



Licensed Engineering & Geology Environmental Firm
Specializing in [Innovative](#) and [Faster Site Closures!](#)

West Coast Office:
1136 NE Pine Island Road, Unit 74
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561.324.7523

East Coast Office:
4788 Holly Drive
Palm Beach Gardens, Florida 33418
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September 9, 2024

Sent via E-Mail to: FuentesC@mydelraybeach.com

Mr. Cynthia Buisson, PE
City of Delray Beach
434 South Swinton Avenue
Delray Beach, Florida

RE: Proposal for Groundwater Natural Attenuation Monitoring

Site: City of Delray Beach-Public Works
434 South Swinton Avenue
Delray Beach, Florida
FDEP Facility ID#: 50/8623071

Dear Ms. Buisson:

Thank you for the opportunity to provide a proposal to provide Natural Attenuation Monitoring (NAM) of groundwater at the above referenced facility. The attached Cost Summary outlines the general Scope of Work (SOW) and costs to initiate the project as outlined in the August 29, 2024 NAM approval correspondence. The general SOW is as follows:

- NAM to consist of four sampling events conducted during a one year period on a quarterly basis.
- Project administration, planning, teleconference meeting(s) and coordination with subcontractors for four quarters of sampling events.
- Collect groundwater samples from eight existing monitoring wells (MW-01, MW-03, MW-5, MW-06, MW-07, MW-08, MW-09 and DW-10) for laboratory testing for method 8260b for volatile organic aromatics (VOA/BTEX & MTBE) and EPA Method 8270c for Polynuclear Aromatic Hydrocarbon (PAH). for one year on a quarterly basis. Additionally, groundwater from Source/Monitor wells MW-03 and MW-05 will be sampled for EBD and total Lead during the Quarter 1 NAM.
- Prepare and submit to Palm Beach County Department of Environmental Resources Management a NAM Report for each of the four quarters, signed and sealed by our Professional Geologist, compliant to requirements of Chapter 62-780, F.A.C.

TOTAL ESTIMATED COST = <u>\$18,402.00</u>
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NOTE – The scope of work and associated costs presented are estimated. If the scope of work changes, then additional costs will apply. Additionally, the most recent Site Assessment information indicates that soil contamination also exists on-site. Pursuant to Paragraph 62-780.690(8)(g), F.A.C., prior to the submittal of a Site Rehabilitation Completion Report with a No Further Action Proposal it will be necessary to collect additional soil samples to confirm that the applicable soil cleanup criteria specified in Table II of Chapter 62-777, F.A.C. for petroleum products' contaminants of concern have been achieved. A separate cost proposal will be submitted outlining these costs upon completion of the NAM groundwater monitoring.

PAYMENT TERMS

Payment of Invoice upon submittal of each Quarterly NAM Report.

Sincerely,

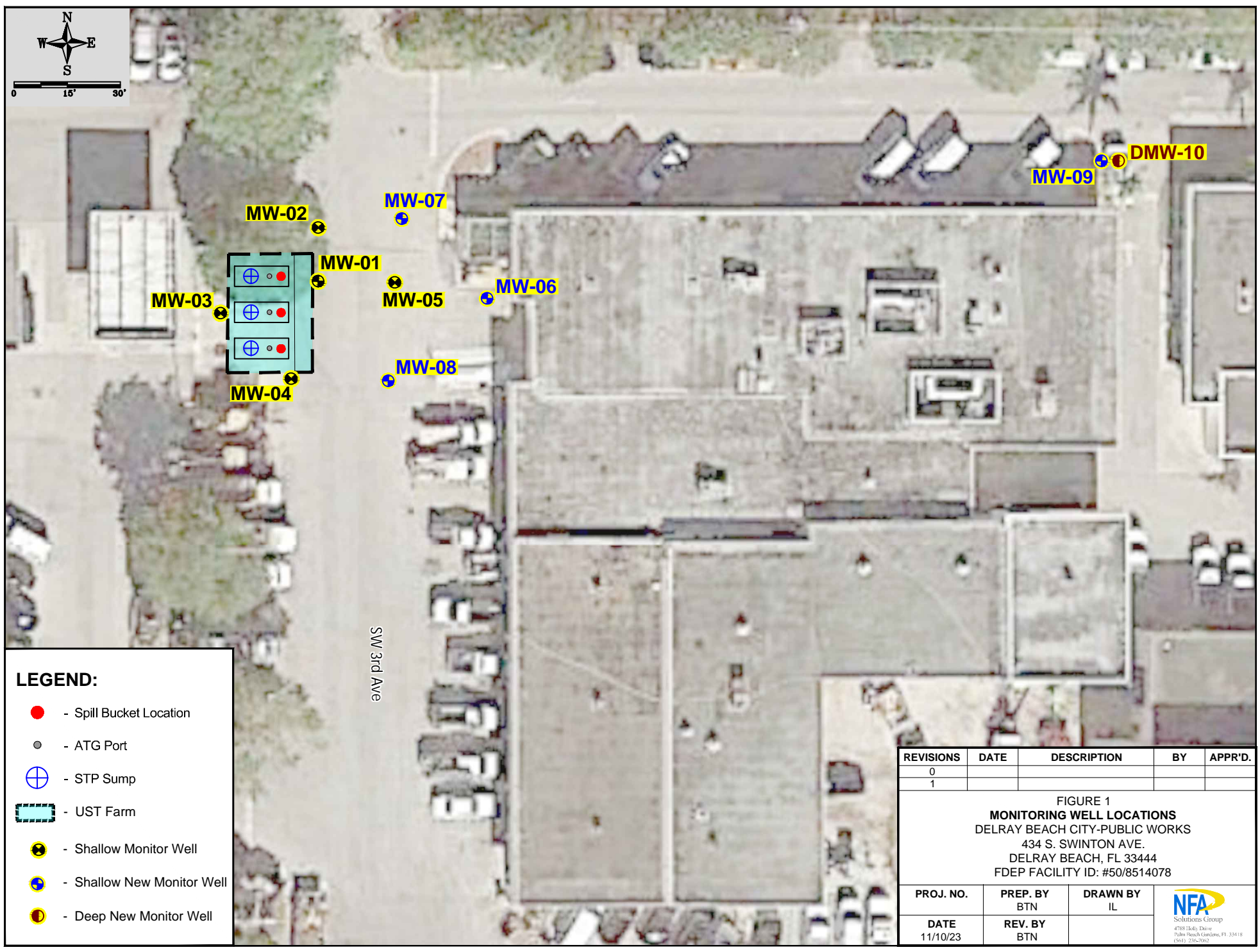
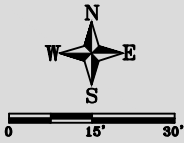
A handwritten signature in black ink that reads "Bradley T. Nowland". The signature is written in a cursive style.

Bradley T. Nowland-Principal

Attached:

1. *Cost Summary.*
2. *Site Map showing the Location of the Monitoring Wells*

CC: Mr. Paul DeCarolis - City of Delray Beach-IPP Administrator



LEGEND:

- - Spill Bucket Location
- - ATG Port
- ⊕ - STP Sump
- UST Farm
- ⊗ - Shallow Monitor Well
- ⊕ - Shallow New Monitor Well
- ⊕ - Deep New Monitor Well

REVISIONS	DATE	DESCRIPTION	BY	APPR'D.
0				
1				

FIGURE 1
MONITORING WELL LOCATIONS
 DELRAY BEACH CITY-PUBLIC WORKS
 434 S. SWINTON AVE.
 DELRAY BEACH, FL 33444
 FDEP FACILITY ID: #50/8514078

PROJ. NO.	PREP. BY BTN	DRAWN BY IL	 <small>NFA Solutions Group 4708 Jolly Drive Palm Beach Gardens, FL 33418 (561) 254-7002</small>
DATE 11/10/23	REV. BY BTN		

NFA Solutions Group - Cost Summary

Date: 9/9/2024

Project Number: XXXX

Site Name: City of Delray Beach SARA

Contractor: NFA

Project Manager: Nowland

Project Description: One Year Natural Attenuation Monitoring

Subtask A Admin.,Project costing and Coordination
 Subtask B Quarter One NAM MW Sampling
 Subtask C Quarter One NAM Report Preparation
 Subtask D Quarter Two NAM MW Sampling
 Subtask E Quarter Two NAM Report Preparation

Subtask F Quarter Three NAM MW Sampling
 Subtask G Quarter Three NAM Report Preparation
 Subtask H Quarter Four NAM MW Sampling
 Subtask I Quarter Four/Year 1 NAM Summary Report Preparation

Project Totals: **\$18,401.60**

Labor Rate	Personnel Category	Totals	A	B	C	D	E	F	G	H	I
\$160.00	Principal/President	0	0	0	0	0	0	0	0	0	0
\$150.00	Sr. Project Director	0	0	0	0	0	0	0	0	0	0
\$140.00	Sr. Engineer/P.E.	0	0	0	0	0	0	0	0	0	0
\$130.00	Sr. Hydrogeo/P.G.	9	0	0	2	0	2	0	2	0	3
\$120.00	Project Manager	6	6	0	0	0	0	0	0	0	0
\$110.00	Project Scientist/Geologist	32	2	0	8	0	5	0	5	0	12
\$100.00	Sr. Technician/Geologist	0	0	0	0	0	0	0	0	0	0
\$90.00	Technician	8	0	2	0	2	0	2	0	2	0
\$80.00	CADD	10	0	0	2	0	2	0	2	0	4
\$70.00	Clerical	18	0	0	4	0	4	0	4	0	6
TOTAL HOURS		83	8	2	16	2	13	2	13	2	25
1)	Bare Labor Cost	\$8,190.00	940.00	180.00	1,580.00	180.00	1,250.00	180.00	1,250.00	180.00	2,450.00
2)	Project Management (line 1)	0.0%	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3)	Indirect, Overhead, G&A, Fee (lines 1 & 2)	0.0%	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4)	Total Labor Cost	\$8,190.00	940.00	180.00	1,580.00	180.00	1,250.00	180.00	1,250.00	180.00	2,450.00
5)	Equipment Rental (in-house)	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6)	Hotel/Per Diem(\$250/per man/day)	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7)	Other Direct Costs(shipping)	0.0%	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8)	Utility Vehicle Use (\$200/per day)	\$800.00	0.00	200.00	0.00	200.00	0.00	200.00	0.00	200.00	0.00
9)	CONTRACTOR SUBTOTAL	\$8,990.00	940.00	380.00	1,580.00	380.00	1,250.00	380.00	1,250.00	380.00	2,450.00
10)	Laboratory Analysis- JEL	\$5,784.00	0.00	1,536.00	0.00	1,416.00	0.00	1,416.00	0.00	1,416.00	0.00
11)	Direct push Subcontractors-TBD	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11a)	Drilling Subcontractors-TBD	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12)	Construction Subcontractors	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13)	Other Subcontractors-JEL field tech	\$2,400.00	0.00	600.00	0.00	600.00	0.00	600.00	0.00	600.00	0.00
13a)	Other Subcontractors-Site Lines EMS/GPR survey	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14)	Sub Handling Fee (lines 10 -13)	15.0%	\$1,227.60	0.00	320.40	0.00	302.40	0.00	302.40	0.00	302.40
15)	Additional Equipment	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16)	Additional Equip. Markup	15.0%	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17)	SUBCONTRACTOR SUBTOTAL	\$9,411.60	0.00	2,456.40	0.00	2,318.40	0.00	2,318.40	0.00	2,318.40	0.00
18)	TOTAL PRICE (less retainage)	\$18,401.60	940.00	2,836.40	1,580.00	2,698.40	1,250.00	2,698.40	1,250.00	2,698.40	2,450.00
19)	RETAINAGE	0.0%	\$0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20)	TOTAL PRICE (including retainage)	\$18,401.60	940.00	2,836.40	1,580.00	2,698.40	1,250.00	2,698.40	1,250.00	2,698.40	2,450.00

Sampling Parameter Table

JEL Lab Costs-(bare rates)						
Groundwater Sample	Analytical Parameters					
	BTEX/MTBE (8260B)	TRPHs (FL-PRO)	PAHs (8270C)	GAG	KAG	EDB & Pb
groundwater-8 total MWs						X
Source wells (MW-01, 03 & MW-05)	X		X			X
Perimeter wells (MW-06, 07, 08, 09 & DMW-10)	X		X			

Soil Sample	Analytical Parameters					
	BTEX/MTBE (8260B)	TRPHs (FL-PRO)	PAHs (8270C)	SPLP (1312)	GAG/KAG	62-713 Preburn

GW Sample Analyses Legend	Cost Each	No. Each	Cost
BTEX/MTBE (8260B)	\$55.00	8	\$440.00
TRPHs (FL-PRO)	\$79.00	0	\$0.00
GAG	\$275.00	0	\$0.00
EDB & Pb	\$60.00	2	\$120.00
KAG	\$375.00	0	\$0.00
PAHs (8270C)	\$122.00	8	\$976.00
			\$1,536.00

Soil Sample Analyses Legend	Cost Each	No. Each	Cost
BTEX/MTBE (8260b)	\$40.00	0	\$0.00
TRPHs (FL-PRO)	\$57.00	0	\$0.00
PAHs (8270c soil)	\$83.00	0	\$0.00
SPLP Extraction	\$55.00	0	\$0.00
62-713 Preburn	\$350.00	0	\$0.00
EnCores (1 to a kit)	\$25.00	0	\$0.00
			\$0.00
			\$1,536.00

Sampling Parameter Table

JEL Lab Costs-(bare rates)

Groundwater Sample	Analytical Parameters					
	BTEX/MTBE (8260B)	TRPHs (FL-PRO)	PAHs (8270C)	GAG	KAG	
groundwater-5 total MWs (MW-01, 05, 06, 09 & DMW-10)	X		X			

Soil Sample	Analytical Parameters					
	BTEX/MTBE (8260B)	TRPHs (FL-PRO)	PAHs (8270C)	SPLP (1312)	GAG/KAG	62-713 Preburn

GW Sample Analyses Legend	Cost Each	No. Each	Cost
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GAG	\$275.00	0	\$0.00
KAG	\$375.00	0	\$0.00
PAHs (8270C)	\$122.00	8	\$976.00
			\$1,416.000

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BTEX/MTBE (8260b)	\$40.00	0	\$0.00
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PAHs (8270c soil)	\$83.00	0	\$0.00
SPLP Extraction	\$55.00	0	\$0.00
62-713 Preburn	\$350.00	0	\$0.00
EnCores (1 to a kit)	\$20.00	0	\$0.00
			\$0.00
			\$1,416.000

Sampling Parameter Table

JEL Lab Costs-(bare rates)

Groundwater Sample	Analytical Parameters					
	BTEX/MTBE (8260B)	TRPHs (FL-PRO)	PAHs (8270C)	GAG	KAG	
groundwater-5 total MWs (MW-01, 05, 06, 09 & DMW-10)	X		X			

Soil Sample	Analytical Parameters					
	BTEX/MTBE (8260B)	TRPHs (FL-PRO)	PAHs (8270C)	SPLP (1312)	GAG/KAG	62-713 Preburn

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Sampling Parameter Table

JEL Lab Costs-(bare rates)

Groundwater Sample	Analytical Parameters					
	BTEX/MTBE (8260B)	TRPHs (FL-PRO)	PAHs (8270C)	GAG	KAG	
groundwater-5 total MWs (MW-01, 05, 06, 09 & DMW-10)	X		X			

Soil Sample	Analytical Parameters					
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			\$0.00
			\$1,416.000