Bill To	Ship To
AECOM Technical Services Inc.	US - Waltham, MA - 166 Riverview Ave
PO Box 203970	166 Riverview Ave
Austin TX	Waltham MA
78720-3970	02453
United States	United States
Buyer Tax ID	
None	
Attn/Ref	
Ryan McCarthy	

From		Remit To	Ship From
Invoice From	US ENVIRONMENTAL RENTAL CORP	None	None
166 RIVERVIEW A	166 RIVERVIEW AVENUE		
WALTHAM, MA 02453	United States		
Supplier Tax ID			
None			

Invoice Details

Invoice Number 173025	Invoice Date March 11, 2024	Payment Term NET 60 DAYS	Payment Due Date
Currency USD	Contract Number	Date of Supply March 11, 2024	
Legal Entity AECOM Technical Services, Inc.	Project 60139734-UNITIL ROCHESTER PHYTO		

Item	PO	Description	Supplier Part Number	Qty	Units	Unit Price	Total
1	None	Heron Skinny Dipper - 200FT		1	EACH	16.20 USD	16.20 USD

Taxes

Taxable Amount Charged Per Rate	Total Tax Per Rate
16.20 USD at TAX (%)	0.94 USD

Totals

Taxable Amount	16.20 USD
Shipping	0.00 USD
Amount Excluding Tax	16.20 USD
Total Tax	0.94 USD
Total Payable	17.14 USD



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usenvironmental.com (888) 550-8100

U S Environmental Rental Corp
166 Riverview Ave
Waltham, MA 02453
(781)899-1560

Loc MA1
INVOICE# 173025
Inv. Date 03/11/24
FINAL INVOICE


Rented To:	Delivery Location:
Aecom P.O Box 5604 Glen Allen VA 23058-5604.	Aecom- Waltham Pick-Up 166 Riverview Ave Waltham MA 02453 Walter McKenna / (978) 804-4520 walter.mckenna@aecom.com

Ordered By: Walter McKenna	Ship Date: 03/07/24 Thu	Start Date: 03/08/24 Fri AXG
PO#: 60139734	Ship Method: Customer Pick Up @ 12PM	Through: 03/08/24 Fri MMJ
Account #: Usenv	Bill To: Ryan McCarthy	Project#:

Qty	Item	Description	Day	Week	4W	Discount	Total
1	3010-1451	Heron Skinny Dipper - 200FT Serial #: 13FF202252HB Out Date: 03/08/24 Requested Skinny	30.00	69.00	208.00	50%	15.00

--- Payments ---

*** Total Reflects a \$15.00 Discount ***

Rentals	15.00
Sales	0.00
Delivery/Other	0.00
Damage Waiver	1.20
Sales Tax	0.94
Total	17.14

PLEASE REMIT ALL PAYMENTS TO:
166 Riverview Ave, Waltham, MA, 02453

Amount Billed 17.14

03/12/24 09:47:01 Page 1

January 30, 2024

AECOM Reference
60139734-Inv. 131

Mr. Thomas Murphy
Unitil Services Corp.
6 Liberty Lane W
Hampton, NH 03842-1720

RECEIVED MAR 26 11 44 AM '24

**Invoice for Activities Related to 2023 Phytoremediation Program
Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432)
32 Gonic Road, Rochester, NH
Period Ending March 22, 2024**

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2024 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$4,280.46. The total authorized budget for this project for the 2024 calendar year is \$20,900. As part of the scope of work, AECOM will perform monthly Site inspections for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

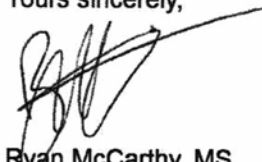
The following section briefly describes work and charges for this invoicing period for each task:

Task 1700 2023 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were labor related the February and March Site inspections/ well gauging activities (limited project management costs are also included). As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$4,280.46.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,



Ryan McCarthy, MS
Project Manager
AECOM
E: ryan.mccarthy@aecom.com



Check Payment to:
AECOM Inc.
An AECOM Company
1178 Payscale Circle
Chicago, IL 60674

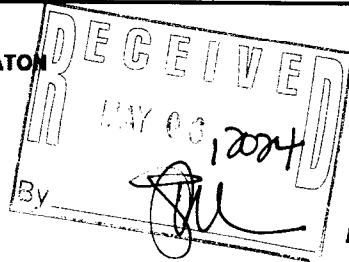
ACH Payment to:
AECOM Inc.
An AECOM Company
Bank of America
Account Number 5800937020
ABA Number 071000039

Wire Transfer Payment to:
AECOM Inc.
An AECOM Company
Bank of America
New York, NY 10001
Account Number 5800937020
ABA Number 026009593
SWIFT CODE BOFAUS3N

250 Apollo Drive, Chelmsford, MA 01824
Tel: 978-905-2100
Fax: 978-905-2101

Federal Tax ID No. 06-0852759

ATTN : MURPHY THOMAS
UNITIL SERVICES CORPORATION
6 LIBERTY LANE W
HAMPTON, NH 03842
United States



Invoice Date: 06-MAY-24
Invoice Number: 2000885412
Agreement Number: EM13046004
Agreement Description:
Payment Term: 30 DAYS

Please reference Invoice Number and Project Number with Remittance

Project Number : 60139734
Bill Through Date : 23-MAR-24 - 26-APR-24

Project Name : UNITIL PHYTOREMEDIATION PROGRAM

Task Number : 1700

Task Name : Cont GW Supp Install

Labor Bill Rate

Employee Name/Title	Title/Expenditure	Date	Hours	Bill Rate	Billed Amt
Howe, Charles S	P17	29-MAR-24	3.00	159.65	478.95
Howe, Charles S	P17	12-APR-24	6.00	159.65	957.90
McCarthy, Ryan S	P18	29-MAR-24	1.00	175.10	175.10
McCarthy, Ryan S	P18	19-APR-24	1.00	175.10	175.10
McKenna, James Walter (Walter)	P08	29-MAR-24	5.50	65.00	357.50
McKenna, James Walter (Walter)	P08	12-APR-24	8.00	65.00	520.00
McKenna, James Walter (Walter)	P08	26-APR-24	0.50	65.00	32.50
Rosengarten, David Warren (David)	P15	29-MAR-24	2.00	128.75	257.50
Rosengarten, David Warren (David)	P15	05-APR-24	1.00	128.75	128.75

ACCOUNTS PAYABLE

Total Labor Bill Rate

28.00

3,083.30

Reimbursable

Expenditure Type	Employee/Vendor Name	Date	Inv Number	Raw Cost	Multiplier	Billed Amt
Field Supplies	US ENVIRONMENTAL RENTAL CORP	15-APR-24	176020	44.85	1.0500	47.10
Lunch	McKenna, James Walter (Walter)	12-APR-24	EXP9511970	9.60	1.0500	10.08
Mileage	McKenna, James Walter (Walter)	25-MAR-24	EXP9488765	100.50	1.0500	105.53
Mileage	McKenna, James Walter (Walter)	12-APR-24	EXP9511970	100.50	1.0500	105.53

Total Reimbursable

255.45

268.24

Task Total : Cont GW Supp Install

3,351.54

Project Total : UNITIL PHYTOREMEDIATION PROGRAM

3,351.54

Invoice Summaries

Total Current Amount : 3,351.54
Retention Amount : 0.00
Pre-Tax Amount : 3,351.54
Tax Amount : 0.00
Total Invoice Amount : 3,351.54

PO 91758 30.40.00.00.187.79.00

Billing Summaries

Billing Summary	Current	Prior	Total	Limit	Remain
Billings	3,351.54	398,214.47	401,566.01	423,778.59	22,212.58
Tax	0.00	0.00	0.00		
Billing Total :	3,351.54	398,214.47	401,566.01		

Outstanding Invoices

Invoice Number

2000871945

PAID

Invoice Date

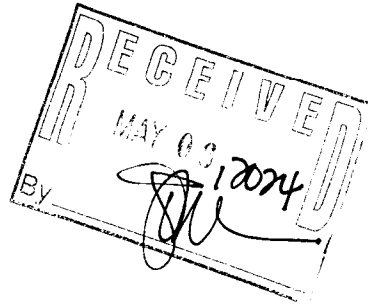
27-MAR-24

Invoice Balance

4,280.46

Outstanding Total :

4,280.46



April 30, 2024

AECOM Reference
60139734-Inv. 135

Mr. Thomas Murphy
Unitil Services Corp.
6 Liberty Lane W
Hampton, NH 03842-1720

**Invoice for Activities Related to 2023 Phytoremediation Program
Petrolane/ Northern Utilities, Inc. Site (DES #198712002, Project #432)
32 Gonic Road, Rochester, NH
Period Ending April 26, 2024**

Dear Mr. Murphy,

Enclosed for your information is an invoice and Progress Report for professional environmental consulting services related to the 2024 Phytoremediation Program. Elements of the Phytoremediation Program include continued groundwater suppression maintenance and evaluation activities at the former manufactured gas plant located at the above referenced property.

Project Budget Information

This invoice is for \$3,351.54. The total authorized budget for this project for the 2024 calendar year is \$20,900. As part of the scope of work, AECOM will perform monthly Site inspections for the calendar year. This project was originally proposed on a time and materials basis to be billed on a monthly basis.

Work Performed

The following section briefly describes work and charges for this invoicing period for each task:

Task 1700 2024 Continued Groundwater Suppression Evaluation Activities

During this invoicing period, costs incurred were labor related to the March and April Site inspections/ well gauging activities (limited project management costs are also included). As detailed in Table 1 and the attached invoice, costs associated with these tasks was \$3,351.54.

If you have any questions regarding this invoice, please do not hesitate to call me at 603-770-4945. It has been a pleasure assisting you with this important project, and we look forward to providing additional service in the future.

Yours sincerely,

Ryan McCarthy, MS
Project Manager
AECOM
E: ryan.mccarthy@aecom.com

Exhibit 1, Schedule 4B

Remedial Action Plan



The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

Docket No. DG 24-102
Hearing Exhibit 3, part 2



Robert R. Scott, Commissioner

EMAIL ONLY

May 13, 2024

Thomas Murphy
Northern Utilities, Inc.
6 Liberty Lane West
Hampton, NH 03842-1720

Subject: Rochester - Petrolane/Northern Utilities, Inc. Site, Route 125
NHDES Site #198712002, Project #432

Groundwater Management Permit Renewal, prepared by AECOM, dated June 21, 2023

Addendum to Permit Renewal Application, prepared by AECOM, dated January 22, 2024

Remedial Action Plan, prepared by AECOM, dated December 2022

*November 2022 Water Monitoring Data Submittal, prepared by AECOM, dated
January 5, 2023*

Dear Thomas Murphy:

Please find enclosed Groundwater Management Permit Number GWP-198712002-R-007 (Permit), as approved by the New Hampshire Department of Environmental Services (NHDES). This Permit is issued for a period of 5 years to monitor the effects of past discharges of coal gasification wastes and is a renewal of your Permit, which expired on July 1, 2023.

Please note that Periodic Summary Reports (PSRs) are due in January 2025 and January 2027. Each PSR must provide all information required by N.H. Code of Administrative Rules Env-Or 607.04(a)(1 – 5). Results from the November 2024 and November 2026 sample collection events shall be included in the PSRs; therefore, separate data submittals are not required. Standard groundwater quality data submittals are due within 45 days of completing the monitoring events in 2025, 2027, and 2028. These data submittals must include a tabulated summary of analytical results, an updated site plan, groundwater elevation data, and laboratory analytical reports.

Please provide all required groundwater quality monitoring reports and submittals to NHDES under the appropriate [Cover Sheet for Reports](#) and completed [Cover Sheet for Groundwater Monitoring Reports](#). The cover sheets must clearly show the NHDES identification number for this site (i.e., NHDES Site #198712002, HAZWASTE Project #432). NHDES prefers for documents to be submitted in an electronic format through the [OneStop database](#).

NHDES notes that Special Condition #12 of the Permit requires each PSR to include updated potential receptor information meeting the requirements of Env-Or 606.07(d).

Phytoremediation

NHDES understands that the intent of the phytoremediation system is to depress the water table through the removal of groundwater from the capillary fringe and phreatic zone by the phreatophytic trees, thereby reducing the off-site flow of contaminated groundwater. An assessment of the continued

efficacy of the phytoremediation system as required by Env-Or 607.04 should therefore include a discussion of estimated groundwater elevation, flow, and perceived lowering of the groundwater table by the trees. However, recent Phytoremediation System Updates included as appendices to PSRs and data transmittals have not included discussions of groundwater elevation and flow and, as noted in our letter dated June 30, 2022, a detailed assessment of the effect of the phytoremediation system on groundwater elevation and flow has not been conducted since 2011. The recent die off (since 2021) of certain phreatophytic trees due to a canker disease also supports the need for an updated assessment of the efficacy of the phytoremediation system.

NHDES previously requested in our June 2022 letter that an updated assessment of effects of the phytoremediation system on site groundwater be included in the Application for Renewal of Groundwater Permit. Considering the proposed supplemental remedial action discussed below and the likelihood that a portion of the phytoremediation system will be removed to implement the remediation, **NHDES is postponing our request for an updated assessment of the phytoremediation system until after completion of the proposed supplemental remedial action.**

Remedial Action Plan (RAP)

NHDES understands that the proposed remedy involves the introduction of cement slurry (grout) into impacted media using an auger or excavator bucket to decrease permeability, increase strength, and create a permanent solidified mass. AECOM's expectation is that dissolved phase contamination would continue to be addressed through monitored natural attenuation. NHDES concurs with the concepts of the proposed remedy; however, does not approve the RAP until additional information is provided.

NHDES offers the following comments based on our review of the information provided in the RAP.

- The RAP did not include a list of federal, state, and local permits required to implement the remedy as required by Env-Or 606.12(e)(8). **NHDES requests the submittal of a RAP Addendum including this information within 60 days of receipt of this letter.**
- Because the proposed remedy includes an on-site containment system, in accordance with Env-Or 606.15(b)(1), design plans and construction specifications prepared pursuant to Env-Or 606.16 must be submitted to NHDES within 90 days of approval of the remedial action (i.e., within 90 days of receipt of NHDES' response to the RAP Addendum). Due to the need for a geotechnical investigation and treatability testing, NHDES acknowledges that submittal of the design plans may not be feasible within 90 days of RAP approval and **requests the inclusion of a schedule within the RAP Addendum proposing a timeline for completion of the design activities and submittal of the design plans.**
- AECOM states in the RAP that monitoring wells MW-02 S/D and MW-03 S/D are located within the treatment area and will be decommissioned. Based on our review of the site plan, NHDES assumes that the monitoring wells to be decommissioned are MW-02 S/D, MW-03S, and MW-403D. The monitoring wells must be decommissioned in accordance with Env-Or 610.04 and We 100-1000 by a New Hampshire-licensed water well contractor.

NHDES concurs with the recommendation to install replacement wells for the four decommissioned wells at downgradient locations from the treatment area and the former well

locations. **Please provide a proposed schedule for the decommissioning and replacement of the monitoring wells with the RAP Addendum.**

- AECOM proposes to perform post-remediation groundwater monitoring on a semi-annual basis for two years after completion of the remedy and then yearly thereafter until plume stability has been achieved. **NHDES requests that the RAP Addendum include the proposed sampling months for the post-remediation groundwater monitoring** (e.g., April and November the first two years and November thereafter). NHDES notes that groundwater monitoring at the site under the Permit will continue until compliance with Ambient Groundwater Quality Standards is achieved in accordance with Env-Or 607.07(d).
- AECOM proposes to use an odor and vapor suppressing foam (Rusmar AC-654 foam or similar), as needed, to assist with controlling fugitive emissions. **NHDES requires that a sample of the foam be analyzed by a laboratory for per- and polyfluoroalkyl substances (PFAS) by EPA Method 1633 and the laboratory report submitted to NHDES prior to use on the site.**

NHDES requests that the Soil Management Plan (SMP) for the site be updated for the proposed remedial action and submitted within 90 days of receipt of this letter.

Should you have any questions, please contact me at NHDES' Waste Management Division.

Sincerely,



Tanya P. Justham, P.G.

Hazardous Waste Remediation Bureau

Tel: (603) 271-6572

Email: Tanya.P.Justham@des.nh.gov

cc: Ryan McCarthy, AECOM
Laura Warren, P.E., AECOM
Joshua Millard, P.G., AECOM
Rochester Health Officer
Amy Renzi, P.G., State Sites Supervisor, NHDES HWRB
James O'Rourke, P.G., Permit Coordinator, NHDES HWRB

Waste
Management
Division

Digitally signed by Waste
Management Division
Date: 2024.05.13 12:21:34
-04'00'



The
NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES
hereby issues
GROUNDWATER MANAGEMENT PERMIT NO. GWP-198712002-R-007
to the permittee
NORTHERN UTILITIES, INC.
to monitor the past discharge of
Coal Gasification Wastes
at
PETROLANE/NORTHERN UTILITIES, INC. SITE
(Route 125)
in ROCHESTER, N.H.
via the groundwater monitoring system comprised of
6 monitoring wells and 2 surface water sampling points
as depicted on the Site Plan entitled
Figure 1 - Groundwater Monitoring Well Location Plan
dated January 3, 2023, prepared by AECOM

TO: NORTHERN UTILITIES, INC.
6 LIBERTY LANE WEST
HAMPTON, NH 03842-1720

Date of Issuance: May 13, 2024
Date of Expiration: May 12, 2029

Pursuant to authority in N.H. RSA 485-C:6-a, the New Hampshire Department of Environmental Services (NHDES), hereby grants this Permit to monitor past discharges to the groundwater at the above-described location for five years, subject to the following conditions:

(continued)

STANDARD MANAGEMENT PERMIT CONDITIONS

1. The permittee shall not violate Ambient Groundwater Quality Standards adopted by NHDES (N.H. Admin. Rules Env-Or 600) in groundwater outside the boundaries of the Groundwater Management Zone, as shown on the referenced site plan and described in Special Condition #11.
2. The permittee shall not cause groundwater degradation that results in a violation of surface water quality standards (N.H. Admin. Rules Env-Wq 1700) in any surface water body.
3. The permittee shall allow any authorized staff of NHDES, or its agent, to enter the property covered by this Permit for the purpose of collecting information, examining records, collecting samples, or undertaking other action associated with this Permit.
4. The permittee shall apply for renewal of this Permit prior to its expiration date but no more than 90 days prior to expiration.
5. This Permit is transferable only upon written request to, and approval of, NHDES. Compliance with the existing Permit shall be established prior to Permit transfer. Transfer requests shall include the name and address of the person to whom the Permit transfer is requested, the signatures of the current and future permittees, and a summary of all monitoring results to date.
6. NHDES reserves the right, under N.H. Admin. Rules Env-Or 600, to require additional hydrogeologic studies and/or remedial measures if NHDES receives information indicating the need for such work.
7. The permittee shall maintain a water quality monitoring program and submit monitoring results to NHDES no later than 45 days after sampling. Samples shall be taken from the monitoring wells and surface water sampling points as shown and labeled on the referenced site plan, and listed in the following table in accordance with the schedule outlined herein:

Monitoring Locations	Sampling Frequency	Parameters
MW-2S, MW-2D, MW-3S, MW-4S and MW-103S	November each year	Field Geochemistry Parameters*, NHDES Waste Management Division Full List of Analytes for Volatile Organic Compounds (VOCs), Polynuclear Aromatic Hydrocarbons (PAHs), and Static Water Levels
MW-102S	November each year	Field Geochemistry Parameters*, VOCs, PAHs, Static Water Level, and Total and Amenable Cyanide

Monitoring Locations	Sampling Frequency	Parameters
SW-1 (Axe Handle Brook, upstream) & SW-2 (Cocheco River downstream of facility)	November each year	Field Geochemistry Parameters*, VOCs, and PAHs

*Temperature, Specific Conductance @25°C, pH, oxidation reduction potential (ORP), dissolved oxygen (DO), and turbidity.

Sampling shall be performed in accordance with the documents listed in Env-Or 610.02 (e). Samples shall be analyzed by a laboratory certified by the U.S. Environmental Protection Agency, or NHDES pursuant to Env-C 300.

Summaries of water quality shall be submitted in January 2025 and January 2027 to NHDES' Waste Management Division using a format acceptable to NHDES. The Periodic Summary Report shall include the information listed in Env-Or 607.04 (a), as applicable.

The Periodic Summary Report shall be prepared and stamped by a professional engineer or professional geologist licensed in the State of New Hampshire.

8. Issuance of this Permit is based on the Groundwater Management Permit Renewal Application dated June 21, 2023, and the historical documents on file for NHDES Site #198712002. NHDES may require additional hydrogeologic studies and/or remedial measures if invalid or inaccurate data are submitted.
9. Within 30 days of discovery of a violation of an Ambient Groundwater Quality Standard at or beyond the Groundwater Management Zone boundary, the permittee shall notify NHDES in writing. Within 60 days of discovery, the permittee shall submit recommendations to correct the violation. NHDES shall approve the recommendations if NHDES determines that they will correct the violation.
10. All monitoring wells at the site shall be properly maintained and secured from unauthorized access or surface water infiltration.

SPECIAL CONDITIONS FOR THIS PERMIT

11. Recorded property within the Groundwater Management Zone (GMZ) shall include the lots as listed and described in the following table and depicted on the referenced site plan:

Tax Map / Lot No.	Property Address	Owner Name and Address	Deed Reference (Book / Page)
137 / 2	Old Dover Road Rochester, NH 03867	Northern Utilities, Inc. 6 Liberty Lane West Hampton, NH 03842	1506 / 473
137 / 3*	32 Gonic Road Rochester, NH 03867	Northern Utilities, Inc. 6 Liberty Lane West Hampton, NH 03842	3069 / 53

*The extent of Tax Map 137, Lot 3 included within the GMZ includes the portion of the parcel located to the south of Axe Handle Brook and to the west of the Cocheco River.

12. Each Annual or Periodic Summary Report shall include updated potential receptor information meeting the requirements of Env-Or 606.07(d). Potential receptor information shall be presented on a tax map with an accompanying table showing updated property ownership and use information.
13. The permittee shall update the ownership information required by Env-Or 607.03(a)(20) for all properties within the Groundwater Management Zone prior to renewal of the Permit, or upon a recommendation for site closure.



Jeffrey M. Marts, P.G., Administrator
Hazardous Waste Remediation Bureau
Waste Management Division

Any person aggrieved by any terms or conditions of this Permit may appeal to the N.H. Waste Management Council ("Council") by filing an appeal that meets the requirements specified in RSA 21-O:14 and the rules adopted by the Council, Env-WMC 200. The appeal must be filed **directly with the Council within 30 days** of the date of this decision and must set forth fully **every ground** upon which it is claimed that the decision complained of is unlawful or unreasonable. Only those grounds set forth in the notice of appeal can be considered by the Council.

Information about the Council, including a link to the Council's rules, is available at <https://nhec.nh.gov/>. Copies of the rules also are available from NHDES' Public Information Center at (603) 271-2975.

Exhibit 2, Schedule 4B
Remedial Action Plan Addendum



**NHDES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, NH 03302-0095**



**REMEDIAL ACTION PLAN Addendum
Petrolane/Northern Utilities, Inc. Site
Route 125
Rochester, NH 03867**

**NHDES Site #: 198712002
Project Type: Hazardous Waste Project
Project Number: 0432**

Prepared For:
Unitil Service Corp.
6 Liberty Lane W
Hampton, NH 03842-1720
Phone Number (603) 379-3829
RP Contact Name: Thomas Murphy
RP Contact Email: murphyt@unitil.com

Prepared By:
AECOM
250 Apollo Drive.
Chelmsford, MA 01824
Phone Number: (978) 905-2100
Contact Name: Ryan McCarthy
Contact Email: ryan.mccarthy@aecom.com



Date of Report: July 2024



Remedial Action Plan Addendum

Petrolane/Northern Utilities, Inc. Site
Route 125
Rochester, NH 03867

Unitil Service Corp.

Project number: 60139732

July 2024

Quality information

Prepared by



Mark McCabe

Reviewed by



Josh Millard, PG

Approved by



Ryan McCarthy

Prepared for:

Unitil Service Corp.
Hampton, NH

Prepared by:

AECOM
250 Apollo Drive
Chelmsford, MA, 01824
USA
aecom.com

Table of Contents

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Appendix

Appendix A Rusmar Foam Analytical Report

Figures

Figure 2-1 Proposed Design and Implementation Schedule

1. Introduction

In June 2022, NHDES directed the Unutil Service Corp. (Unutil) to develop a Remedial Action Plan (RAP) to address the residual contamination at the former Rochester manufactured gas plant (MGP) site. The action is intended to further decrease the dissolved-phase concentrations of MGP constituents of interest.

Unutil submitted a RAP in December 2022 that proposed the following remedy:

- Removal of 15,400 cy of clean overburden in the vadose zone for temporary stockpiling and reuse.
- Solidification of 19,900 cy of soil containing MGP residuals that are the source of groundwater impacts.
- Backfilling of the excavation and grading of the treatment area re-using the 15,400 cy of clean overburden.
- Natural Attenuation of dissolved- phase impacts.
- Continued implementation of the Activity and Use Restriction (AUR) to address potential human health risk associated with exposure to residual impacts in soil and groundwater.

Solidification involves the introduction of cement slurry (grout) into impacted media using an auger to decrease soil permeability and increase its strength. Treatment would create a solidified mass that would eliminate the potential for MGP residuals to migrate from the site and “isolate” the areas of contamination from groundwater flow. Solidification would control the ability of the source material to adversely affect groundwater quality.

On May 13, 2024, NHDES provided comments on the RAP that requested the submittal of a RAP Addendum to provide information on the following:

- A discussion of the federal, state, and local permits required for the implementation of the remedy.
- The proposed schedule for the completion of the remedial design and submittal of the design plans for review by NHDES.
- A schedule for the decommissioning and replacement of monitoring wells located within the proposed remediation area.
- Information on the proposed sampling months for the post-remediation monitoring program.

The supplemental information on these issues is presented in Section 2 of the Addendum. Although not requested for the Addendum, the comment letter required the analysis of odor suppressant foam prior to use during the remediation. Preliminary information from the manufacturer of the foam is presented in Appendix A of this document.

Note that Unutil is updating the Soil Management Plan for the remediation and will submit it to NHDES by August 13, 2024 to meet the notification requirements of the current Activity and Use Restriction.

2. Supplemental Information

2.1 Permitting Requirements

The federal Underground Injection Control (UIC) program (40 CFR Part 144) broadly classifies the auger injection columns for the solidification process as Class V injection wells. The program requires that the process be regulated to ensure that drinking water sources are not endangered. Authority for the UIC program has been delegated to several states, including New Hampshire.

The NHDES regulates groundwater discharge under the New Hampshire Code of Administrative Rules Part Env-Wq 402: Groundwater Discharge Permits and Registration. A review of ENV-Wq 402.09(c) states that a groundwater discharge permit is not required in instances where “the discharge is associated with a remedial action approved pursuant to ENV-Or 606 provided a groundwater management permit has been issued for the site”. These conditions will apply to the proposed remediation and a separate discharge permit will not be required.

A review of the General Ordinances for the City of Rochester did not identify any permits that are applicable for the remediation.

2.2 Proposed Project Schedule

The proposed schedules for the design and implementation phases of the project are provided in Figure 2-1. As illustrated, the design phase will be comprised of the following activities:

- Pre-Design Investigation (PDI) – a site investigation will be conducted during the third quarter of 2024. Soil borings will be installed to collect samples for treatability testing, obtain geophysical information for site soil, better delineate impacts in the secondary source material areas, i.e., areas adjacent to MW-002 and MW-003, and develop a topographic survey. Additionally, the monitoring wells in these secondary source areas will be decommissioned in accordance with Env-Or 610.04 and relocated down gradient of the proposed treatment areas.
- Treatability Testing – representative samples of impacted media will be collected and sent to a commercial laboratory for testing to identify appropriate ad-mixes for the solidification process.
- Development of Design Specifications - the results from the PDI and treatability testing will be used to develop a set of technical and bid specifications. Until anticipates that the design will be submitted to NHDES for review by the end of 2024.

Contractor procurement and subsequent Remedial activities will be initiated upon approval of the design by NHDES. For the purpose of scheduling, Unutil has assumed that mobilization could occur late in the third quarter of 2025. It is expected that the field work can be completed in 6-7 months.

2.3 Post-Remediation Monitoring

Unutil is proposing to conduct post-remediation monitoring on a semi-Annual basis (November and April) for a period of two years and then on an annual basis (November) until plume stability is achieved.

Figures

**Figure 2-1
Proposed Design and Implementation Schedule
Rochester-Petrolane/Northern Utilities, Inc. Site, Rte 125**

Activity	Duration	2024						2025					2026			
		Month						Month					Month			
		July	Aug.	Sept.	Oct.	Nov.	Dec.	January - August	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Pre-Design Investigation Work Plan	1 month															
Conduct Pre-Design Investigation	1 month															
Treatability Testing	2.5 months							NHDES Design Review								
Design Specifications ¹	3 months															
Mobilization ²	0.5 months							Unitil Procurement and Contracting								
Stabilization of High Pressure Gas Line	0.5 months															
Solidification of Principal Source Material ³	4 months															
Solidification of Secondary Source Material	0.5 months															
Site Restoration	0.5 months															
Demobilization	0.5 months															
Post-Remediation Monitoring ⁴	5 years															

1. The design process will be initiated upon NHDES approval of the RAP
2. Mobilization will occur after NHDES approval of the remedial design (assumed by June 2025).
3. Assumes that the removal of clean vadose soil, management of spoils and backfilling will happen in concert with the treatment activities as the solidification equipment moves through the source area.
4. Semi-annual sampling for 2-years (November/April) and annual sampling (November) until plume stability is documented (RAP assumes 3-years).

Appendix A RUSMAR Foam Analytical Report



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

WC Environmental, LLC
1085C Andrew Drive
West Chester PA 19830

Report Date: July 12, 2018 15:25

Project: Rusmar Products

Account #: 12242
Group Number: 1960782
PO Number: 06-26-18
State of Sample Origin: PA

To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/> . Historical copies may be requested through your project manager.

Electronic Copy To WC Environmental, LLC

Attn: Russ Phifer

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252



SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
AC 904B Grab Liquid	06/24/2018 09:00	9683519
AC 645 Grab Liquid	06/24/2018 09:00	9683520

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.



Lancaster Laboratories
Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: AC 904B Grab Liquid
Aqueous Based Foam
Rusmar Products

WC Environmental, LLC
ELLE Sample #: G5 9683519
ELLE Group #: 1960782
Matrix: Liquid

Project Name: Rusmar Products

Submission Date/Time: 06/28/2018 17:16
Collection Date/Time: 06/24/2018 09:00

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Rev. 1.1 modified			ng/l	ng/l	
14343	Perfluorooctanoic acid	335-67-1	N.D.	2,000	1
14343	Perfluorononanoic acid	375-95-1	N.D.	2,000	1
14343	Perfluorodecanoic acid	335-76-2	N.D.	2,000	1
14343	Perfluoroundecanoic acid	2058-94-8	N.D.	2,000	1
14343	Perfluorododecanoic acid	307-55-1	N.D.	2,000	1
14343	Perfluorotridecanoic acid	72629-94-8	N.D.	2,000	1
14343	Perfluorotetradecanoic acid	376-06-7	N.D.	2,000	1
14343	Perfluorohexanoic acid	307-24-4	N.D.	2,000	1
14343	Perfluoroheptanoic acid	375-85-9	N.D.	2,000	1
14343	Perfluorobutanesulfonate	375-73-5	N.D.	1,700	1
14343	Perfluorohexanesulfonate	355-46-4	N.D.	1,900	1
14343	Perfluoro-octanesulfonate	1763-23-1	N.D.	1,900	1
14343	8:2 fluorotelomersulfonate ¹	39108-34-4	N.D.	13,000	1
14343	Perfluorobutanoic Acid ¹	375-22-4	N.D.	2,000	1
14343	Perfluoropentanoic Acid ¹	2706-90-3	N.D.	2,000	1
14343	NETFOSAA ¹	2991-50-6	N.D.	2,000	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	NMeFOSAA ¹	2355-31-9	N.D.	2,000	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14343	4:2 fluorotelomersulfonate ¹	757124-72-4	N.D.	5,800	1
14343	Perfluoropentanesulfonate ¹	2706-91-4	N.D.	1,900	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14343	6:2 fluorotelomersulfonate ¹	27619-97-2	N.D.	13,000	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluoroheptanesulfonate ¹	375-92-8	N.D.	1,900	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluorononanesulfonate ¹	474511-07-4	N.D.	1,900	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluorodecanesulfonate ¹	335-77-3	N.D.	1,900	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	10:2-fluorotelomersulfonate ¹	120226-60-0	N.D.	13,000	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluorododecanesulfonate ¹	79780-39-5	N.D.	1,900	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	2,000	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluorooctadecanoic acid ¹	16517-11-6	N.D.	2,000	1
14343	NMePFOSAE ¹	24448-09-7	N.D.	2,000	1
	NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol				
14343	NMePFOSA ¹	31506-32-8	N.D.	2,000	1
	NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide				
14343	NETPFOSAE ¹	1691-99-2	N.D.	2,000	1
	NETPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol				



Lancaster Laboratories
Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: AC 904B Grab Liquid
Aqueous Based Foam
Rusmar Products

WC Environmental, LLC
ELLE Sample #: G5 9683519
ELLE Group #: 1960782
Matrix: Liquid

Project Name: Rusmar Products

Submission Date/Time: 06/28/2018 17:16
Collection Date/Time: 06/24/2018 09:00

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Rev. 1.1 modified			ng/l	ng/l	
14343	NEtPFOSA ¹ NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide	4151-50-2	N.D.	2,000	1
Reporting limits were raised due to interference from the sample matrix.					
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.					

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/19.

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14343	PFAS on AFFF Samples	EPA 537 Rev. 1.1 modified	1	18190011	07/09/2018 17:23	Jason W Knight	1



Lancaster Laboratories
Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: AC 645 Grab Liquid
Aqueous Based Foam
Rusmar Products

WC Environmental, LLC
ELLE Sample #: G5 9683520
ELLE Group #: 1960782
Matrix: Liquid

Project Name: Rusmar Products

Submission Date/Time: 06/28/2018 17:16
Collection Date/Time: 06/24/2018 09:00

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Rev. 1.1 modified			ng/l	ng/l	
14343	Perfluorooctanoic acid	335-67-1	N.D.	2,000	1
14343	Perfluorononanoic acid	375-95-1	N.D.	2,000	1
14343	Perfluorodecanoic acid	335-76-2	N.D.	2,000	1
14343	Perfluoroundecanoic acid	2058-94-8	N.D.	2,000	1
14343	Perfluorododecanoic acid	307-55-1	N.D.	2,000	1
14343	Perfluorotridecanoic acid	72629-94-8	N.D.	2,000	1
14343	Perfluorotetradecanoic acid	376-06-7	N.D.	2,000	1
14343	Perfluorohexanoic acid	307-24-4	N.D.	2,000	1
14343	Perfluoroheptanoic acid	375-85-9	N.D.	2,000	1
14343	Perfluorobutanesulfonate	375-73-5	N.D.	1,700	1
14343	Perfluorohexanesulfonate	355-46-4	N.D.	1,900	1
14343	Perfluoro-octanesulfonate	1763-23-1	N.D.	1,900	1
14343	8:2 fluorotelomersulfonate ¹	39108-34-4	N.D.	13,000	1
14343	Perfluorobutanoic Acid ¹	375-22-4	N.D.	2,000	1
14343	Perfluoropentanoic Acid ¹	2706-90-3	N.D.	2,000	1
14343	NETFOSAA ¹	2991-50-6	N.D.	2,000	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	NMeFOSAA ¹	2355-31-9	N.D.	2,000	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14343	4:2 fluorotelomersulfonate ¹	757124-72-4	N.D.	5,800	1
14343	Perfluoropentanesulfonate ¹	2706-91-4	N.D.	1,900	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14343	6:2 fluorotelomersulfonate ¹	27619-97-2	N.D.	13,000	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluoroheptanesulfonate ¹	375-92-8	N.D.	1,900	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluorononanesulfonate ¹	474511-07-4	N.D.	1,900	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluorodecanesulfonate ¹	335-77-3	N.D.	1,900	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	10:2-fluorotelomersulfonate ¹	120226-60-0	N.D.	13,000	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluorododecanesulfonate ¹	79780-39-5	N.D.	1,900	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	2,000	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14343	Perfluorooctadecanoic acid ¹	16517-11-6	N.D.	2,000	1
14343	NMePFOSAE ¹	24448-09-7	N.D.	2,000	1
	NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol				
14343	NMePFOSA ¹	31506-32-8	N.D.	2,000	1
	NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide				
14343	NETPFOSAE ¹	1691-99-2	N.D.	2,000	1
	NETPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol				



Lancaster Laboratories
Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: AC 645 Grab Liquid
Aqueous Based Foam
Rusmar Products

WC Environmental, LLC
ELLE Sample #: G5 9683520
ELLE Group #: 1960782
Matrix: Liquid

Project Name: Rusmar Products

Submission Date/Time: 06/28/2018 17:16
Collection Date/Time: 06/24/2018 09:00

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Rev. 1.1 modified			ng/l	ng/l	
14343	NEtPFOSA ¹ NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide	4151-50-2	N.D.	2,000	1
Reporting limits were raised due to interference from the sample matrix.					
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.					
The sample internal injection standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.					

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/19.

¹ = This analyte was not on the laboratory's PA DEP Scope of Accreditation at the time of analysis.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14343	PFAS on AFFF Samples	EPA 537 Rev. 1.1 modified	1	18190011	07/09/2018 17:37	Jason W Knight	1



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: WC Environmental, LLC
Reported: 07/12/2018 15:25

Group Number: 1960782

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL
	ng/l	ng/l
Batch number: 18190011	Sample number(s): 9683519-9683520	
Perfluorooctanoic acid	N.D.	200
Perfluorononanoic acid	N.D.	200
Perfluorodecanoic acid	N.D.	200
Perfluoroundecanoic acid	N.D.	200
Perfluorododecanoic acid	N.D.	200
Perfluorotridecanoic acid	N.D.	200
Perfluorotetradecanoic acid	N.D.	200
Perfluorohexanoic acid	N.D.	200
Perfluoroheptanoic acid	N.D.	200
Perfluorobutanesulfonate	N.D.	170
Perfluorohexanesulfonate	N.D.	190
Perfluoro-octanesulfonate	N.D.	190
8:2 fluorotelomersulfonate	N.D.	1,300
Perfluorobutanoic Acid	N.D.	200
Perfluoropentanoic Acid	N.D.	200
NETFOSAA	N.D.	200
NMeFOSAA	N.D.	200
4:2 fluorotelomersulfonate	N.D.	580
Perfluoropentanesulfonate	N.D.	190
6:2 fluorotelomersulfonate	N.D.	1,300
Perfluoroheptanesulfonate	N.D.	190
Perfluorononanesulfonate	N.D.	190
Perfluorodecanesulfonate	N.D.	190
10:2-fluorotelomersulfonate	N.D.	1,300
Perfluorododecanesulfonate	N.D.	190
Perfluorohexadecanoic acid	N.D.	200
Perfluorooctadecanoic acid	N.D.	200
NMePFOSAE	N.D.	200
NMePFOSA	N.D.	200
NETPFOSAE	N.D.	200
NETPFOSA	N.D.	200

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
---------------	-----------------	----------	------------------	-----------	----------	-----------	-----------------	-----	---------

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: WC Environmental, LLC
Reported: 07/12/2018 15:25

Group Number: 1960782

LCS/LCSD

Analysis Name	LCS Spike Added ng/l	LCS Conc ng/l	LCSD Spike Added ng/l	LCSD Conc ng/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 18190011	Sample number(s): 9683519-9683520								
Perfluorooctanoic acid	1360	1476.65	1360	1497.87	109	110	70-130	1	30
Perfluorononanoic acid	1360	1534.95	1360	1489.97	113	110	70-130	3	30
Perfluorodecanoic acid	1360	1422.68	1360	1444.13	105	106	70-130	1	30
Perfluoroundecanoic acid	1360	1290.16	1360	1329.24	95	98	70-130	3	30
Perfluorododecanoic acid	1360	1457.39	1360	1551.48	107	114	70-130	6	30
Perfluorotridecanoic acid	1360	1466.82	1360	1399.06	108	103	70-130	5	30
Perfluorotetradecanoic acid	1360	1440.75	1360	1427.75	106	105	70-130	1	30
Perfluorohexanoic acid	1360	1551.68	1360	1540.72	114	113	70-130	1	30
Perfluoroheptanoic acid	1360	1562.99	1360	1563.05	115	115	70-130	0	30
Perfluorobutanesulfonate	1203	1235.18	1203	1272.53	103	106	70-130	3	30
Perfluorohexanesulfonate	1286	1285.7	1286	1188.02	100	92	70-130	8	30
Perfluoro-octanesulfonate	1300	1286.86	1300	1229.49	99	95	70-130	5	30
8:2 fluorotelomersulfonate	3832	4706.09	3832	4142.04	123	108	70-130	13	30
Perfluorobutanoic Acid	1360	1604.51	1360	1601.42	118	118	70-130	0	30
Perfluoropentanoic Acid	1360	1566.83	1360	1584.63	115	117	70-130	1	30
NEtFOSAA	1360	1601.53	1360	1591.96	118	117	70-130	1	30
NMeFOSAA	1360	1540.79	1360	1593.63	113	117	70-130	3	30
4:2 fluorotelomersulfonate	3736	4082.01	3736	4031.64	109	108	70-130	1	30
Perfluoropentanesulfonate	1276	1321.46	1276	1315.43	104	103	70-130	0	30
6:2 fluorotelomersulfonate	3792	3723.26	3792	3436.11	98	91	70-130	8	30
Perfluoroheptanesulfonate	1294	1195.11	1294	1181.76	92	91	70-130	1	30
Perfluorononanesulfonate	1306	1344.72	1306	1210.63	103	93	70-130	10	30
Perfluorodecanesulfonate	1310	1313.96	1310	1218.14	100	93	70-130	8	30
10:2-fluorotelomersulfonate	3856	4197.2	3856	4077.98	109	106	70-130	3	30
Perfluorododecanesulfonate	1316	1190.25	1316	1234.1	90	94	70-130	4	30
Perfluorohexadecanoic acid	1360	1463.59	1360	1476.35	108	109	70-130	1	30
Perfluorooctadecanoic acid	1360	1503.84	1360	1521.59	111	112	70-130	1	30
NMePFOSAE	1360	1427.61	1360	1652.95	105	122	70-130	15	30
NMePFOSA	1360	1623.94	1360	1703.48	119	125	70-130	5	30
NEtPFOSAE	1360	1582.42	1360	1461.25	116	107	70-130	8	30
NEtPFOSA	1360	1641.53	1360	1715.42	121	126	70-130	4	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: WC Environmental, LLC
Reported: 07/12/2018 15:25

Group Number: 1960782

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PFAS on AFFF Samples

Batch number: 18190011

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C2-4:2-FTS	13C5-PFHxA	13C3-PFHxS
9683519	97	87	67*	175*	113	115
9683520	92	68*	70	339*	173*	154*
Blank	80	81	75	79	86	81
LCS	89	88	89	93	95	95
LCSD	89	87	88	90	95	89
Limits:	70-130	70-130	70-130	70-130	70-130	70-130
	13C4-PFHpA	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA
9683519	128	111	79	86	113	75
9683520	115	143*	79	88	92	72
Blank	79	84	87	81	82	86
LCS	97	95	97	89	83	98
LCSD	89	100	96	93	88	96
Limits:	70-130	70-130	70-130	70-130	70-130	70-130
	13C2-8:2-FTS	d3-NMeFOSAA	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFDoDA	13C2-PFTeDA
9683519	104	77	151*	174*	170*	214*
9683520	182*	454*	626*	528*	71	407*
Blank	74	80	79	84	83	95
LCS	85	87	86	90	92	98
LCSD	96	85	93	95	98	103
Limits:	70-130	70-130	70-130	70-130	70-130	70-130
	d7-NMePFOSAE	d3-NMePFOSA	d9-NEIPFOSAE	d5-NEIPFOSA		
9683519	130	69*	131*	140*		
9683520	72	33*	72	58*		
Blank	68*	74	72	73		
LCS	75	72	78	83		
LCSD	79	85	83	90		
Limits:	70-130	70-130	70-130	70-130		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 12242 Group # 1960782 Sample # 9683519-20

Client: <u>WC Environmental LLC</u>		Matrix		Analyses Requested										For Lab Use Only						
Project Nam <u>Russmar Products</u>		Site ID #:		Preservation and Filtration Codes										SF #: _____						
Project Manager: <u>Russ Phifer</u>		P.O. #: <u>06-26-18</u>												SCR #: _____						
Sampler: <u>Russ Phifer</u>		PWSID #:												Preservation Codes						
Phone #: <u>610-322-0657</u>		Quote #:												H = HCl T = Thiosulfate						
State where samples were collected: <u>PA</u>		For Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												N = HNO ₃ B = NaOH						
														S = H ₂ SO ₄ P = H ₃ PO ₄						
														F = Field Filtered O = Other						
Sample Identification		Collection		Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/>	Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/>	Water <input type="checkbox"/> NPDES <input type="checkbox"/>	Other: <u>Aqueous based foam</u>	Total # of Containers											Remarks	
		Date	Time																	
<u>AC 904B</u>		<u>6-24-18</u>	<u>9A</u>					<u>2</u>	<u>PFAs</u>											
<u>AC 645</u>		<u>6-24-18</u>	<u>9A</u>					<u>2</u>												
Turnaround Time Requested (TAT) (please check): Standard <input type="checkbox"/> Rush <input type="checkbox"/>				Relinquished by:		Date	Time	Received by:		Date	Time									
(Rush TAT is subject to laboratory approval and surcharges.)				<u>[Signature]</u>		<u>6-28</u>	<u>1446</u>	<u>[Signature]</u>		<u>6-28-18</u>	<u>1446</u>									
Date results are needed: <u>1 week?</u>				Relinquished by:		Date	Time	Received by:		Date	Time									
Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>				<u>[Signature]</u>		<u>6-28-18</u>	<u>1716</u>													
E-mail Address: <u>rphifer@wcentvironmental.com</u>				Relinquished by:		Date	Time	Received by:		Date	Time									
Phone: _____																				
Data Package Options (please check if required)				Relinquished by:		Date	Time	Received by:		Date	Time									
Type I (Validation/non-CLP) <input type="checkbox"/> MA MCP <input type="checkbox"/>																				
Type III (Reduced non-CLP) <input type="checkbox"/> CT RCP <input type="checkbox"/>				Relinquished by:		Date	Time	Received by:		Date	Time									
Type VI (Raw Data Only) <input type="checkbox"/> TX TRRP-13 <input type="checkbox"/>										<u>6-28-18</u>	<u>1716</u>									
NJ DKQP <input type="checkbox"/> NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B:				Relinquished by Commercial Carrier:																
EDD Required? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, format: _____				UPS _____ FedEx _____ Other _____						Temperature upon receipt <u>N/A</u> °C										



Lancaster Laboratories
Environmental

Sample Administration Receipt Documentation Log

Docket No. DG 24-102
Hearing Exhibit 3, part 2
Doc Log ID: 220423



Group Number(s): 1960782

Client: WC Environmental

Delivery and Receipt Information

Delivery Method:	<u>ELLE Courier</u>	Arrival Timestamp:	<u>06/28/2018 17:16</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>PA</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	No	VOA Vial Headspace \geq 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Cory Jeremiah (10469) at 18:52 on 06/28/2018

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
C	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	µg	microgram(s)
lb.	pound(s)	µL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report
B	Detection in the Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q2	MS/MSD Low
Q3	MS/MSD High
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Exhibit 3, Schedule 4B

Soil Management Plan



DES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, NH 03302-0095



Soil Management Plan Submittal
Pre-Design Investigation
Proposed Remedy In-Situ Solidification
Petrolane/Northern Utilities, Inc. Site
Route 125
Rochester, NH 03867

NHDES Site #: 198712002
Project Type: Hazardous Waste Project
Project Number: 0432

Prepared For:
Unitil Service Corp.
6 Liberty Lane W
Hampton, NH 03842-1720
Phone Number (603) 379-3829
RP Contact Name: Thomas Murphy
RP Contact Email: murphyt@unitil.com

Cleary,
Maryanne

Digitally signed by
Cleary, Maryanne

Date: 2024.07.31
15:04:51 -04'00'

Prepared By:
AECOM

250 Apollo Drive.

Chelmsford, MA 01824

Phone Number: (978) 905-2100

Contact Name: Ryan McCarthy

Contact Email: ryan.mccarthy@aecom.com



Date of Report: July 25, 2024

Soil Management Plan Pre-Design Investigation and Proposed In-Situ Solidification Remedy

Petrolane/Northern Utilities, Inc. Site
Route 125
Rochester, NH 03867

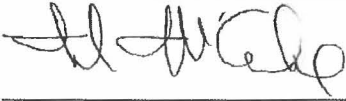
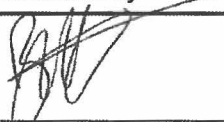

Unitil Service Corp.

Project number: 60139732

July 2024

AECOM

Quality information

Prepared by	Reviewed by	Approved by
		
Mark McCabe	Ryan McCarthy Project Manager	Laura Warren, P.E. Project Engineer

Prepared for:

Unitil Service Corp.
Hampton, NH

Prepared by:

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AECOM

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Figures

- Figure 1-1 – Site Location
- Figure 2-1 – Investigation Locations
- Figure 2-2 – Solidification Plan

AECOM

1. Introduction

The Petrolane Site (Site) is located at the intersection of Route 125 and the Spaulding Turnpike in Rochester, New Hampshire. The Site is bounded by Axe Handle Brook to the north, the Cocheco River to the east, and roadways on the west and south (Figure 1-1). The manufactured gas plant (MGP) facility operated in the western portion of the Site from 1903 through 1957.

A Source Removal Action was conducted at the Site during the period of September 1999 to December 1999. The source removal activities focused on those areas of the Site where there was evidence of MGP source material within the practical depth of excavation, i.e., two feet below the depth of the water table. An additional source removal action was conducted in the Former Tar Well Area during the period of January to April 2004 to address source material that had previously been inaccessible due to the presence of infrastructure for the propane distribution system. Unutil initiated a post-remediation groundwater monitoring program that has demonstrated that the groundwater plume is stable and constituent concentrations that exceed the New Hampshire Ambient Groundwater Quality Standards are contained on-site. The Notice of Activity and Use Restriction (AUR) on the property ensures that there is no risk from current site use.

At the direction of the New Hampshire Department of Environmental Services (NHDES), Unutil developed a Remedial Action Plan (RAP) to address the residual contamination to further decrease the dissolved-phase concentrations of MGP constituents of interest. In-Situ Solidification ((ISS) was identified as the most effective and implementable remedy. Solidification provides a permanent remedy and is routinely used at former MGP sites. The remedy provides the ability to effectively address impacts in the saturated zone and incorporates the continued use of the AUR.

The AUR requires prior notification to NHDES of activities that have the potential to disturb soil. The notification is required to provide information to ensure the following:

- that workers will be adequately protected in accordance with applicable health and safety regulations; and
- that disturbed media will be managed in accordance with applicable federal and NHDES standards.

This Soil Management Plan is intended to provide the required notice to NHDES and document that the activities comply with the requirements of the AUR. It is organized as follows: the scope of proposed site activities is summarized in Section 2; the proposed health and safety protocols are detailed in Section 3; information on the nature and quantities of waste that will be generated during the Pre-Design Investigation (PDI) and remedy is provided in Section 4; the contents of the reports documenting site activities are discussed in Section 5 and references used in the preparation of this document are presented in Section 6.

AECOM

2. Site Activities

The following discussion provides the details of the activities associated with the implementation of the remedy that will disturb soil at the Site. They include the Pre-Design Investigation and the solidification of impacted soil.

2.1 Pre-Design Investigation

A PDI will be conducted to collect additional Site data in support of the preparation of the Design and Technical Specifications for the remedy. Field investigation activities will include the following:

- Installation of three (3) soil borings in the principal and secondary source areas for the collection of geotechnical and treatability samples.
- Installation of five (5) soil borings to delineate MGP source material in the areas adjacent to MW-002 and MW-003.
- Decommissioning of MW-002 S/D, MW-003 S and MW-403 D.
- Installation of MW-501 S/D and MW-502 S/D.

These locations are illustrated on Figure 2-1. The field work will be conducted in the third quarter of 2024 and is estimated to be completed in eight (8) days of 8-hr duration. Details of the proposed investigation activities are provided below.

Sample Collection Borings

Three (3) borings (PDI 01, PDI 02 and PDI 03) will be installed within the primary and secondary source areas. The borings will be installed from the ground surface to a depth of up to 30 ft bgs. If refusal occurs, the depth and drilling information (e.g. hard refusal) will be noted. The boring will be offset approximately 5 feet and installed as detailed below.

The soil borings will be advanced using hollow-stem auger (HSA) drilling. Two-inch diameter by 24-inch long split-spoon samples (standard penetration tests) will be collected continuously at all borings to the boring termination depth in accordance with ASTM Method D1586. AECOM staff will classify soil from the split spoons and will collect the following samples:

- Geotechnical Samples – collected from shallow depths with light/no impact (generally 5-10 ft bgs) in each boring.
- Treatability Samples – collected from deeper depths with saturated impacts (generally 10 -30 ft bgs) in each boring. The samples will be composited into three 5-gallon containers for use in bench-scale treatability testing to identify an admixture appropriate to achieve a hydraulic conductivity of less than 10^{-6} cm/sec and an unconfined compressive strength (UCS) of > 50 pounds per square inch (PSI) in the treated material.

The borings will be tremie grouted to grade using a Portland cement/ bentonite slurry mixture.

Delineation Borings

Five (5) borings (PDI 04, PDI 05, PDI 06, PDI 07 and PDI 08) will be installed downgradient from existing wells (MW-002 S/D, MW-003 S, MW-403 D) in the secondary source areas to define the limits of MGP impact. The borings will be installed from the ground surface to a depth of up to 35 ft bgs. If a utility is

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identified or refusal occurs, the depth and drilling information (e.g. hard refusal) will be noted. The boring will be offset approximately 5 feet and installed as detailed below.

The work will require the use of a track mounted DPT rig, i.e. a Geoprobe. Split-spoon samples will be collected continuously at all borings to the boring termination depth in accordance with ASTM Method D1586. AECOM staff will classify soil from the split spoons and identify impacts visually. Note that step out borings may be required if impacts are observed.

Well Decommissioning

The monitoring wells in the secondary source areas (MW 002S, MW 002D, MW 003S and MW403D) will be decommissioned in accordance with Env-We 604. Borehole depths are believed to range from 20 ft bgs (shallow wells) to up to 41 ft bgs (deep wells). The well casings and screens will be removed from the ground and the bore holes will be sealed in accordance with the regulation. The contractor will provide AECOM with the documentation required to file the required Abandoned Well Registration Forms with the NH Water Well Board within 30 days after the wells have been decommissioned.

Monitoring Well Installation

Two shallow and deep monitoring well pairs (MW 501S/D and MW502S/D) will be installed downgradient of the secondary source areas to replace the decommissioned wells. At these well locations, shallow wells will be screened from 10 to 20 feet bgs and deeper wells will be screened from 20 to 30 feet bgs. Each well will be constructed of 2-inch diameter, 10-slot PVC well screens and 2-inch diameter flush-threaded PVC riser. Appropriated sized gravel filter packs will be placed around the well screen and the riser from the base of the well screen to two feet above the top of the well screen. The annular space above the filter pack will be filled with a bentonite seal (2 feet thick). The annular space above the bentonite seal will be filled with a grout mixture utilizing a tremie pipe to fill the annulus from the bentonite seal to one foot below the TOC. If settling of the grout mixture occurs, the annulus will be filled again with the grout mixture to 1 foot below TOC. Each monitoring well will be completed with a 4-inch diameter steel protective standpipe and lockable cover in a 2 x 2- foot concrete pad.

2.2 Remedy Implementation

Solidification involves the use of an auger to introduce cement slurry (grout) into impacted media to decrease its permeability and increase strength. Treatment will create a solidified mass that will eliminate the potential for MGP residuals to migrate from the Site and "isolate" the areas of contamination from groundwater flow. Solidification will control the ability of the source material to adversely affect groundwater quality. The remedy will include the following activities:

- Removal of 15,400 cy of clean overburden in the vadose zone for temporary stockpiling and reuse.
- Solidification of 19,900 cy of soil.
- Backfilling of the excavation and grading of the treatment area using 15,400 cy of the clean overburden.
- Continued implementation of the AUR to address potential human health risk associated with exposure to residual impacts in soil and groundwater.

The treatment areas are illustrated in Figure 2-2.

2.2.1 Description of Activities

Site preparation activities will include installation of erosion controls, delineation of soil stockpile/loading areas, and construction of decontamination pads/facilities.

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The solidification of source material will occur in three phases: the stabilization of areas adjacent to the active gas line, temporary removal/stockpiling of vadose zone soil and solidification of the source material.

The solidification plan includes a 10-foot offset from the active gas line. The soil around the line will be supported by the installation of two rows of overlapping grout columns from ground surface to a depth of 20 ft. bgs. The columns will be installed using a 6-8 ft diameter auger. After the columns have cured, vadose zone soil in the primary source area will be removed to a depth of 12 ft bgs, i.e., 2 feet above the water table, to provide a working platform for the solidification of the underlying source material.

Soil in the principal source area (14,300 cy) will then be solidified, with samples analyzed to demonstrate compliance with the established performance criteria. Soil in the secondary source areas (5,600 cy) would be treated by the installation of overlapping grout columns from the ground surface to the depth of impacts (up to 25 ft bgs). Spoils, i.e., excess grout, are expected to be generated at a rate of 20-30% by volume.

The stockpiled overburden (15,400 cy) will be used to backfill the excavation and re-grade the excavation area. Remediation support equipment (soil stockpile areas, decontamination area, and site trailers) would be removed, and site features would be restored.

The implementation of the remedy is expected to be completed in approximately 6 months in late 2025.

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3. Worker Health and Safety

All work will be conducted in accordance with a site-specific health and safety plans (HASPs) related to the Site and associated MGP impacts, as well as work-related documents developed by the contractors conducting the excavation, drilling and waste management activities. The HASPs will conform to the regulatory requirements and guidelines established in the following references:

- Title 29, Part 1910 of the Code of Federal Regulations (29 CFR 1910), Occupational Safety and Health Standards (with special attention to Section 120, Hazardous Waste Operations and Emergency Response).
- Title 8 of the California Code of Regulations (8 CCR), with special attention to Section 5192 Hazardous Waste Operations and Emergency Response, and Section 3202, Injury Illness Prevention Program.
- National Institute for Occupational Safety and Health/Occupational Safety and Hazards Administration/U.S. Coast Guard/U.S. Environmental Protection Agency, Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, Publication No. 85-115, 1985.

The HASPs will require that an exclusion zone be established around the disturbed areas. The protocols will require that access to the exclusion zone will be limited to OSHA-trained staff that are enrolled in a certified medical surveillance program and wearing the appropriate personal protection equipment (PPE), typically Level D. The HASPs will include requirements for utility location, and workspace air monitoring for volatile organic compounds to ensure that the appropriate level of PPE is used by site workers.

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4. Waste Management

The implementation of the PDI and remedy will generate investigation derived waste and spoils from the ISS. The following sections discuss the nature and estimated quantities of these materials, as well as the proposed approach for their management.

4.1 Pre-Design Investigation

The drilling contractor, New England Boring Contractors, will collect investigation derived waste (IDW), e.g., soil cuttings, decontamination water, and poly/plastic sheeting in properly labeled United States Department of Transportation approved storage containers (e.g. 55-gallon drums) grouped by environmental matrix (soil, water, personal protective equipment, plastic sheeting). Several drums are expected to be generated and stored in a secure location on-Site pending disposal.

AECOM will characterize the investigation derived wastes for disposal. Analyses will include: 8 RCRA metals, total volatile organic compounds (VOCs), total cyanide, as well as reactive cyanide and sulfur. Waste transportation and disposal of the wastes at an off-site permitted facility will be managed by Clean Harbors Environmental Services, inc. under contract to Unutil.

4.2 Remedy Implementation

The implementation of the remedy is not expected to generate significant quantities of waste for off-Site disposal. Spoils, i.e., excess grout, are expected to be generated at a rate of 20-30% by volume of soil treated. The spoils (3,600 cy) will likely be managed within the vadose zone excavation and allowed to cure in place. Spoils from the secondary source areas (1,300 cy) will likely be allowed to cure in the principal source area excavation.

In the event that small quantities of wastes are generated, they will be characterized with laboratory analyses in accordance with the requirements of the disposal facilities. They may include Toxicity Characteristic Leaching Procedure (TCLP), corrosivity, ignitability, reactivity, total petroleum hydrocarbons (TPH) and polychlorinated biphenyls (PCBs). Waste transportation and disposal of all contaminated wastes at an off-Site permitted facility will be managed by an approved Unutil contractor. All shipments of waste from the Site will be documented using waste tracking forms, bills of lading, and receipts.

- Soil - Soil showing significant signs of MGP impact, e.g., heavy staining of NAPL, will be stockpiled and characterized for off-Site thermal treatment at the Clean Earth facility in Loudon, NH.
- ISS Spoils - Excess grout that cannot be managed within the excavation of the principal source area will be consolidated on-Site, characterized, and managed off-Site at a permitted landfill.
- Construction Debris - Construction and Demolition (C&D) materials, e.g., concrete and pavement, removed during the excavation will be segregated, visually inspected, and decontaminated using scrapers, shovels, and a steam cleaner, as necessary, and loaded into roll-offs for off-Site transportation and disposal.

4.2.1 Off-Site Transportation

The transportation of impacted materials from the Site will be performed in accordance with all regulatory requirements. All haul trucks will have impermeable poly bed liners and impermeable poly covers that fully line the bed of the truck and can be overlapped to cover the top of the load to manage odors during transportation and, if there is the potential for liquids or tarry material leaking from the waste, they will

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have gasketed tailgates. The trucks may be sprayed, as necessary, with odor suppressive foam prior to covering to reduce vapor and odor emissions.

4.2.2 Decontamination

During and upon completion of the excavation/solidification phases of the project, decontamination of equipment will be performed to prevent contaminated material from being spread to un-impacted areas of the Site.

Decontamination of the earth-moving equipment will occur at the completion of the excavation phase and prior to the handling of clean backfill or mobilization off-Site. The method of equipment decontamination will consist of pressure washing to remove any impacted soil.

Trucks used for the off-Site transport of material will be decontaminated using dry decontamination methods (i.e., removal of loose material with a broom or brush) to the extent practicable to limit the volume of decontamination water. These methods, along with parking of trucks on plastic sheeting during loading, will effectively prevent the spread of contaminated materials onto roadways during transport to disposal facilities.

Decontamination water generated during cleaning of tools and equipment will be temporarily stored on-site for later off-Site disposal at an approved facility. Water generated from decontaminating personnel will be minimal due to the availability of disposable personal protective equipment (PPE) such as Tyvek® coveralls, booties, and nitrile gloves.

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5. Reporting

5.1 Pre-Design Investigation

Unitil will prepare a PDI Report that documents the findings from the investigation. The report will include the following:

- Figures illustrating the delineated areas of MGP impact.
- Summaries of the results from geotechnical analysis of soil.
- Summaries of the results from treatability testing.
- Boing logs from the sample collection, delineation and monitoring well borings.
- Documentation of the decommissioning of the monitoring wells.
- Copies of waste manifests and disposal documentation for IDW.

The report will be provided to NHDES within 30-days of the receipt of the Final Treatability Testing Report from the subcontractor.

5.2 Remedy Implementation

Unitil will develop a Completion Report documenting the activities associated with the remediation of the Site. The report will include the following:

- A summary of construction activities.
- A figure illustrating the locations and extent of the treatment areas.
- A discussion of Health and Safety practices and documentation of any spills/incidents.
- Summaries of waste characterization data.
- Summaries wastes generated and disposed at permitted off-site facilities.
- Copies of waste manifests and disposal documentation.

The report will be provided to NHDES within 90-days of the completion of Site activities.

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6. References

The Notice of Activity and Use Restriction, Petrolane/Northern Utilities, Inc. Site, Rochester, New Hampshire HLA, September 2002.

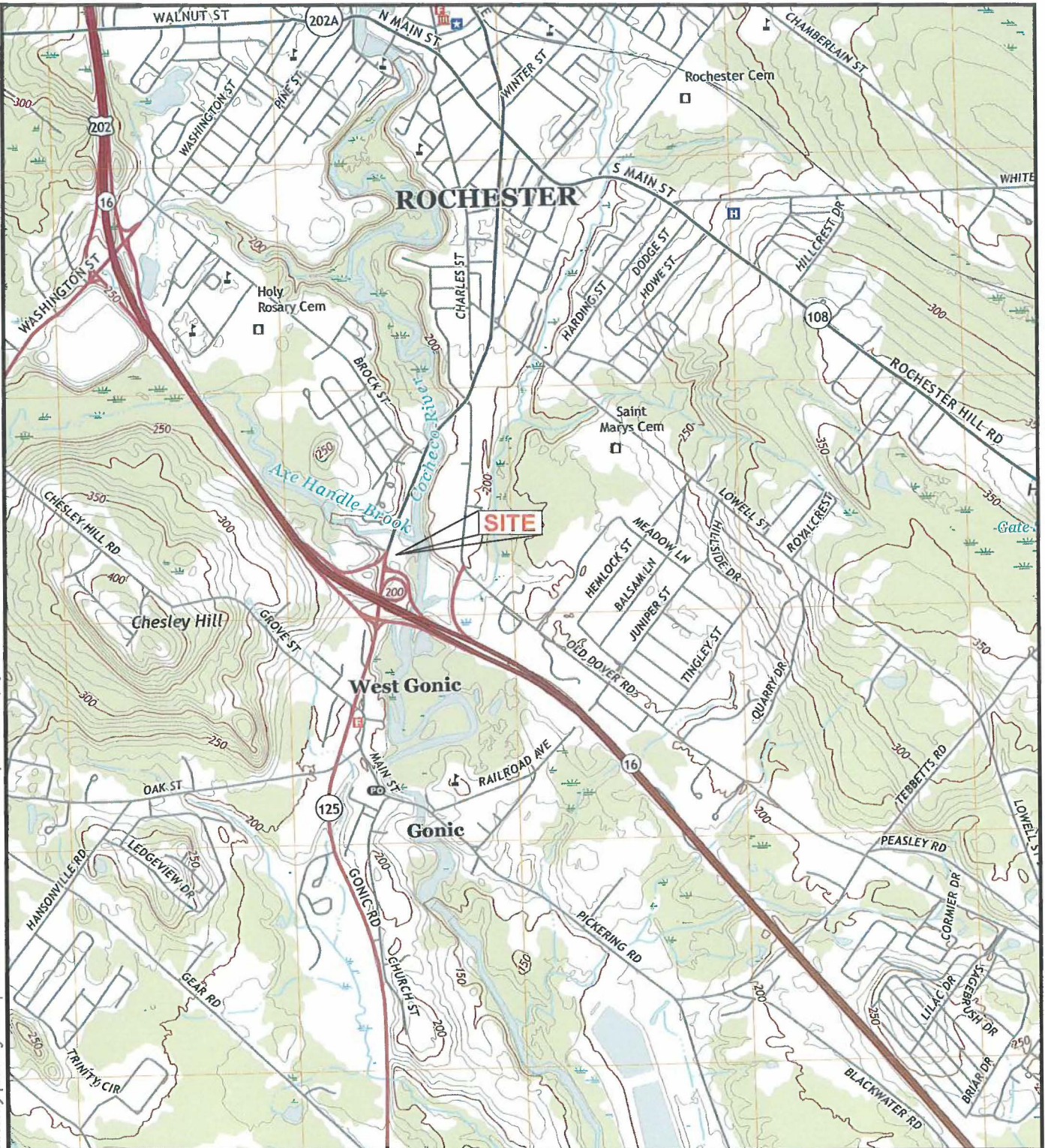
AECOM, 2022. Remedial Action Plan, Petrolane/Northern Utilities, Inc. Site, Rochester, New Hampshire. November 2022.

AECOM, 2024. Remedial Action Plan Addendum, Petrolane/Northern Utilities, Inc. Site, Rochester, New Hampshire. July 2024.

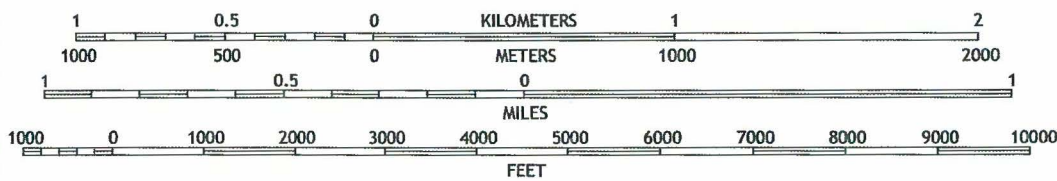
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Figures

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NORTHERN UTILITIES
PETROLANE SITE

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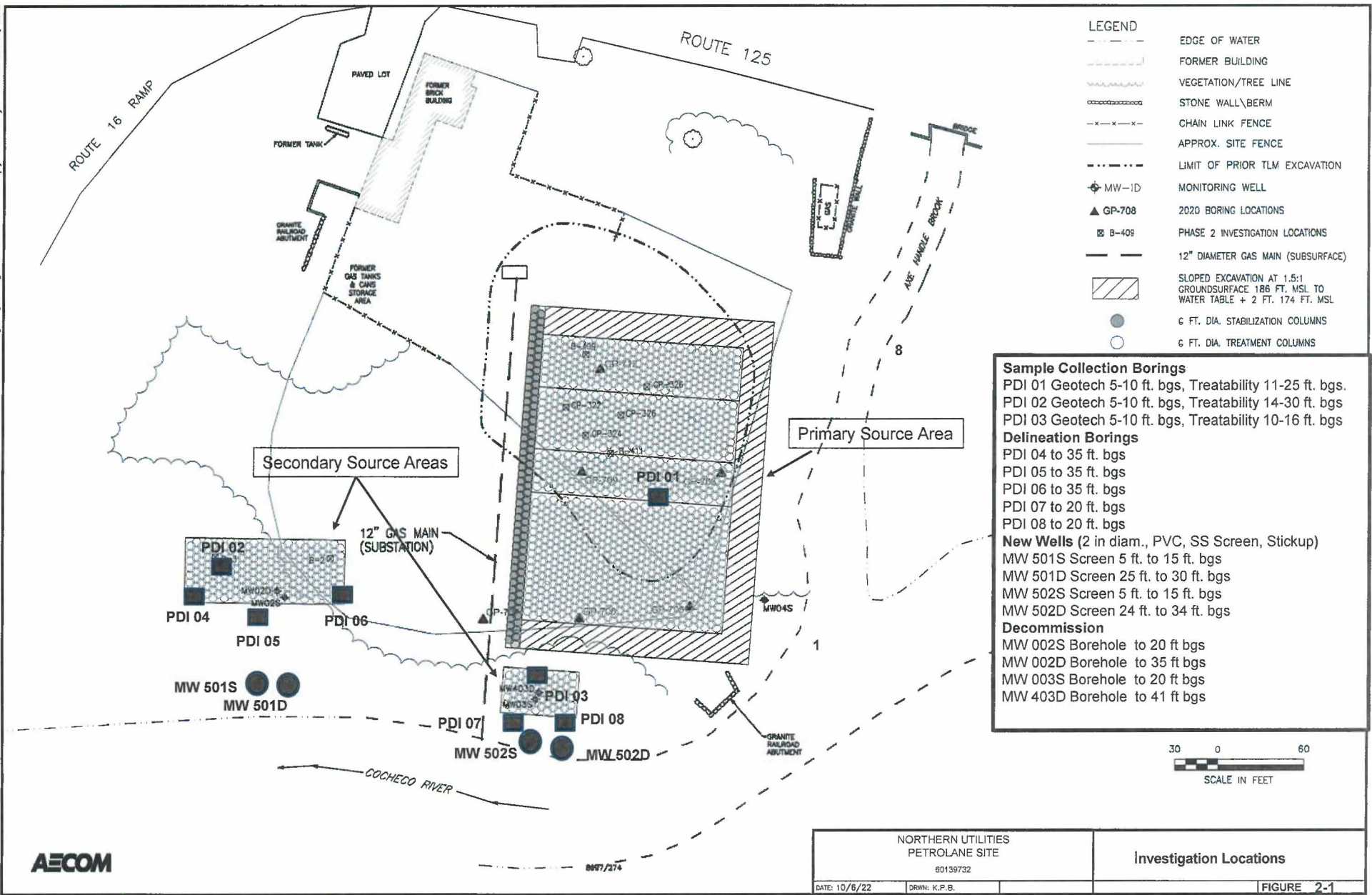
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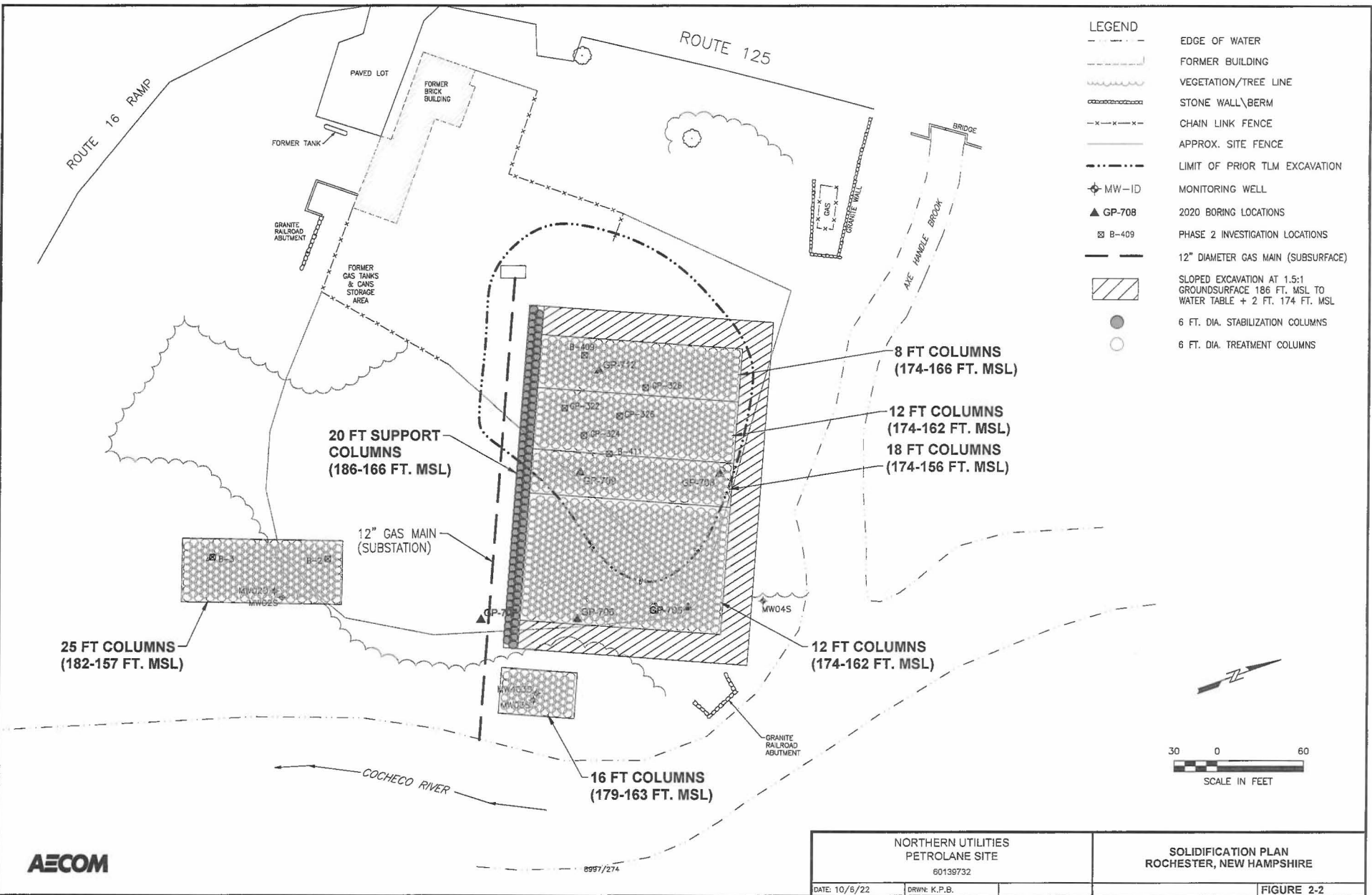
FIGURE 1-1

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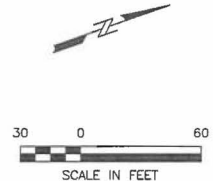
File: C:\Users\learyk\OneDrive - AECOM\Documents\Working Jobs\Northern Utilities - Rochester NH\RAPI\Fig 4-2 - Sanitization Planning Layout\Fig 4-2 Sanitization Plan (2) User: BarryK Plotfile: Oct 06, 2022



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- LEGEND**
- EDGE OF WATER
 - FORMER BUILDING
 - VEGETATION/TREE LINE
 - STONE WALL\BERM
 - x-x-x- CHAIN LINK FENCE
 - APPROX. SITE FENCE
 - LIMIT OF PRIOR TLM EXCAVATION
 - ⊕ MW-ID MONITORING WELL
 - ▲ GP-708 2020 BORING LOCATIONS
 - ⊠ B-409 PHASE 2 INVESTIGATION LOCATIONS
 - 12" DIAMETER GAS MAIN (SUBSURFACE)
 - ▨ SLOPED EXCAVATION AT 1.5:1 GROUND SURFACE 186 FT. MSL TO WATER TABLE + 2 FT. 174 FT. MSL
 - 6 FT. DIA. STABILIZATION COLUMNS
 - 6 FT. DIA. TREATMENT COLUMNS



NORTHERN UTILITIES PETROLANE SITE 60138732		SOLIDIFICATION PLAN ROCHESTER, NEW HAMPSHIRE
DATE: 10/5/22	DRWN: K.P.B.	FIGURE 2-2