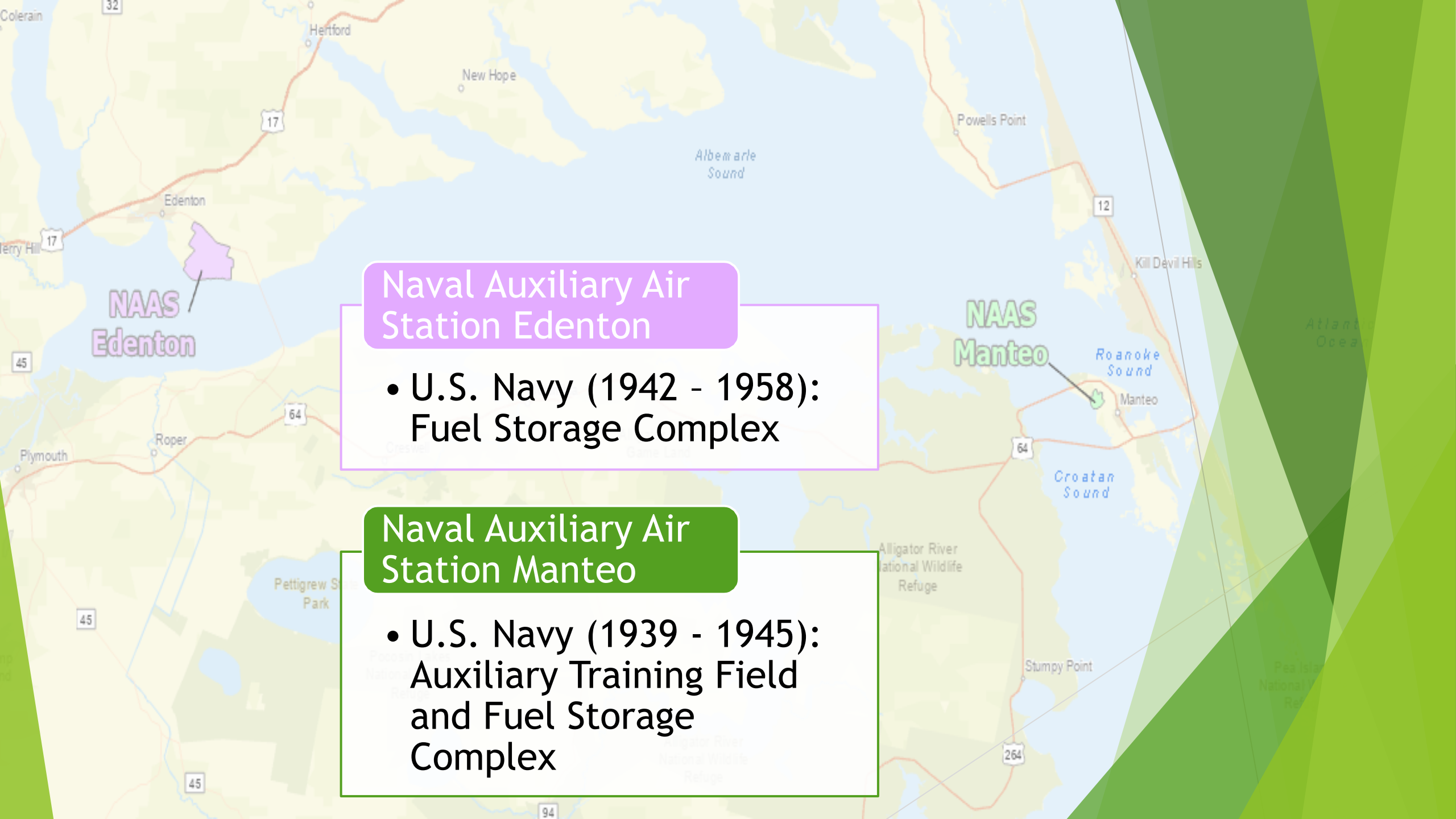


Addressing Residual Hydrocarbon Concentrations Using Micron-Scale Carbon Injections at Formerly Used Defense Sites

Naval Auxiliary Air Station Manteo, Manteo, North Carolina

Naval Auxiliary Air Station Edenton, North Carolina



Naval Auxiliary Air Station Edenton

- U.S. Navy (1942 - 1958): Fuel Storage Complex

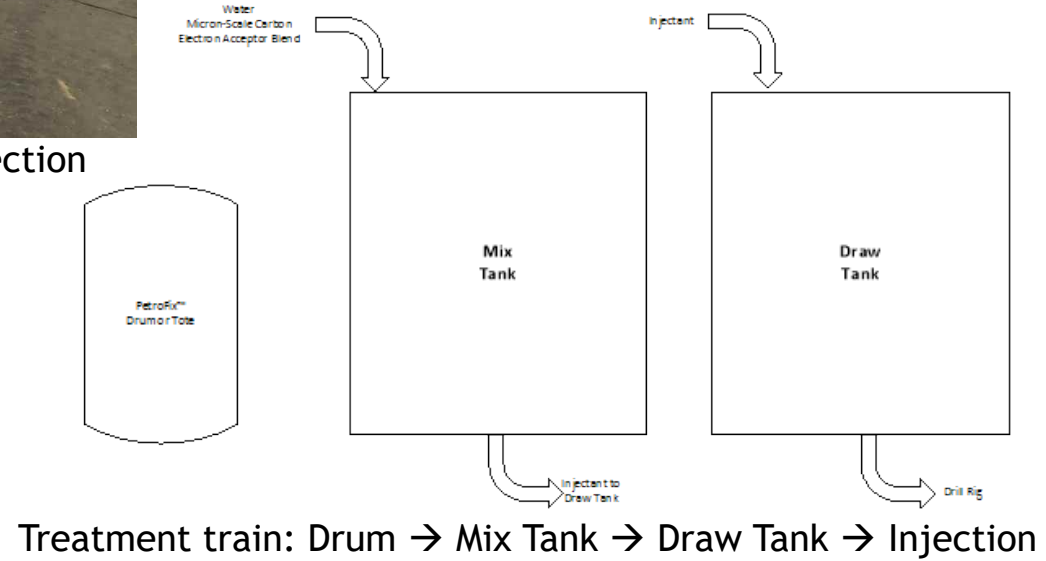
Naval Auxiliary Air Station Manteo

- U.S. Navy (1939 - 1945): Auxiliary Training Field and Fuel Storage Complex

Logistics



Storage of materials prior to injection



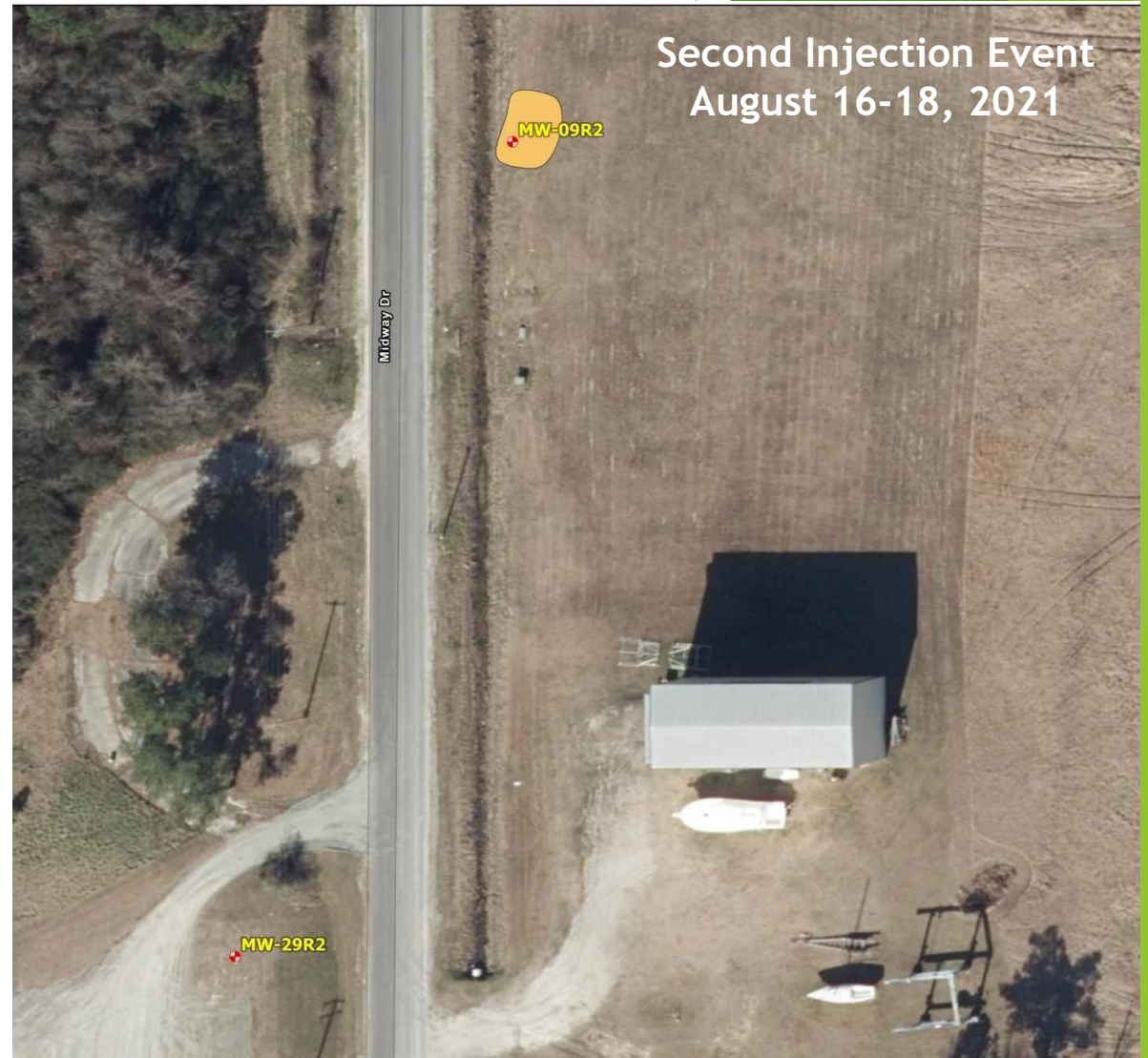
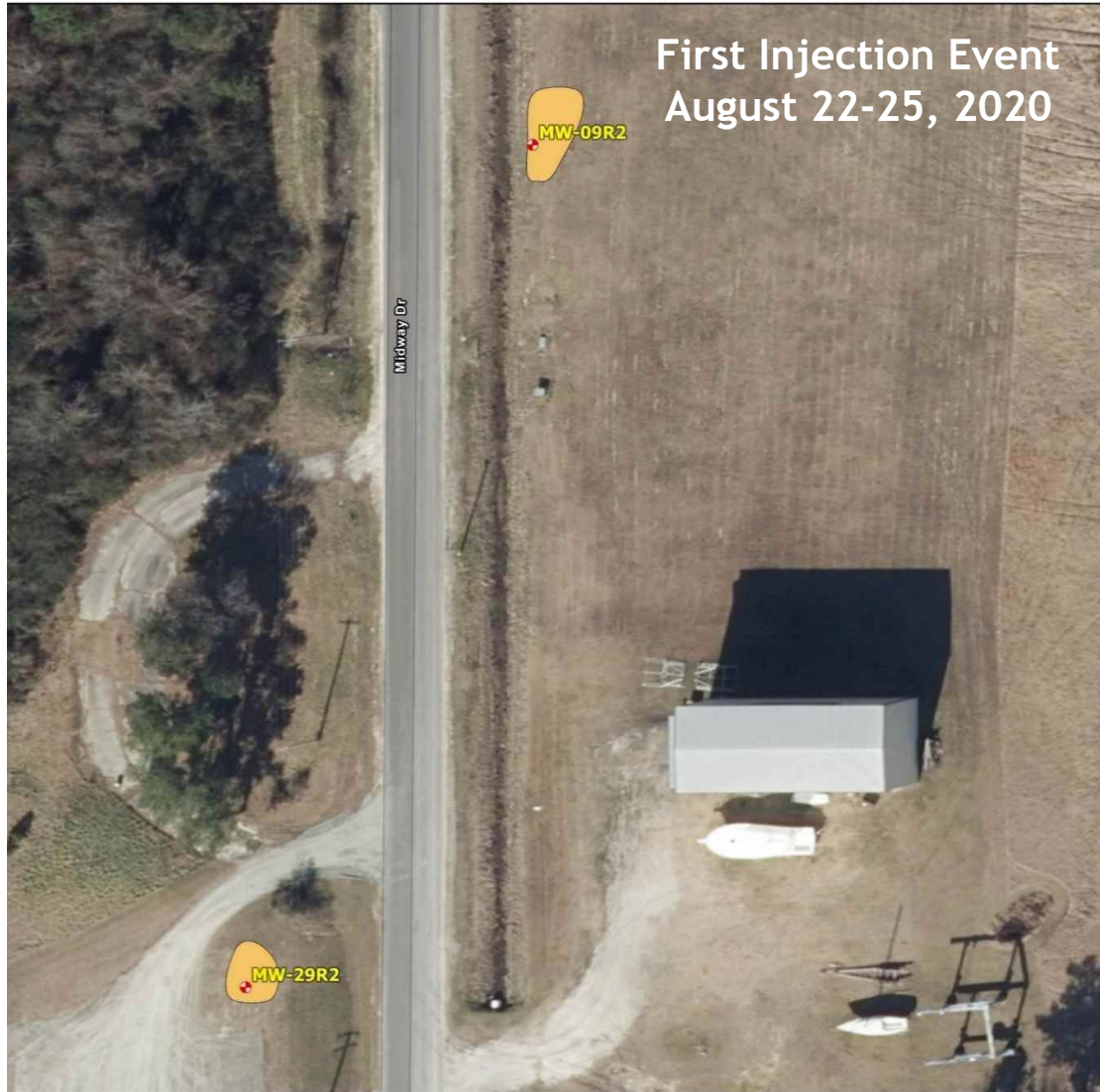
Field view of treatment train



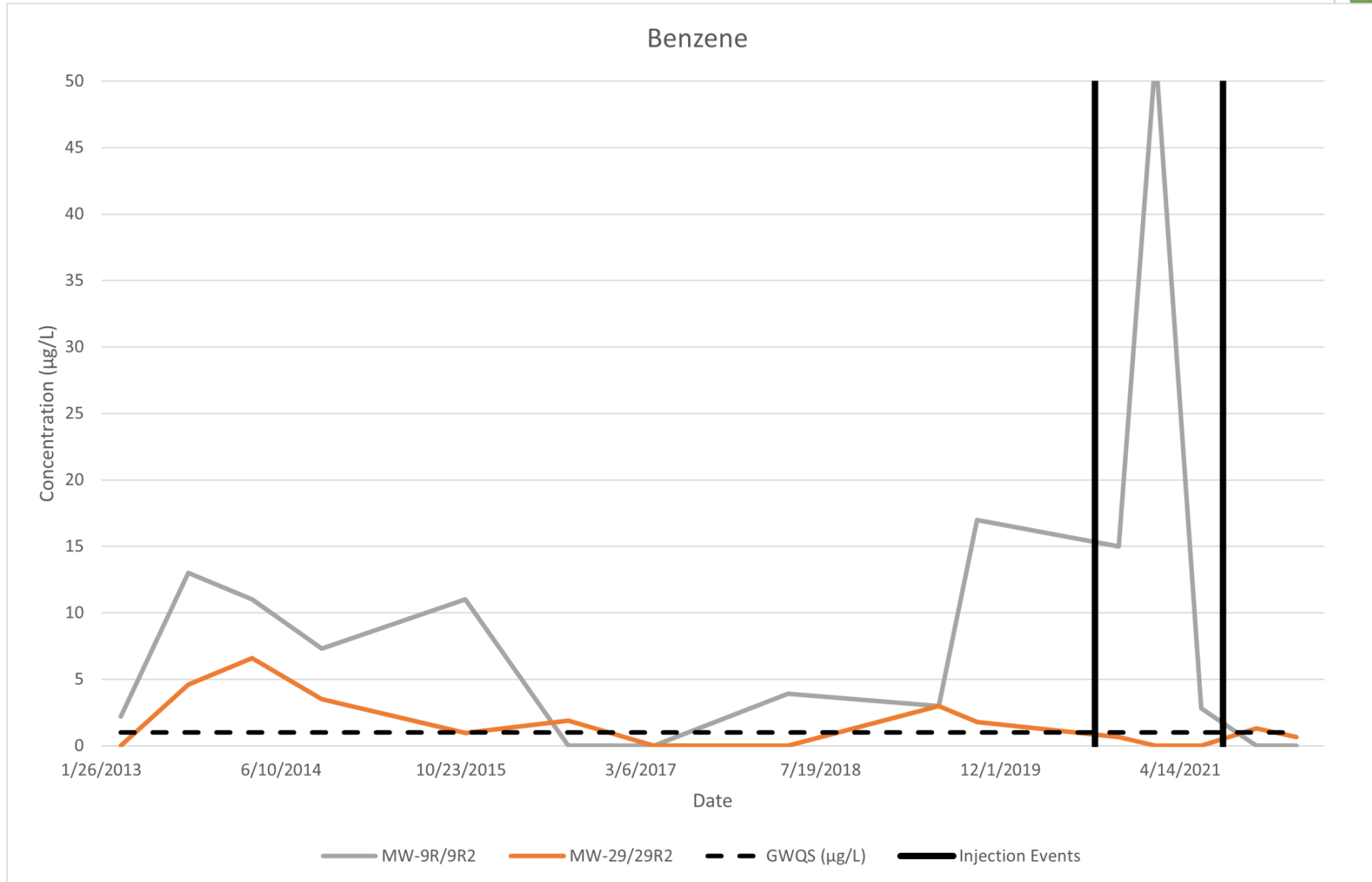
Naval Auxiliary Air Station Edenton



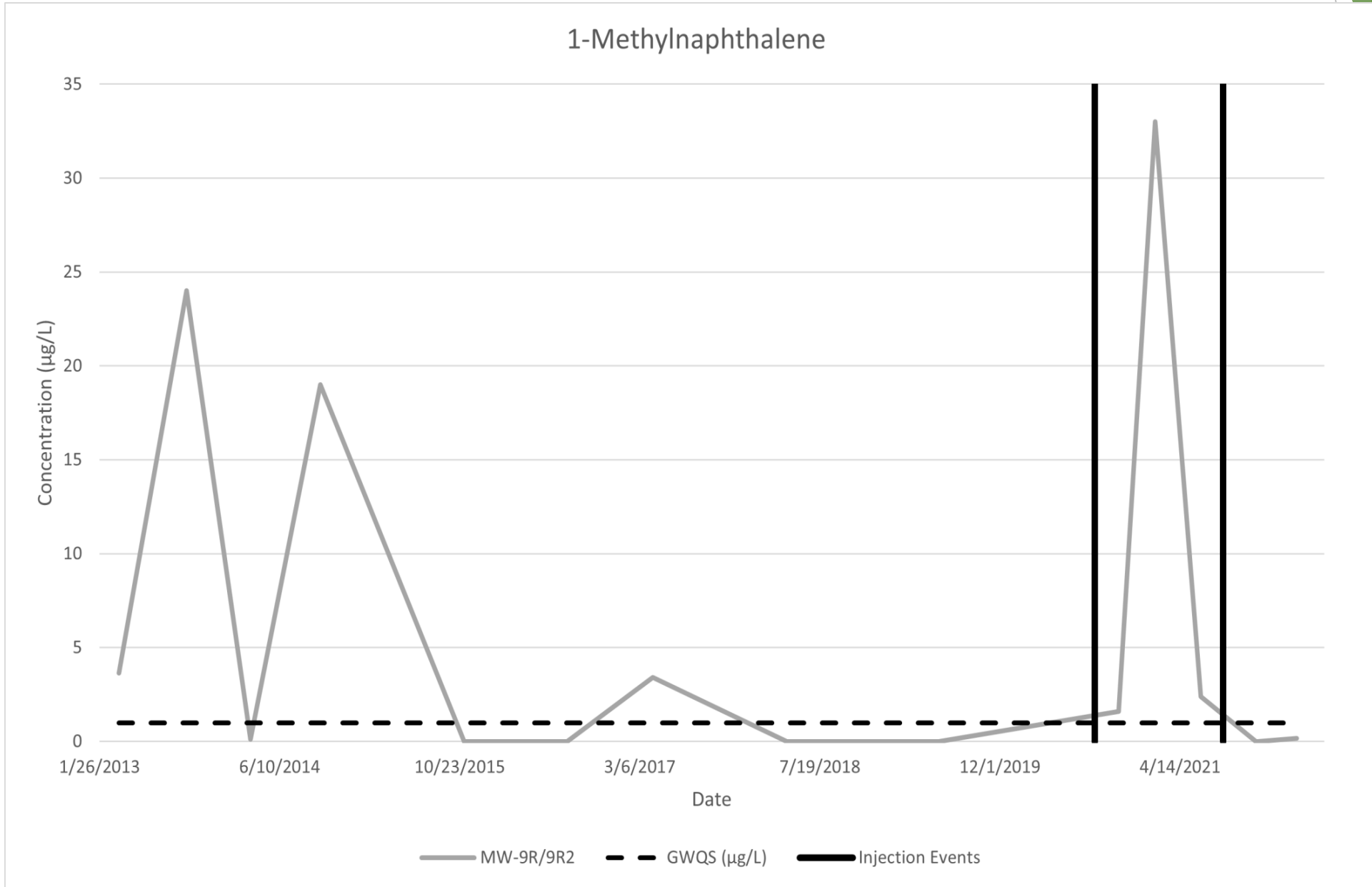
Naval Auxiliary Air Station Edenton



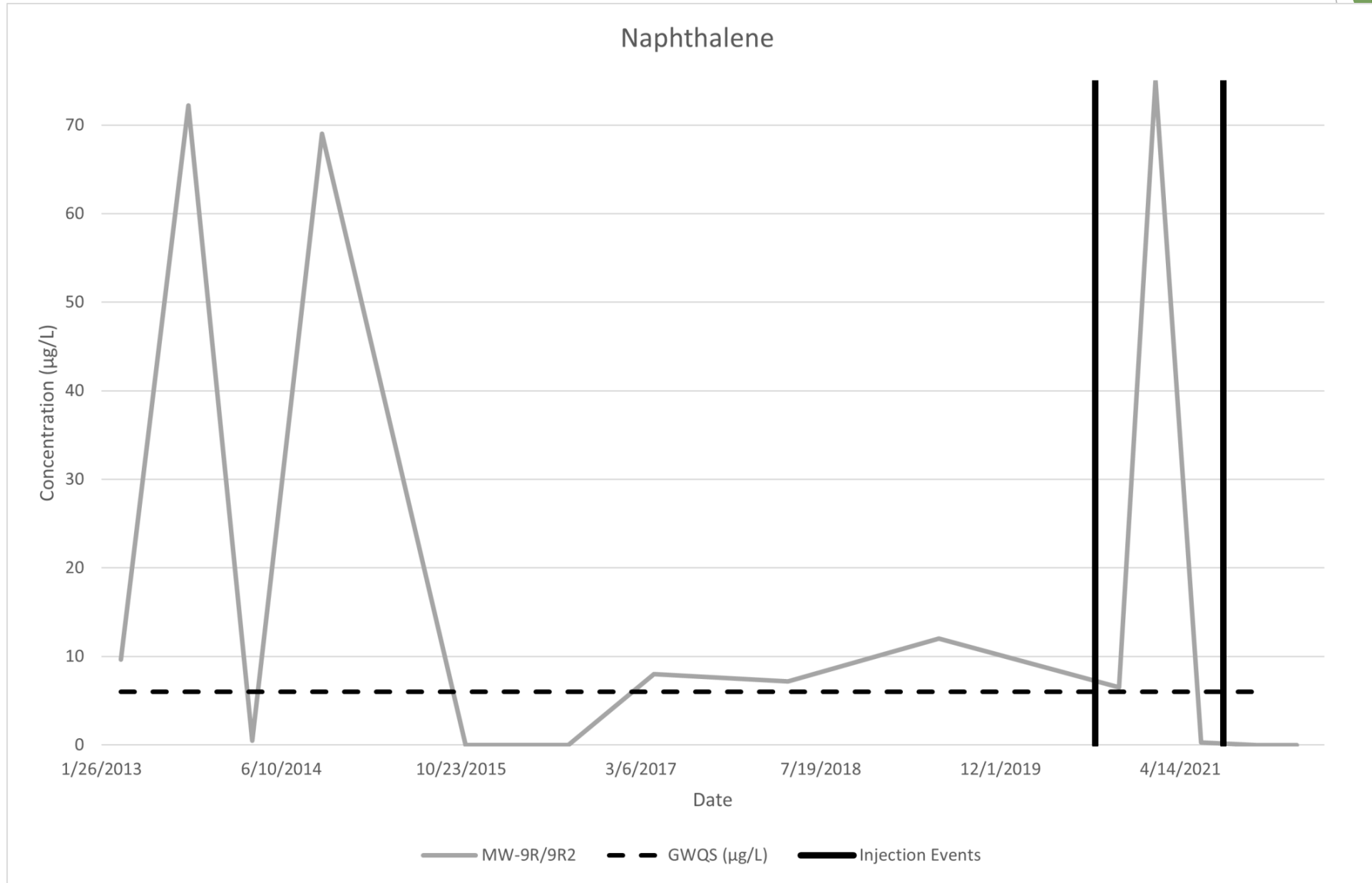
Contaminant Response to Injection Events



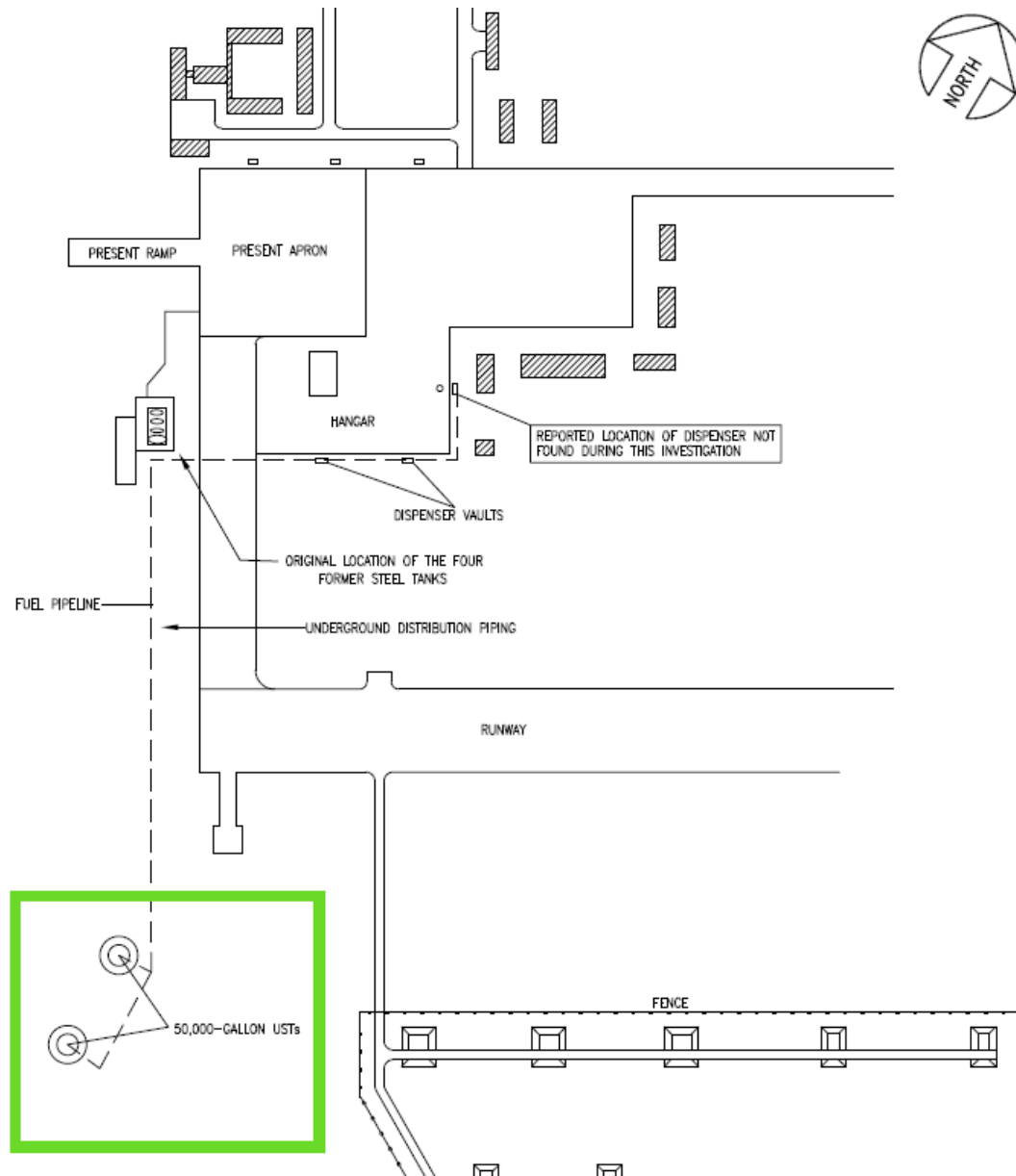
Contaminant Response to Injection Events



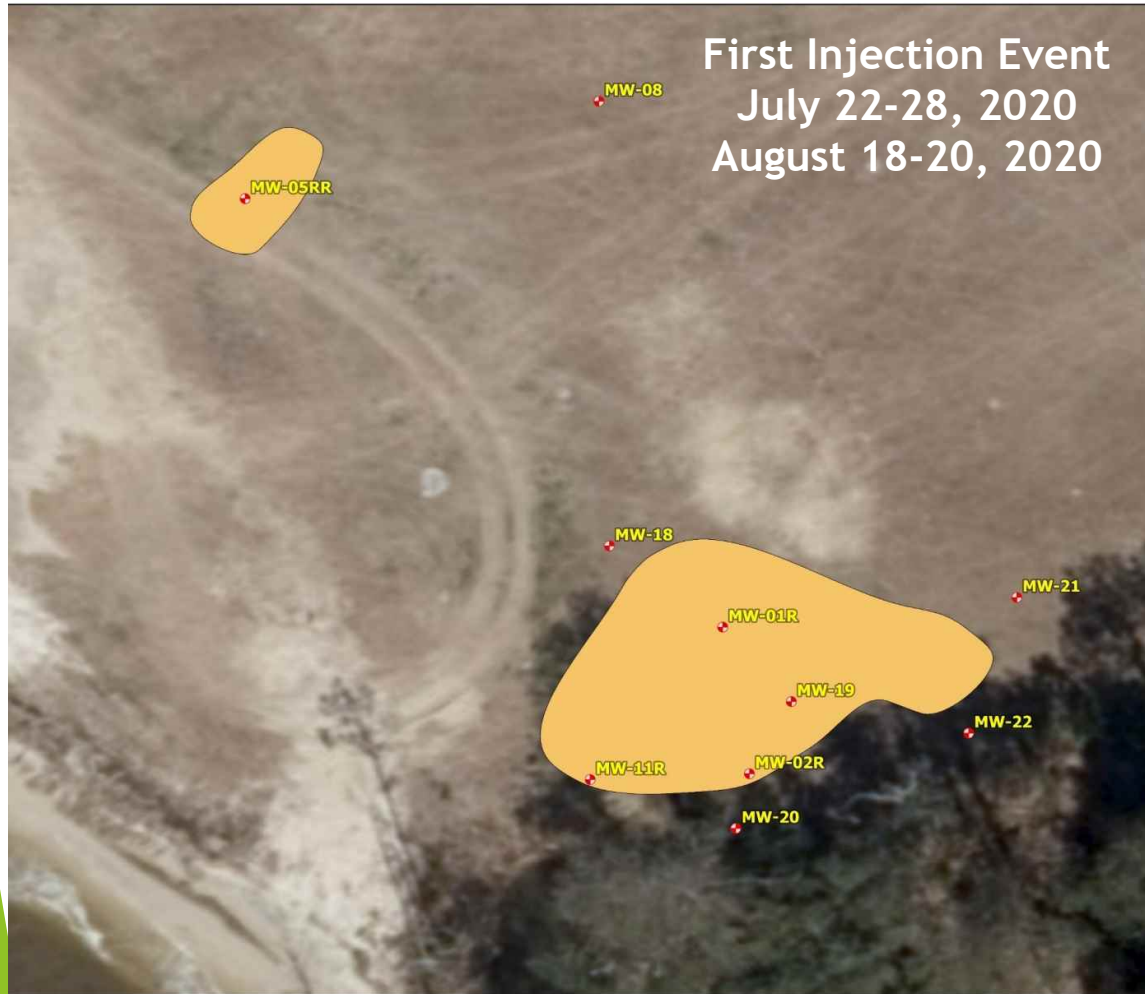
Contaminant Response to Injection Events



Naval Auxiliary Air Station Manteo



Naval Auxiliary Air Station Manteo



Additional Site Challenges



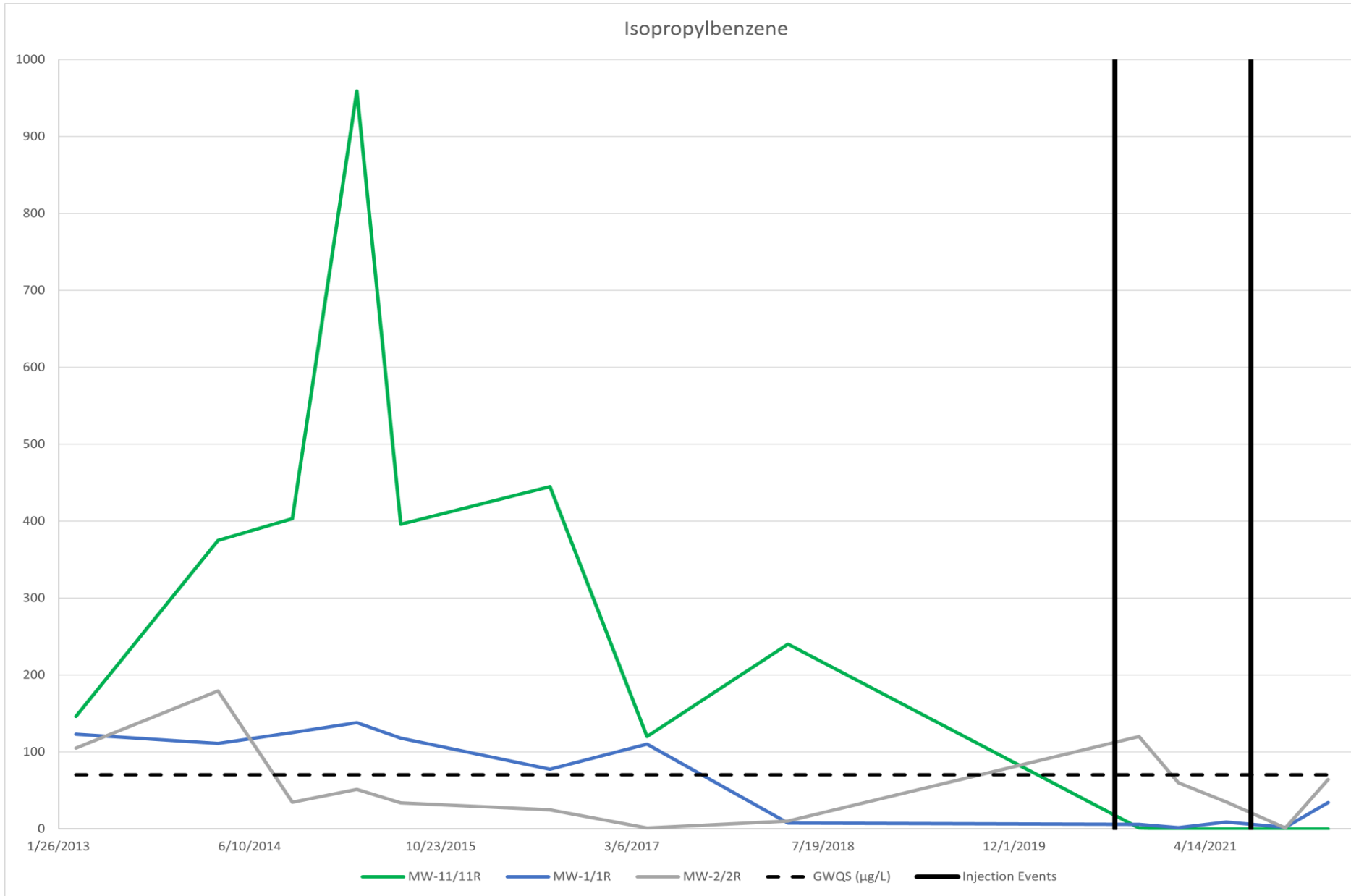
Incorrectly abandoned monitoring well

Erosion! Wells that were thought to be abandoned sometimes reappear and wells needed for sampling disappear!

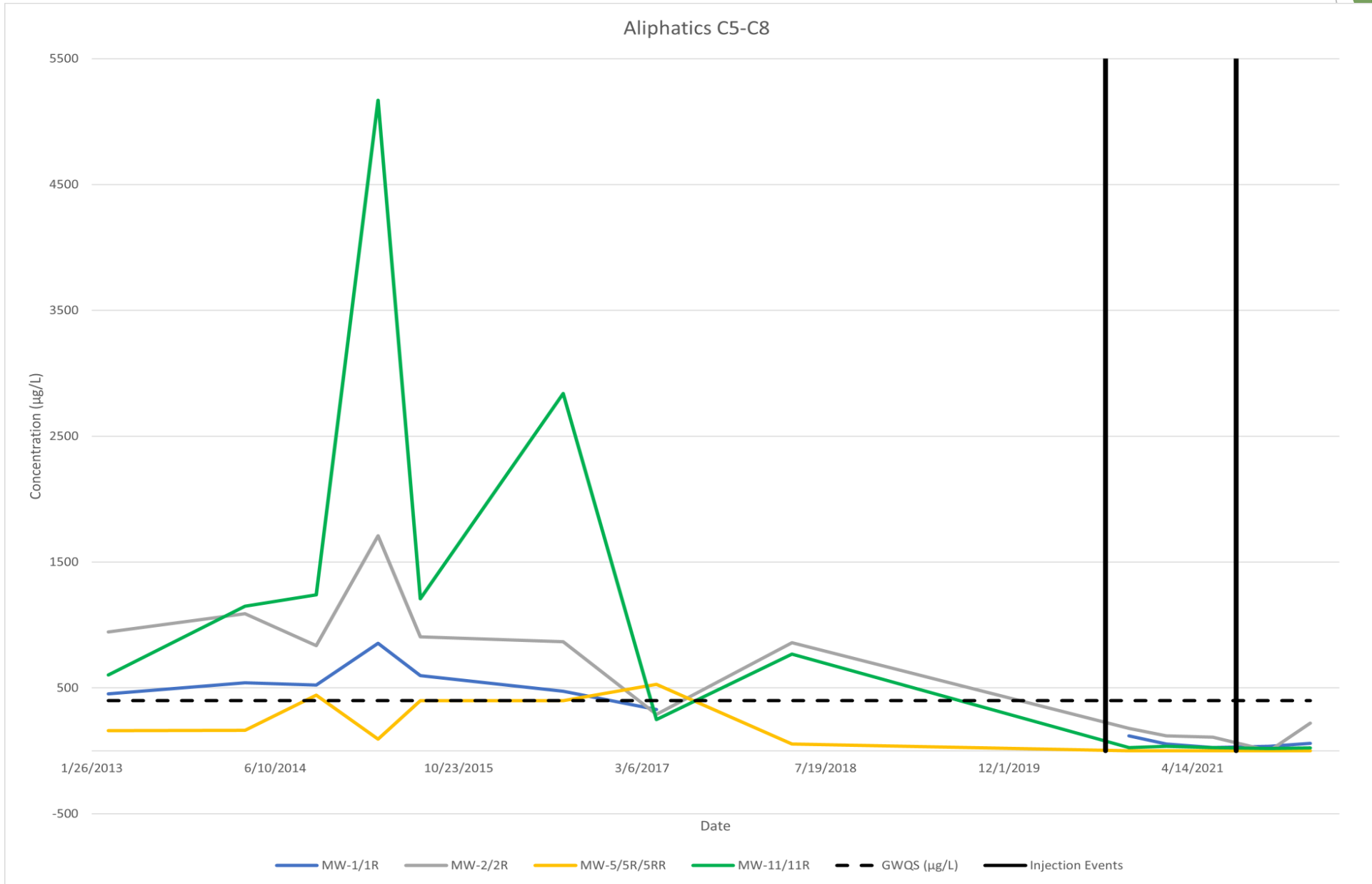


Monitoring well buried under sand

Contaminant Response to Injection Events



Contaminant Response to Injection Events



Questions?



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