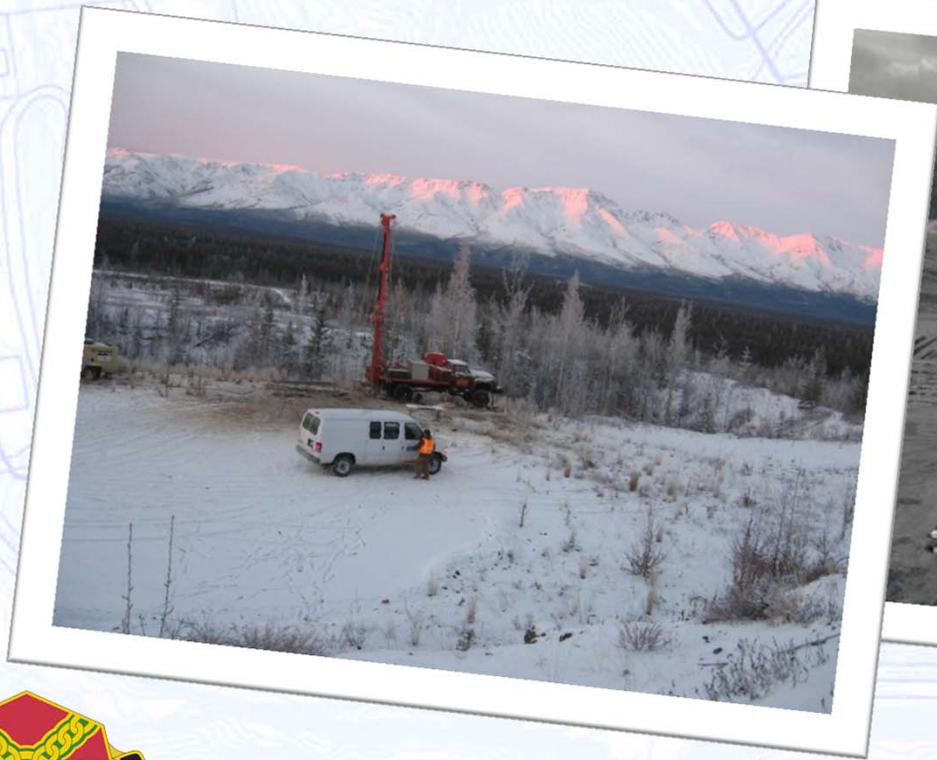


Former Tok Fuel Terminal, Alaska

Project Update



Tok Public Meeting
December 9, 2013



Presentation Contents

- Site Overview
- List of Facility Areas and Site Features
- Figure Showing Facility Areas and Site Features
- Previous Investigations Discussion
- Discussion of Known Areas of Concern and Nature and Extent of Contamination in Soil and Groundwater
- Path Forward
- Questions?

TFT – Site Overview

- Located 7 miles west of Tok Junction at Mile Post 1321 along the Alaska Highway.
- Former pump station and bulk fuel storage facility supporting former Haines to Fairbanks Pipeline.
- Operated from mid-1950s to 1979.
- Consisted of ASTs, USTs, piping, support buildings, residential buildings and landfills.

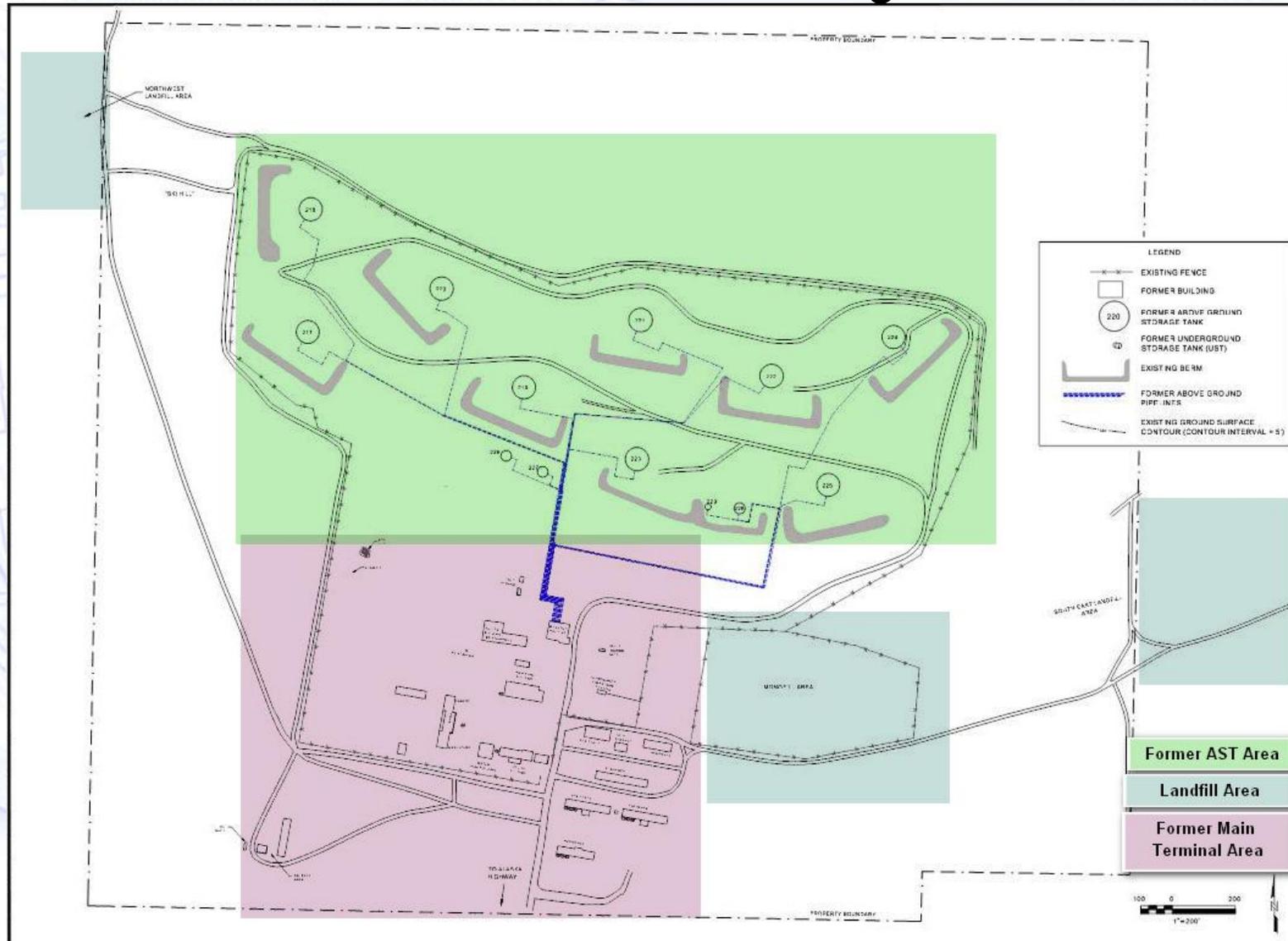


TFT - Facility Areas

Previous investigations have divided the site into 3 main areas:

- Main Terminal Area
 - Former Butler Building (Maintenance Building)
 - Former Manifold Building
 - Former Truck Loading Rack
 - Former Main Pump Building
 - Former Building 9-104 (Garage, Shop, Warehouse)
 - Former Burn Pit
 - Former Oil Rack Area
- Aboveground Storage Tanks Area (AST) (all Former)
 - 9 x 30,000 barrel ASTs
 - 2 x 5,000 barrel ASTs
 - 1 x 1,000 barrel AST
- Landfills
 - Northwest Landfill
 - Southeast Landfill
 - Monofill Landfill

TFT - Site Layout



TFT - Previous Investigations

1993 U.S. Army Pacific Environmental Health Engineering Agency Site Investigation

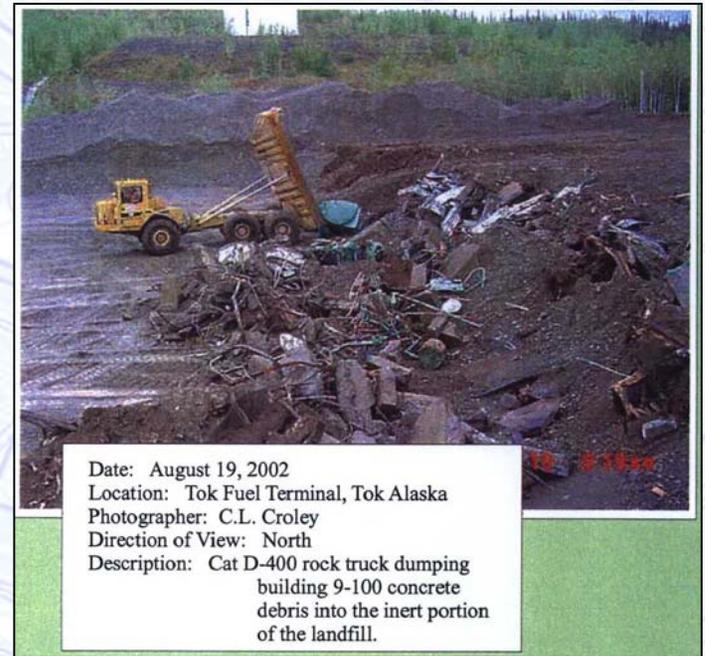
- Limited assessment of the AST Area.
- 7 soil samples collected; 5 soil samples collected down gradient from ASTs, 1 soil sample near truck loading rack, 1 background soil sample near AK Highway milepost 1321.
- All soil sample results below ADEC Method 2 under 40-inch per year Cleanup Levels (CLs) except one soil sample collected down gradient of Tank 217, which exceeded CL for DRO.
- Analytical methods in 1993 not as sensitive, and, likely not directly comparable to modern analytical methods.

TFT- Previous Investigations

Continued

2003 Remedial Action Report by HLA/Wilder

- Phase 1: Site Characterization Activities
 - Construction and survey of the Monofill Landfill.
 - Soil with benzene concentrations above ADEC CL was removed from the Monofill area and transported away for disposal.
 - Installation, development and sampling of 4 GW monitoring wells at periphery of Monofill. All sample results below ADEC Method 2 Table C Cleanup Levels.
- Phase 2: Construction and Demolition Activities
 - 31 Buildings were demolished and disposed of in the Monofill at the TFT.
 - Aboveground pipeline, including the fire suppression system pipeline, was removed and disposed of in the Monofill.
 - ASTs demolished and disposed on site in the Monofill.

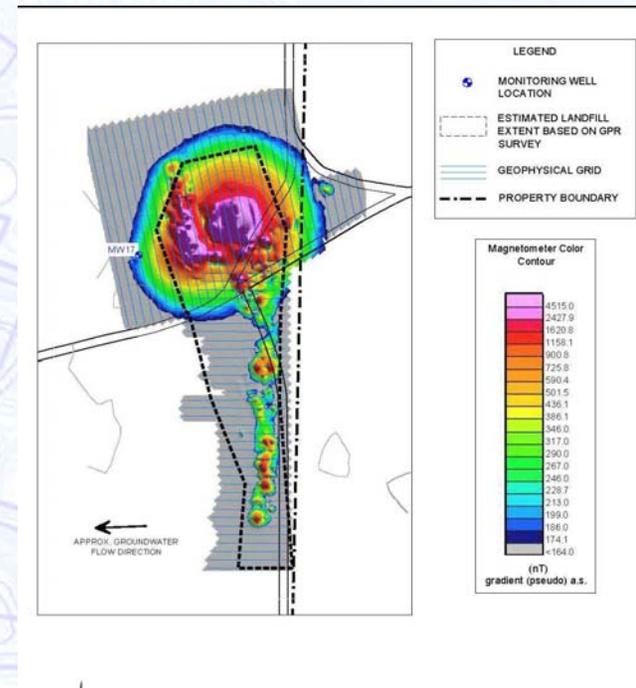


TFT- Previous Investigations

Continued

2007/2008 Remedial Investigation (RI) by North Wind/ AECOM

- Geophysical investigation confirmed the presence of two landfill; one in the NW portion of the property and the other in the SE corner of the property.
- Surface soil sampling identified lead, DRO, naphthalene, and chlorinated solvents in subsurface soil above ADEC CL in the AST Area and at 1 location in the Main Terminal Area (near the Maintenance Building).
- Subsurface soil sampling identified lead, DRO, RRO, and chlorinated solvents in the subsurface above cleanup levels near the AST Area, and in the Main Terminal.



TFT - Previous Investigations

Continued

2007/2008 RI by North Wind/ AECOM (continued)

- Test pitting adjacent to former AST locations identified 3 areas where DRO-impacted soil exceeded ADEC CLs.
- Test pitting confirmed the absence of USTs at 5 locations where geophysics detected magnetic anomalies.
- 14 groundwater monitoring wells were installed across the site, developed and sampled. DRO, RRO, SVOCs and a chlorinated solvent were detected above cleanup levels.



TFT - Previous Investigations

Continued

2012 Groundwater Sampling by USACE, Alaska District

All 24 groundwater monitoring wells were sampled in August 2012.

- No exceedance in 5 monitoring wells associated with the Monofill Landfill.
- DRO and RRO exceeded CLs in monitoring well downgradient of former AST 219.
- Bis-(2)-ethylhexylphthalate exceeded CL in monitoring well downgradient of former AST 218
- 7 monitoring well associated with the Main Terminal Area has exceedances for 1 or more of the following: DRO, PCE, bis-(2)-ethylhexylphthalate.



TFT - Known Areas of Concern and Nature and Extent of Contamination

Main Terminal Area

- Soil:
 - *Metals*: Lead, Total Chromium and Arsenic are attributed to background levels at the site. Hexavalent chromium not detected above CL.
 - *POL*: DRO detected above CL near the former Manifold Building.
 - *VOCs*: PCE detected above CL near the former Main Pump and Maintenance Buildings
 - *PAH*: Not detected above the most stringent CL
 - *Pesticides*: Not detected above the most stringent CL
 - *Dioxins and Furans*: Not detected above the most stringent CL
- Groundwater:
 - *Metals*: Manganese and Lead detected above CLs
 - *POL*: DRO detected above CL near the former Main Pump Building
 - *VOCs*: PCE detected above CL near the former Main Pump and Maintenance Buildings

TFT - Known Areas of Concern and Nature and Extent of Contamination

AST Area

- Soil:
 - *Metals*: Lead was detected above CL near AST 222
 - *POL*: DRO detected above CL near AST 221
 - *VOCs*: Not detected above the most stringent CL
 - *PAH*: Not detected above the most stringent CL
 - *Pesticides*: Not detected above the most stringent CL.
- Groundwater:
 - *Metals*: Not detected above the most stringent CLs
 - *POL*: GRO was detected above CL. DRO was detected below the CL.
 - *VOCs*: Not detected above the CL.



TFT - Known Areas of Concern and Nature and Extent of Contamination

Landfills

There are 3 landfills located at the TFT:

1. Northwest Landfill - Located on the NW side of, and slightly outside of, the property boundary. Reportedly used for construction debris and household waste during mid-1950s.
2. Southeast Landfill - Located on the SE side of, and slightly outside of, the property boundary. Reportedly used for construction debris and household waste until facility was closed in 1979.
 - *TCE was detected above CL in a soil sample collected from the Southeast Landfill.*
3. Monofill Landfill - located on the northeast side of the Main Terminal and within TFT property boundary. Used for disposal of demolition debris, piping, building, and AST demo debris. Operated 2002-2003. Permitted by ADEC.



TFT - Path Forward

- Under newly awarded contract develop comprehensive list of past actions at the TFT; including but not limited to operations, remedial actions, remedial investigations, demolition and decommissioning activities, soil and groundwater sampling.
- Compile a list of site features at the TFT, compile data for each site feature, compile records of closure for site features.
- Based on comprehensive data compilation and analysis, determine data gaps existing at the TFT site and document them in a Historical Remedial Investigation Report and provide recommendations on how to fill them.

TFT – Army Path Forward

- Evaluate Community Interest in establishing a Restoration Advisory Board for Tok and Sears Creek
- Evaluate Contractor's lists of past activities, site features, data gaps and programmed investigations
- Provide electronic access to these records and recommendations
- Continue to move forward on existing actions to ensure completion of the investigation
- Would the Restoration Advisory Board/Community members like to see additional details at the next meeting?

Former Tok Fuel Terminal

Questions?

