



DEPARTMENT OF THE NAVY

COMMANDER
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JBPHH, HAWAII 96860-5101

5090
Ser N45/441
June 6, 2014

CERTIFIED NO: 7011 0110 0002 1803 8483

Ms. Roxanne Kwan
Hawaii State Department of Health
Environmental Management Division
Solid and Hazardous Waste Branch
Underground Storage Tank Section
919 Ala Moana Boulevard, Room 212
Honolulu, HI 96814

Dear Ms. Kwan:

SUBJECT: RED HILL TANK 5 RELEASE
WEEKLY STATUS REPORT NO. 14
DOH FACILITY ID NO. 9-102271
DOH RELEASE ID NO. 140010

As requested in DOH letter U0205RK of February 26, 2014, the following information is provided as the fourteenth weekly status report for the confirmed release of JP-8 fuel from Tank 5 at the Red Hill Fuel Storage Facility. This is the same information that was emailed to you on June 3, 2014. Updates to the thirteenth weekly status report are in italics.

1. Preliminary Work Plan (due Friday 14 March 2014)

The Preliminary Work Plan was submitted as required in your letter of February 26, 2014. A contract vehicle was identified to contract these efforts. The performance work statement was provided to you for review/endorsement and the request for funding package submitted to Naval Supply Systems Command (NAVSUP)/Defense Logistics Agency (DLA) Resource sponsor on March 14, 2014.

Contract proposals were received by the Navy on April 11, 2014. Negotiations were conducted on April 17, 2014. The contractor submitted a revised proposal on April 29, 2014 for Phase 1a (Site Characterization).

A contract was awarded on 23 May 2014 for Phase 1a (Site Characterization) and Phase 1b (Installation of Sentinel Monitoring Wells).

No change.

- a) Item 1- Models to estimate downward vertical migration of free product.

There is a lack of models for investigating pure petroleum liquid. However, we will continue to evaluate the availability of transport models in basalt.

We have requested that the contractor provide multiple scenarios that would cover multiple release points with varying volumes, different rates of release with a range of rock column properties, and a catastrophic release scenario. This is included as Phase 2 in the contract mentioned above.

The funding for the vertical migration modeling (Phase 2) is currently being processed.

No change.

- b) Item 2 - Methods or options for non-invasive scanning of basalt to determine area and volume of contaminant mass prior to any drilling investigation.

The remediation consultant will research existing technology and advise the Navy if geologic conditions at Red Hill are amenable to using any currently available technology.

No change.

- c) Item 3 - Methods and locations for borings to most efficiently characterize the extent of contamination.

This is included in the contract (Phase 1a) mentioned above. The tank inspection may yield some information of the location of the release.

No change.

2. Release Response Action Items (initiate immediately, complete as soon as practicable)

- a) Action 1 - Provide a schedule for the ventilation of Tank 5 and an estimated date to commence the investigation of release point(s) within Tank 5.

The most current schedule is as follows:

- Contractor work plan approved by EXWC IOT commence preparation, venting, and equipment installation - COMPLETED
- Contractor mobilization - COMPLETED

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- Contractor venting preparations IOT stage and install venting equipment - COMPLETED
- Venting commenced - March 20
- Certified gas-free and entered - COMPLETED April 7
- Detailed visual inspection - COMMENCED April 24
- Detailed visual inspection of tank floor and lower dome - COMPLETED
- Contractor installation of lift equipment - COMPLETED
- *Visual inspection of Tank 5 wall - COMMENCED May 27*

- b) Action 2 - The rate of vertical migration for the released JP 8 free product is unknown. Information from the previously collected basalt cores could be used for initial modeling of vertical migration. This information is necessary to protect drinking water resources from petroleum contamination. Prepare models for petroleum JP-8 releases of 10,000, 20,000 and 30,000 gallons from points at 25% intervals from the bottom to the top of Tank 5. Progress in developing these models should be included in the preliminary work plan.

Previous borings and monitoring wells were installed in the lower access tunnel, which is located below the tank bottoms. In the interest of time, initial models for vertical migration of contaminant mass will assume the geology around the tanks is similar to the geology below the tanks.

As indicated in Item 1a above, funding for Phase 2 (Vertical Migration Modeling) is being processed.

No change.

- c) Action 3 - Removal of petroleum free product from the area outside the tank will reduce downward migration of the released JP-8 free product. Characterization of the free product plume and recovery of free product with increased monitoring are required to address this plume.

As indicated in item 1 above, Phase 1a (Site Characterization) was awarded on 23 May 2014. During this contracted effort, the feasibility of product recovery will be assessed and coordinated with the DOH.

No change.

- d) Action 4 - Additional studies and procedures are required to address the potential and impact of any future releases from the USTs within the Complex. This will require new financial and personnel resources to complete. Funding for the

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preliminary work plan and all necessary following work is critical.

The Navy awarded a contract on 28 March 2014 to update the Red Hill Groundwater Protection Plan and identify data requirements to improve groundwater and fate and transport models.

Additional monitoring well locations were submitted to the DOH on 16 May 2014 for review and approval. *The Navy received DOH approval for locations of two wells on 30 May 2014.*

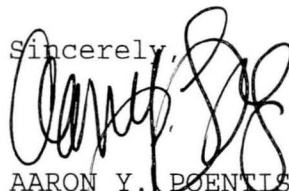
The contract for Phase 1a (Site Characterization) and Phase 1b (Installation of Sentinel Monitoring Wells) was awarded on 23 May 2014. Funds for Phase 2 are being processed (Vertical Migration Modeling). Phase 3 (Pilot Study) is being programmed for future funding considerations.

Preliminary analytical results for groundwater samples collected from monitoring well TAMC MW-2 indicated concentrations of TPH-diesel are above DOH EALs. No other contaminants of potential concern were detected above DOH EALs. These preliminary test results were relayed by telephone to DOH, the Army, and BWS. Potential sources of TPH-diesel in the nearby area are being researched.

Funds have been approved and are being processed to resample monitoring well TAMC MW-2.

If there are any questions regarding this matter, or if more information is needed, please contact me at (808) 471-1171, extension 226.

Sincerely,



AARON Y. POENTIS
Director
Regional Environmental Department
By direction of the
Commander

Copy to: LCDR Angela Watson, NAVSUP FLC Pearl Harbor
Walter Riddlehoover, DLA Energy Pacific

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Blind copy to: D. Loo, NAVFAC PAC EV