Enbridge Pipeline 6A Oil Spill, Romeoville, IL

Friday, September 10, 2010
(Distribution to EPA Staff)

Daily Activities Schedule

Meetings/Calls/Briefings

0900 Unified Command Meeting
1530 Press Briefing
1600 Unified Command meeting

Elected Officials Events

U.S. Congresswoman Judy Biggart visited the site today and met with IC Sam Borries.

Daily Briefings/Reports:

Attachment A	Daily Site Operations Briefing
Attachment B	Operational Outlook
Attachment C	Work Assignment Report
Attachment D	Daily Representative Media Clips
Attachment E	Trend Data - Product in Select Monitoring Wells

Daily Site Operations Briefing
(Attachment A)

- Oil Spill Status Update
  - Representatives of EPA, IEPA, City of Romeoville and Enbridge were on-site today. EPA and Enbridge are operating in a Unified Command structure for organizing site operations.
  - The Oil Pollution Trust Fund was opened yesterday, and the FPN ceiling was set at $150,000.
  - Personnel safety at the scene was good today. There have been no reported accidents.
  - The weather conditions during daylight hours today have been very good: a high temperature of about 75 degrees F, mostly sunny, low humidity, and no rain. However, rain is in the forecast for tomorrow and Sunday.
  - EPA issued an order to Enbridge today under the Oil Pollution Act to set milestones for cleanup activities to ensure work progresses timely.
  - There are over 200 people on-site, including Enbridge and its contractors, EPA and its contractors, local police and fire, IEPA, PHMSA, USCG, and USFWS. NTSB will arrive tonight.
  - There are schools in the area and they remain open, but buses were canceled today, because the marshalling yard for the buses is in the spill area and the buses couldn't leave.
  - EPA and Enbridge have been conducting 24 hour operations at the site since yesterday and will continue into the foreseeable future.

- Background on Initial Spill Events:
  - Enbridge noticed the spill at about 1230 hours (all times CDT) Thursday September 9, 2010, and reported it to the NRC at 1313 hours same day. An IEPA OSC arrived on site at 1407. A local fire department received an odor report at about 1145 that morning and started tracking it. EPA OSCs arrived at 1545.
  - The spill site is roughly 0.6 miles west of the Des Plaines River and 0.9 miles west of the Chicago Sanitary and Ship Canal; it also is about 200 yards east of IL Highway 53, and approximately 3.5 miles southwest of the intersection of Interstate 355 and Interstate 55. The address of the spill site is roughly 719 Parkwood Ave, Romeoville, IL. The areas east of Highway 53 near the spill area are industrial, and the areas west of Hwy 53 are mostly residential.
  - The break occurred in roughly the middle of a 2.9 mile segment of pipeline carrying crude oil. (That is, in between two valves on the pipeline 2.9 miles apart.) These valves were shut at the time the spill was detected. Enbridge estimates that about 17,000 barrels (bbl, approximately 714,000 gallons) of oil was contained within the 2.9 miles of pipe at the time the valves were shut. Of that, approximately 6,000 to 8,000 barrels (~252,000 to 336,000 gallons) of oil remain in the pipeline in an area geographically "above" the leak site, thus will flow naturally down-gradient to the point of the leak. Note that this 6,000 to 8,000 bbl quantity is a ballpark estimate and doesn't represent spill volume, which is unknown. As of now Enbridge has no way of recovering oil remaining inside the pipeline (e.g., no access ports on the line) so they are letting it leak slowly and recovering it from the ground. They will try to recover oil from inside the pipeline tomorrow. They

are not excavating soil around the break site because the soil is providing resistance and slowing the flow of oil from the broken section of pipe.
  - The pipeline is 34 inches in diameter and is approximately 5 feet underground at the top of the pipe at the break site. It originates in Superior, Wisconsin and terminates at the Enbridge terminal in Griffith, Indiana.
  - Oil leaking from the break site flowed up to ground surface, along a road, then into a sanitary sewer system and also into a storm sewer that flows into a drainage ditch.
  - The local POTW, which is the Romeoville South Plant, captured all of the oil that reached it via the sanitary sewer, and none was released from the POTW. The POTW however had to install plugs in that sewer line and these plugs have disabled use of that sewers in the area, which is affecting several nearby businesses. The POTW also had to bypass its sewage treatment operations at about 1230 yesterday because of intake of oil, and reroute incoming sanitary water to a treatment lagoon. It cleaned the oil from its system and attempted to restart its sewage treatment operations yesterday evening, but received more oil. It did not begin treating sewage again until about 1400 today. The treatment lagoon is still being bypassed however. The POTW believes it can handle rain events over the weekend without exceeding storage capacity. Enbridge may have to pump out the waste and oil from the treatment lagoon and ship it off for treatment..
  - The oil that reached the drainage ditch flowed eastward several hundred feet into a man-made retention pond several acres in size. This pond outlets on the east side to a creek which eventually flows into the Des Plaines River. The oil was captured in the retention pond however and we believe none has flowed into the creek on the east end. As a precaution, the connection from the retention pond to the creek has been blocked, and boom has been deployed in the creek. Skimmers were placed on the pond and are operational now.
  - The endangered Hines Emerald dragonfly has a habitat in the area near the spill site.

- Containment and Recovery Operations
  - Enbridge reports that it currently is recovering between 200 and 600 barrels (bbl) per hour from the spill site, ditch and retention pond. This represents 8,400 to 25,200 gallons (or between approximately 1% and 10% of estimated oil spillage quantity) being recovered per hour. They are shipping the recovered oil to a Citgo Refinery about two miles from the spill site. This refinery is the destination of this pipeline.
  - Wildlife impact is limited thus far; someone noted an oiled turtle and muskrat near the retention pond. Enbridge is planning to set up a wildlife rehab area.

- Sampling/Monitoring
  - Enbridge is conducting air monitoring in the area. They have detected benzene and VOCs but not outside of about 100 feet of spill zone. They are monitoring in areas around schools and in residential and industrial areas and report that no communities are affected. EPA is mobilizing air monitoring resources to the site.
  - Air monitoring supports continued use of level D PPE outside of the spill area. Inside the spill area respiratory protection is required.
  - Enbridge placed Summa air sampling canisters at a nearby school today but did not warn the school district or fire department. A bomb threat later was called into 911, which turned out to be one of the Summa canisters.

- Remediation Operations
  - None to report yet

- Residential Issues
  - Enbridge reports that it has done air monitoring in neighborhoods and around a school today and that all sampling results were non-detect for all chemicals monitored, including benzene, hydrogen sulfide and total volatile organic compounds.

- Congressional – Public Affairs
  - U.S. Congresswoman Judy Biggert visited the site today and spoke to IC Borries.
  - RA Hedman and IC Borries conducted a press briefing at 1600 and then individual interviews later in the day. IC Borries also had a conference call of congresspersons and staff at 1500 today. Congresswoman Biggart also attended this call.

- Public Involvement
  - Enbridge has established a telephone hotline for the public, 877-440-7158, and a press hotline, 888-992-0997.
  - PIO Anne Rowan was on-site today handling public involvement issues. Enbridge has two PIOs assigned to the site also.

Operational Outlook
(Attachment B)

- EPA continues to conduct daylight operations.
- EPA has three OSCs, and two STARTs on day shift. No OSCs or START personnel are on-site for night ops. BP is conducting dewatering in the excavation and sewer monitoring over the night shift.
- No CICs or PIOs were needed this week.
- A total of approximately 30 personnel were on scene today, including BP, BP contractors, government agencies (federal, state, and local), and government contractors.
- BP is operating two ICE (internal combustion engine) units to burn vapors and extract product from wells north of 175th Street. A vac truck is removing product from several wells in 175th street and the wells newly installed this week.
- Status of total materials removed as of yesterday:

Waste Stream	9/8 Totals to Date
Oily liquids	321,614 gallons
Oil Product	17,679 gallons
Oily Soil	~ 525 tons*
Debris (concrete, asphalt)	~ 30 tons*

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* Volume estimates only at this time. Certified weights (tonnage) values will be provided as reported/disposed at the TSDF.

Work Assignments
(Attachment C)

1. Incident Name	2. Date Prepared	3. Time Prepared	Work Assignments
BP White Oak Oil Spill Response	9/9/2010	1700 hours	
4. Unit Name – Operations	**5. Unit Leader – OSC Jim Mitchell**		**6. Operational Period Date / Time 9/10/10 0700hrs - 9/11/10 0700hrs**

7. Work Assignments		
Organization	**Objective**	**Comments**
BP	Continue excavating around water mains as necessary to investigate impact to lines that may need replacement.	Completed
BP	Continue to pump and collect oil and water and maintain boom as necessary.	Ongoing
BP	Continue to conduct air and sewer monitoring in the work zone and the residential area.	Ongoing
BP	Continue assessment activities for determining the extent of contamination remaining in the excavation area and surrounding properties (Source release area). Continue hand auger sampling and geoprobe boring.	Completed
BP	Utilize Geoprobe/hand augers to assess 8" water main on south side of 175th Street.	Completed
BP	Conduct air monitoring in residential areas and screening for vapors in residences when requested.	Ongoing
EPA	Oversee BP as they conduct air monitoring in residential areas and screening for vapors in residences when requested.	Ongoing
EPA	Oversee operations.	Ongoing
EPA	Review plans submitted by BP for addressing remaining contamination and discuss strategy with BP	Ongoing
EPA	Perform residential vapor intrusion screening via TAGA bus	Completed
EPA	Conduct air monitoring inside and in front yard of property at 7450 White Oak (owner requested that EPA conduct sampling)	Completed

Daily Representative Media Clip
(Attachment D)

No media clips today

Trend Data - Product in Select Monitoring Wells
(Attachment E)

The updated gauge data is attached to the transmittal e-mail for this Daily Activity Report.