



Quarterly Provisional Data Release OIL AND HAZARDOUS SUBSTANCE RELEASES

PREVENTION AND EMERGENCY RESPONSE PROGRAM
DIVISION OF SPILL PREVENTION AND RESPONSE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

OCTOBER 1 - DECEMBER 31, 1997

SIGNIFICANT RESPONSES

Elmendorf AFB-Aero Club

Spill Date: 10/28/97
Product: JP-8 (jet fuel)
Quantity: 100,000 gallons
Cause: Crack in pipeline

A snow removal crew working in the area discovered jet fuel pooled on soil in an area about 100 yards long by 50 yards wide by 1 foot deep. Using vacuum trucks, approximately 16,000 gallons were recovered from the surface. Another 84,000 gallons are presumed spilled into the ground. The underground plume was estimated to be about 500 feet by 200 feet. Fourteen wells were drilled within the spill plume to serve as recovery wells. An additional ten wells were drilled outside the plume and will serve to define the extent of the plume and as detection wells for any plume migration. Staff will continue overseeing fuel recovery operations to determine its effectiveness or whether additional recovery efforts should be pursued.



Truck Rollover

Location: Milepost 289 Dalton Highway
Spill Date: 11/11/97
Product: #1 Heating fuel
Quantity: 5,500 gallons
Cause: Truck rollover

A truck left the road and rolled over, puncturing its tanks and resulting in a loss of 5,500 gallons of diesel fuel. Fuel traveled down a ditch, through a culvert and onto ice adjacent to the Kuparuk river. A diversion ditch was constructed above the spill site to divert most of the water. An inverted weir was created to prevent further migration of the fuel. The site will be monitored over the winter and cleanup will continue in the Spring.



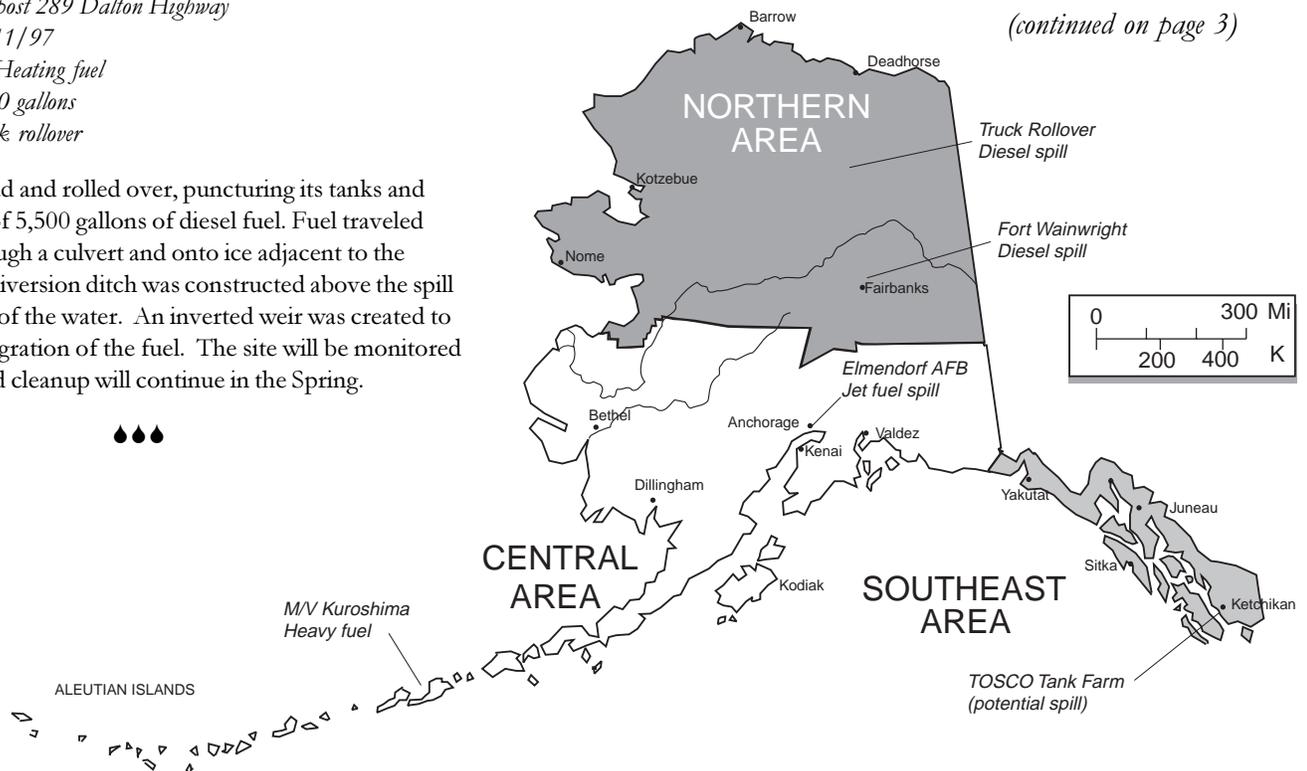
One of the tanks damaged by a landslide in Ketchikan.

Wainwright Water Plant

Spill Date: 11/25/97
Product: Arctic Diesel
Quantity: 5,200 gallons
Cause: Valve on day tank left open

The valve on a day tank was left open, resulting in the release of approximately 5,200 gallons of arctic diesel. Responders moved 80

(continued on page 3)



SPILL NEWS

DRILLS

A two day spill drill was held in Valdez. The table top drill was sponsored by Tesoro and centered around a 2,800 barrel crude oil spill in Port Valdez. Resource tracking was a focal point of the state response and a "T-card" system was used to display and track equipment and personnel to support response decisions.



COMMUNITY SPILL RESPONSE AGREEMENTS

Community Spill Response Agreements with Aniak, Port Alexander, Thorne Bay and Bethel were signed. The Department now has agreements in place with the following communities:

- Fairbanks North Star Borough
- North Slope Borough
- Kenai Peninsula Borough
- City of Mountain Village
- City of Aniak
- City of Bethel
- City of Haines and Haines Borough
- City of Ketchikan
- City of Petersburg
- City of Kake
- City and Borough of Juneau
- City and Borough of Sitka
- City of Hoonah
- City of Tenakee Springs
- City of Skagway
- City of Port Alexander
- City of Thorne Bay

Agreements are currently being negotiated with the Municipality of Anchorage, the City of Nome, the Kodiak Island Borough, and the City of Unalaska. A generic agreement, intended for use in situations where there is no standing agreement with the affected community, was signed by the Commissioner on February 4, 1997.



SPILL RESPONSE PREPAREDNESS

The Southeast Hazardous Materials (Hazmat) Working Group met on October 22, 1997 to discuss the strategy for improving the defensive response capabilities in Southeast communities. The group agreed to hire a DEC term contractor to coordinate and facilitate training and technical assistance visits to communities which face the risk of exposure to a release from an extremely hazardous substance (EHS). The team will provide

ammonia and chlorine training to first responders, provide general awareness training to the local populace, and provide non-regulatory technical assistance to facilities which use EHS chemicals. Representatives from Haines Borough, Petersburg, Juneau, Ketchikan, Marine Safety Office Juneau, USCG District Seventeen, and DEC staff attended the meeting.



The two new North Slope dedicated fixed VHF radio repeaters and base station have been installed and tested. Both repeaters are reachable by the base station located at the DEC office in Deadhorse. One repeater has been located at ARCO's CPF #3 site and the other at the ARCO Lisburne facility. The Department of Administration Telecommunications Branch installed the repeaters, and ARCO contractors installed the antennas and the cable at each site under an agreement with DEC. ARCO will provide space and power for the two repeaters at no cost to the State. This project greatly enhances the State's in-place communications capabilities on the North Slope.



OIL-RELATED RESEARCH

The Research and Development (R&D) Committees on Analytical Development for Chemical Emergencies, Chemical Properties and Behavior, Physical Properties and Behavior of Oil Spills, Surveillance and Monitoring of Oil Spills, and Oil Spill and Countermeasures Effects met at Environment Canada's Environmental Technology Center in Ottawa, Canada on December 9-12. U.S. and Canadian R&D representatives from government, industry, and academia met to discuss current and proposed oil-related research projects. The meeting was an important information-sharing opportunity and DEC's presentation and participation was welcomed. Several opportunities for coordination with proposed research efforts by Environment Canada, the U.S. Minerals Management Service and other agencies were noted. The potential for coordinating efforts and leveraging DEC projects to support research in areas directly applicable to Alaska's oil spill response industry.



(continued from page 1)

SIGNIFICANT RESPONSES

cubic yards of heavily contaminated snow from the spill site to a storage pit. All freestanding liquids were removed using a vacuum truck and sorbents. Bobcats were used in lieu of heavy loaders for snow and soil removal operations in the contaminated area to limit damage to the tundra.



M/V Kuroshima

Location: Summer Bay near Dutch Harbor

Spill Date: 11/26/97

Product: Heavy fuel oil

Quantity: 47,000 gallons

Cause: Vessel grounding

The Japanese-owned freighter M/V Kuroshima ran aground November 26 near Dutch Harbor, killing two crewmen and spilling an estimated 47,000 gallons of heavy fuel oil into Summer Bay and Summer Lake. A large amount of oiled debris and some of the spilled oil have since been recovered. The fuel oil remaining on board the damaged ship was pumped to onshore storage tanks and will be shipped to a disposal site outside Alaska.

Additional information about this incident and ongoing salvage operations is available on the internet at <http://www.state.ak.us/local/akpages/ENV.CONSERV/dspar/perp/krshn.htm>



TOSCO Tank Farm (potential spill)

Spill Date: 2/13/97

Location: Ketchikan

Product: #2 Diesel

Quantity: 275,000 gallons (POTENTIAL)

Cause: Land slide

A land slide in Ketchikan behind the TOSCO fuel tank farm badly damaged one tank. The tank was half full and was able to sustain significant bangs and denting from rocks and trees without rupturing and spilling its contents. The fuel was removed from the damaged tank and TOSCO hired a geologist to evaluate the stability of the bank and a structural engineer to evaluate the damage to the tank. The Department will work with TOSCO to determine if the facility needs to revise their Contingency Plan.



SPILLS DIGEST

Most common spill substances, causes and sources during the quarter. Hazardous substances (HS) releases are typically reported in pounds. Oil and other liquid releases are typically reported in gallons.

TOP 10 SUBSTANCES

Product Name	Count	Oil (gal)	HS (lbs)
1 Diesel	94	18,887	
2 Hydraulic Oil	57	1,554	
3 Other/Unknown	50	42,953	
4 Aviation Fuel	43	101,297	
5 Gasoline	22	479	
6 Engine Lube Oil	16	627	
6 Produced Water	16	8,969	
7 Ethylene Glycol (Antifreeze)	13	630	
8 Crude	12	313	
9 Ammonia (Anhydrous) *	9		49,144
10 Bilge Oil	7	171	



TOP 10 SPILL CAUSES

Cause	Count	Oil (gal)	HS (lbs)
1 Leak, Other	82	7,973	
2 Line Ruptured	46	1,021	100
2 Tank Overfill	46	2,450	
3 Other/Unknown	36	101,133	3,009
4 Valve Faulty	29	1,062	20,446
5 Valve Left Open	21	6,518	24,358
6 Seal Failure	18	2,065	
7 Cargo Not Secured	13	133	23
8 Overturn/Capsized	10	6,126	
9 Collision	9	432	
10 Intentional Release	8	62	30



TOP 10 SPILL SOURCES

Source	Count	Oil (gal)	HS (lbs)
1 Other/Unknown	70	5,776	237
2 Home/Office/Business	49	4,930	1
3 Truck	45	5,877	2
4 Industrial Vehicle	39	648	33
5 Refinery	23	801	46,644
6 Airport	18	206	
6 Aircraft	18	1,115	
7 Fishing	17	1,726	
8 Auto	12	69	
9 Well	11	162	
9 Pipeline	11	104,878	
9 Other Vessel	11	41,346	3,000
10 Platform	9	976	

1998 CALENDAR

DRILLS

Note: The drills listed on this schedule are those which the DEC staff are currently planning to participate in (budget and workload permitting). An asterisk () denotes a major drill.*

- March 1998:** Canadian CG/USCG Beaufort Sea Planning Meeting
April 1998: USCG Cruise Ship Disaster Training
Aug 6, 1998: Mutual Aid Drill; North Slope*
Fall 1998: PWS Tanker Drill*



MEETINGS

- January 7:** SERC meeting, Kenai
January 7-8: Sea Ice Symposium; University of Alaska, Anchorage
January 27: SEAPRO Unified Plan review session, Juneau
January 29-30: EXXON VALDEZ Oil Spill Restoration Workshop, Anchorage
February 24-26: National Response Team Meeting, Atlanta
March 15-17: Oil Spill Recovery Institute Board Meeting, Prudhoe
March 18-19: Dispersant Workshop, Anchorage
March 24-26: ASTM F-20 meeting, Memphis

DEFINITIONS & ABBREVIATIONS

Crude Oil (CRU): unrefined petroleum products.

Refined Oil (REF): refined petroleum products, including gasoline, diesel, petroleum-based lubricants, oily waste, kerosene, and aviation fuel.

Hazardous Substance (HS): any substance not included in the above definitions that is potentially harmful to humans or the environment when it is released to land, air, or water.

Note: Releases are reported to the Department in Gallons (gal) or Pounds (lbs). However, in order to summarize data in bar graphs, releases reported in gallons are converted to pounds using 8.33 as a conversion factor.

PLEASE NOTE... THIS REPORT IS BASED ON PROVISIONAL SPILL DATA. READERS SHOULD BE AWARE THAT MINOR DISCREPANCIES IN THE DATA MAY EXIST.

SEND COMMENTS AND SUBSCRIPTION REQUESTS... TO THE "QUARTERLY SUMMARY OF OIL AND HAZARDOUS SUBSTANCE RELEASES," SEND YOUR NAME AND ADDRESS TO: CAMILLE STEPHENS, 410 WILLOUGHBY AVE., JUNEAU, AK 99801, OR EMAIL:

CSTEPHEN@ENVIRCON.STATE.AK.US



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