

DeeAar Holdings, LLC

# Current Projects Using AgroRemed/VaporRemed

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February 15, 2021

DeeAar Holdings, LLC

## **Current Projects Using AgroRemed/VaporRemed**

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February 15, 2021

- ▶ Current, active projects
- ▶ Past projects
- ▶ Appendix - Reports

# Abandoned Gas Station in Mays Landing, NJ

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## Site location



Figure: Site: An Abandoned Gas Station

## Background

### Tank

2 x 8000 gallon UST
1 x 1000 gallon kerosene UST
2 x 3000 gallon leaded gasoline
1 x 2000 gallon leaded gasoline UST

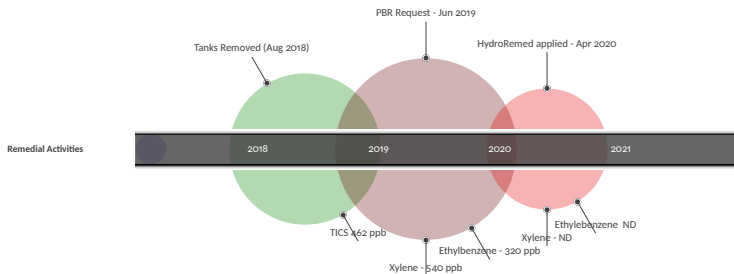
- ▶ The gas station has been abandoned for over ten (10) years.
- ▶ At the time of cleanup, the team could arrive at an estimated gas tanks.
- ▶ Tanks were removed in 2018.
- ▶ Contamination baselines were established in 2019.
- ▶ HydroRemed was added to site in April 2020.
- ▶ The hydrocarbon contamination levels have been non-detect (ND) for two samples.
- ▶ Secondary contamination has been detected and is being addressed.

**Current State : The monitoring for levels of secondary contamination is continuing.**

# Mays Landing - Remediation Timeline contd.

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## Site location



Figure: Sitemap of monitoring wells

## Background

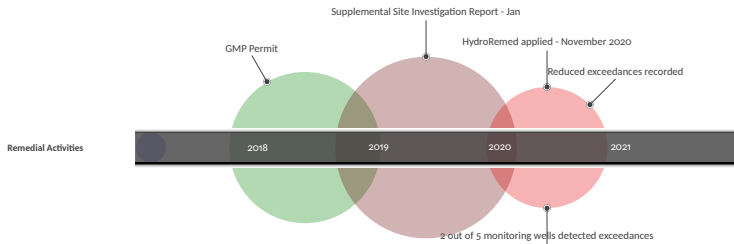
- ▶ The site is a former retail gasoline and fueling facility, reportedly since 1970s;
- ▶ In 1988, several underground storage tanks were removed.
- ▶ Previous remedial efforts at the site were conducted by prior consultants and included the use of an in-situ submerged oxygen curtain (ISOC) in 2002 and bio-augmentation via the addition of live bacterial cultures in 2004 to remediate residual petroleum contaminant levels in groundwater at the site.
- ▶ Our group acquired the property in July 2018;
- ▶ The project is currently 70 % complete. There are exceedances recorded near two monitoring wells;
- ▶ Groundwater from MW-101 contained concentrations of 11 VOCs and 3 PAHs, including concentrations of benzene (32 parts per billion [ppb]) and naphthalene (160 ppb) that exceeded the New Hampshire Ambient Groundwater Quality Standards (AGQS);
- ▶ Groundwater from MW-102 contained concentrations of eight VOCs and 3 PAHs, none of which exceeded the AGQS; and
- ▶ \* Details are in the attached report.

**Current State : Active. We are reaching out to the DES to discuss our protocol to address the remaining 30% of contamination.**

# Antrim NH - Remediation Timeline contd.

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Our group specializes in bioremediation of contaminated properties such as,

- ▶ abandoned gas stations;
- ▶ and properties contaminated with TCE/PCE.

We strive to keep the costs of cleanup within a narrow range to realize value to our clients.



- ▶ - Dinkar Ganti, Lead Developer, DeeAar Holdings, LLC.



ANALYTE	CAS	SAMPLE ID		TIME	
		LAB ID		L180100-01	
		COLLECTION DATE		12/17/2018	
		SAMPLE DEPTH		WATER	
		SAMPLE MATRIX		WATER	
		N11 PL (PQL)			
		Conc		Q	
		ML		ML	
<b>MICROEXTRACTABLES BY GC</b>					
<b>VOLATILE ORGANICS BY GC/MS</b>					
Acetone	71-02-3	1	MD	0.15	0.15
Butane	108-98-3	1	MD	0.15	0.15
Chloroform	67-66-3	2	MD	0.15	0.15
Diethyl ether	109-87-3	1	MD	0.15	0.15
Hexane	110-52-3	2	MD	0.15	0.15
Isobutane	109-64-6	1	MD	0.15	0.15
Isopentane	109-65-5	1	MD	0.15	0.15
Octane	111-65-9	1	MD	0.15	0.15
Pentane	109-66-5	1	MD	0.15	0.15
Propane	44-76-3	1	MD	0.15	0.15
Styrene	100-02-7	1	MD	0.15	0.15
Toluene	108-88-6	1	MD	0.15	0.15
Trichloroethylene	79-06-1	1	MD	0.15	0.15
Trichloroethane	79-06-1	1	MD	0.15	0.15
<b>VOLATILE ORGANICS BY GC/MS-TIC</b>					
<b>Non-HC Compounds</b>					
<b>BASE/NEUTRAL EXTRACTABLES BY GC/MS- WESTBROOK LAB</b>					
Acetone	71-02-3	1	MD	0.15	0.15
Butane	108-98-3	1	MD	0.15	0.15
Chloroform	67-66-3	2	MD	0.15	0.15
Diethyl ether	109-87-3	1	MD	0.15	0.15
Hexane	110-52-3	2	MD	0.15	0.15
Isobutane	109-64-6	1	MD	0.15	0.15
Isopentane	109-65-5	1	MD	0.15	0.15
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Propane	44-76-3	1	MD	0.15	0.15
Styrene	100-02-7	1	MD	0.15	0.15
Toluene	108-88-6	1	MD	0.15	0.15
Trichloroethylene	79-06-1	1	MD	0.15	0.15
Trichloroethane	79-06-1	1	MD	0.15	0.15
Trichloroethane	79-06-1	1	MD	0.15	0.15
<b>BASE/NEUTRAL EXTRACTABLES BY GC/MS- WESTBROOK LAB-TIC</b>					
<b>Non-HC Compounds</b>					
<b>BASE/NEUTRAL EXTRACTABLES BY GC/MS-SM</b>					
Acetone	71-02-3	1	MD	0.15	0.15
Butane	108-98-3	1	MD	0.15	0.15
Chloroform	67-66-3	2	MD	0.15	0.15
Diethyl ether	109-87-3	1	MD	0.15	0.15
Hexane	110-52-3	2	MD	0.15	0.15
Isobutane	109-64-6	1	MD	0.15	0.15
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Trichloroethane	79-06-1	1	MD	0.15	0.15

\* Comparison is not performed on parameters with non-detectable criteria.

Eight Weekup Data, Westbrook, MA 01581-0151  
 508-886-4200 / Fax: 508-886-4201 / 800-824-4200  
 www.alphaab.com

Figure: Concentration Levels, ML : Dec 2018

**Figure:** Concentration Levels, ML : Jun 2019

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Eight Wakeup Drive, Westborough, MA 01581-1219  
508-866-6220 (Fax) 508-866-9292 800-624-6220 -  
[www.strobilab.com](http://www.strobilab.com)

Dinkar Ganti | Bioremediation of Abandoned Gas Stations



June 24, 2020

Permits Coordinator  
OH Remediation and Compliance Bureau  
New Hampshire Department of Environmental Services  
28 Hazen Drive, P.O. Box 95  
Concord, NH 03302-0095

Subject: April 2020 Groundwater Management Permit Data Submittal, Dissolved  
Contaminant Plume Delineation Report, and 2019 Periodic Summary Report: Mr. Mike's  
Austin, 74 Main Street, Austin, New Hampshire (NHDES #06060414, LUST Project  
#0006764)

Dear Coordinator:

Groundwater sampling was completed at the Mr. Mike's Austin site on April 6, 2020, following the  
expansion of the groundwater monitoring well network on March 11 & 18, 2020. This report  
contains the following three parts:

1. An April 2020 Groundwater Management Permit (GMP) Data Submittal, which  
summarizes sampling results for three pre-existing and one newly-installed shale  
monitoring wells (SMW) and three newly-installed off-site SMW, located at adjacent  
properties to the north and south of the site;
2. A Dissolved Contaminant Plume Delineation Report, which includes a summary of recent  
monitoring well installations, as requested by NHDES in the April 23, 2019 reply letter to  
HGA's Supplemental Site Investigation Report, submitted January 25, 2019; and
3. A Periodic Summary Report, which includes a presentation of groundwater quality data  
for the period 2017-2020, groundwater data trends, groundwater gradients, petroleum  
contaminant distributions, human receptor information, an updated conceptual site  
model, and recommendations for further site activities.

**Figure:** Snapshot of the report submitted in June 2020, AN

*We are presenting a high-level overview. Details are available for review.*



Thank you for your time!