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Enbridge Marshall Pipeline Release  
Oil Containment  
and Recovery Plan  
Enbridge, Marshall Michigan

July 29, 2010

Prepared by URS Corporation

As required in the Federal Response Framework and Area Contingency Plans, Enbridge Energy, Limited Partnership (Enbridge) owns and maintains extensive emergency response equipment throughout its operating liquids pipeline system. In addition, Enbridge has working agreements with qualified contractors to supply supplemental resources in the case of a significant case discharge scenario.

For the Enbridge Marshall, Michigan pipeline release, Enbridge has enacted its Emergency Response Plan to provide a rapid and comprehensive response. Oil Spill Response Organizations (OSRO) as classified by the United States Coast Guard (USGC) have been deployed in force along with other HAZWOPER trained contractors for the recovery and containment of oil.

Enbridge, in tandem with the Unified Incident Command Organization, has developed objectives for the recovery and containment of oil which are intended to be protective of human health and the environment:

- Remove the ongoing active source of crude oil by shutting down oil flow to the ruptured pipeline. This objective was completed;
- Remove the ongoing residual source of crude oil to Talmadge Creek via installing berm(s) between the pipeline and Talmadge Creek;
- Remove and/or treatment of crude oil and impacted media in the vicinity of the pipeline release;
- Containment and recovery of oil at the Talmadge Creek flume via continued engineering controls, deployment of water-based skimmers and booms; and
- Containment and recovery of recoverable oil in Talmadge Creek and the Kalamazoo River via a system of water-deployed booms and skimmers.

A zone-based system to strategically recover oil as safely and quickly as possible has been implemented. These zones include:

- Division A: Leak Site to Downgradient Flume
- Division B: Flume Site to Fourteen Mile Rd.
- Division C: Fourteen Mile Rd. to Ange
- Division D: Linear Park to County Line
- Division E: Kalamazoo County

Resources to individually address each of these zones have been organized and deployed to contain and collect oil. As of the date of this plan, the following resource have been deployed to address the containment and recovery of oil:

- 250 personnel as of July 28, 2010 with an expected peak of over 450 personnel;
- 12 boats
- 12,310 feet of boom
- 13 high volume oil skimmers

- 46 vacuum trucks
- 17 light plants (for night time illumination- 24/7 operations)
- 60 portable frac tanks

This plan and resources will continue to be modified to reflect ongoing and/or changing conditions.