

**Application for Water Use Licence– Eagle Plains Hotel – Eagle Plains Lodge**

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**Introduction**

McNevin Construction Ltd., operating the Eagle Plains complex, which involves the operation of water and wastewater facilities, service station and associated facilities within the complex, undertakes, from time to time, construction activities. These activities, occasionally involve the use of heavy equipment, necessitating the use of petroleum products, including refueling and storage of other hydrocarbons.

This Spill Response Plan is intended to instruct McNevin Construction Ltd., its contractors and employees, fuel suppliers and transporters, and affected agencies, as to the planned course of action in the event of a spill or leakage of petroleum products during the course of the complex operational activities. In addition, this plan outlines the procedures to be followed in the event of spill of wastewater during handling of sewerage at the Eagle Plains complex Sewage Treatment and Disposal Facility. Safety procedures for personnel and proper equipment usage during operation of the treatment facility are also discussed within this plan.

Parts A and B of this plan outline procedures to be followed in the event of a petroleum product spill and sewage spill, respectively.

**PART A – PETROLEUM PRODUCT SPILLS**

Two types of spills or leaks will be addressed herein.

For the purposes of this Plan, “spill” is described as:

“petroleum product or lubricant which is poured, spilled or pumped onto the ground or into water, by faulty conveyance or transfer, overturned vehicles or equipment, or through human error or negligence.”

or

Severity rating\*:      Reportable – Less than 100 litres\*  
                                  Minor Reportable – More than 100 litres and Less than 400 litres  
                                  Major Reportable – More than 400 and Less than 1,000 litres  
                                  Emergency - More than 1,000 litres

*\*All spills must be reported regardless of size*

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A “leak” is described as:

“passing of a petroleum product through a breach, tear or puncture in a container, or receptacle at a rate of less than 10 litres per minute.”

**Reporting Procedures**

The following two levels of reporting will be required:

**Site Manager:** The Site Manager on site shall immediately be given details of any leak or spill. It is their responsibility to ensure protection of human health and safety, provide directions to stop or contain spills, and report the spill to affected agencies prior to investigating the spill themselves, or notifying their superiors.

Should a subsequent investigation reveal that the severity of the spill or leak does not constitute a site investigation from the Affected Agencies, they shall be immediately notified following that investigation by the Site Manager.

**Affected Agencies:** Affected Agencies shall all be contacted through the 24 hour emergency spill response line at (867) 667-7244.

The following information shall be conveyed during this call. This information should be documented on the attached “Spill Reporting Form”.

- General Location of the Spill or Leak:  
    Nearest highway, town, major water body, etc.
- Time of Spill:
- Specific Location of the Spill or Leak:  
    Give nearest community location, kilometre location on highway if known
- Severity of Spill or Leak:  
    Minor – more than 100 litres and less than 400 litres  
    Major – more than 400 litres and less than 1,000 litres  
    Emergency - more than 1,000 litres
- Type of Spill:  
    Total loss/leakage  
    Overturned vehicle or tanker (plus name of transport company)  
    Ruptured tank  
    Lost drum
- Product Spilled:  
    Diesel Fuel (Identify Grade)  
    Gasoline  
    Lubricant (Identify Grade)  
    Other (Identify)
- Nearest Water course or Body of Water:  
    Identify by name and description the nearest water course, pond or lake, with an approximate distance to the spill. As well describe the soils conditions and direction of probable flow for the spilled product.

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- Potential to enter surface water:
- Fire Hazard:
- Hazard to life and limb, injuries:
- Environmental effect expected, if any:
- Equipment and Clean-up consumables on hand:

Response by Affected Agencies depends upon the location of the possible spill and will vary. However, they will be co-ordinated by phoning the Emergency Response Spill Line. For the purpose of this Plan, it is recommended that only one call be made to government or other agencies using the 24 hr spill line.

Other affected parties may include organizations associated with fuel supply and transport companies. Most major suppliers in the Yukon are members of the Transportation Emergency Assistance Plan (TEAP). One of the responsibilities of this organization is the sharing of resources, consumables, equipment and personnel in the event of a spill. The transporter is responsible for contacting TEAP in the event of a spill.

CANUTEC, a branch of Transport Canada, can also be contacted for 24 hr technical advise on Dangerous Goods, as needed. The CANUTEC – help line for dangerous goods is 0 (613) 996-6666 (collect).

### ***Emergency Spill Response Procedure***

The first person on the scene is to do the following:

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|---|
| <ol style="list-style-type: none"><li>1) PROTECT human health and safety, including the elimination of possible ignition sources, and the warning/removal of bystanders;</li><li>2) STOP the continuing flow of product providing it is safe to do so;</li><li>3) CONTAIN the spilled material;</li><li>4) CALL the spill line <b>(867) 667-7244</b> and report the location and nature of the spill;</li><li>5) RECOVER product and contaminated soil/ other materials;</li><li>6) REPORT in writing on the attached response form and give to supervisor;</li><li>7) REMAIN at the site and assist with response as needed when help arrives;</li></ol> |
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### ***Response for Gasoline Spills***

If in water:

1. Stop or reduce discharge if safe to do so by plugging, uprighting, adjusting valves, or other suitable method.
2. If possible contain discharge by booming using commercial boom material, logs, or other material at hand.
3. If in rapidly flowing water, direct to quieter backwater using booms to deflect material.
4. Remove from water by skimming, using absorbents, and collect in suitable container (tanks, drums, plastic lined depression in ground or snow).

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**NOTE: IN THE EVENT MATERIAL IS SPILLED DURING VERY WARM WEATHER AND THERE IS DANGER OF FIRE DUE TO FUMES, DO NOT ATTEMPT TO CONTAIN PRODUCT ON WATER UNLESS THERE IS DANGER TO PEOPLE OR PROPERTY. ALLOW PRODUCT TO DISPERSE AND EVAPORATE.**

5. Dispose by recycling or incineration if conditions are suitable after consultation with environmental authorities and forestry officials.

If on land:

1. Stop, or reduce discharge if safe to do so by plugging, uprighting, adjusting valves or other suitable method.
2. Contain spill by dyking with earth, snow and ice or other barrier, possible trenching or creating a lined sump down gradient from the spill source.
3. Remove fuel from containment area with pumps, vacuum equipment and place in appropriate containers. Ensure equipment intrinsically safe.
4. Absorb residual liquid on natural or synthetic absorbents (3M).
5. Remove contaminated soils in the spill site to an appropriate disposal site if spill located near water supply or stream/river course or for aesthetic reasons.
6. Dispose of contaminated fuel by recycling or incineration. In situ, incineration may be possible if permission granted from environmental and forestry officials.

*Response for Diesel Spills*

If in water:

1. Stop, or reduce discharge if safe to do so by plugging, uprighting, adjusting valves, or other suitable method.
2. If possible, contain discharge by booming using commercial boom material, logs or other material at hand.
3. If in rapidly flowing water, direct to quieter backwater using booms to deflect material.
4. Remove from water by skimming, using absorbents, and collect in suitable container (tanks, drums, plastic lined depression in ground or snow).
5. Dispose by recycling or incineration, if conditions are suitable and permission is granted by regulatory authorities.

If on land:

1. Stop or reduce discharge if safe to do so by plugging, uprighting, adjusting valves or other suitable method.
2. Contain spill by diking with earth, snow or ice or other barrier, possible trenching or creating a lined sump down gradient from the spill source.
3. Remove fuel from containment area with pumps, vacuum equipment and place in appropriate containers.
4. Absorb residual liquid on natural or synthetic absorbents (3).

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5. Remove contaminated soils in the spill to an appropriate garbage trench if spill site is located near water supply or stream/river course or for aesthetic reasons.
6. Dispose of contaminated fuel by recycling or incineration. In site, incineration may be possible if permission granted from environmental and forestry officials.

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**Hazardous Materials Information Sheet**

**Gasoline**

**Characteristics**

- Flammable
- Solubility in water 1 to 100 ppm
- Floats
- Flash point - 38 to -43 C

**Human Health**

- Moderately toxic by inhalation. Avoid prolonged exposure to fumes

**Environment**

- Harmful to aquatic life. Fish toxicity 5 - 40 ppm rainbow trout

**Protective Clothing**

- No specific recommendations. Protective clothing is required.

**Diesel**

**Characteristics**

- Combustible/Flammable liquid
- Insoluble in water (30 ppm)
- Floats
- Flash point 52 to 96 C

**Human Health**

- Low toxicity by all routes

**Environment**

- Fish toxicity 10 ppm rainbow trout; 2 ppm for grass shrimp

**Protective Clothing**

- Gloves and boots made from neoprene or butyl rubber

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**Spill Reporting Form**

- 1) Type of spill: (check) \_\_\_ Oil \_\_\_ Gasoline \_\_\_ Diesel \_\_\_ Other \_\_\_  
(name) \_\_\_\_\_
- 2) Specified Substances: \_\_\_\_\_ Quantity: \_\_\_\_\_
- 3) Source (Company): \_\_\_\_\_
- 4) Date of Incident: \_\_\_\_\_ Time: \_\_\_\_\_
- 5) Roadway Kilometre Location: \_\_\_\_\_
- 6) Specifics of Location: \_\_\_\_\_
- 7) Cause of Incident (e.g.: truck overturn): \_\_\_\_\_
- 8) Reason: (e.g.: poor road conditions): \_\_\_\_\_
- 9) Weather condition in area: Temperature \_\_\_ Wind \_\_\_ Precipitation \_\_\_
- 10) Fish Kill: Yes \_\_\_ No \_\_\_ Bird Kill: Yes \_\_\_ No \_\_\_
- 11) Fire Hazard: \_\_\_\_\_
- 12) Threat to drinking water: \_\_\_\_\_
- 13) Who to contact at the scene: \_\_\_\_\_  
Company: \_\_\_\_\_ Phone: \_\_\_\_\_
- 14) General Comments: \_\_\_\_\_
- 15) How to prevent recurrence: \_\_\_\_\_
- 16) Action taken to date: Containment: \_\_\_\_\_  
Clean up: \_\_\_\_\_

Reported to:  
Name: \_\_\_\_\_ Dept.: \_\_\_\_\_ Phone: \_\_\_\_\_

Reported to:  
Name: \_\_\_\_\_ Dept.: \_\_\_\_\_ Phone: \_\_\_\_\_

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**PART B SEWAGE SPILLS**

For the purposes of this Plan, a “sewage spill” is described as:

“RAW OR TREATED SEWAGE” – (Piped Sewage or Lagoon Effluent) which may contain high concentrations of nutrients, toxic organic compounds or biological parameters.

The severity rating for a spill of sewage is dependant upon the level of treatment and location of spill.

A spill entering a watercourse or on land is reportable at any volume. The severity of the spill is dependant on the level of treatment, however the following broad severity rating has been developed to assist in classifying a spill:

**Severity Rating for Sewage**

**Entering Water Courses:**

- Reportable – Any quantity
- Minor – More than 100 litres and less than 1000 litres
- Major – More than 1000 litres and less than 4000 litres
- Emergency – More than 4000 litres

**Spill Over Land:**

- Reportable – Any quantity
- Minor – More than 500 litres and less than 2000 litres
- Major – More than 2000 litres and less than 5000 litres
- Emergency – More than 5000 litres

**A “leak” is described as:**

“passing of wastewater product through a breach, tear or puncture in a container, at a rate of less than 10 litres per minute.”

**Reporting Procedures**

The following reporting will be required:

**Site Manager:** The Site Manager on site shall immediately be given details of any leak or spill. It is their responsibility to ensure protection of human health, provide directions to stop or contain the spill, and report the spill to affected agencies prior to investigating the spill themselves, or notifying their superiors.

Should a subsequent investigation reveal that the severity of the spill or leak does not constitute a site investigation from the Affected Agencies, they shall be immediately notified following that investigation by the Site Manager.

**Affected Agencies:** Affected Agencies shall all be contacted through the 24 hour emergency spill response line at (867) 667-7244.

The following information shall be conveyed during this call:

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- General Location of the Spill or Leak  
Nearest highway, town, major water body, etc.
- Time of Spill
- Specific Location of the Spill or Leak:  
Give nearest community location, kilometre location on highway if known
- Severity of Spill or Leak:  
Minor, Major or Emergency as determined by the severity rating scale.
- Type of Spill:  
Total loss/leakage  
Ruptured pipeline  
Dike failure
- Product Spilled:  
Hydrocarbon (identify type)  
Waste water  
Other (Identify)
- Nearest Water course or Body of Water:  
Identify by name and description the nearest water course, pond or lake, with an approximate distance to the spill. As well describe the soils conditions and direction of probable flow for the spilled product.
- Potential to enter surface water
- Hazard to life and limb, injuries
- Environmental effect expected, if any
- Equipment and Clean-up consumables on hand

If the Affected Agencies vary depending upon the location of the possible spill, they will be co-ordinated by phoning the Emergency Response Line. For the purpose of this Plan, it is recommended that only one call be made to government or other agencies.

A copy of the Spill Reporting Form is provided in Part A.

### ***Emergency Spill Response Procedure***

The first person on the scene is to do the following:

- |   |
|---|
| <ol style="list-style-type: none"><li>1) PROTECT human health and safety, including the elimination of possible ignition sources, and the warning/removal of bystanders;</li><li>2) STOP the continuing flow of product providing it is safe to do so;</li><li>3) CONTAIN the spilled material;</li><li>4) CALL the spill line <b>(867) 667-7244</b> and report the location and nature of the spill;</li><li>5) RECOVER product and contaminated soil/ other materials;</li><li>6) REPORT in writing on the attached response form and give to supervisor;</li><li>7) REMAIN at the site and assist with response as needed when help arrives;</li></ol> |
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### ***Response for Sewage Spills***

If in water:

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1. Stop, or reduce discharge by plugging, uprighting, adjusting valves, filling dike material or other suitable method.
2. If possible, contain discharge by diverting flow to quieter backwater using commercial boom material, logs or other material at hand.
3. Remove from water by pumping, and collect in suitable container (tanks, drums, plastic lined depression in ground or snow).
4. Dispose of sewage in the lagoon(s) from which they originated or into the primary settling lagoon if spilled from the haul truck.

If on land:

1. Stop or reduce discharge by plugging, uprighting, adjusting valves, filling in dike material or other suitable method.
2. Contain spill by diking with earth, snow or ice or other barrier, possible trenching or creating a lined sump down gradient from the spill source.
3. Remove sewage from containment area and collect in suitable container (tanks, drums, plastic lined depression in ground or snow). If public health is a concern at diluted bleach to the sewage to destroy any pathogens within the sewage.
4. Dispose of sewage in the lagoon(s) from which they originated or into the primary settling lagoon if spilled from the haul truck.
5. Dispose of sewage in the lagoon(s) from which they originated or into the primary settling lagoon if spilled from the haul truck.
6. Remove surface layer of soil and spread out in the area designated for overland treatment.

### ***HANDLING PROCEDURES FOR SEWAGE***

Human sewage can contain high concentrations of micro-organisms (total and fecal coliforms, giardia, viruses) which can cause serious short or long term health effects. Gloves and masks should be worn during the handling of sewage to and from the lagoon and during handling of equipment at the sewage lagoon. Read the equipment manufactures instructions before use of any equipment and obtain instruction as to the proper settings for valves, piping, etc.. YTG's "Septage Hauling Guidelines" should also be read and followed.

Your hands and face should be washed with anti-bacterial soap after any procedure in which your skin comes in contact with the sewage. Wash any body parts, clothes or equipment on which sewage has been spilled. If the sewage is accidentally ingested contact the nursing station immediately.

Ensure that there is a first aid kit, including bandages and disinfectant in case of minor cuts during equipment handling.

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