

December 6, 2019

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RESTORATION

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RE: ADOT&PF Dutch Harbor Airport Torpedo Building Report
Lots 6A & 6B Block 2 Unalaska Airport ADEC File No. 2542.38.010

Mr. Lidren,

On behalf of the Alaska Department of Transportation and Public Facilities (ADOT&PF), Restoration Science & Engineering, LLC (RSE) is providing the following report for the decommissioning of the Dutch Harbor Airport Torpedo Building monitoring wells MW-1 and MW-3 per correspondence from the Alaska Department of Environmental Conservation (ADEC) dated October 24, 2017 and an approved work plan dated September 17, 2019. The two wells were located at the Torpedo Building at the Dutch Harbor/Unalaska Airport on Amaknak Island.

SITE DESCRIPTION

The Torpedo Building was constructed circa 1942 for preparing torpedoes for aircraft loading during World War II. Diesel and lead contamination were encountered in soil and groundwater surrounding the building in 1991. The source is believed to originate from a former fuel pipeline that traversed the property, as well as military activities within the Torpedo Building itself.

Site characterization and cleanup operations have been ongoing at the site since the mid-1990s. A monitoring well reconnaissance survey was conducted in 2016. Of the five monitoring wells identified at the site, the results of the reconnaissance were as follows:

- MW-1 was identified and sampled. The cover of this well is destroyed.
- MW-2 was paved over and is presumed destroyed – note: RSE verified this well was destroyed during the October 2019 mobilization to the site.
- MW-3 was identified and sampled.
- MW-4 could not be located and is presumed destroyed – note: RSE verified this well was destroyed during the October 2019 mobilization to the site.
- MW-5 was verified destroyed.

In an October 24, 2017 letter from the ADEC to the tenant of the Torpedo Building, the ADEC requested the identified wells, MW-1 and MW-3 be properly decommissioned.

MONITORING WELL DECOMMISSIONING

Decommissioning activities were performed in accordance with the ADEC 2013 Monitoring Well Guidance and 18 AAC 75.345(j). Physical removal of the wells was performed by an RSE Qualified Environmental Professional. Due to remote nature of this work, RSE conducted manual removal of the wells.

RSE mobilized to Dutch Harbor on October 10, 2019 and decommissioned the wells that day. RSE qualified environmental professional (QEP) Kyle Wiseman met with ADOT&PF employee Dale Rickman. RSE identified the locations of MW-1 and MW-3 with the assistance of a loader for scraping surface materials from the caps. The well housing of MW-3 had been previously removed and only the polyvinyl chloride (PVC) remained in-situ. RSE first attempted to knock out the bottom of MW-3 which resulted in the top of the PVC well assembly being pushed down below grade. RSE recovered the top of the well with a crowbar and removed the well assembly by hand. A total of 14.9 feet (ft) of PVC well material was removed. RSE then filled the borehole with approximately 25 pounds (lbs) of bentonite. The bentonite was hydrated with approximately one gallon of distilled water followed by approximately 20 lbs of sand. RSE sealed the cap by tamping down two minor applications of pavement repair. Mr. Rickman used the loader to restore the area to grade.

RSE was unable to knock out the bottom of MW-1. A handyman jack was used to remove the PVC well assembly in approximate 3 ft sections. A total of 14.8 ft of PVC well material was removed. RSE filled the borehole with approximately 25 lbs of bentonite and hydrated it with approximately one gallon of distilled water. A small amount of sand was added and sealed by tamping down an application of pavement repair.

The removed PVC well material and other waste generated during the decommissioning was disposed of in the ADOT&PF dumpster at the Unalaska Airport. No evidence of sheening or odor was observed during the removal activities. Select photos are attached to this document.

During the mobilization, RSE additionally conducted reconnaissance for the two wells that were presumed destroyed: MW-2 and MW-4. Using the institutional knowledge of the ADOT&PF personnel onsite, historic mapping, and surficial earthwork with the loader, these wells were confirmed to have been destroyed.

Please contact Arran Forbes at (907) 278-1023, if you have any questions or comments.

This Report was prepared by an ADEC-qualified environmental professional in accordance with 18 AAC 75.



Arran Forbes



Loader scraping for MW-3, North-East



MW-3 exposed, East



Removal of MW-3, North



Decommission of MW-3 Complete, West



MW-1, Down



Removing MW-1, North-West



PVC Well removed from MW-1, North-East



Decommission of MW-1 Complete, Down, North