Nov. 6, 2007

WASTE MANAGEMENT PLAN (FINAL)
Kinder Morgan Canada – Westridge Delivery Pipeline Release

1.0 INTRODUCTION

This Waste Management Plan (WMP) has been prepared to address and document the methods and procedures for waste management in response to the Kinder Morgan Canada (KMC) – Westridge Delivery Pipeline Release. KMC will follow the guidelines outlined in this plan as well as the conditions specific to the BC Waste Generator # 41132. Approximately 224 m^3 (1400 bbls), as of July 30, 2007, of crude oil was released into the environment from a pipeline rupture on July 24, 2007. The spill impacted the roadway, storm and sanitary sewers, several residences and property and migrated into foreshore areas fouling vegetation, large organics (logs), soil/sediment, and wildlife. The overall spill response action will include (but not be limited to) collecting, handling and shipping waste for disposal.

1.1 PURPOSE

The WMP describes the methods that KMC will employ to manage wastes generated by the incident response. The WMP is to be considered a living document and will be revised as required. Any changes to the WMP will be communicated to the Unified Command in a timely manner.

1.2 PERSON IN CHARGE

KMC will exercise diligence to ensure all responders follow the provisions of the plan.

2.0 WASTE PROFILES

Wastes that may be generated as a result of the incident response are described in the following sections.

2.1 OIL AND OILY LIQUID WASTES

Waste in this category includes:

a) Decontamination waste (contaminated water)
b) Mobilized oil/oily water

2.2 OILY SOLID WASTES

Waste in this category includes (but is not limited to) the following:

a) used oily boom
b) other used oily sorbent materials
c) used oily personal protective equipment
d) decontamination waste (oily rags, sponges, mops, etc.)
e) used oil expendable response equipment and consumables contaminated oil
f) oily wood, debris removed

g) oily vegetation removed
h) oil contaminated soils/sediment removed
i) oil contaminated peat sorbent
j) oil stained asphalt and concrete

2.3 NON-OILED WASTE GENERATED FROM RESPONSE OPERATIONS

Waste in this category includes (but is not limited to) the following:

a) household garbage
b) sewage
c) other

2.4 DECEASED WILDLIFE

Oiled and non-oiled deceased wildlife is considered a potential biohazard. Special care should be taken to avoid close contact with deceased wildlife. For deceased wildlife, a hotline has been established to notify Lana Emo of Focus Wildlife (310) 387-7544. Focus Wildlife will recover and secure deceased wildlife and notify the Provincial Emergency Program for government agency direction/instruction.

3.0 WASTE STREAM IDENTIFICATION & HANDLING

All waste will be characterized according to the BC Hazardous Waste Regulation. All waste, with the exception of household waste and asphalt will be considered hazardous unless otherwise determined by analytical testing, etc.

KMC will have personnel, or their designate, on site at the generation point tracking all waste streams accumulated and transported to the designated final disposal site for the specific waste type. KMC, or their designate, will establish a tracking system and method for onsite crews to properly segregate waste streams at the point of generation prior to removal.

KMC, or their designate, will have personnel onsite at the generation point to provide waste tracking logs to waste management personnel so that proper space is made available on the receiving waste facility for acceptance of the waste generated.

Should KMC have to deviate from their original BCG Registration (i.e. one of the registered facilities becomes unable to accept anymore waste), another authorised facility can be used. It will be marked on the manifest and KMC shall provide a registration update at the end of the incident.

3.1 OILY LIQUID WASTE

Oil/waste and liquid waste recovery from the relevant operations will be pumped into appropriate portable containers and transported to the authorised waste treatment facility. The final relocation for the oily waste is to be determined by KMC. As noted, only authorised facilities will be used.

3.2 OILY SOLID WASTE

Solid oily waste generated from response efforts will be addressed in one of two methods:

3.2.1 OILY SOLID BAGGING AND DIRECT LOAD-OUT IN THE FIELD

a. Oily solid waste collected by crews will be stored in 6mm bags or equivalent, consolidated with other bags from the same shoreline segment in an approved waste container and transported to the designated storage containers.
b. Only non-metal labels and ties will be used.
c. All containers are to be lined with impermeable sheeting prior to loading.
d. All waste containers will be labelled in accordance to federal transport regulations.
e. Bags will be secured in solid containers with top covers for final shipment to the disposal site.
f. When fully loaded and ready for transport to the final disposal destination, waste containers will be picked up from the terminal area and replaced with empty containers. The containers will be transported to an authorized facility. The hauler will ensure it has the appropriate level of response equipment available on the vehicle in the event of a container breach. Records of amount of waste disposed of and disposal location will be maintained and provided to pertinent parties, such as the Ministry of Environment.

3.2.2 CONTAMINATED SOIL

Contaminated soil shall be segregated from other types of solid waste for transportation and treatment/disposal. When fully loaded and ready for transport to the final disposal destination, waste containers will be picked up from the site and replaced with empty containers. The containers will be transported to an authorised facility, as per the conditions outlined in the BCG Registration. If necessary, transporters will have an appropriate License to Transport Hazardous Waste. The hauler will ensure it has the appropriate level of response equipment available on the vehicle in the event of a container breach. Records of the amount of soil disposed of and disposal location will be maintained and provided to pertinent parties, such as the Ministry of Environment.

3.3 HOUSEHOLD WASTES

Household waste will be bagged in black/green garbage bags, labelled as appropriate and transferred to the designated waste containers. The waste containers will be transported to a local landfill for land filling in accordance with any agreements established with local officials.

3.4 HAZARDOUS WASTE

All waste confirmed to be hazardous through analytical testing, etc. will be packaged, transported and disposed of at a facility authorised to accept the particular waste stream. KMC will be responsible for the appropriate disposal of this waste. As noted, only authorised facilities will be used. Records of the amount of soil disposed of and disposal location will be maintained and provided to pertinent parties, such as the Ministry of Environment.

3.4.1 WASTE IDENTIFICATION AND MANIFESTING

A KMC representative (KMC employee, consultant, or waste transporter) will be responsible for documenting the following information: division/location of waste generation; date; description of material; local storage, and destination status. This info will be reported to KMC for their records.

Manifests shall be prepared for all shipments of hazardous waste and only licensed waste transporters will be used. All shipments of hazardous waste must use the BCG number and be managed in full compliance with the Environmental Management Act and Hazardous Waste Regulation.

4.0 FINAL DISPOSAL LOCATION

As noted, only authorised facilities (provincial/federal regulations) will be utilised for final disposal.

4.1 HOUSEHOLD AND ASPHALT WASTE

Household trash will be disposed of at an authorized facility i.e. a municipal landfill such as the Waste-Tech facility in Port Coquitlam, BC. Asphalt and concrete waste will be taken to Columbia Bitulithic located at 13340 Mitchell Road, Richmond, BC (Columbia Bitulithic).

4.2 OILED LIQUID WASTES

Oil/waste and liquid waste recovered from the relevant operations will be transported, and processed, at the NewAlta Corporation facility located at 7720 Anvil Way, Surrey, BC (NewAlta). Waste delivered to NewAlta will be handled in accordance with their permit conditions.

4.3 OILY SOLID WASTE

Oily solid waste will be handled and disposed of depending on the type.

Used oily boom, used oily sorbent material, used oily personal protective equipment and other oily decontamination waste will be transported to the NewAlta facility in Surrey. Waste will be processed at NewAlta to remove as much oil as possible; the remaining waste will be disposed of at an authorized facility.

Oily organic vegetation removed from the beach area (plants, sea weed, etc.) will be transported to the NewAlta facility in Surrey for temporary storage. Final disposal shall be at an authorized facility.

Oily wood waste and grass clippings from the affected residential area that are determined not to be hazardous based on analytical testing, etc. will be transported to the Quantum facility located at 9356 River Road, Delta, BC (Quantum). Oily wood waste will be ground up at the Quantum facility and will then be transported to a facility equipped and authorised to handle oily wood waste. The EnviroGreen Technologies facility located at LELA Lot 401, Similco Mine, Princeton, AB (EnviroGreen) was chosen for disposal, despite the waste being non-hazardous, as local organic debris disposal facilities were not prepared to accept waste with any oil content.

Oily wood waste determined to be hazardous will be shipped directly to the EnviroGreen facility. If any wood chipping activities occur onsite, ambient air quality will be monitored and results will be forwarded to the GVRD.

Soil and sediment collected for disposal shall be disposed of at the Quantum facility in Delta or the EnviroGreen facility in Princeton based on soil quality as compared to the Hazardous Waste Regulation. Quantum will be acting on behalf of KMC addressing soil/sediment issues.

Oil stained asphalt and concrete will be disposed of at the Columbia Bitulithic facility located in Richmond.

KMC is required to characterize each waste stream to ensure all transport/disposal meets provincial and federal regulatory requirements.

4.4 HAZARDOUS WASTE

All waste confirmed to be hazardous through analytical testing, etc. will be packaged, transported and disposed of at facilities authorised to accept that particular waste stream.

All wastes determined to be hazardous will be segregated at the generation point as appropriate for the specific waste stream. A KMC representative will be responsible for properly manifesting and shipping all hazardous wastes from the site to the proper, permitted, disposal facilities. The choice of disposal/treatment facilities will be depend upon waste types to be disposed of.

As per the BCG Registration, any hazardous soils will be transported by authorised transporters to the EnviroGreen facility in Princeton and hazardous oily waste/liquids will be disposed of at the NewAlta facility in Surrey.

4.5 DECEASED WILDLIFE

Oiled deceased wildlife will be collected as per the Wildlife Management Plan, under the direction of trained professionals. Focus Wildlife will be responsible for collecting and disposing of deceased wildlife in accordance with applicable and appropriate regulations. If the number of deceased wildlife dictates, a separate cell with appropriate cover will be required.

5.0 REPORTING REQUIRMENTS

- Solid waste stream breakdown and total quantities
- Soil quality, compared to CSR (Schedule 4 & 5) for appropriate disposal
- Reporting Timeline: the above report items will be provided on a schedule agreed to by all pertinent parties