Emergency Response Plan

Cambridge Bay Soil and Water Treatment Facility

June 2018

Summary

This Plan outlines what Nunavut Excavating will do if there is an emergency at the soil and water treatment facility in Cambridge Bay, NU. An emergency is considered a severe injury or death, a fire or explosion, a force of nature, a release of a toxic substance or a threat to the safety and security of the site.

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1. Introduction

a) Company Name, Project Location & Effective Date

Nunavut Excavating
2007 INC:

1825 Federal Road
P.O. Box 1984,
Iqaluit, Nunavut
X0A 0H0

Project location:

69^{0} 07’ 40.56”N 105^{0} 02’ 54.08”W

Cambridge Bay, NU

Project spill response contacts

include: Glen Molloy
Manager, Nunavut Excavating INC.
709-728-7659

Corwin Mullett,
Operations Supervisor, Nunavut Excavating INC.
867-975-3320

Nunavut Excavating. (NE) is proposing to develop a soil and water treatment facility (the Facility) located adjacent to the Town of Cambridge Bay Solid Waste Treatment Facility. Coordinates for the Facility are:

69^{0} 07’ 40.56”N
105^{0} 02’ 54.08”W

The effective date for this *Emergency Response Plan* (the Plan) is the start of construction of the facility, anticipated to be in summer of 2018. The Plan will be effective for the duration of the lease and project operations, a period of five (5) years.

2. Health and Safety Policy

Our commitment to the protection of the safety and well-being of our employees, contractors and the general public needs to be demonstrated in how we conduct our day-to-day business operations. The highest standards of care are to be taken by all employees to minimize the risk to person and property of all operations. The company management team has the responsibility to take a leadership role and develop policies and procedures that effectively minimize incidents and accidents. Employees have the responsibility to bring to the attention of their immediate supervisor, procedures and incidents which may impair a safe work environment. Our policy is to:

1) Comply with all applicable government regulations.
2) Provide staff with all the necessary information, training and equipment.
3) Develop processes, policies and procedures that minimize the occurrence and consequences of incidents.

Prior to any work commencing at a worksite, an Emergency Response Plan (ERP) is to be developed for all potential scenarios which may occur while on site and procedures must be in place to verify that transportation to the nearest hospital is available. The ERP must ensure that, under normal circumstances, ambulance service is readily available at the worksite, or if ambulance service is not readily available to the work site, or if travel conditions are not normal, other transportation is to be made available that:

a) is suitable, considering the distance to be traveled and the types of acute illnesses or injuries that may occur at the work site;
b) protects occupants from the weather;
c) has systems that allow the occupants to communicate with the health care facility to which the injured or ill worker is being taken; and
d) can accommodate a stretcher and an accompanying person, if required.

3. Purpose & Scope

The purpose of this Plan is to outline response actions to be taken in the event of an emergency. The scope of this Plan includes operation and maintenance of the Facility. This procedure applies to all employees and contractors at the Cambridge Bay soil treatment facility.

An emergency is any situation requiring rescue or evacuation and may include:

a) fatal or severe injuries;
b) fire or explosion;
c) forces of nature (flooding, blizzards, tornado, etc.);
d) emission of toxic dust, gases, vapors or liquids; or
e) threat of sabotage, civil disobedience or violence.

Nunavut Excavating will manage any emergency response responsibly and will comply with all licenses, permits and applicable territorial and federal laws and regulations related to emergency response specific to Facility operation.

The objectives of the ERP are to provide written notification procedures to all personnel and provide personnel the means of fast, efficient action to:

1) Safeguard personnel and property;
2) Protect the general public and neighboring industries; and
3) Work with customers on site to reduce and eliminate the emergency situation.

a) Project Description

The purpose of this project is to construct and operate a permanent facility in the Hamlet of Cambridge Bay, NU. The site of the proposed facility is currently occupied by a temporary storage soils management area. Following bioremediation, treated soil meeting license criteria will be beneficially reused off site. Soil not meeting discharge/reuse criteria will be transported off site for disposal at a suitable facility. The facility will also include a snow/water containment area along with a waste storage area for containerized wastes (ie. used oil drums). Water from the containment area will be treated using a mobile water treatment plant

The proposed facility will include: 1 engineered cell approximately 40 m x 50 m, for receipt, storage and treatment of petroleum hydrocarbon-contaminated soil, water and containerized waste; potentially one small shed for storage of supplies, documentation and health and safety equipment; one spill kit.

The proposed facility is intended to operate for a duration of five (5) years commencing in summer of 2018.

4. Emergency Response Planning

a) Roles and Responsibilities

Written emergency procedures are in place to address specific emergency situations. Supervisors at active work sites are responsible to:

1) Determine possible emergency situations, which may include fire, gas leak, medical emergency, tornado, spills, violence, etc.
2) Develop procedures to address events such as evacuation, emergency phone numbers, need for personal protective equipment, clean up, training, hazard identification and reporting instructions.
3) Verify that transportation to the nearest hospital is available.
4) Ensure that emergency response equipment is clearly identified, stocked and maintained in working order (i.e. fire extinguishers, spill kits and first aid supplies).
5) Identify areas where smoking is prohibited, portable fire extinguishing equipment is stored and accessed, and flammable and combustible liquids are stored.
6) Ensure on-site personnel have received site specific emergency response training.

Specific roles and responsibilities are presented in Table 1.

Table 1 Emergency response roles and responsibilities

RESPONSIBILITIES	***MANAGER SUPERVISOR***	***HSE RISK ADVISOR***	***EMPLOYEE***
Determine emergency response requirements	**X**	**X**	
Develop emergency response plans	**X**	**X**	
Develop and implement ERP training	**X**	**X**	
Know and understand ERP	**X**	**X**	**X**
Provide assistance for ongoing improvement of ERP	**X**	**X**	**X**
Provide alarm/communication system	**X**	**X**	
Confirm all areas have been notified of emergency	**X**		**X**
During emergency, sweep area to ensure evacuated	**X**		**X**
Maintain fire suppression, extinguisher	**X**	**X**	**X**
Inspections	**X**	**X**	**X**
Records and documentation	**X**	**X**	

b) Alarms and Communication

In the event of an incident requiring an emergency response and/or evacuation, it is the responsibility of the site supervisor to contact their direct manager.

NOTE: *If you are unable to reach your immediate supervisor and/or manager contact an Health, Safety and Environment (HSE) Advisor. Continue trying to reach your supervisor/manager or the HSE Advisor until you have direct contact.*

In the event of a serious emergency, no media representatives are allowed access to any emergency scene without authorization from senior management. Speaking with media or providing information on an emergency situation is strictly prohibited.

Communication to be used in emergencies will be dependent on the location and conditions of the emergency. Site evacuation alarms (air horns) are to be available and identified at the work site. Personnel should be aware of site communication methods in the event of an emergency. Verbal communication may be effective in some situations; however, work activities may restrict verbal communication.

Emergency contact numbers for the Cambridge Bay STF can be found in Appendix A.

c) First Aid

The initial and primary response on site is often critical to the management and recovery from an injury, illness or other condition that may happen at the workplace to any person. The workplace is to be equipped with an adequate number of trained personnel and appropriate equipment to treat an injury at the workplace. A list of personnel trained in first aid and CPR will be maintained and provided at the work site. First aid training requirements will be based on the number of workers on the site and consideration given to the work being conducted.

d) Evacuation Routes

All staff must be aware of their location’s evacuation route and final gathering point or muster area, which will be posted at the work site. Once gathered, a head count is to be taken and all on-site personnel are to be accounted for. All personnel and visitors coming onto the site will receive appropriate emergency response training and a map outlining the evacuation route should be posted throughout the work site for all staff and visitors to review.

e) Emergency Response Training and Drills

Emergency response drills will be conducted to ensure critical parts of the Plan have been addressed and deficiencies corrected. All emergency response scenarios will be exercised (i.e. man down, evacuation, etc.) via table top exercises and at least one scenario will be physically exercised annually. The exercise will be evaluated to identify all deficiencies and corrections are to be implemented immediately as directed by management.

f) Equipment

All firefighting, first aid and spill response equipment (i.e. fire extinguishers) are to be inspected monthly and are recharged and serviced each year. Fire extinguisher, spill response and basic first aid training is provided to all employees.

5. Emergency Response Procedures

NE's approach to effective emergency response requires site personnel to do the following, as soon as they become aware of an emergency situation:

ALARM-when you become aware of an emergency you must alert others and activate the emergency response plan.

GET HELP-depending on the situation this could be co-workers, manager, police, fire department, etc..

ASSESS the situation for hazards to yourself (electricity, fire, gases, etc.); remember, if you become a victim you cannot help anyone else.

MINIMIZE hazardous conditions if you possess the required training and it is safe to do so (don PPE, remove ignition source, first aid, fire extinguisher, spill containment, close doors, turn off equipment, etc.).

EVACUATE the area by notifying occupants to "*Please evacuate the premises using the safest route to the designated meeting point across the road from the main entrance*".

REPORT to your supervisor for a head count and any other evacuation instructions.

WAIT for permission to reoccupy the area from responding emergency personnel (police, fire, ambulance, etc.).

COMPLETE an incident report immediately based on the situation that occurred.

6. Reporting

A copy of this Plan will remain on site and available to employees at all times. This Plan will be reviewed by affected supervisors, workers and subcontractors after the occurrence of any drill/emergency, if conditions at the work site change to include other potential emergencies, and again annually at a health and safety meeting. Immediately after the emergency response plan review a drill must be scheduled and a *Fire & Evacuation Drill Report* completed with any action items that were identified during the drill.

Following an incident where a serious injury or fatality has occurred, government agencies are to be notified immediately and may wish to investigate the cause and extent of the damage. Work at the scene of a fatality, or other reportable incident as indicated by Occupational Health and Safety legislation, may not be resumed until permission has been received from appropriate authorities (i.e. police or other government agency).

Exceptions may be made to attend to persons injured or killed, preventing further injuries, and protecting property that is

endangered as a result of the incident. Care shall be exercised to ensure all evidence is preserved in its original state.

NUNAVUT EXCAVATING LTD.

1825 Federal Road

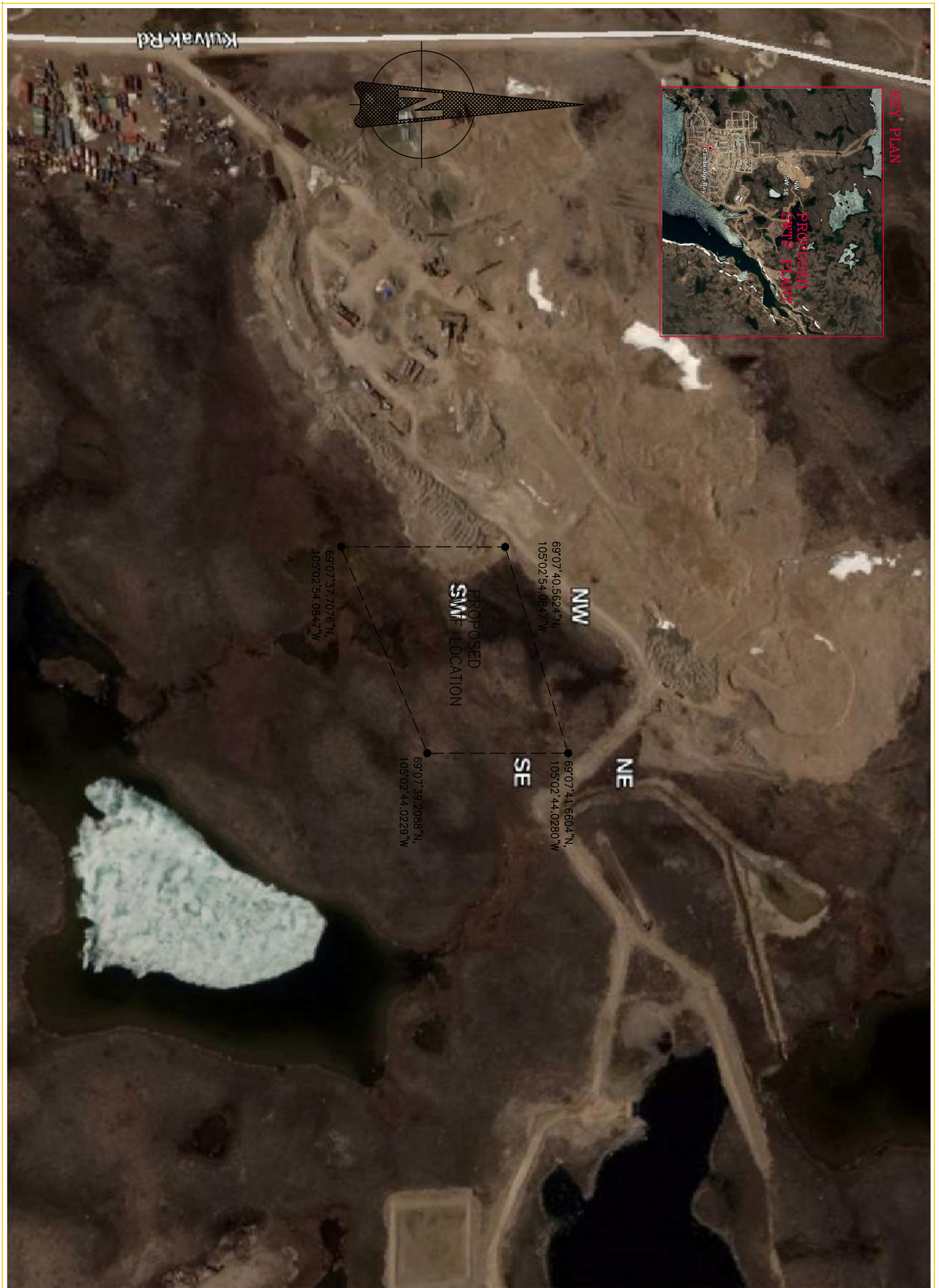
Iqaluit, NU

X0A 0H0

TEL: 867-975-3320

NAME	POSITION	OFFICE	CELL
Glen Molloy	Manager	867-975-3320	709-728-7659
Corwin Mullett	Operations Supervisor	867-975-3320	867-222-4969
Joanne Buttler	Accounting Manager	867-975-3320	709-745-0100

Baffin Regional Hospital 867-975-8600
Qulliq Energy Corporation.....866-710-4201
Northwestel..... 800-661-0790
NU Environment and Natural Resources 24 hr. Spill Report Line 867-920-8130
Workers' Safety & Compensation Commission (WSCC).....800-661-0792
CANUTEC 888-226-8832
Police..... 867-979-1111
Fire, Ambulance 867-979-4422



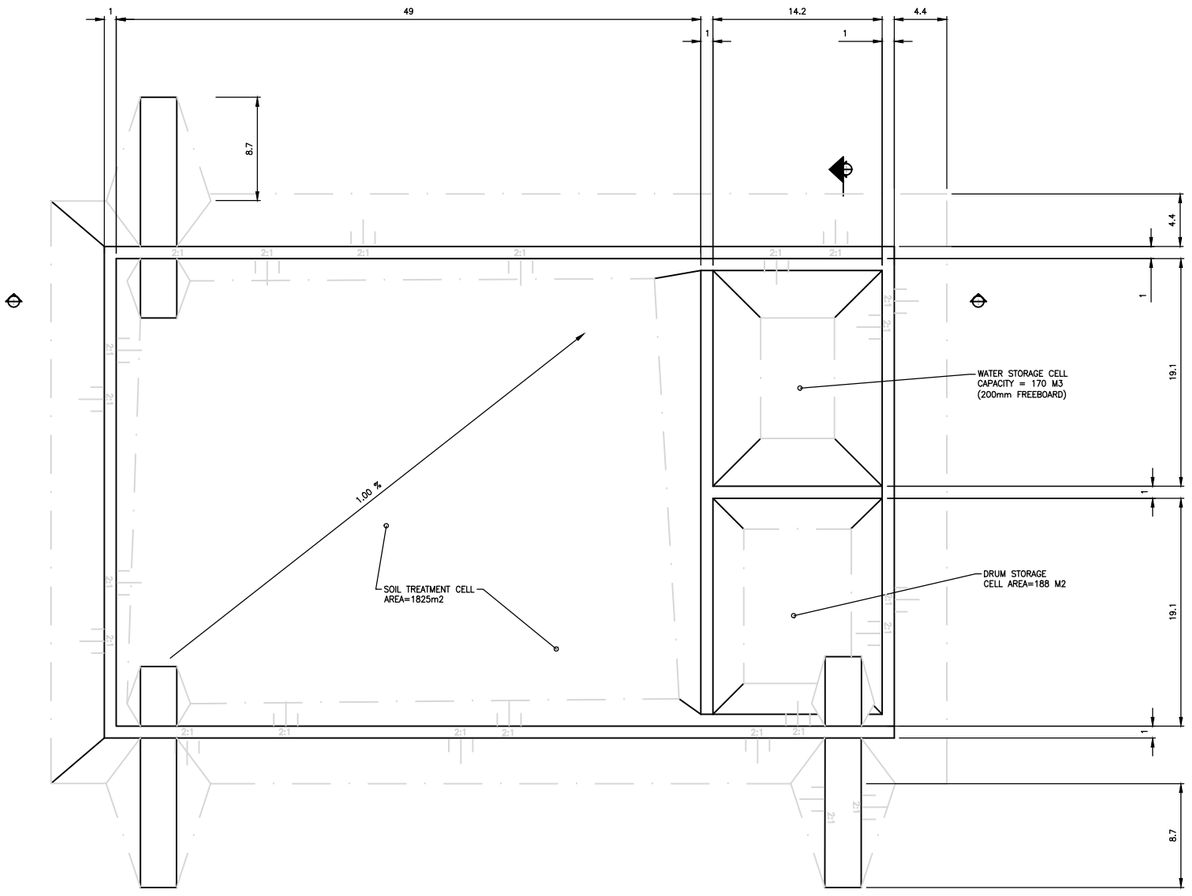
SITE PLAN

SOIL TREATMENT FACILITY
SITE PLAN
CAMBRIDGE BAY, NUNAVUT

NUNAVUT EXCAVATING

CAMBRIDGE BAY, NUNAVUT

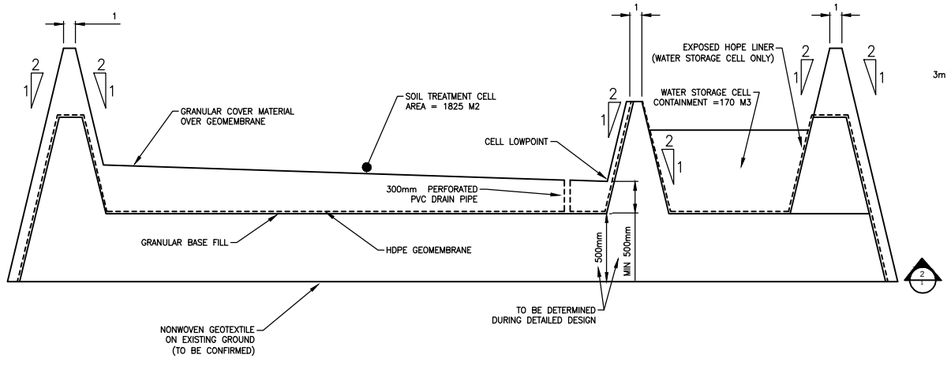
DRW'N BY:	D.B.
DATE:	JUNE 2018
SCALE: N.T.S	DWG NO.



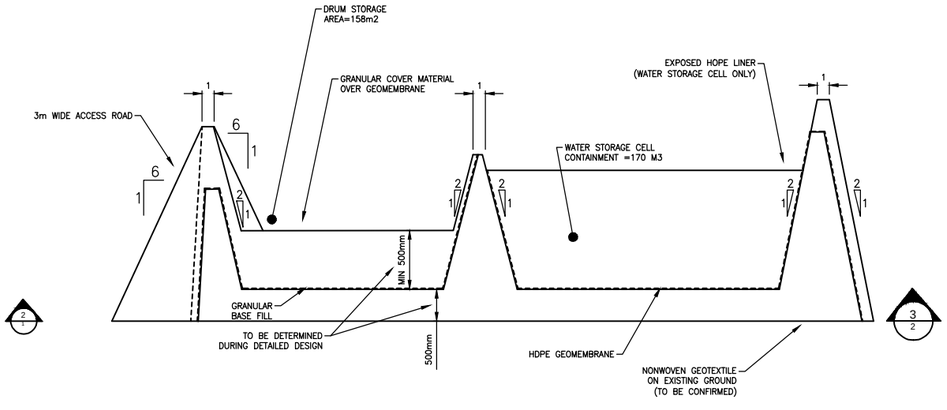
PLAN

NOTES:

1. FIGURE IS IN SUPPORT OF NUNAVUT EXCAVATION'S APPLICATION FOR A DEVELOPMENT PLAN FOR A SOIL TREATMENT FACILITY IN CAMBRIDGE BAY, NU.
2. FIGURES PRESENT GENERAL LAYOUTS AND CONCEPTUAL DESIGNS. FINAL DESIGNS AND CONSTRUCTION WILL DEPEND ON FIELD CONDITIONS AND LOCALLY AVAILABLE CONSTRUCTION MATERIALS.
3. SCALES AND DIMENSIONS ARE APPROXIMATE.
4. EXISTING GRADE IS ASSUMED TO BE FLAT AND LEVEL. ACTUAL CONFIGURATION WILL MAKE USE OF ADVANTAGEOUS NATURAL SLOPE ORIENTATIONS.
5. BERM HEIGHT MAY BE INCREASED TO ACCOMMODATE FIELD CONDITIONS.
6. GEOMEMBRANE INSTALLATION QUALITY CONTROL AND QUALITY ASSURANCE SHALL BE CONDUCTED THROUGHOUT INSTALLATION ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. BERMS AND BASE SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY IN LIFTS UP TO 300 MILLIMETERS.
8. PERMAFROST INSULATION LAYER AND GRADING FILL IS TO BE GRADED AND PROOF ROLLED WITH SMOOTH DRUM ROLLER OR SMOOTH PLATE PRIOR TO PLACEMENT OF GEOTEXTILE AND GEOMEMBRANE.
9. BERM SLOPES TO BE CONFIRMED DURING DETAILED DESIGN.
10. MINIMUM DEPTH OF BASE FILL ABOVE EXITING GROUND TO BE CONFIRMED DURING DETAILED DESIGN.



SECTION



SECTION

SITE PLAN AND SECTION

DRW'N BY: D.B.

DATE: JUNE 2018

SCALE: N.T.S

DWG NO.

NUNAVUT EXCAVATING

CAMBRIDGE BAY, NUNAVUT

SOIL TREATMENT FACILITY
CONCEPTUAL DESIGN
CAMBRIDGE BAY, NUNAVUT