



**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Spill Prevention and Response**  
**Prevention Preparedness and Response Program**  
***SITUATION REPORT (SITREP)***

**CHANGES FROM PREVIOUS SITREPS ARE DENOTED IN RED**

## **CIPL Drift River Crude Oil Spill**

**SITREP #: 3**

**SPILL #: 16239918401**

**TIME/DATE OF DISTRIBUTION:** 3:00 p.m. August 16, 2016

**POTENTIAL RESPONSIBLE PARTY (PRP):** Cook Inlet Pipeline Company (CIPL)

**INCIDENT LOCATION:** Drift River Terminal Facility (DRT facility), west side of Cook Inlet (Lat/Long: 60.602627/-152.174166)

**TIME/DATE OF SPILL:** There were two spills discovered associated with over pressurization of the 20-inch fill line. The first spill was discovered on July 2, 2016. The second spill was discovered on July 28, 2016.

**HOW/WHEN SPILL WAS DISCOVERED AND REPORTED:** The spill reported on July 2 was discovered while a CIPL operator at DRT facility was conducting a facility inspection. The spill discovered at 5 p.m. on July 28 was found while CIPL staff was conducting an inspection of the areas above the buried 20-inch fill line. This spill was reported to ADEC on July 29 at 8:45 a.m.

**TYPE/AMOUNT OF PRODUCT SPILLED:** On July 2, CIPL reported 14 gallons of crude oil inside a valve box and one gallon to the ground. On July 29, CIPL reported a crude oil stain at the surface of one of the buried 20-inch fill line blind flanges in the pipe corridor between tanks 1 and 4. The quantity of this spill is unknown. The stain area was reported by CIPL to be 24 feet by 24 feet by 30 feet (triangular surface measurement). **On August 10, free product was discovered while excavating a buried flange between tanks 2 and 3. The total spill volume is unknown at this time. CIPL will submit a spill volume estimate based on waste generated as part of the final report to ADEC.**

**CAUSE OF SPILL:** Over pressurization of the 20-inch fill line while emptying two tanks in preparation for internal inspection.

On June 25, 2016, CIPL conducted an operation to pump down two tanks at the DRT facility and transfer their contents to one of the 270,000-barrel crude oil storage tanks approved for use. The procedure used by the DRT facility indicated the transfer was being made to Tank 4. However, the two tank contents were being transferred into Tank 3. The operation was being initiated at the same time that crude oil from the CIPL Crude Oil Transmission Pipeline (COTP) was being received into Tank 3 through the 20-inch fill line. When transfer from the CIPL COTP was terminated for the day, the controller at the Kenai Gas Field closed the fill valve to Tank 3. At that time the pump used to draw down the two tanks was still operating. Closing the fill valve to Tank 3 closed off the flow path of the oil from the two tanks into Tank 3. Due to the operations being conducted



simultaneously, the closure of the valve to Tank 3, and the continued throughput from the two tanks, the 20-inch fill line was over-pressurized.

**SOURCE CONTROL:** The 20-inch fill line has been isolated and shut down. The crude oil in the 20-inch line is being transferred to a marine tanker that arrived yesterday.

**RESPONSE ACTION:** On August 10, CIPL discovered free floating oil (product) when they excavated a buried flange located between tanks 2 and 3. CIPL exposed the top ¾ of the flange when groundwater intrusion occurred, at which point the free product started to gather at the excavation center point and rise up with the groundwater. Since further excavation at the center point will spread the oil, CIPL delineated the contamination by excavating test holes from the 50-foot square edge and working towards the excavation center. This was accomplished by using 10-foot grid pattern and reducing the grid pattern to 5-foot as they neared the excavation center. The delineation showed contamination extended only a few feet outside of the initial excavation area. Once the delineation was complete, the environmental contractor for CIPL collected soil and water sample for analysis. CIPL collected the free product in the excavation area using sorbent pads. Approximately 60 sorbent pads were used to collect the free product. No additional product has been observed seeping into the excavation area.

Once the delineation was completed at the free product location between tanks 2 and 3, CIPL and their contractor commenced delineating the surface oil stained area that was discovered on July 28 between tanks 1 and 4. CIPL used similar grid system using probes and excavating test holes to delineate the area. The horizontal extent of contamination has been determined to be approximately 40 feet by 60 feet.

The marine tanker arrived yesterday at 4:30 p.m. to de-inventory the crude oil from the 20-inch and 4-inch line and from the tanks. The de-inventorying activity is anticipated to continue until evening today.

Sheet pilings required to prevent soil from sloughing into the excavation is anticipated to arrive at the Drift River Oil Terminal facility over the weekend. Once the sheet pilings arrive, CIPL can commence contaminated soil excavation activities.

Permits required for dewatering has been submitted to ADEC and approved. Dewatering permit is required to address any water that may intrude into the excavation area.

ADEC conducted two site visits, on August 10 and August 15, to the Drift River Oil Terminal facility since the last SITREP.

**RESOURCES AT RISK:** No impacts to wildlife have been reported. Rust Slough/Drift River are adjacent to the facility and flow into Redoubt Bay of Cook Inlet. Terrestrial mammals (bears, moose) and nesting waterfowl may be present in the area.

**FUTURE PLANS AND RECOMMENDATIONS:** CIPL will commence contaminated soil excavation activity once the sheet piling shipment is received. CIPL and ADEC will discuss the future of the 20-inch line and testing required for the line.

The next ADEC site visit is scheduled for Thursday, August 18.

ADEC staff will conduct regular site visits to Drift River, currently set for twice a week, to monitor activities.

**WEATHER:** Today: Sunny. High near 65°F. East-southeast winds at 5 to 10 mph, increasing to 15 to 25 mph. Partly cloudy this evening followed by increasing clouds with showers developing after midnight. Lows near 54°F. Winds east at 15 to 25 mph. Chance of precipitation is 60 percent. Tomorrow: Windy. A steady light rain in the morning with showers continuing in the afternoon. Highs in 59°F. Winds east at 20 to 30 mph. Chance of precipitation is 70 percent.

**TIME/DATE OF THE NEXT REPORT DISTRIBUTION:** As the situation warrants.

**FOR ADDITIONAL INFORMATION CONTACT:** Young Ha, ADEC, (907) 269-7544  
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[http://dec.alaska.gov/spar/ppr/response/sum\\_fy16/160702201/160702201\\_index.htm](http://dec.alaska.gov/spar/ppr/response/sum_fy16/160702201/160702201_index.htm)



*Photo 1: Foreground - Surface stain above buried flanges between tanks 1 and 4, which was discovered and reported on July 28, 2016. Background – Delineation activity where free product was observed, August 10,*

**AGENCY/STAKEHOLDER NOTIFICATION LIST:** Please refer to the first SITREPs distributed August 2 and 9 for the agency/stakeholder notification list. The link to the SITREPs can be found in the **Additional Information** box above.