

## **Appendix Four**

### **Fuel Management and Spill Contingency Plan**

**FUEL MANAGEMENT AND SPILL CONTINGENCY PLAN**

**WMC INTERNATIONAL LIMITED**

**MELIADINE WEST PROJECT**

## **I. INTRODUCTION**

### **PURPOSE**

This Fuel Management and Spill Contingency Plan is designed to promote environmental awareness and safety, as well as facilitate the efficient cleanup of spills as the result of transportation incidents while in transit between Rankin Inlet and the WMC International Ltd. exploration site at Meliadine Lake involving the following substances:

- P-50 Diesel
- Jet A turbo fuel
- Hydraulic Oil
- Lube Oil
- Waste Oil
- Propane
- other materials hazardous to the safety of personnel and the environment

Principal objectives of the Spill Contingency Plan are:

1. To provide readily accessible emergency information to cleanup crews, Meliadine project personnel, KIA, and government agencies in the event of a spill.
2. To comply with the WMC International Ltd. environmental policy.
3. To comply with federal and territorial regulations pertaining to the preparation of contingency plans and notification requirements.
4. To promote the safe and effective recovery of spilled materials.
5. To minimize the environmental impacts of spills to water and/or land.
6. To facilitate the management of wastes according to environmental legislation.

### **SCOPE**

This Plan addresses the organization of the WMC International Ltd. Meliadine West Gold Project spill response and related emergency measures. Alerting and notification procedures and cleanup strategies are outlined along with the duties and responsibilities of key spill response personnel. Emergency contacts are listed for WMC International Ltd, WMC contractors, local government agencies, and the NWT Power Corporation in Rankin Inlet. Emergency response equipment is listed that is available immediately (should a spill occur) from local freighting contractors, such as M & T Enterprises and the NWT Power Corporation in Rankin Inlet.

More information in support of this Transportation Spill Contingency Plan and ensuing spill response actions, is provided in the following appendices:

- Appendix A contains summaries of physical / chemical properties and emergency response measures for hydrocarbon substances to be transported to the Meliadine exploration camp.
- Appendix B contains an up-to-date inventory of spill response equipment and kits available at

various locations.

- Appendix C contains risk assessment and preventative measures.
- Appendix D contains NWT Spill Report Forms that are to be used to report spills.
- Appendix E contains a fuel storage monitoring plan.

This Fuel Management and Spill Contingency Plan is a companion to the WMC International Ltd. Exploration Division Draft Environmental Management System dated June 2000.

WMC will be contracting out the delivery of fuel and lubricants to the exploration site. The contractors will be trained for spill response and have spill kits that complement this Transportation Spill Contingency Plan. In the event of a spill the contractor is expected to implement a spill response immediately with WMC's plan serving as a back-up.

## **WMC International Ltd. Statement of Environmental Policy**

The Company is committed to achieving compatibility between economic development and the maintenance of the environment. It therefore seeks to ensure that throughout all phases of its activities, WMC personnel and contractors give proper consideration to the care of the flora, fauna, air, land and water, and to the community health and heritage which may be affected by these activities. To fulfill this commitment, the Company will observe all environmental laws, and, consistent with the principles of sustainable development, will:

- Progressively establish and maintain company-wide environmental standards for our operations throughout the world.
- Integrate environmental factors into planning and operating decisions and processes.
- Assess the potential environmental effects of our activities and regularly monitor and audit our environmental performance.
- Continually improve our environmental performance, including reducing the effect of emissions, developing opportunities for recycling, and more efficiently using energy, water, and other resources.
- Rehabilitate the environment affected by our activities.
- Conserve important populations of flora and fauna that may be affected by our activities.
- Promote environmental awareness among Company personnel and contractors to increase understanding of environmental matters.

## **SITE DESCRIPTION**

The winter transportation route for the WMC International Ltd. Meliadine West Gold Project begins at Rankin Inlet and ends at the exploration site ( Figure 1; Page 5). The route includes a short distance of municipal road, sea ice on Hudson Bay, tundra and freshwater ice belonging to the Kivalliq Inuit Association and the lake ice of Meliadine Lake under federal jurisdiction. The Project Site is located at latitude 63 01 30 ' N latitude and 92 10 20' West longitude. The haul route distance from Rankin Inlet to the Meliadine Project exploration camp is 28 km.

Insert Figure 1 Site Map

## **SITE DESCRIPTION (continued)**

### **Rankin Inlet Climate Profile**

Month	Mean Temp. (deg. C)	Mean Hourly Wind Speed (km/h)*	Blowing snow (days/mo)*	Mean Total Precip. (mm)
January	-32.2	24	16	6.9
February	-30.3	23	12	6.7
March	-25.6	22	13	14.1
April	-16.6	21	8	15.5
May	-6.7	20	4	17.9
June	. 3.4	18	-	34.1
July	. 9.7	21	-	39.9
August	. 9.0	24	-	59.5
September	. 3.0	26	-	48.0
October	-5.6	25	6	34.9
November	-18.5	23	12	22.1
December	-27.9	22	13	8.6

\* wind direction is predominantly from the northwest

Data source: Canadian Climate Data, Environment Canada

Period of record: 1981 - 1993

### **WEATHER FORECASTS**

In the event of a spill, current weather conditions can be obtained at the exploration camp from the camp manager or the project geologist on duty:

**Phone 1 867 645 3308 or  
1 604 881 6705**

Local weather forecast information is available by contacting the Rankin Inlet Flight Services Centre:

**Phone 1 867 645 2773**

and the Environment Canada Weather Forecast Centre:

**Phone 1 900 565 5555**



## II. SPILL ACTION PLAN RESPONSE SEQUENCE

### 1. REPORT ALL SPILLS TO:

Exploration camp camp manager

Ph./Fax 867 645 3308 or Ph 604 881 6705

Senior project geologist on site

Ph./Fax 867 645 3308 or Ph 604 881 6705

**The reporting requirement applies to all spills: on land, on water and on ice.**

**The reporting requirement applies equally to all substances covered by this contingency plan; fuels, hydraulic oil, lubricants, and waste oil.**

All reports by telephone must be followed with a fax of the completed report form (see Appendix D) to the number indicated on the reporting form.

Reporting and notification described below must be made by the first observer of the spill or the observer's superior immediately upon the spill being under control, or on failure to gain control of the situation.

### 2. ALERT WMC Personnel:

#### SPILL OBSERVER

→ IMMEDIATE SUPERVISOR or Meliadine Camp manager

→ WMC Meliadine Project Manager

→ Contractors (clean up)

→ On-Scene spill response coordinator

→ WMC Environmental Coordinator

### 3. NOTIFY AGENCIES:

24 HOUR NWT SPILL REPORT LINE	PHONE	1 867 920 8130
	FAX	1 867 873 6924
KIVALLIQ INUIT ASSOCIATION		1 867 645 2810
DIAND - Rankin Inlet		1 867 645 2831
Iqaluit		1 867 979 4405
Environment Canada - Yellowknife		1 867 920 6060
Fisheries and Oceans Rankin Inlet		1 867 645 2871
EMO - Rankin Inlet		1 867 645 5042;
		(645 3789 after work hours)

### 4. RECORD THE FACTS Use Spill Report Form from Appendix D

<b>NOTE:</b>	<b>If the On-Scene Coordinator is not available when a spill is detected then the spill must be reported directly to NWT 24-hour spill report line without delay.</b>
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## **INITIAL SPILL RESPONSE PRIORITIES**

### **SAFETY FIRST**

#### **I. RESPOND QUICKLY**

- 1 Identify the spilled material.
- 2 Ensure safety of yourself and others.
- 3 Shut off ignition sources - NO SMOKING.
- 4 Attend to Injured.
- 5 Assess the severity of the spill.
- 6 Call for assistance.
- 7 On-Scene Coordinator mobilizes Emergency Response Team.
- 8 Keep unnecessary people out of the area.
- 9 Wear impervious clothing, goggles, gloves.
- 10 Approach spill from upwind **IF SAFE TO DO SO.**
- 11 Stop product flow if possible.
- 12 Contain and recover spill as soon as possible.

#### **II. RESPOND SAFELY**

- 1 Do not contain gasoline or av gas if vapours might ignite.
- 2 Allow gasoline or av gas spills to evaporate.
- 3 See Appendix A - Product Guides for further information.

#### **111. OBTAIN AND REPORT SPILL DETAILS**

NWT Spill Report Forms are in Appendix D of this spill contingency and response plan.

## **DIESEL - P 50 - SPILL RESPONSE ACTIONS**

### **CONSIDER ACTION ONLY IF SAFETY PERMITS!**

- **ELIMINATE IGNITION SOURCES**
- **STOP SOURCE OF DIESEL IF SAFE TO DO SO**

#### **ON LAND**

- Do not flush into ditches or drainage systems.
- Block entry into waterways and contain with earth, snow or other barrier.
- Remove small spills with sorbent pads.
- On tundra use peat moss and leave in place to degrade, if practical.

#### **ON SNOW & ICE**

- Block entry into waterways and contain with snow or other barrier.
- Remove minor spills with sorbent pads and/or snow.
- Use ice augers and pump to recover diesel under ice.
- Slots in ice can be cut over slow moving water to contain oil.
- Burn accumulated diesel from the surface using Tiger Torches if feasible and safe to do so.

#### **ON MUSKEG**

- Do not deploy personnel and equipment on marsh or vegetation.
- Remove pooled diesel with pumps and skimmers.
- Flush with low pressure water to herd diesel to collection point.
- Burn only in localized areas, e.g., trenches, piles or windrows.
- Do not burn if root systems can be damaged (low water table).
- Minimize damage caused by equipment and excavation.

#### **ON WATER**

- Contain spill as close to release point as possible.
- Use spill containment boom to concentrate slicks for recovery.
- On small spills, use sorbent pads to pick up contained oil.
- On larger spills, use skimmer on contained slicks.
- Do not deploy personnel and equipment onto mudflats or into wetlands

#### **RIVERS & STREAMS**

- Prevent entry into water, if possible, by building berm or trench.
- Intercept moving slicks in quiet areas using (sorbent) booms.
- Do not use sorbent booms/pads in fast currents and turbulent water.

#### **STORAGE / TRANSFER**

- Store closed, labelled containers outside away from flammable items.
- Electrically ground containers and vehicles during transfer.

#### **DISPOSAL**

- Segregate waste types.
- Place contaminated materials into marked containers.
- Consult camp manager on disposal procedures.

## **HYDRAULIC OIL SPILL RESPONSE ACTIONS**

### **CONSIDER ACTION ONLY IF SAFETY PERMITS**

- **ELIMINATE IGNITION SOURCES**
- **STOP SOURCE OF HYDRAULIC OIL IF SAFE TO DO SO**

#### **ON LAND**

- Do not flush into ditches or drainage systems.
- Block entry into waterways and contain with earth, snow or other barrier.
- Remove small spills with sorbent pads.
- On tundra use peat moss and leave to degrade if feasible to do so.

#### **ON SNOW & ICE**

- Block entry into waterways and contain with snow or other barrier.
- Remove minor spills with sorbent pads and/or snow.
- Use ice augers and pump when feasible to recover oil under ice.
- Burning hydraulic oil will not likely be feasible.
- Mechanical removal (scraping) can be tried.

#### **ON MUSKEG**

- Do not deploy personnel and equipment on marsh or vegetation.
- Remove pooled oil with pumps and skimmers.
- Flush with low pressure water to herd oil to collection point.
- Minimize damage caused by equipment and excavation.
- Burning is not likely possible.

#### **ON WATER**

- Contain spill as close to release point as possible.
- Use spill containment boom to concentrate slicks for recovery.
- On small spills, use sorbent pads to pick up contained oil.
- On larger spills, obtain and use skimmer on contained slicks.
- Do not deploy personnel and equipment on mudflats or wetlands.
- Remove contained oil with sorbent pads and/or skimmer.

#### **RIVERS & STREAMS**

- Prevent entry into water, if possible, by building berm or trench.
- Intercept moving slicks in quiet areas using (sorbent) booms.
- Do not use sorbent booms/pads in fast currents and turbulent water.

#### **STORAGE / TRANSFER**

- Store closed, labelled containers outside away from flammable items.
- Drums are likely to be used for containing collected hydraulic oil.

#### **DISPOSAL**

- Segregate waste types.
- Place contaminated materials into marked containers.
- Consult on camp manager on disposal procedures.

## **LUBE OIL SPILL RESPONSE ACTIONS**

### **CONSIDER ACTION ONLY IF SAFETY PERMITS**

- **ELIMINATE IGNITION SOURCES**
- **STOP SOURCE OF LUBE OIL IF SAFE TO DO SO**

#### **ON LAND**

- Do not flush into ditches or drainage systems.
- Block entry into waterways and contain with earth, snow or other barrier.
- Remove small spills with sorbent pads.
- On tundra use peat moss and leave to degrade if feasible to do so.

#### **ON SNOW & ICE**

- Block entry into waterways and contain with snow or other barrier.
- Remove minor spills with sorbent pads and/or snow.
- Burning is unlikely to be possible.
- Use ice augers and pump when feasible to recover oil under ice.

#### **ON MUSKEG**

- Do not deploy personnel and equipment on marsh or vegetation.
- Remove pooled oil with pumps and skimmers.
- Flush with low pressure water to herd oil to collection point.
- Burning is not likely to be possible.
- Minimize damage caused by equipment and excavation.

#### **ON WATER**

- Contain spill as close to release point as possible.
- Use spill containment boom to concentrate slicks for recovery.
- On small spills, use sorbent pads to pick up contained oil.
- On larger spills, obtain and use skimmer on contained slicks.
- Do not deploy personnel and equipment on mudflats or wetlands.
- Remove contained oil with sorbent pads and/or skimmer.

#### **RIVERS & STREAMS**

- Prevent entry into water, if possible, by building berm or trench.
- Intercept moving slicks in quiet areas using (sorbent) booms.
- Do not use sorbent booms/pads in fast currents and turbulent water.

#### **STORAGE / TRANSFER**

- Store closed, labelled containers outside away from flammable items.
- Electrically ground containers and vehicles during transfer.

#### **DISPOSAL**

- Segregate waste types.
- Place contaminated materials into marked containers.
- Consult camp manager on disposal procedures.

## **WASTE OIL SPILL RESPONSE ACTIONS**

### **CONSIDER ACTION ONLY IF SAFETY PERMITS**

- **ELIMINATE IGNITION SOURCES**
- **STOP SOURCE OF WASTE OIL IF SAFE TO DO SO**

#### **ON LAND**

- Do not flush into ditches or drainage systems.
- Block entry into waterways and contain with earth, snow or other barrier.
- Remove small spills with sorbent pads.
- On tundra use peat moss and leave to degrade if feasible to do so.

#### **ON SNOW & ICE**

- Block entry into waterways and contain with snow or other barrier.
- Remove minor spills with sorbent pads and/or snow.
- Burning is unlikely to be possible.
- Use ice augers and pump when feasible to recover oil under ice.

#### **ON MUSKEG**

- Do not deploy personnel and equipment on marsh or vegetation.
- Remove pooled oil with pumps and skimmers.
- Flush with low pressure water to herd oil to collection point.
- Burning is not likely to be possible.
- Minimize damage caused by equipment and excavation.

#### **ON WATER**

- Contain spill as close to release point as possible.
- Use spill containment boom to concentrate slicks for recovery.
- On small spills, use sorbent pads to pick up contained oil.
- On larger spills, obtain and use skimmer on contained slicks.
- Do not deploy personnel and equipment on mudflats or wetlands.
- Remove contained oil with sorbent pads and/or skimmer.

#### **RIVERS & STREAMS**

- Prevent entry into water, if possible, by building berm or trench. & Streams
- Intercept moving slicks in quiet areas using (sorbent) booms.
- Do not use sorbent booms/pads in fast currents and turbulent water.

#### **STORAGE / TRANSFER**

- Store closed, labelled containers outside away from flammable items.
- Electrically ground containers and vehicles during transfer.

#### **DISPOSAL**

- Segregate waste types
- Place contaminated materials into marked containers.
- Whenever possible suitable waste oils collected at the site will be disposed of by incineration.
- Consult camp manager on disposal procedures.

## **GASOLINE SPILL RESPONSE ACTIONS**

### **CONSIDER ACTION ONLY IF SAFETY PERMITS**

### **GASOLINE FORMS VAPOURS THAT CAN IGNITE AND EXPLODE**

#### **NO SMOKING**

- **ELIMINATE IGNITION SOURCES**
- **STOP SOURCE OF GASOLINE IF SAFE TO DO SO**

#### **ON LAND**

- Block entry into waterways by diking with earth, snow or other barrier(s).
- Do not contain spill if there is any chance of igniting vapours.
- On shop floors and in work/depot yards, apply particulate sorbents.
- On tundra use peat moss and leave to degrade if feasible to do so.

#### **ON SNOW & ICE**

- Block entry into waterways by diking with snow or other barrier.
- Do not contain spill if there is any chance of igniting vapours.
- In work/depot yards, apply particulate sorbents.

#### **ON MUSKEG**

- Remove pooled gasoline with pumps, if safe to do so.
- Do not deploy personnel and equipment on marsh or vegetation.
- Low pressure flushing can be tried to disperse small spills.
- Burn **CAREFULLY** only in localized areas, e.g., trenches, piles or windrows.
- Do not burn if root systems can be damaged (low water table).
- Minimize damage caused by equipment and digging.

#### **ON WATER**

- Contain or remove spills **ONLY AFTER VAPOURS DISSIPATE**.
- Use booms to protect water intakes.
- Skimming can be tried once light ends evaporate.

#### **STORAGE / TRANSFER**

- Store closed, labelled containers in cool, ventilated areas away from incompatible materials.
- Electrically ground containers and vehicles during transfer.

#### **DISPOSAL**

- Segregate waste types, if necessary.
- Place contaminated materials into marked containers.
- Consult camp manager on transportation and disposal requirements.

## **JET A (AVIATION FUEL) SPILL RESPONSE ACTIONS**

### **CONSIDER ACTION ONLY IF SAFETY PERMITS**

### **AV GAS FORMS VAPOURS THAT CAN IGNITE AND EXPLODE**

#### **NO SMOKING**

- **ELIMINATE IGNITION SOURCES**
- **STOP SOURCE OF JET A IF SAFE TO DO SO**

#### **ON LAND**

- Block entry into waterways by diking with earth, snow or other barrier(s).
- Do not contain spill if there is any chance of igniting vapours.
- On shop floors and in work/depot yards, apply particulate sorbents.
- On tundra use peat moss and leave to degrade if feasible to do so.

#### **ON SNOW & ICE**

- Block entry into waterways by diking with snow or other barrier.
- Do not contain spill if there is any chance of igniting vapours.
- In work/depot yards, apply particulate sorbents.

#### **ON MUSKEG**

- Remove pooled av gas with pumps, if safe to do so.
- Do not deploy personnel and equipment on marsh or vegetation.
- Low pressure flushing can be tried to disperse small spills.
- Burn **CAREFULLY** only in localized areas, e.g., trenches, piles or windrows .
- Do not burn if root systems can be damaged (low water table).
- Minimize damage caused by equipment and digging.

#### **ON WATER**

- Contain or remove spills **ONLY AFTER VAPOURS DISSIPATE**.
- Use booms to protect water intakes.
- Skimming can be tried once light ends evaporate.

#### **STORAGE / TRANSFER**

- Store closed, labelled containers in cool, ventilated areas away from incompatible materials.
- Electrically ground containers and vehicles during transfer.

#### **DISPOSAL**

- Segregate waste types, if necessary.
- Place contaminated materials into marked containers.
- Consult camp manager on transportation and disposal procedures.



## **PROPANE RESPONSE ACTIONS**

### **GAS STORED IN CYLINDERS THAT EXPLODE WHEN IGNITED!**

#### **CONSIDER ACTION ONLY IF SAFETY PERMITS**

#### **KEEP ALL VEHICLES INCLUDING SNOWMOBILES AWAY FROM ACCIDENT AREA**

Refer to Product Guide in Appendix A for:

Physical/Chemical Properties

Response to Fires

First Aid

- Vapours cannot be contained when released.
- Water spray can be used to knock down vapours if there is NO chance of ignition.
- Small fires can be extinguished with dry chemical or CO.
- Personnel should withdraw immediately from area unless a small leak is stopped immediately after it has been detected.
- If tanks are damaged, gas should be allowed to disperse and no attempt at recovery should be made.
- Personnel should avoid touching release point on containers since frost quickly forms.
- Stay clear of tank ends.

## **ACETYLENE RESPONSE ACTIONS**

### **GAS STORED IN CYLINDERS THAT EXPLODE WHEN IGNITED!**

#### **CONSIDER ACTION ONLY IF SAFETY PERMITS**

#### **KEEP ALL VEHICLES INCLUDING SNOWMOBILES AWAY FROM ACCIDENT AREA**

Refer to Product Guide in Appendix A for:

Physical/Chemical Properties  
Response to Fires  
First Aid

- Vapours cannot be contained when released.
- Water spray can be used to knock down vapours if there is NO chance of ignition.
- Small fires can be extinguished with dry chemical or CO.
- Personnel should withdraw immediately from area unless a small leak is stopped immediately after it has been detected.
- If tanks are damaged, gas should be allowed to disperse and no attempt at recovery should be made.
- Personnel should avoid touching release point on containers since frost quickly forms.
- Stay clear of tank ends.

### III. SPILL RESPONSE CONTACTS

#### WMC International Ltd., Meliadine Project

TITLE	NAME	OFFICE	FAX
On-Scene Coordinators			
Logistics	Al Burdon	1613 727 3937	1 613 727 3970
Safety	Kirk Steeves	1613 727 3937	1 613 727 3970
Spill Cleanup Supervisors	Meliadine Camp	1 604 881 6705	
District Geologist	Alan Sexton	1613 727 3937	1 613 727 3970
Project Study Manager	Joe Campbell	1613 727 3937	1 613 727 3970
Environmental Coordinator	Ben Hubert	1 403 256 0017	1403 256 1228
	Residence	1 403 256 7114	1403 256 1228
<b>CONTRACTORS</b>			
M & T Enterprises Ltd.	Rankin Inlet	1 867 645 2778	1 867 645 2590
Y & C Enterprises Ltd.	Rankin Inlet	1 867 645 2546	1 867 645 2490
<b>OTHERS</b>			
NWT Power Corp.	Rankin Inlet	1 867 645 5300	1 867 645 2487

## EXTERNAL CONTACTS

### CONTACT THE FOLLOWING NUMBER IMMEDIATELY:

<b>1. GOVERNMENT 24-HOUR SPILL REPORT LINE</b>	PH. (867) 920-8130 FAX (867) 873-6924
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OTHER CONTACTS:	PHONE
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### KIVALLIQ INUIT ASSOCIATION - LAND MANAGEMENT

Tongola Sandy-land use administrator/manager	1 867 645 2810
Ryan St. John - land use inspector	1 867 645 2810

<b>EMO</b>	<b>1 867 645 5042</b> <b>(645 3789 after working hours)</b>
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### GOVERNMENT OF CANADA

RCMP - Rankin Inlet	1 867 645 2822
DIAND - Rankin Inlet - Henry Kablalik	1 867 645 2831
Environmental Protection, Environment Canada	1 867 920 6060
Magnus Bourque, Hazardous Materials Officer	1 867 669 4729
Dave Tilden, Hazardous Materials Specialist	1 867 669 4728
Fisheries & Oceans - Rankin Inlet	1 867 645 2871
- Iqaluit	1 867 979 6274

## LOCAL TRANSPORTATION

### Helicopters

CUSTOM HELICOPTERS	Staff House	1 867 645 3885
	Hanger	1 867 645 3939

### Air Lines - Scheduled

First Air - Dispatch	1 867 873 8021
CalmAir	1 867 645 2900
Kivalliq Air	1 877 855 1500
Skyward	1 867 645 3200

### Bombardier

Joe Kaludjak	1 867 645 2639
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Kowmuk's Taxi	1 867 645 3034
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### Neighbouring Sites

NWT Power Corp.- Rankin Inlet	1 867 645 5300
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## EQUIPMENT SUPPLIERS

Frontier Mining - Yellowknife	1 867 920 7617	spill kits & various sorbents
Acklands - Yellowknife	1 867 873 4100	spill kits and various sorbents
Dupont -	1 613 348 3616	emergency response centre for personnel and material
Chemtrec	1 800 424 9300	Chemical Transportation Response Centre for personnel and material

#### **IV. DUTIES AND RESPONSIBILITIES**

The roles and responsibilities of WMC personnel, contractors, and Government are described on the following pages.

##### **WMC and CONTRACTOR PERSONNEL**

Spill Observer - anyone on haul route or at fuel cache at any time

- Assess the initial severity of the spill and safety concerns.
- Report all spills to Meladine Camp manager immediately.
- Determine the source of the spill and stop or contain it, if possible.
- Participate in spill response as member of cleanup crew.

On-Scene Coordinator (OSC) - WMC Meladine Camp Manager

- Immediately reports the spill to NWT 24-Hour Spill Report Line at (403) 920-8130.
- Records the time of the report, source of information and details on location, size, type of spill as well as any other information available on the spill report form.
- Oversees the cleanup operation until it is satisfactorily completed.
- Together with the Spill Cleanup Supervisor, decides if additional equipment is required to contain and clean up spills.
- Notifies government agencies, WMC Site Manager, Project Manager and Environmental Coordinator on spill details.
- Oversees completion and distribution of Spill Report. Ensures investigation identifies measures to prevent similar spills in future.
- Ensures Response Team is adequately trained in spill response.
- Organises training courses for spill response teams.

Spill Clean Up Supervisors

- Supervise spill cleanup crew.
- Assist in initial and ongoing response efforts.
- With work crew, take initial action to seal off the source and contain spill.
- Continue actions until relieved or supplemented by other Supervisor.
- Decide with On-Scene Coordinator if mobilization of additional equipment from Spill Response Organization or Contractor is warranted.
- Assess whether burning is a viable clean up measure; consult with regulatory authorities at spill site.

Spill Cleanup Crew (Emergency Response Team)

- conduct cleanup of spills under direction of Spill Cleanup Supervisor(s).
- Deploy booms, sorbents and other equipment and materials as required.
- Take appropriate response measures.
- Continue cleanup as directed by Spill Cleanup Supervisor until relieved.

Project Manager, Meladine West Gold Project

- Responsible for all communication with the media.
- Ensures that all press releases are accurate and in accordance with company policy.

- Makes financial decisions on major expenses during large spill response.
- Initiates Mutual Aid Agreements if proper response requires outside assistance.

#### Environmental Coordinator

- Provides cleanup advice to the On-Scene Coordinator and Spill Cleanup Supervisor.
- Assists the Project Manager in the preparation of press releases.
- Develops safe and effective spill management and prevention practices.
- Provides advice to the Spill Cleanup Supervisor of storage and disposal options.
- Updates and distributes Contingency Plan.
- Ensures that there is follow up reports prepared on the spill event, clean up and environmental impacts.

#### Legal Counsel

- Advises the Project Manager and Environmental Coordinator as requested on issues related to:  
Legislative authority of various government agencies;  
Questions of due diligence;  
Costs/fines and liabilities, regulations including penalties associated with regulations;  
Consults with the corporate insurance coordinator and advises the Project Manager on matters related to insurance.

#### WMC Board of Directors

- Establishes corporate environmental policy based on the recommendations of the Environmental Management Committee.

## **EXTERNAL RESOURCES - contractors and consultants**

### **WMC Fuel Haul Contractors**

- Ensure that their best effort is made to maintain spill equipment which shall be available and be applied to a spill incident on site when required.
- Initiates cleanup in the absence of WMC personnel, however caused.
- Reports all spills immediately to the WMC On-Scene Coordinator (OSC).
- Responsible for the training of their personnel on spill response.
- Develops and maintains company specific contingency plans for the WMC Meliadine West Gold Project which conforms to this WMC Spill Contingency Plan and related policies.

### **Environmental Consultants**

- Provide advice to WMC on spill response strategies, counter measure technologies, impact assessments and post spill monitoring and site rehabilitation.

### **Neighbouring Operations**

- Supply spill response equipment, materials and manpower, as required, when requested to do so.

## **EXTERNAL RESOURCES - Kivalliq Inuit Association and Nunavut Water Board**

### **KIA**

The WMC International Ltd. Meliadine West Gold exploration program is carried out on Inuit Owned Land administered and managed by the KIA. It has issued land use permits to WMC for the exploration activities. Inspectors from KIA routinely inspect land use sites for compliance to terms and conditions of permits. While KIA receives data from spills reported to the NWT Spill Line, it is expected that all spills on Inuit Owned Land be reported directly to KIA. The same form as used for the Spill Line may be used for reporting to KIA.

### **Nunavut Water Board**

The Nunavut Water Board issues water licences under the Nunavut Land Claims Agreement. Conditions of the water licence usually include the authorized limits of water use, sources of water use, effluent discharge limits, monitoring and reporting requirements. As well, licenses are expected to require that Spill Contingency Plans be submitted for approval. Enforcement of the provisions of the water licence is carried out by Inspectors from the Water Resources Division (Department of Indian and Northern Affairs). Periodic inspections are conducted by water licence inspectors.



## EXTERNAL RESOURCES - GOVERNMENT

### Department of Indian and Northern Affairs (DIAND)

The Northern Affairs program of DIAND administers the Territorial Lands Act and Regulations. Through this legislation land use permits are issued. One of the conditions of land use permits is the requirement to report all spills to a 24 hour government run report line (403-920-8130). Land Use Permits may also address matters of environmental conservation and protection including waste disposal, sources of borrow materials, open pit mining, road alignments, land reclamation and closure requirements. Enforcement of the provisions of the land use permits is carried out by the Operations Division of DIAND through Resource Management Officers located at the District Offices.

Inspection of WMC project activities located on Crown Land by Resource Management Officers is conducted periodically.

### Environment Canada (EC)

The Environmental Protection and Conservation Service of Environment Canada administers the Canadian Environmental Protection Act (CEPA) and Section 36 of the Fisheries Act. For the latter this specifies that unless authorized by regulation, any effluents discharged into fish bearing water must be non-toxic. Environment Canada officials have in the past laid charges in the NWT under the Fisheries Act for spills of oil and other hazardous material.

EC is responsible for providing environmental advice to federal and territorial government agencies and for the preservation and enhancement of environmental quality.

### Department of Fisheries and Oceans (DFO)

The Department of Fisheries and Oceans (DFO) administers the habitat protection provisions of the Fisheries Act. This includes provisions for prohibiting the blocking of fish passageways and the destruction of fish habitat. DFO operates under a Habitat Management Policy whereby the objective is to achieve a net gain of fish habitat within the NWT. On occasion DFO Inspectors visit spill sites to investigate possible impacts to fish habitat.

## **V. REFERENCES**

BHP Diamonds Inc. Transportation Spill Contingency Plan. January 1997.

Department of Transportation. Environmental Guidelines for the Construction, Maintenance and Closure of Winter Roads in the Northwest Territories. Prepared by Stanley Associates Engineering Ltd. 1993.

Northwest Territories Water Board. Guidelines for Contingency Planning. 1987.

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