Starfield Resources Ferguson Lake Camp – Ferguson Lake, NT

Spill Contingency Plan

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1. INTRODUCTION

1. Introduction

Starfield Resources is planning to create a new camp area to support its mineral exploration activities covered under Land Use Licenses: KVL399C150 and KVL103B303 and Water License NWB2FE20305. It is proposed to move the present camp site approximately 3 km north east of its present location (Figure 1.1). The proposed new camp site location is centered approximately at Latitude 62° 53' 33.66" North, Longitude 95° 54' 15.03" West, and is located on Map Sheet NTS 065I15.

This spill plan is in support of the proposed new camp area and shall be in effect when approved by the Nunavut Water Board, and is subject to revisions as may be necessitated by future programs.

The Starfield property is remote; no communities are located nearby. Thus no persons other than Starfield Resources, Major Drilling, Northern Air Support and various contractor personnel, would be affected in the event of an incident. All of the employees from these companies, whether permanent or casual, and program contractors, are required to be trained in Starfield-Major policies and procedures prior to engaging in work at the Ferguson Lake work site.

Starfield Resources corporate office is located in Vancouver, Canada:

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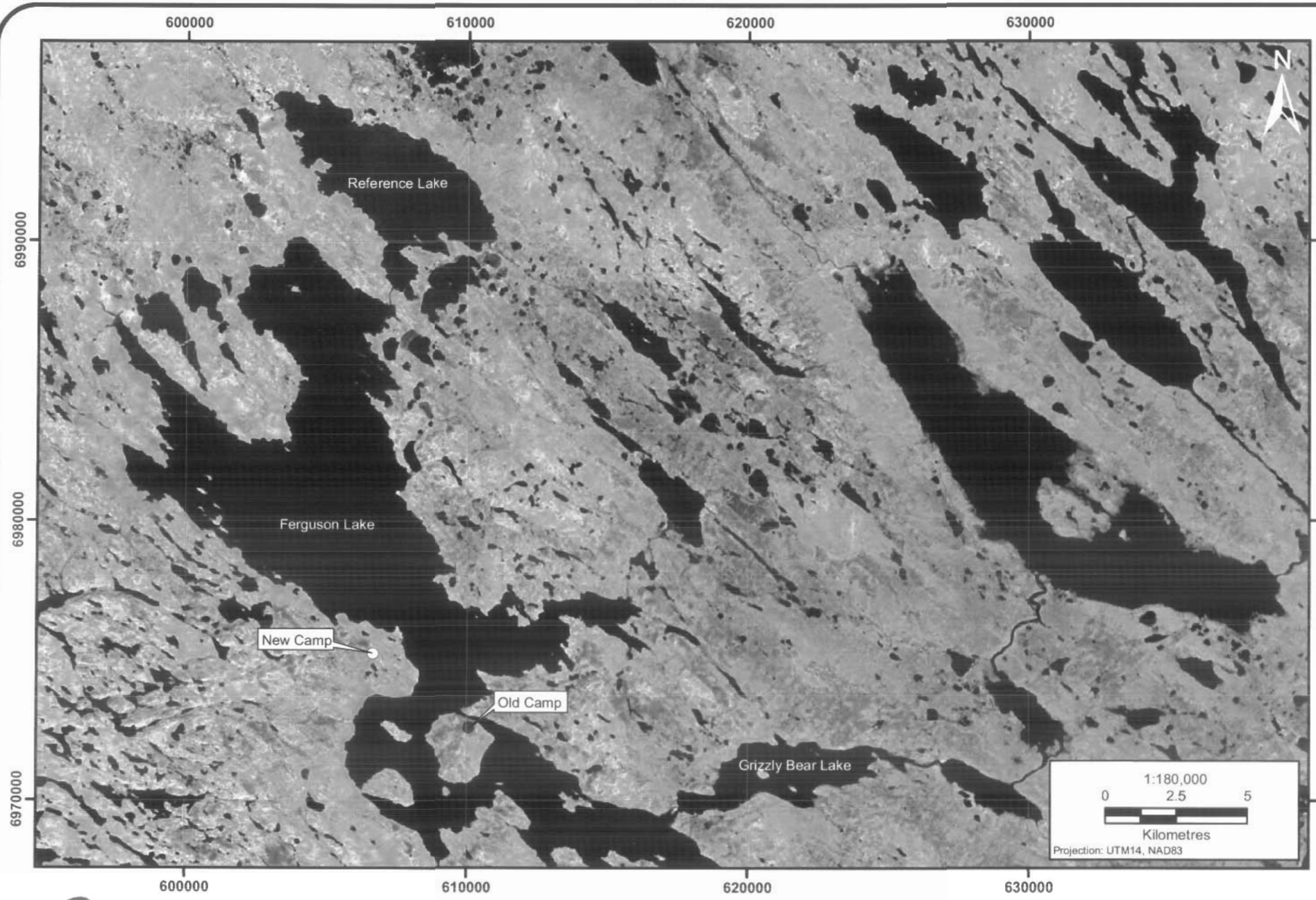
Fax: 604-608-0344

Starfield Resources is aware that planning for an emergency situation is not an option but an obligatory activity. This Contingency Plan will be posted in the living quarters, Drill Shack(s) and will be distributed to supervisory personnel for distribution to staff and the drilling contractor.



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Location of the Proposed Camp Site in Relation to the Old Ferguson Lake Camp

FIGURE 1.1

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2. PERMITS AND AUTHORIZATIONS

2. Permits and Authorizations

The Ferguson Lake Project, comprised of 30,060.30 acres, is located in Kivalliq Inuit Association (KIA) controlled land in the Kivalliq region of the Nunavut Territory and is governed by the following two KVL Permits and NWB Water License, respectively:

KVL399C150	Expires	April 30, 2006
KVL103B303	Expires	March 24, 2006
NWB2FER0507	Expires	July 1, 2007

3. Camp Facilities

3.1 Site Description

The proposed camp site and core storage area is situated on a low ridge at an elevation between 120 and 130 m on a point on the southwest shore of Ferguson Lake (Figure 1.1). It is a level area of low bedrock outcrops and sand and gravel, suggesting good drainage. The nearest water body is a small pond about 300 m south of the proposed camp site. This pond drains to another pond and eventually south to Ferguson Lake. Figure 3.1 shows the new camp and core storage areas in relation to the old Ferguson Lake Camp.

3.2 Camp Description

The camp configuration will consist of a 30-person portable camp with integrated facilities for sleeping, cooking, eating, recreation and washing, as well as structures for water and waste treatment, a core shack, ski-doo shed, wooden shop, office, safety shack, storage sheds, weatherhavens, and pump sheds. All buildings are located within the one hectare square of the camp. Figure 3.2 shows the camp layout. This set up may change; the buildings are going to be placed in areas that are the least damaging the environment and this is best determined at the time of camp set up. A new camp layout will be provided when the camp is set up.

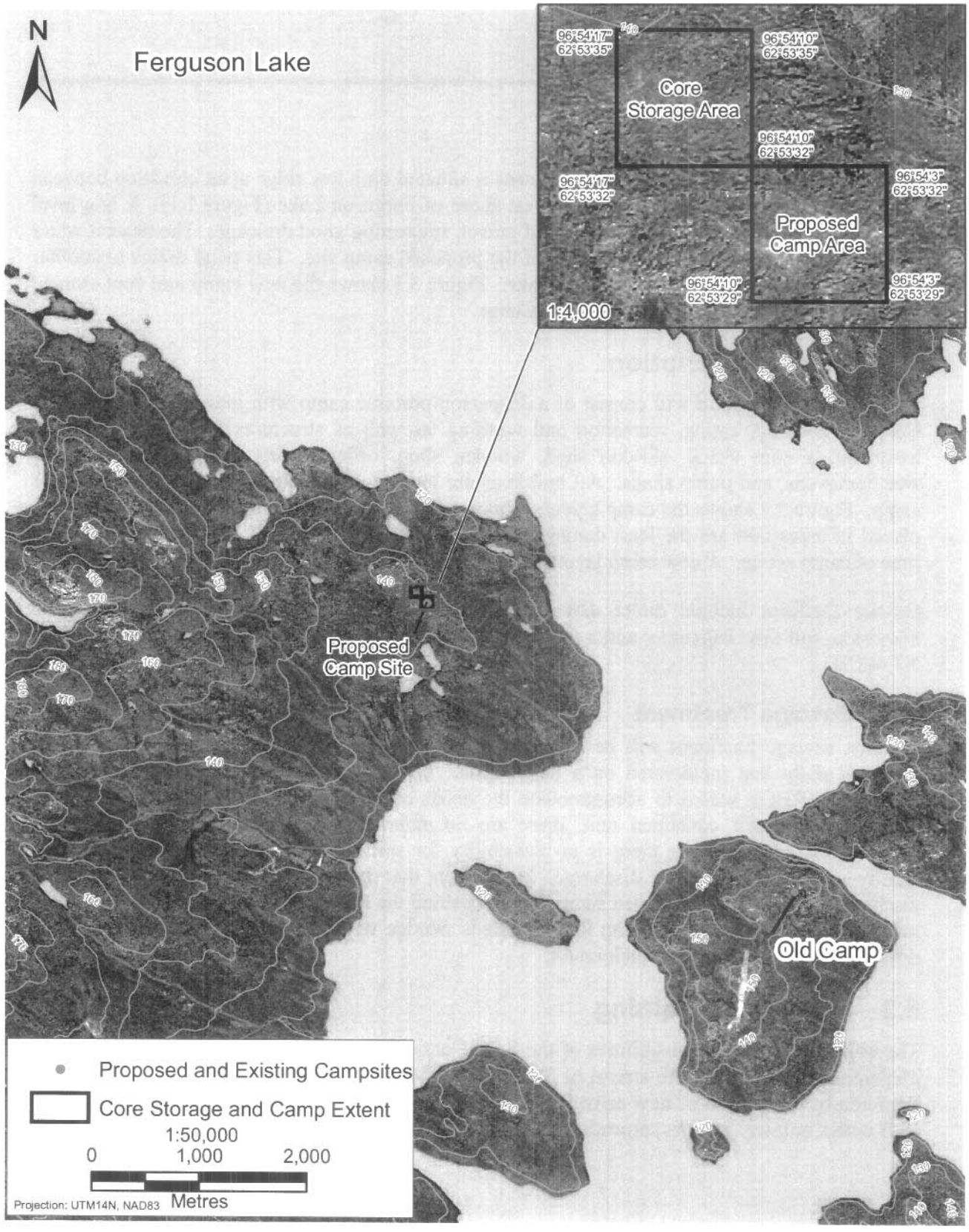
On-site facilities include direct dial satellite phone, high speed internet uplinks, satellite television, full time helicopter and a full time certified First Aid Attendant as required by NWT-NT WCB.

3.2.1 Sewage Treatment

Initially, sewage treatment will be confined to PACTO style toilets. All solid waste will be collected daily and incinerated on a daily basis. Over a year period a Rotating Biological Contractor (RBC), scaled to accommodate the needs of a 30-person camp, will be phased in. The RBC is a self contained unit, there are no exterior tanks, holding ponds or exterior components, and therefore there is no possibility for spills or upsets. Effluent will be high quality and suitable for direct discharge. In the event that the RBC has a temporary breakdown, discharge will go to an excavated sump, located behind the RBC and 100 m from the high water mark of any water body, until the RBC is fixed. Sludge will be collected every 6 months, air dried and burned in the camp incinerator.

3.3 Personnel Training

The obligations and responsibilities of the Spill Contingency Plan awareness, maintenance and preparedness begin with the arrival of Starfield and Major Drilling employees and contractors. Particularly in the case of new arrivals; supervisors provide an orientation to acquaint worksite staff with Company policies, procedures, and health and safety issues.



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Ferguson Lake Proposed Camp and Core Storage Area

FIGURE 3.1

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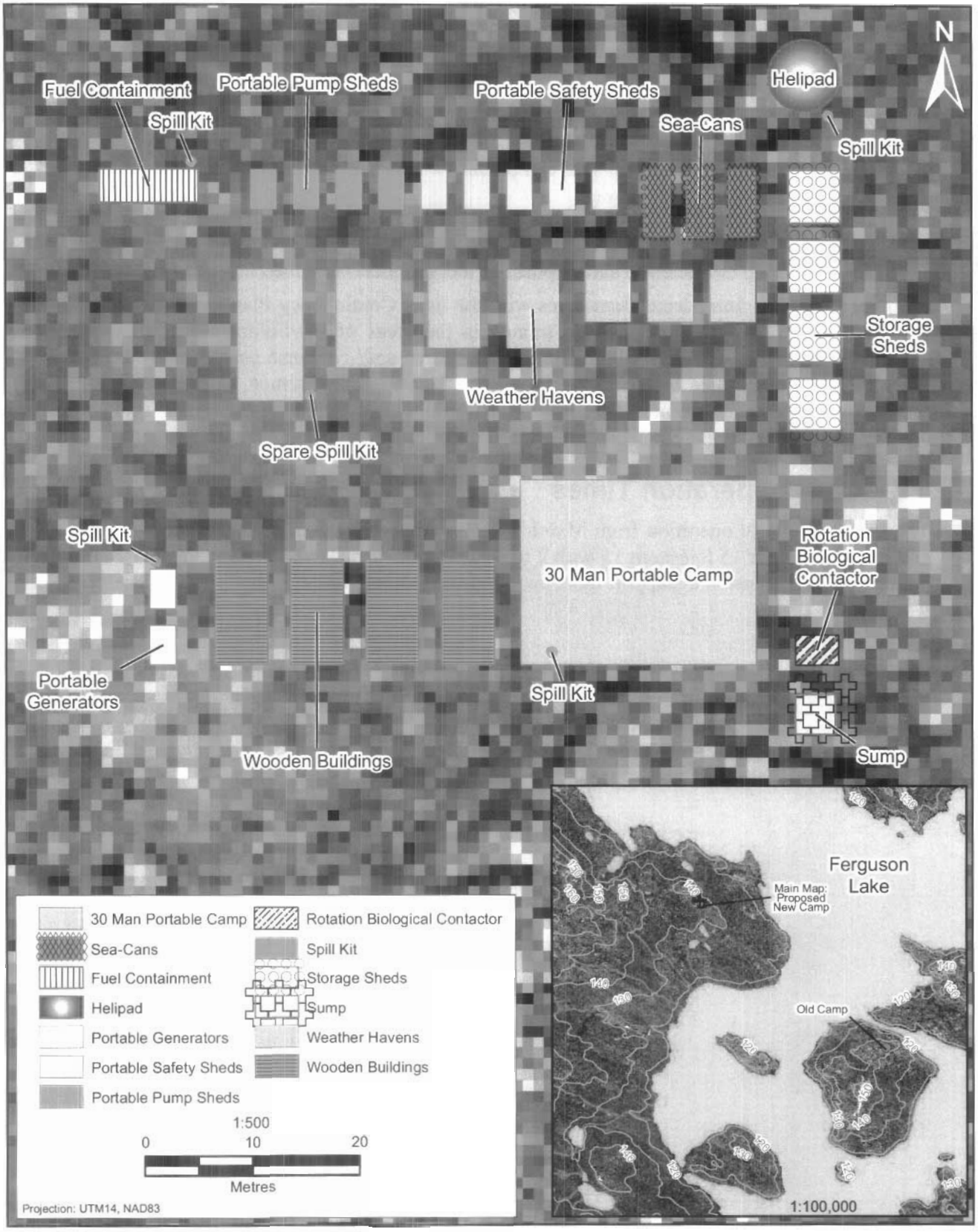

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Ferguson Lake Camp Layout

FIGURE 3.2

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This orientation includes, but is not limited to:

- location of all fuels and fuel products
- location of WHMIS and MSDS sheets
- location of spill kits and fuel spill equipment
- instruction of the use of spill kits
- instruction on the use of spill equipment
- instruction on the clean-up and disposal of fuel products contained in a potential fuel spill

Staff is required to familiarize themselves with the Spill Contingency Plan and their respective assigned roles. All site personnel are trained in the areas of Environmental awareness, site safety, and basic first-aid CPR. Petroleum handling and spill response personnel are trained in WHMIS and are required to have first-aid and CPR. All drill foremen, drill supervisors and project management personnel are required to hold either Supervisor Level I or Level II certificates from WCB as set out under the NWT-NT WCB Mine Health and Safely regulations.

3.4 Camp Operation Times

The camp will be in operation from March 15 to December 15 with a maximum of 30 people, and from December 15 to March 15 with 2 to 3 caretakers. It will be a permanent camp with the possibility for expansion to support more people if the project goes into production phase.

4. FUEL AND CHEMICAL PRODUCT TRANSPORT AND STORAGE

4. Fuel and Chemical Product Transport and Storage

4.1 Fuel Transportation

The Ferguson Lake Project is being conducted at a remote site. Fuel during the winter months will be transported over designated winter routes as applied for by M&T Enterprises of Rankin Inlet. Fuel re-supply in the summer months will be transported by fixed wing aircraft.

4.2 Fuel Storage

Only a monthly supply of fuel will be stored on the camp site. All fuel on the camp site will be stored in 205L structurally sound steel drums with an appropriate containment system according to regulations, and located 100m from the high water mark of any water bodies. All drums will be inspected daily by Starfield and/or Major personnel for container and bung soundness. Any drum(s) noted to be leaking will immediately have all product transferred to a new drum(s). The drum will be crushed and hauled out at a later date.

To encourage progressive reclamation no more than 20% of the fuel drums will be empty at any one time.

Any empties that are deemed not worthy of holding fuel are back hauled to landfill sites by M&T Enterprises and/ or flown out in the summer months by plane to Rankin Inlet and/or Baker Lake.

All lubricants and oils will be stored at the in the "Oil Shed" which consists of a 12'x16' secured wooden shed.

A cache of Jet-B will be stored in an appropriate containment system according to regulations near the helipad for the purposes of Helicopter re-fuelling. All drums are sealed and clearly marked. These drums will be inspected daily by the pilot, who has been trained in company fuel-handling and spills-prevention procedures; a full-size spill kit will be present proximal to the helipad area (Table 4.1).

The remainder of the fuel will be stored in its present site at the Ferguson Lake airstrip as permitted under Starfield's present Water license and Land Use Licenses. The fuel at the airstrip will be stored as regulated by the Water License and Land Use Licenses and as per Starfield's Spill Contingency Plan for the Ferguson Lake Project. Figure 1.1 shows where the airstrip is in relation to the new camp.

Spill kits will be available at all fuelling sites. Figure 3.1 shows the camp layout and location of all of the spill kits and absorbent matting.

4.3 Fuel Types and Quantities

The types of fuel and lubricants that will be stored on the camp site will consist of P-50 diesel motive, JET-B, Gasoline, Propane and an assortment of hydraulic oils and motor oils. The P-50

diesel motive will be used for heating purposes and the powering of generators, pumps, and other related heavy equipment. The JET-B will be used for the purposes of helicopter refuelling and also for heating purposes. Gasoline will be used for purposes of re-fuelling ski-doo's. The propane will be used for heating and cooking purposes. Oils and lubricants will be used on the heavy equipment.

All fuels are stored in 205L drums. The P-50 is stored in barrels that previously contained sealed JET-B. Prior to being re-used for P-50 storage, all drums and seals are inspected. Drums that are showing signs of weakness and fatigue are discarded. All rubber seals prior to re-filling are replaced. All JET-B products are contained in 205L drums. All drums are factory sealed. Any drums whose seals have been broken are used for purposes other than for re-fuelling of aircraft.

Table 4.1
Monthly Quantities of Fuel and Oil to be Stored at Site

Fuel Type	Container Type	Container Capacity	Total Volume to be Stored On-Site
P-50	Barrels	205L	37,515L per month
Gasoline	Barrels	205L	1,435L per month
Jet-B	Barrels	205L (sealed)	24,600L per month
Propane	Pressured Tanks	100lb Tanks	30 - 100lbs per month

5. BASIC STEPS – SPILL PROCEDURE

5. Basic Steps – Spill Procedure

Starfield-Major believes that, in the case of a spill or environmental emergency, it is necessary to react in the most immediate, safe and environmentally responsible manner. No spill or incident is so minor that it can be ignored.

Starfield Resources basic steps of a response plan are as follows:

1. Ensure the safety of all persons at all times.
2. Find and identify the spill substance and its source, and, if possible, stop the process or shut off the source.
3. Inform the immediate supervisor or his/her designate at once, so that he/she may take appropriate action. (Appropriate action includes the notification of a government official, if required).
4. Contain the spill or environmental hazard, as per its nature, and as per the advice of the Spill Line and Environmental Advisers, as required.
5. Implement any necessary cleanup or remedial action.

5.1 Basic Steps – Chain of Command

6. Immediately notify the Project Manager, John Nicholson (604) 786-9095 (home) or (604) 608-0400 (office) or at Ferguson Lake worksite and or Project Geologist Brian Game at (604) 671-2646 (home) or (604) 608-0400 or at Ferguson Lake worksite of any spill. They will then notify the Response coordinator (if a different individual).
7. Response coordinator or his/her designate then contacts the 24-Hour Spill Line, if warranted, as follows:

24 HOUR SPILL LINE

Phone:	**(867) 920-8130**
FAX:	**(867) 873-6924**

A "Spill Report Form" (Figure 5.1) is filled out as completely as possible before or after contacting the 24-Hour Spill Line.

If the spill is minor (such as dripping of fuel during transfer, which can be absorbed by padding, absorbent crystals, etc.), then the Project Manager, John Nicholson and or Project Geologist, Brian Game is notified on site.

(For additional contact information, see Appendix I, for a complete contact list).

Northwest Territories

NWT SPILL REPORT

(Oil, Gas, Hazardous Chemicals or other Materials)

24 – Hour Report Line
Phone: (867) 920-8130
Fax: (867) 873-6924

A Report Date and Time	B Date and Time of spill (if known)	C ☐ Original Report ☐ Update no: _____	Spill Number

D Location and map coordinates (if known) and direction (if moving)

E Partly responsible for spill

F Product(s) spilled and estimated quantities (provide metric volumes/weights if possible)

G Cause of spill

H Is spill terminated? ☐ yes ☐ no	I If spill is continuing, give estimated rate	J Is further spillage possible? ☐ yes ☐ no	K Extent of contaminated area (in square meters if possible)

L Factors effecting spill or recovery (weather conditions: terrain, snow cover, etc.)	M Containment (natural depression, dikes, etc.)

N Action, if any, taken or proposed to contain, recover, clean up or dispose of product(s) and contaminated materials

O Do you require assistance? ☐ no ☐ yes, describe:	P Possible hazards to person, property, or environment, eg. fire, drink water, fish or wildlife

Q Comments or recommendations

FOR SPILL LINE USE ONLY

Lead agency

Spill significance

Lead Agency contact and time

_____

_____

_____

Is this file now closed? ☐ yes ☐ no

Reported by	Position, Employer, Location	Telephone
Reported to	Position, Employer, Location	Telephone

Figure 5.1