## **Appendix 33**

### **Meadowbank 2019 Landfarm Report**



### MEADOWBANK GOLD PROJECT

### 2019 Landfarm Report

In Accordance with NIRB Project Certificates No.004 & No. 008 & NWB Type A License 2AM-MEA1525 & 2AM WTP1826

Prepared by:
Agnico-Eagle Mines Limited – Meadowbank Division

March, 2020

#### **EXECUTIVE SUMMARY**

As per the Landfarm Design and Management Plan (LDMP; March, 2017), this report has been prepared to provide the following information regarding landfarm activities in 2019:

- volume of material added to and removed from the facility
- disposal or reuse location
- results from laboratory analyses of soil and contact water
- volume and type of nutrient additions
- visual inspection results
- volume of contact water pumped

Meadowbank's first landfarm (Landfarm 1) was constructed in 2012 and located on the north-west side of the South Tailings Cell within the Tailings Storage Facility. Since this area was planned to eventually become flooded with reclaim water, Agnico constructed a new landfarm (Landfarm 2) in 2016, in order to continue the treatment of contaminated soil. In 2019 the Landfarm 1 area became flooded with reclaim water, and it is thus no longer in operation.

Based on surveys conducted by Meadowbank's Engineering Department, it is estimated that between January 1, 2019 and January 17, 1225 m³ of soil were added to Landfarm 2 from excavation of spills around the Meadowbank and Whale Tail sites. The remaining estimated capacity of the landfarm is 7329 m³. With an average annual excavated spill volume of 346 m³, the available landfarm volume will not be exceeded within the expected life of mine.

No landfarm soil sampling was conducted in 2019, and no material was removed from the landfarm.

Nutrient additions in the form of sewage sludge occurred in August, 2019, as detailed in the LDMP. Total volume of these additions was not recorded. Except to mix the nutrient amendment into the biopiles, no additional aeration was performed in 2019.

Visual inspections (33 times) indicated that the landfarm berm and pad appear to be structurally intact, and no maintenance was required.

No ponded water or seepage from the landfarm area was observed, so no water quality monitoring was required.

NRC conducted chemical and microbiological analyses of soil samples from the landfarm in October, 2017. Recommendations for enhancing biodegradation rates were made (specific nutrient amendment), which will be assessed for feasibility in 2020.

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#### SECTION 1 • INTRODUCTION

#### 1.1 BACKGROUND

Onsite storage and remediation has been established as the preferred method for treatment of petroleum hydrocarbon-contaminated soil that may be generated at Meadowbank facilities. Specifically, remediation through land farming has been identified as the primary treatment option. The Landfarm Design and Management Plan (LDMP) was updated in March 2017 to describe the operational procedures used onsite in relation to this management strategy.

#### 1.2 OBJECTIVES

Per the Landfarm Design and Management Plan (March, 2017) this report summarizes the following aspects of the Meadowbank landfarm operation in 2019:

- volume of material added to the facility,
- amount of material removed
- · disposal or reuse location,
- all analysis results,
- volume and type of nutrient addition,
- visual inspection results
- volume of contact water pumped.

A summary of pilot and supporting studies on biodegradation rates in the Meadowbank landfarm in 2012/2013 and 2017 are also provided.

# SECTION 2 • PILOT STUDY (2012-2013) & BIODEGRADATION STUDY (2017)

### 2.1 PILOT STUDY (2012 – 2013)

A number of studies have indicated that amendment with nutrients may increase rates of biodegradation in PHC contaminated soils, but the effectiveness of this practice is not well defined in northern climates. In order to determine effectiveness of nutrient additions at Meadowbank, a pilot project was conducted to examine rates of biodegradation with and without nutrient amendment. For this study, the nutrient addition was treated sewage treatment plant (STP) sludge.

The main objectives of this study were to determine if rates of PHC degradation in soil at the Meadowbank site are sufficiently rapid to achieve remediation within acceptable time frames

(at least prior to closure), and whether additions of sewage sludge significantly impacts degradation rates.

In 2012, three pilot piles in the landfarm facility were treated with 400 gallons of sewage sludge as a nutrient source. Sewage sludge was mixed into the pilot piles on October 8<sup>th</sup> 2012. Each pile consisted of approximately 140 m³ of soil. Samples of the nutrient-treated piles were taken in July 2013 (CSP-STP-1, 2, 3) in attempts to determine if this method of nutrient amendment significantly affects rates of PHC degradation.

Representative composite samples of two non-treated piles (CSP-WDP-1, 2) were taken from two locations (0.5 m depth) in October 2012 and again in July 2013 to assess degradation of TPH over this time period without sewage sludge amendment. Samples were sent to an accredited analytical laboratory and analyzed for humidity, BTEX and F1-F4 hydrocarbons.

Overall, rates of PHC degradation were found to be sufficiently rapid to warrant continued use of the landfarm as a viable treatment for spills of the designated materials. Nutrient treatment appeared to generally increase degradation rates, particularly for the F3 fraction. Use of the landfarm with application of sewage sludge as a nutrient treatment has therefore been continued and has become a regular practice at the landfarm.

### 2.2 BIODEGRADATION FEASIBILITY STUDY (2017)

To confirm the feasibility of continuing to remediate PHC contaminated soils in the Meadowbank landfarm, a biodegradation feasibility study was conducted by the National Research Council of Canada (NRC) in October, 2017. A full report is provided in the 2017 Landfarm Report. The goal of the study was to characterize the PHC contamination in the soil (PHC Fractions F1-F4, PAHs, etc.), compare the concentrations of detected PHCs to the Canadian Council of Ministers of the Environment (CCME) guidelines, and perform a feasibility study to examine the potential of the indigenous microbial population to biodegrade the PHC(s) exceeding CCME guidelines. The feasibility study examined several nutrient amendments to identify the most promising approach to augment indigenous PHC biodegradation activities compared to the current PHC biodegradation rates.

Results indicated a moderate level of PHC F2 and F3 contamination (exceedances of CCME guidelines occurred for all samples), with no BTEX nor PAHs detected above the RDL. Soil nitrogen and TOC contents were moderate, and the bacterial numbers, both total heterotrophs and diesel degraders, were typical for a soil of this type. Mineralization results indicated that there was a good indigenous biodegradation activity for both hexadecane and naphthalene, and both of these communities benefited from the addition of a nutrient amendment. Recommendations for enhancing biodegradation rates were made, including use of a specific nutrient amendment, and mixing of the biopiles.

#### SECTION 3 • LANDFARM ACTIVITIES

#### 3.1 LANDFARM 1

The original landfarm design was submitted by Agnico to the Nunavut Water Board in October 2012 and was in use until 2016. As presented in Figure 1 below, the original landfarm (Landfarm 1) was located on the north-west side of the South Tailings Cell impoundment (within the Tailing Storage Facility – TSF).

Knowing that this landfarm area would eventually become flooded with reclaim water, Agnico decided to find an alternate location for a new landfarm in 2016 (Landfarm 2, see below).

Contaminated soil was deposited in Landfarm 1 from 2013 – 2016.

In 2017, activities at Landfarm 1 were limited to relocation of contaminated soil (~half the volume) to Landfarm 2.

In 2018, no activities occurred at Landfarm 1.

In 2019, Landfarm 1 was flooded by reclaim water, and is no longer in operation.

#### 3.2 LANDFARM 2

The Landfarm 2 facility was constructed in October 2016 in order to provide sufficient area for the ongoing treatment of contaminated soil.

As presented on Figure 1, Landfarm 2 is located on the north east side of the South Tailing Cell, north of the Central Dike. Locating this site within the tailings impoundment provides containment in case of runoff water from the contaminated material.

Landfarm 2 is located 900 m west of the nearest water body, Dogleg Lake. Surface drainage in the area of the Landfarm 2 is westerly, towards the South Tailings Cell and away from surface watercourses.

Specifications of the Landfarm 2 design are presented in the LDMP. The facility is designed with one soil remediation/storage cell, which is constructed with a 2.5 m high berm and a 0.5 m thick layer of compacted till base with hydraulic conductivity estimated of 1x10<sup>-7</sup> m/s. The slope of the base is 3% towards the East side, leading to a slope of 7% towards the South Tailings Cell. The pad underneath the till layer varies between 6 m and 22.5 m thick, based on elevation of the tundra underneath, which ranges from 151 masl to 134 masl. In the Meadowbank area, the shallow groundwater is estimated to be 1.5 m below surface (active layer of permafrost July to September), at the average depth of thaw. Therefore, no impacts to groundwater are anticipated.

From 2017 - 2019, soil was either relocated from Landfarm 1 to Landfarm 2, or deposited in Landfarm 2 from the clean up of spills around the mine site. Details of soil additions and removals for Landfarm 1 and 2 are provided in Section 3.3.

As per the Water License 2AM-MEA1525 Part F, Item 18; "Water accumulating in the landfarm shall be contained within the landfarm and not be discharged to the environment". The water will be managed and contained within the landfarm, and discharged to the TSF if required. The monitoring station ST-14B was created and will be sampled as per requirement of the Water License.

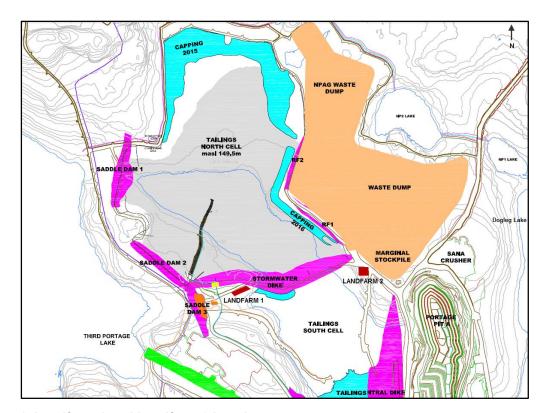


Figure 1. Landfarm 1 and Landfarm 2 locations.

### 3.3 SOIL ADDITION AND REMOVAL

From landfarm survey data, 1225 m³ of soil were added to Landfarm 2 between January 2019 and January 2020 from excavation of PHC spills around the Meadowbank and Whale Tail sites.

No soil was relocated to Landfarm 2 from Landfarm 1 in 2019, leaving 655 m³ in Landfarm 1 (as in 2017 & 2018). That soil will now form part of the TSF, and Landfarm 1 is considered closed.

A summary of spills occurring in 2019 including those for which excavated material was sent to the landfarm are provided in the 2019 Annual Report.

### 3.3.1 Very Coarse Material (>1") Screening

As described in the Landfarm Design and Management Plan, the use of an Extec screener to separate coarse and fine material was tested in September, 2013, and use was continued annually through 2017. No screening occurred in 2018 or 2019, and no coarse material was removed from the landfarm during this time.

#### 3.3.2 Remediated Fine Soil Removal

According to the LDMP, in order for landfarmed soil to be considered remediated and removed for use onsite (e.g. road works), samples must meet GN criteria for agricultural/wildlands. Soil meeting industrial criteria may be removed to the waste rock storage facility where it will eventually be capped with up to 2 m of fill, or used as base cover in the TSF where it will eventually be capped with up to 4 m of fill.

No confirmatory sampling of soil for removal from the landfarm was conducted in 2019, and no soil was removed.

A summary of historical sample results for years in which sampling was conducted (2014 – 2016) is provided in Table 1. Since landfarm additions and removals occurred each year, piles were mixed, and sampling locations are not consistent, year-over-year trends were not assessed.

Table 1. Government of Nunavut soil quality criteria for agricultural/wildlands and industrial areas, and results of landfarm soil analyses. \*Sample locations do not necessarily correspond year-over-year. Samples exceeding GN Agricultural/Wildland criteria are shaded grey.

Vaar	Commis Namet	Parameter							
Year	Sample Name*	Benzene	Toluene	Ethylbenzene	Xylene	F1	F2	F3	F4
Agricultural/ Wildland (mg/kg)>		0.03	0.37	0.082	11	30	150	300	2800
Industrial (mg/kg) >		0.03	0.37	0.082	11	320	260	1700	3300
	CSP-1A	-	-	-	-	<0.06	900	3500	650
	CSP-1B	-	-	-	-	<0.06	380	2200	460
	CSP-STP-2A	_	-	-	-	<0.06	590	2200	6400
	CSP-STP-2B	-	-	-	-	<0.06	450	2300	6600
2014	CSP-3	-	-	-	-	<0.06	25	110	<50
	CSP-4A	-	-	-	-	<0.06	480	3300	520
	CSP-4B	-	-	-	-	<0.06	51	1100	210
	CSP-5A	_	-	-	-	<0.06	51	2500	550

Year Sample Name*				Para	ameter				
Teal	Sample Name	Benzene	Toluene	Ethylbenzene	Xylene	F1	F2	F3	F4
	CSP-5B	-	-	-	-	<0.06	460	5100	1000
	CSP-5C	-	-	-	-	<0.06	130	2100	540
	CSP-5D	-	-	-	-	<0.06	38	1400	360
	CSP-5E	-	-	-	-	<0.06	61	1900	450
	CSP-6	-	-	-	-	0.22	2300	610	57
	Average						455	2178	1483
	CSP-1a	<0.03	<0.06	<0.06	<0.06	<0.3	600	3200	490
	CSP-1b	<0.03	<0.06	<0.06	<0.06	<0.3	350	2300	380
	CSP-2a	<0.03	<0.06	<0.06	<0.06	<0.3	810	6200	2400
	CSP-2b	<0.03	<0.06	<0.06	<0.06	<0.3	5600	20000	3100
	CSP-3a	<0.03	<0.06	<0.06	<0.06	<0.3	670	4200	490
	CSP-3b	<0.03	<0.06	<0.06	<0.06	<0.3	920	3500	530
2015	CSP-4	<0.03	<0.06	<0.06	<0.06	<0.3	840	320	<50
2015	CSP-5a	<0.03	<0.06	<0.06	<0.06	<0.3	260	5200	720
	CSP-5b	<0.03	<0.06	<0.06	<0.06	<0.3	2000	13000	1600
	CSP-5c	<0.03	<0.06	<0.06	<0.06	<0.3	38	1500	350
	CSP-5d	<0.03	<0.06	<0.06	<0.06	<0.3	640	7300	1600
	CSP-6a	<0.03	<0.06	<0.06	<0.06	<0.3	<10	620	79
	CSP-6b	<0.03	<0.06	<0.06	<0.06	<0.3	200	1200	200
	Average						1052	5496	1057
	CSP-1a	<0.03	<0.06	<0.06	<0.06	<0.3	350	3000	530
	CSP-1b	<0.03	<0.06	<0.06	<0.06	<0.3	240	2400	490
	CSP-1c	<0.03	<0.06	<0.06	<0.06	<0.3	840	5400	930
2016	CSP-2a	<0.03	<0.06	<0.06	<0.06	<0.3	470	3000	560
	CSP-2b	<0.03	<0.06	<0.06	<0.06	<0.3	560	5800	1200
	CSP-2c	<0.03	<0.06	<0.06	<0.06	<0.3	240	2200	400
	Average						450	3633	685

#### 3.4 NUTRIENT ADDITIONS AND SOIL AERATION

As permitted under the LDMP, nutrient additions in the form of sewage sludge occurred in August, 2019. Total volume of these additions was not recorded, due to onsite miscommunications. Actions will be implemented in 2020 to ensure better records are maintained.

Recommendations made in the 2017 NRC study (Section 2) for addition of a specific nutrient amendment were planned to be implemented in 2019, but will now be assessed for feasibility in 2020.

Except to mix the nutrient amendment into the biopiles, no additional aeration was performed in 2019.

#### 3.5 REMAINING LANDFARM CAPACITY

For Landfarm 2, the useful area is 3815 m². It is considered that contaminated material can be stockpiled up to 4 m high. Accounting for a 25% loss of area due to sloping at that windrow height, the landfarm area will allow for the storage of a maximum of 11,445 m³.

With a current contaminated soil stockpile volume of 4116 m³ (excluding remaining soil at Landfarm 1), and conservatively assuming no soil remediation & removal prior to closure, Landfarm 2 will be able to accommodate an additional 7329 m³ of soil. With an average annual excavated spill volume of 346 m³ (LDMP), the available landfarm volume will not be exceeded within the expected life of mine.

Thus, ample room will be available to accommodate expected future contaminated soil, and to maintain smaller windrow piles to maximize rates of biodegradation and volatilization.

#### 3.6 WATER MANAGEMENT

No ponded water or seepage from the landfarm area was identified in 2019, so no water quality sampling was required.

#### 3.7 REQUIRED MAINTENANCE

Visual inspections (see Appendix A) indicated that the landfarm berm and pad appear to be structurally intact, and no maintenance requirements were identified.

On December 12, wood and food waste was identified in the landfarm area (Appendix A). This material was removed and disposed of in the appropriate locations (landfill and incinerator, respectively).

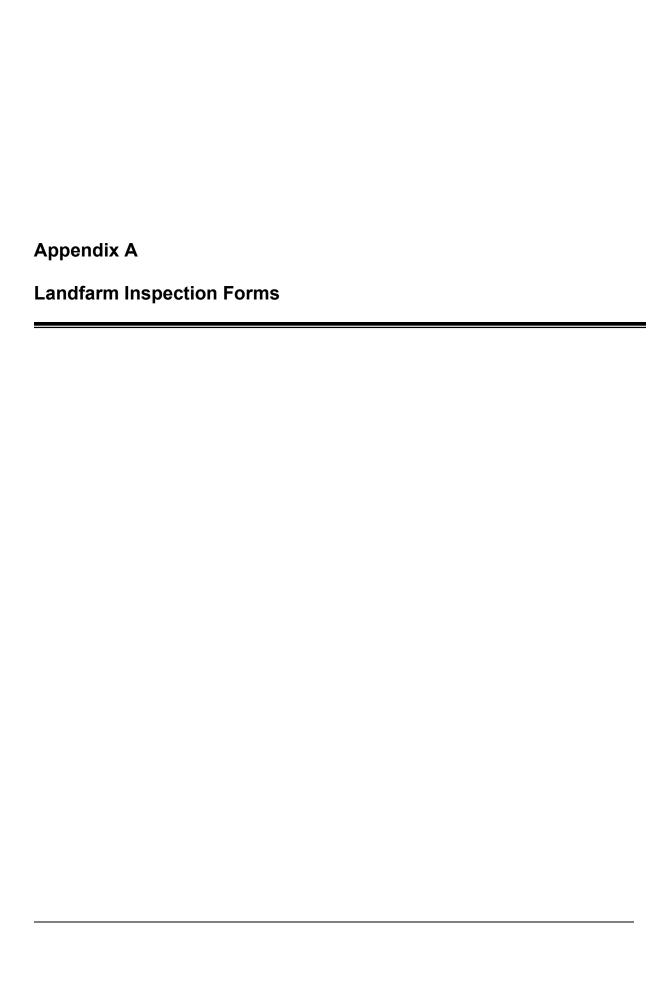
### SECTION 4 • ACTIONS

The following actions were identified for 2019, and Agnico's responses are indicated:

- Investigate and if feasible, apply the nutrient amendment recommended in the 2017 study by NRC
  - o Was not possible to be completed in 2019. Will address if feasible in 2020.

The following actions are planned for 2020:

- Investigate and if feasible, apply the nutrient amendment recommended in the 2017 study by NRC.
- Develop and implement communications plan to ensure records of sewage sludge additions to the landfarm are maintained.





### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-01-03 **Inspected By:** Nicolas Saucier

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?	Х			
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	Х			



	debris, including wind-				
	blown debris.				
	Visual sign of runoff or	X			
	seepage. If so, record	Λ			
NWB Part I Item	and report the				
10 and 15	observation and the				
	flow.				
NWB Part I Item	Annual Geotechnical	X			2018
12	inspection completed.	**			2010
12	Date?				
Landfarm	Maximum windrow size	X			
Design and	was 15 m wide at base x				
Management	4 m high x 50 m long				
Plan	3 - 1 - 3				
Landfarm	Larger coarse material	X			
Design and	(> 1") was separated				
Management Plan	from the finer material				
1 1411	A record is kept for the	X			
Landfarm	amount of	Χ			
Design and	contaminated soil				
Management	placed in the landfarm				
Plan	and the location of each				
	load within the facility.				
Landfarm	Does new contaminated	X			
Design and	soil was bringing to	**			
Management	Landfarm without				
Plan	authorization? If so,				
1 1011	estimated quantity.				
Landfarm	A record is kept for the	X			
Design and	amount of remediated				
Management	contaminated soil,				
Plan	disposal location and usage.				
	Does some pile are	X			
Landfarm	remediated and ready	Λ			
Design and	to remove from				
Management	landfarm (respect GN				
Plan	guideline)?				
	Soil mixed mechanically			X	
Landfarm	with earth-moving				
Design and	equipment (2-4 times				
Management	per year, during the				
Plan	summer months).				
Landfarm	Date?  Does the windrow are	v	+	+	
Design and	dry prior to turning? If	X			
Management	yes, we need to				
Plan	moisture the pile.				
-	Soil treatment with	X			
Landfarm	sewage sludge as	11			
Design and	nutrient supplement, at				
Management	least once during				
Plan	summer on selected				
	windrows.				
Landfarm	Windrows sampled	X			
Design and	annually at the end of				



_	,		1	 
Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.			
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

### **Comments/Recommendations:**

There was no non-conformity observed during the time of the inspection. Thank you for your continued efforts.

**Environmental Personnel Name:** Nicolas Saucier

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	



### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-01-11 **Inspected By:** Nicolas Saucier

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?	Х			
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	Х			



	debris, including wind-				
	blown debris.				
	Visual sign of runoff or	X			
	seepage. If so, record	Λ			
NWB Part I Item	and report the				
10 and 15	observation and the				
	flow.				
NWB Part I Item	Annual Geotechnical	X			2018
12	inspection completed.	**			2010
12	Date?				
Landfarm	Maximum windrow size	X			
Design and	was 15 m wide at base x				
Management	4 m high x 50 m long				
Plan	3 - 1 - 3				
Landfarm	Larger coarse material	X			
Design and	(> 1") was separated				
Management Plan	from the finer material				
1 1411	A record is kept for the	X			
Landfarm	amount of	Χ			
Design and	contaminated soil				
Management	placed in the landfarm				
Plan	and the location of each				
	load within the facility.				
Landfarm	Does new contaminated	X			
Design and	soil was bringing to	**			
Management	Landfarm without				
Plan	authorization? If so,				
1 1011	estimated quantity.				
Landfarm	A record is kept for the	X			
Design and	amount of remediated				
Management	contaminated soil,				
Plan	disposal location and usage.				
	Does some pile are	X			
Landfarm	remediated and ready	Λ			
Design and	to remove from				
Management	landfarm (respect GN				
Plan	guideline)?				
	Soil mixed mechanically			X	
Landfarm	with earth-moving				
Design and	equipment (2-4 times				
Management	per year, during the				
Plan	summer months).				
Landfarm	Date?  Does the windrow are	v	+	+	
Design and	dry prior to turning? If	X			
Management	yes, we need to				
Plan	moisture the pile.				
-	Soil treatment with	X			
Landfarm	sewage sludge as	11			
Design and	nutrient supplement, at				
Management	least once during				
Plan	summer on selected				
	windrows.				
Landfarm	Windrows sampled	X			
Design and	annually at the end of				



_	,		1	 
Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.			
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

### **Comments/Recommendations:**

There was no non-conformity observed during the time of the inspection. Thank you for your continued efforts.

**Environmental Personnel Name:** Nicolas Saucier

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	



### **Environmental Inspection Report for the Meadowbank Landfarm**

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			Х	Winter, no water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	Х			



	debris, including wind-			
	blown debris.			
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	Х		
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X		2018
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X		
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X		
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X		
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X		
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X		
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X		
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months).  Date?		X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.		X	Winter season
Landfarm Design and Management Plan	Soil treatment with sewage sludge as nutrient supplement, at least once during summer on selected windrows.	X		
Landfarm Design and	Windrows sampled annually at the end of	X		



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Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.			
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

### **Comments/Recommendations:**

Area was up to conformance at the time of inspection. Thank you for your continued efforts.

Environmental Personnel Name: Jamie K/Kathleen N

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	





**Photo 1:** conformant at the time of inspection



### **Environmental Inspection Report for the Meadowbank Landfarm**

Date: 2019-01-24Inspected By: Jamie KLocation: LandfarmWeekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	Winter, no water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			Х	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	Х			



	debris, including wind-			
	blown debris.			
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X		
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X		2018
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X		
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X		
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X		
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X		
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X		
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X		
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months).  Date?		X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.		X	Winter season
Landfarm Design and Management Plan	Soil treatment with sewage sludge as nutrient supplement, at least once during summer on selected windrows.	X		
Landfarm Design and	Windrows sampled annually at the end of	X		



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Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.			
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

### **Comments/Recommendations:**

Area was up to conformance at the time of inspection. Thank you for your continued efforts.

**Environmental Personnel Name:** Jamie K

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	





**Photo 1:** conformant at the time of inspection



### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-02-07 **Inspected By:** Kathleen Newberry

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.		Х		See picture
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	Winter, no water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	Х			



	debris, including wind-			
	blown debris.			
	Visual sign of runoff or seepage. If so, record	X		
NWB Part I Item 10 and 15	and report the observation and the flow.			
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X		2018
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X		
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X		
Landfarm	A record is kept for the amount of	X		
Design and Management Plan	contaminated soil placed in the landfarm and the location of each load within the facility.			
	Does new contaminated	X		
Landfarm Design and	soil was bringing to Landfarm without	Λ		
Management Plan	authorization? If so, estimated quantity.			
Landfarm	A record is kept for the amount of remediated	X		
Design and Management Plan	contaminated soil, disposal location and usage.			
Landfarm	Does some pile are remediated and ready	X		
Design and Management Plan	to remove from landfarm (respect GN guideline)?			
Landfarm	Soil mixed mechanically with earth-moving		X	
Design and Management	equipment (2-4 times per year, during the			
Plan	summer months). Date?			
Landfarm Design and	Does the windrow are dry prior to turning? If		X	Winter
Management	yes, we need to			season
Plan	moisture the pile. Soil treatment with	17		
Landfarm	sewage sludge as	X		
Design and	nutrient supplement, at			
Management Plan	least once during summer on selected			
	windrows.			
Landfarm Design and	Windrows sampled annually at the end of	X		



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Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.			
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

### **Comments/Recommendations:**

The sign posted to inform of a waste disposal facility fell down. Everything else was up to conformance at the time of inspection. Thank you for your continued efforts.

**Environmental Personnel Name:** Kathleen N.

Site Service Supervisor Name:	Actions Corrected:	
Signature	Site Service Supervisor Name:	
Signature.	Signature:	





**Photo 1:** Sign posted to inform of a waste disposal facility fell down.



### **Environmental Inspection Report for the Meadowbank Landfarm**

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	Winter, no water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	X			



	debris, including wind-			
	blown debris.			
NWB Part I Item	Visual sign of runoff or seepage. If so, record	X		
10 and 15	and report the observation and the flow.			
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X		2018
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X		
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X		
Landfarm	A record is kept for the amount of	X		
Design and Management Plan	contaminated soil placed in the landfarm and the location of each			
	load within the facility.  Does new contaminated	**		
Landfarm Design and Management Plan	soil was bringing to Landfarm without authorization? If so,	X		
I 10	estimated quantity.  A record is kept for the	X		
Landfarm Design and	amount of remediated	71		
Management Plan	contaminated soil, disposal location and usage.			
Landfarm	Does some pile are remediated and ready	X		
Design and Management Plan	to remove from landfarm (respect GN guideline)?			
Landfarm	Soil mixed mechanically with earth-moving		X	
Design and Management Plan	equipment (2-4 times per year, during the summer months).			
rian	Date?			
Landfarm	Does the windrow are		X	Winter
Design and Management	dry prior to turning? If yes, we need to			season
Plan	moisture the pile.			
	Soil treatment with	X		
Landfarm	sewage sludge as			
Design and Management	nutrient supplement, at least once during			
Plan	summer on selected windrows.			
Landfarm Design and	Windrows sampled annually at the end of	X		



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Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.			
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

### **Comments/Recommendations:**

Everything OK. Thank you

**Environmental Personnel Name:** Kathleen N.

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	





### **Environmental Inspection Report for the Meadowbank Landfarm**

Date: 2019-03-02Inspected By: Nicolas SaucierLocation: LandfarmWeekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	Winter, no water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	Х			



	1		 	
	debris, including wind-			
	blown debris.			
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X		
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X		2018
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X		
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X		
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X		
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X		
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X		
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X		
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months).  Date?		X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.		X	Winter season
Landfarm Design and Management Plan	Soil treatment with sewage sludge as nutrient supplement, at least once during summer on selected windrows.	X		
Landfarm Design and	Windrows sampled annually at the end of	X		



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Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.			
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

#### **Comments/Recommendations:**

Everything is OK.

Thank you

**Environmental Personnel Name:** Nicolas Saucier

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	_
Site Service Supervisor Name:	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-03-07 **Inspected By:** Kathleen Newberry

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	Winter, no water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	X			



	debute to de discounts d			
	debris, including wind- blown debris.			
	Visual sign of runoff or	X		
NWB Part I Item	seepage. If so, record			
10 and 15	and report the			
	observation and the			
	flow.			
NWB Part I Item	Annual Geotechnical	X		2018
12	inspection completed.			
12	Date?			
Landfarm	Maximum windrow size	X		
Design and	was 15 m wide at base x			
Management				
Plan	4 m high x 50 m long			
Landfarm	I	X		
Design and	Larger coarse material	11		
Management	(> 1") was separated			
Plan	from the finer material			
	A record is kept for the	X		
Landfarm	amount of	Λ		
Design and	contaminated soil			
Management	placed in the landfarm			
Plan	and the location of each			
1 1011	load within the facility.			
	Does new contaminated	V		
Landfarm	soil was bringing to	X		
Design and	Landfarm without			
Management				
Plan	authorization? If so,			
	estimated quantity.			
Landfarm	A record is kept for the	X		
Design and	amount of remediated			
Management	contaminated soil,			
Plan	disposal location and			
	usage.			
Landfarm	Does some pile are	X		
Design and	remediated and ready			
Management	to remove from			
Plan	landfarm (respect GN			
1 1011	guideline)?			
	Soil mixed mechanically		X	
Landfarm	with earth-moving			
Design and	equipment (2-4 times			
Management	per year, during the			
Plan	summer months).			
	Date?			
Landfarm	Does the windrow are		X	Winter
Design and	dry prior to turning? If			
Management	yes, we need to			season
Plan	moisture the pile.			
	Soil treatment with	X		
Landfarm	sewage sludge as	1.		
Design and	nutrient supplement, at			
Management	least once during			
Plan	summer on selected			
	windrows.			
Landfarm	Windrows sampled	X		
Design and	annually at the end of	Λ		
2 331811 4114	annually at the cha of		 	1



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Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.			
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

#### **Comments/Recommendations:**

Everything is OK.

Thank you

**Environmental Personnel Name:** Kathleen Newberry

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-03-14 **Inspected By:** Kathleen Newberry

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	Winter, no water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	X			



	debute to de discounts d			
	debris, including wind- blown debris.			
	Visual sign of runoff or	X		
NWB Part I Item	seepage. If so, record			
10 and 15	and report the			
	observation and the			
	flow.			
NWB Part I Item	Annual Geotechnical	X		2018
12	inspection completed.			
12	Date?			
Landfarm	Maximum windrow size	X		
Design and	was 15 m wide at base x			
Management				
Plan	4 m high x 50 m long			
Landfarm	I	X		
Design and	Larger coarse material	11		
Management	(> 1") was separated			
Plan	from the finer material			
	A record is kept for the	X		
Landfarm	amount of	Λ		
Design and	contaminated soil			
Management	placed in the landfarm			
Plan	and the location of each			
1 1011	load within the facility.			
	Does new contaminated	V		
Landfarm	soil was bringing to	X		
Design and	Landfarm without			
Management				
Plan	authorization? If so,			
	estimated quantity.			
Landfarm	A record is kept for the	X		
Design and	amount of remediated			
Management	contaminated soil,			
Plan	disposal location and			
	usage.			
Landfarm	Does some pile are	X		
Design and	remediated and ready			
Management	to remove from			
Plan	landfarm (respect GN			
1 1011	guideline)?			
	Soil mixed mechanically		X	
Landfarm	with earth-moving			
Design and	equipment (2-4 times			
Management	per year, during the			
Plan	summer months).			
	Date?			
Landfarm	Does the windrow are		X	Winter
Design and	dry prior to turning? If			
Management	yes, we need to			season
Plan	moisture the pile.			
	Soil treatment with	X		
Landfarm	sewage sludge as	1.		
Design and	nutrient supplement, at			
Management	least once during			
Plan	summer on selected			
	windrows.			
Landfarm	Windrows sampled	X		
Design and	annually at the end of	Λ		
2 331811 4114	annually at the cha of		 	1



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Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.			
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

#### **Comments/Recommendations:**

Everything is OK.

Thank you

**Environmental Personnel Name:** Kathleen Newberry

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-04-03 **Inspected By:** Kathleen Newberry

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	Winter, no water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	X			



	delegie in de din mente d			
	debris, including wind- blown debris.			
	Visual sign of runoff or	X		
NWB Part I Item	seepage. If so, record			
10 and 15	and report the			
	observation and the			
	flow.			
NWB Part I Item	Annual Geotechnical	X		2018
12	inspection completed.			
12	Date?			
Landfarm	Maximum windrow size	X		
Design and	was 15 m wide at base x			
Management				
Plan	4 m high x 50 m long			
Landfarm	I	X		
Design and	Larger coarse material	11		
Management	(> 1") was separated			
Plan	from the finer material			
	A record is kept for the	X		
Landfarm	amount of	Λ		
Design and	contaminated soil			
Management	placed in the landfarm			
Plan	and the location of each			
1 1011	load within the facility.			
	Does new contaminated	V		
Landfarm	soil was bringing to	X		
Design and	Landfarm without			
Management				
Plan	authorization? If so,			
	estimated quantity.			
Landfarm	A record is kept for the	X		
Design and	amount of remediated			
Management	contaminated soil,			
Plan	disposal location and			
	usage.			
Landfarm	Does some pile are	X		
Design and	remediated and ready			
Management	to remove from			
Plan	landfarm (respect GN			
1 1011	guideline)?			
	Soil mixed mechanically		X	
Landfarm	with earth-moving			
Design and	equipment (2-4 times			
Management	per year, during the			
Plan	summer months).			
	Date?			
Landfarm	Does the windrow are		X	Winter
Design and	dry prior to turning? If			
Management	yes, we need to			season
Plan	moisture the pile.			
	Soil treatment with	X		
Landfarm	sewage sludge as	1.		
Design and	nutrient supplement, at			
Management	least once during			
Plan	summer on selected			
	windrows.			
Landfarm	Windrows sampled	X		
Design and	annually at the end of	Λ		
2 331811 4114	annually at the cha of		 	1



_	_		1	 
Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.			
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

#### **Comments/Recommendations:**

Everything is OK.

Thank you

**Environmental Personnel Name:** Kathleen Newberry

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-04-15 **Inspected By:** Kathleen Newberry

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	Winter, no water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	X			



	debris, including wind-			
	blown debris.			
	Visual sign of runoff or seepage. If so, record	X		
NWB Part I Item 10 and 15	and report the observation and the flow.			
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X		2018
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X		
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X		
Landfarm	A record is kept for the amount of	X		
Design and Management Plan	contaminated soil placed in the landfarm and the location of each load within the facility.			
	Does new contaminated	X		
Landfarm Design and	soil was bringing to Landfarm without	Λ		
Management Plan	authorization? If so, estimated quantity.			
Landfarm	A record is kept for the amount of remediated	X		
Design and Management Plan	contaminated soil, disposal location and usage.			
Landfarm	Does some pile are remediated and ready	X		
Design and Management Plan	to remove from landfarm (respect GN guideline)?			
Landfarm	Soil mixed mechanically with earth-moving		X	
Design and Management	equipment (2-4 times per year, during the			
Plan	summer months). Date?			
Landfarm Design and	Does the windrow are dry prior to turning? If		X	Winter
Management	yes, we need to			season
Plan	moisture the pile. Soil treatment with	***		
Landfarm	sewage sludge as	X		
Design and	nutrient supplement, at			
Management Plan	least once during summer on selected			
	windrows.			
Landfarm Design and	Windrows sampled annually at the end of	X		



_	_		1	 
Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.			
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

#### **Comments/Recommendations:**

Everything is OK.

Thank you

**Environmental Personnel Name:** Kathleen Newberry

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	Winter, no water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	X			



	debris, including wind-			
	blown debris.			
	Visual sign of runoff or seepage. If so, record	X		
NWB Part I Item 10 and 15	and report the observation and the flow.			
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X		2018
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X		
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X		
Landfarm	A record is kept for the amount of	X		
Design and Management Plan	contaminated soil placed in the landfarm and the location of each load within the facility.			
	Does new contaminated	X		
Landfarm Design and	soil was bringing to Landfarm without	Λ		
Management Plan	authorization? If so, estimated quantity.			
Landfarm	A record is kept for the amount of remediated	X		
Design and Management Plan	contaminated soil, disposal location and usage.			
Landfarm	Does some pile are remediated and ready	X		
Design and Management Plan	to remove from landfarm (respect GN guideline)?			
Landfarm	Soil mixed mechanically with earth-moving		X	
Design and Management	equipment (2-4 times per year, during the			
Plan	summer months). Date?			
Landfarm Design and	Does the windrow are dry prior to turning? If		X	Winter
Management	yes, we need to			season
Plan	moisture the pile. Soil treatment with	***		
Landfarm	sewage sludge as	X		
Design and	nutrient supplement, at			
Management Plan	least once during summer on selected			
	windrows.			
Landfarm Design and	Windrows sampled annually at the end of	X		



Management	the summer season.			
Plan	See section 4.6.2 for			
	sampling procedure.		-	
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

#### **Comments/Recommendations:**

Everything is OK.

Thank you

Note: Access is still blocked by pipe

**Environmental Personnel Name:** Kathleen Newberry

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-05-29 **Inspected By:** Emilie Fouilloux,

Laurence Archambault, Michael Allard

	T				
In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			One sign has fallen an another is broken.
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	Х			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	No water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			Х	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			Х	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			Х	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.		X		French sign fell and no Inuktitut sign
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except	Х			



	contaminated soil)		1		
	contaminated sonj				
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including windblown debris.	X			
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X			
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X			2018
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long			X	
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X			
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X			
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X			
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X			
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X			
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months).  Date?			X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.			Х	Winter season
Landfarm Design and	Soil treatment with sewage sludge as			X	



Managamont	nutrient cumplement at		I	1	
Management Plan	nutrient supplement, at least once during				
Piaii	summer on selected				
	windrows.				
	Windrows sampled			37	
Landfarm				X	
Design and	annually at the end of the summer season.				
Management	See section 4.6.2 for				
Plan					
	sampling procedure.				
	Coarse-grained material			X	
	assessed near the end of				
Landfarm	the summer season for				
Design and	PHC product and odour.				
Management	PHC odours are no				
Plan	longer detected? If yes,				
	removed to the PRSF				
	and disposed of as PAG				
	material.				
Landfarm	Does non-contaminated	X			
Design and	snow need to be				
Management	removed?				
Plan	-				
	Inspected areas;			X	
Landfarm	condition of berm and				
Design and	base; previously				
Management	unidentified safety				
Plan	concerns, Twice				
	annually during				
	Summer. Date?				
	Are there any additional				
	environmental	X			
BMP	hazards/potential	11			
	impacts that require				
	attention?				
	Are there any Health	X			
	and Safety issues that				
MINE ACT	should be addressed to				
	prevent injury to				
	workers?				

### **Comments/Recommendations:**

Everything is OK.

The landfarm needs to be cleaned up soon and the fallen signs need to be put back up.

Thank you.

**Environmental Personnel Name:** Emilie Fouilloux, Laurence Archambault, Michael Allard



Actions Corrected:	
Site Service Supervisor Name:	
Signature:	







#### **Environmental Inspection Report for the Meadowbank Landfarm**

Date: 2019-06-04 Inspected By: Jonathan Pameolik Michael Allard

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	No water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			Х	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			Х	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of	Х			



	debris, including wind-			
	blown debris.			
	Visual sign of runoff or	X		
NIAMO D I I.	seepage. If so, record	Λ		
NWB Part I Item 10 and 15	and report the			
10 and 15	observation and the			
	flow.			
NWB Part I Item	Annual Geotechnical	X		2018
12	inspection completed.			
Landfarm	Date?		V	
Design and	Maximum windrow size		X	
Management	was 15 m wide at base x			
Plan	4 m high x 50 m long			
Landfarm	Larger coarse material	X		
Design and	(> 1") was separated			
Management	from the finer material			
Plan	A record is kept for the	17		
Landfarm	A record is kept for the amount of	X		
Design and	contaminated soil			
Management	placed in the landfarm			
Plan	and the location of each			
	load within the facility.			
Landfarm	Does new contaminated	X		
Design and	soil was bringing to			
Management	Landfarm without			
Plan	authorization? If so, estimated quantity.			
	A record is kept for the	X		
Landfarm	amount of remediated	Λ		
Design and	contaminated soil,			
Management Plan	disposal location and			
1 1011	usage.			
Landfarm	Does some pile are	X		
Design and	remediated and ready to remove from			
Management	landfarm (respect GN			
Plan	guideline)?			
	Soil mixed mechanically		X	
Landfarm	with earth-moving		1	
Design and	equipment (2-4 times			
Management	per year, during the			
Plan	summer months). Date?			
Landfarm	Does the windrow are		X	
Design and	dry prior to turning? If		^	
Management	yes, we need to			
Plan	moisture the pile.			
, 1C	Soil treatment with		X	
Landfarm	sewage sludge as			
Design and Management	nutrient supplement, at least once during			
Plan	summer on selected			
	windrows.			
Landfarm	Windrows sampled		X	
Design and	annually at the end of			



	T		T	ı	1
Management	the summer season.				
Plan	See section 4.6.2 for				
	sampling procedure.				
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X			
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?			X	
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X			
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X			

### **Comments/Recommendations:**

No Non-Conformities were found.

Environmental Personnel Name: Jonathan Pameolik, Michael Allard

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	No water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			X	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			
NIRB Condition 26	Ensure that spills, if any, are cleaned up	X			



	immediately and that			
	the site is kept clean of			
	debris, including wind-			
	blown debris.			
	Visual sign of runoff or	X		
	seepage. If so, record	Λ		
NWB Part I Item	and report the			
10 and 15	observation and the			
	flow.			
	110111			
NWB Part I Item	Annual Geotechnical	X		2018
12	inspection completed.			
	Date?			
Landfarm	Maximum windrow		X	
Design and	size was 15 m wide at			
Management	base x 4 m high x 50 m			
Plan	long			
Landfarm		X		
Design and	Larger coarse material	Λ		
Management	(> 1") was separated			
Plan	from the finer material			
1 1411	A record is kept for the	V		
	amount of	X		
Landfarm	contaminated soil			
Design and				
Management	placed in the landfarm			
Plan	and the location of			
	each load within the			
	facility.			
	Does new	X		
Landfarm	contaminated soil was			
Design and	bringing to Landfarm			
Management	without authorization?			
Plan	If so, estimated			
	quantity.			
	A record is kept for the	X		
Landfarm	amount of remediated	Λ		
Design and	contaminated soil,			
Management	disposal location and			
Plan	*			
	usage.			
Landfarm	Does some pile are	X		
Design and	remediated and ready			
Management	to remove from			
Plan	landfarm (respect GN			
- 1411	guideline)?			
	Soil mixed		X	
Landfarm	mechanically with			
	earth-moving			
Design and	equipment (2-4 times			
Management	per year, during the			
Plan	summer months).			
	Date?			
Landfarm	Does the windrow are		X	
Design and	dry prior to turning? If		Λ	
Management	yes, we need to			
Plan	moisture the pile.		**	
Landfarm	Soil treatment with		X	
Design and	sewage sludge as			
Management	nutrient supplement, at least once during			
Plan				



	summer on selected			
	windrows.			
Landfarm Design and Management Plan	Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.		X	
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.		X	
Landfarm Design and Management Plan	Does non- contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?		X	
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

### **Comments/Recommendations:**

No Non-Conformities were found.

**Environmental Personnel Name:** Jonathan Pameolik, Isabelle Tetrault



Actions Corrected:	
Site Service Supervisor Name:	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	No water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			X	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			
NIRB Condition 26	Ensure that spills, if any, are cleaned up	X			



i <del></del>			 	
	immediately and that			
	the site is kept clean of			
	debris, including wind-			
	blown debris.			
	Visual sign of runoff or	X		
	seepage. If so, record	Λ		
NWB Part I Item	and report the			
10 and 15	observation and the			
	flow.			
				2212
NWB Part I Item	Annual Geotechnical	X		2018
12	inspection completed.			
	Date?			
Landfarm	Maximum windrow		X	
Design and	size was 15 m wide at			
Management	base x 4 m high x 50 m			
Plan	long			
Landfarm		X		
Design and	Larger coarse material	Λ		
Management	(> 1") was separated			
Plan	from the finer material			
Pidii	A			
	A record is kept for the	X		
Landfarm	amount of			
Design and	contaminated soil			
Management	placed in the landfarm			
Plan	and the location of			
Fidii	each load within the			
	facility.			
	Does new	X		
Landfarm	contaminated soil was	Λ		
Design and	bringing to Landfarm			
Management	without authorization?			
Plan	If so, estimated			
Fidii				
	quantity.	37		
Landfarm	A record is kept for the	X		
Design and	amount of remediated			
Management	contaminated soil,			
Plan	disposal location and			
1 1011	usage.			
Landfarm	Does some pile are	X		
	remediated and ready			
Design and	to remove from			
Management	landfarm (respect GN			
Plan	guideline)?			
	Soil mixed		X	
	mechanically with		Λ	
Landfarm	-			
Design and	earth-moving			
Management	equipment (2-4 times			
Plan	per year, during the			
	summer months).			
	Date?			
Landfarm	Does the windrow are		X	
Design and	dry prior to turning? If			
Management	yes, we need to			
Plan	moisture the pile.			
Landfarm	Soil treatment with		X	
Design and	sewage sludge as		^	
Management	nutrient supplement,			
Plan	at least once during			
1 1011	at icast office duffing		<u> </u>	



	1		T	ı	T
	summer on selected				
	windrows.				
Landfarm Design and Management Plan	Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.			X	
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Landfarm Design and Management Plan	Does non- contaminated snow need to be removed?			X	No snow
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?			X	
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X			
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X			

#### **Comments/Recommendations:**

No Non-Conformities were found, but the landfarm is almost full and will need to be taken care of soon. Otherwise, great job!

**Environmental Personnel Name:** Laurence Archambault

Actions Corrected:	
Site Service Supervisor Name: _	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-07-02 **Inspected By:** Stephanie Mercier

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	No water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			Х	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			X	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			



	I	_	1		<del>                                     </del>
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including windblown debris.	X			
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X			
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X			2018
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long			X	
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X			
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X			
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X			
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X			
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X			
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months).  Date?			X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.			X	



Landfarm Design and Management Plan	Soil treatment with sewage sludge as nutrient supplement, at least once during summer on selected windrows.		X	
Landfarm Design and Management Plan	Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.		X	
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.		X	
Landfarm Design and Management Plan	Does non- contaminated snow need to be removed?		X	No snow
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?		X	
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

### **Comments/Recommendations:**

- 1. No Non-Conformities were found
- 2. The Landfarm appears to be just about full. Some measures may have to be taken soon.

Environmental Personnel Name: Stephanie Mercier



Actions Corrected:	
Site Service Supervisor Name: _	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-07-13 **Inspected By:** Laurence Archambault

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	No water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			X	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			
NIRB Condition 26	Ensure that spills, if any, are cleaned up	X			



			1	ı	1
	immediately and that				
	the site is kept clean of				
	debris, including wind-				
	blown debris.				
	Visual sign of runoff or	X			
NWB Part I Item	seepage. If so, record				
10 and 15	and report the				
10 allu 13	observation and the				
	flow.				
NWB Part I Item	Annual Geotechnical	X			2018
12	inspection completed.				
12	Date?				
Landfarm	Maximum windrow			X	
Design and	size was 15 m wide at			7.	
Management	base x 4 m high x 50 m				
Plan	long				
Landfarm	1	X			
Design and	Larger coarse material	71			
Management	(> 1") was separated				
Plan	from the finer material				
	A record is kept for the	X			
I 1C	amount of	11			
Landfarm	contaminated soil				
Design and	placed in the landfarm				
Management	and the location of				
Plan	each load within the				
	facility.				
	Does new	X			
Landfarm	contaminated soil was	Λ			
Design and	bringing to Landfarm				
Management	without authorization?				
Plan	If so, estimated				
1 1011	quantity.				
- 10	A record is kept for the	X			
Landfarm	amount of remediated	Λ			
Design and	contaminated soil,				
Management	disposal location and				
Plan	usage.				
, 1C	Does some pile are	X			
Landfarm	remediated and ready	Λ			
Design and	to remove from				
Management	landfarm (respect GN				
Plan	guideline)?				
	Soil mixed			X	
	mechanically with			^	
Landfarm	earth-moving				
Design and	equipment (2-4 times				
Management	per year, during the				
Plan	summer months).				
	Date?				
Landfarm	Does the windrow are			X	
Design and	dry prior to turning? If			_ ^	
Management	yes, we need to				
Plan	moisture the pile.				
Landfarm	Soil treatment with			v	
Design and	sewage sludge as			X	
Management	nutrient supplement,				
Plan	at least once during				
. 1411	at icast office during		1		



	summer on selected			
	windrows.			
Landfarm	Windrows sampled		X	
Design and	annually at the end of			
Management	the summer season.			
Plan	See section 4.6.2 for			
1 1011	sampling procedure.			
	Coarse-grained		X	
	material assessed near			
	the end of the summer			
Landfarm	season for PHC			
Design and	product and odour.			
Management	PHC odours are no			
Plan	longer detected? If yes,			
	removed to the PRSF			
	and disposed of as PAG			
I 1C	material.			
Landfarm	Does non-		X	No snow
Design and	contaminated snow			
Management Plan	need to be removed?			
1 1011	Inspected areas;		X	
	condition of berm and		Λ	
Landfarm	base; previously			
Design and	unidentified safety			
Management	concerns, Twice			
Plan	annually during			
	Summer. Date?			
	Are there any			
	additional	X		
BMP	environmental	Λ		
DIVIP	hazards/potential			
	impacts that require			
	attention?			
	Are there any Health	X		
	and Safety issues that			
MINE ACT	should be addressed to			
	prevent injury to			
	workers?			

#### **Comments/Recommendations:**

No Non-Conformities were found, great job!

**Environmental Personnel Name:** Laurence Archambault

Actions Corrected:
Site Service Supervisor Name:
Signature:



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-07-16 **Inspected By:** Felix Harvey

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	No water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			X	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			
NIRB Condition 26	Ensure that spills, if any, are cleaned up	X			



	immediately and that			
	the site is kept clean of			
	debris, including wind-			
	blown debris.			
	Visual sign of runoff or	X		
	seepage. If so, record	Λ		
NWB Part I Item	and report the			
10 and 15	observation and the			
	flow.			
	110111			
NWB Part I Item	Annual Geotechnical	X		2018
12	inspection completed.			
	Date?			
Landfarm	Maximum windrow		X	
Design and	size was 15 m wide at			
Management	base x 4 m high x 50 m			
Plan	long			
Landfarm		X		
Design and	Larger coarse material	Λ		
Management	(> 1") was separated			
Plan	from the finer material			
1 1411	A record is kept for the	V		
	amount of	X		
Landfarm	contaminated soil			
Design and				
Management	placed in the landfarm			
Plan	and the location of			
	each load within the			
	facility.			
	Does new	X		
Landfarm	contaminated soil was			
Design and	bringing to Landfarm			
Management	without authorization?			
Plan	If so, estimated			
	quantity.			
	A record is kept for the	X		
Landfarm	amount of remediated	Λ		
Design and	contaminated soil,			
Management	disposal location and			
Plan	*			
	usage.			
Landfarm	Does some pile are	X		
Design and	remediated and ready			
Management	to remove from			
Plan	landfarm (respect GN			
- 1411	guideline)?			
	Soil mixed		X	
Landfarm	mechanically with			
	earth-moving			
Design and	equipment (2-4 times			
Management	per year, during the			
Plan	summer months).			
	Date?			
Landfarm	Does the windrow are		X	
Design and	dry prior to turning? If		Λ	
Management	yes, we need to			
Plan	moisture the pile.		**	
Landfarm	Soil treatment with		X	
Design and	sewage sludge as			
Management	nutrient supplement, at least once during			
Plan				



	summer on selected			
	windrows.			
Landfarm Design and Management Plan	Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.  Coarse-grained		X	
Landfarm Design and Management Plan	material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.		Α	
Landfarm Design and Management Plan	Does non- contaminated snow need to be removed?		X	No snow
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?		X	
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

#### **Comments/Recommendations:**

There were no non-conformities at the time of the inspection.

**Environmental Personnel Name:** Felix Harvey

Actions Corrected:	
Site Service Supervisor Name: _	
Signature: _	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-07-23 **Inspected By:** Laurence Archambault, Emilie Fouilloux

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	No water
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			Х	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			X	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			
NIRB Condition 26	Ensure that spills, if any, are cleaned up	X			



immediately and that the site is kept clean of debris, including wind-blown debris.  NWB Part I Item 10 and 15  NWB Part I Item 12  NWB Part I Item 12  Landfarm Design and Management Plan Design and Management Plan Design and Management Plan  Landfarm Design and Management Plan Design and Management Plan  Landfarm Design and Management Plan  A record is kept for the facility.  Does new contaminated soil was bringing to Landfarm and the location of each load within the facility.  Landfarm Design and Management Plan  A record is kept for the amount of contaminated soil was bringing to Landfarm and the location of each load without authorization? If so, estimated quantity.  Landfarm Design and Management Plan disposal location and Management Plan (lisposal location and Management Plan)  Management Design and Management Plan (lisposal location and Management Plan)  Management Plan (lisposal location and Management Plan)  Management Plan (lisposal location and Management Plan)		the site is kept clean of				
debris, including wind-blown debris.  Visual sign of runoff or seepage. If so, record and report the observation and the flow.  NWB Part I Item 12  NWB Part I Item 12  Landfarm Design and Management Plan  Management Plan  Management Plan  A record is kept for the Amount of remediated Contaminated soil, Management Plan  Management Plan  A record is kept for the Amount of remediated Contaminated soil, Management Plan  Management Plan  A record is kept for the Amount of remediated Contaminated soil, Management Plan  Management Plan  A record is kept for the Amount of remediated Contaminated soil, Management Plan  Management Plan  A record is kept for the Amount of remediated Contaminated soil, Management Plan  Management Plan  A record is kept for the Amount of remediated Contaminated soil, Management Plan  Management Plan  A record is kept for the Amou						
debris, including wind-blown debris.  Visual sign of runoff or seepage. If so, record and report the observation and the flow.  NWB Part I Item 12						
Solution   Size   Solution   Solution   Size   Solution   Solu		acomo, menduning willu-				
NWB Part I Item 10 and 15   Visual sign of runoff or seepage. If so, record and report the observation and the flow.   Annual Geotechnical inspection completed. Date?						
NWB Part I Item 10 and 15  Seepage. If so, record and report the observation and the flow.  NWB Part I Item 12  Landfarm Design and Management Plan  Landfarm Design and Management Plan  A record is kept for the amount of each load within the facility.  Landfarm Design and Management Plan  Design and Management Plan  A record is kept for the amount of each load within the facility.  Landfarm Does new Contaminated soil was bringing to Landfarm Management Plan  A record is kept for the amount of each load within the facility.  Landfarm Does new Contaminated soil was bringing to Landfarm Without authorization? Plan  Landfarm Design and Management Plan  A record is kept for the amount of each load within the facility.  A record is kept for the amount of each load within the facility.  A record is kept for the amount of each load within the facility.  A record is kept for the amount of each load within the facility.  A record is kept for the amount of remediated contaminated soil, disposal legation and			v			
NWB Part I Item 10 and 15  NWB Part I Item 12  Landfarm Design and Management Plan  Landfarm Design and Management Plan  A record is kept for the amount of each load within the facility.  Landfarm Design and Management Plan  A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.  Landfarm Design and Management Plan  A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.  Landfarm Design and Management Plan  A record is kept for the amount of contaminated soil was bringing to Landfarm without authorization? Plan  Landfarm Design and Management Plan  A record is kept for the amount of each load within the facility.  A record is kept for the amount of each load within the facility.  A record is kept for the amount of each load without authorization? Plan  A record is kept for the amount of remediated contaminated soil, disposal location and disposal location			Λ			
NWB Part I Item 12	NWB Part I Item					
Simple completed	10 and 15					
NWB Part I Item 12  Landfarm Design and size was 15 m wide at base x 4 m high x 50 m Plan  Landfarm Design and Management Plan  Landfarm Design and Management Plan  A record is kept for the amount of each load within the facility.  Does new Contaminated soil was bringing to Landfarm Management Plan  Landfarm Design and Management Plan  A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.  Does new Contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.  Landfarm Design and Management Plan  A record is kept for the amount of remediated contaminated soil, disposal location and disposal lo						
Inspection completed. Date?  Landfarm Design and size was 15 m wide at base x 4 m high x 50 m long  Landfarm Design and Management Plan  Langer coarse material (> 1") was separated from the finer material  Landfarm Design and Management Plan  A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.  Landfarm Design and Management Plan  Does new contaminated soil was bringing to Landfarm Management Plan  Landfarm Design and without authorization? Plan  Landfarm Design and Management Management Plan  A record is kept for the amount of contaminated soil was bringing to Landfarm without authorization? Plan  Landfarm Design and Management Design and Management  A record is kept for the amount of remediated contaminated soil, disposal location and disposal locat						
Landfarm   Maximum windrow   size was 15 m wide at base x 4 m high x 50 m   long	NWB Part I Item		X			2018
Landfarm Design and Maximum windrow Size was 15 m wide at base x 4 m high x 50 m Plan  Landfarm Design and Management Plan  Landfarm Design and Management Plan  A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.  Does new Contaminated soil was Design and Management Plan  Landfarm Design and Management Design and Design and Design and Design and Design and Design and Design a						
Design and Management Plan size was 15 m wide at base x 4 m high x 50 m long  Landfarm Design and Management Plan  Landfarm Design and Management Plan  A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.  Does new contaminated soil was bringing to Landfarm Management Plan  Landfarm Design and Management Plan  Design and Management Without authorization? If so, estimated quantity.  Landfarm Design and Management Without of remediated contaminated soil, disposal location and Management Management Management Without authorization and Management Mana						
Management Plan long  Landfarm Design and Management Plan  Landfarm Design and Management Design and Management Plan  Landfarm Design and Management Plan  Landfarm Design and Management Without authorization? Plan  Landfarm Design and Management Without authorization? Plan  Landfarm Design and Management Management Management Plan  Landfarm Design and Management Managem					X	
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Landfarm Design and Management Plan  A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.  Does new Landfarm Design and Management Plan  Does new Landfarm Design and Management Plan  Does new Landfarm Design and Management Plan  Landfarm Design and Management Plan  Landfarm Design and Management Des	Management	base x 4 m high x 50 m				
Landfarm Design and Management Plan  A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.  Does new Landfarm Design and Management Plan  Design and Management Plan  Does new Landfarm Design and Management Plan  Landfarm Design and Management Plan  Landfarm Design and Management Plan  A record is kept for the amount of remediated contaminated soil, dignesal location and disposal locatio	_	_				
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Management Plan  A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.  Does new Contaminated soil was bringing to Landfarm Management Plan  Design and Minagement Plan  Eandfarm Soil Was bringing to Landfarm without authorization? Plan  Landfarm Jesign and Management  Design and Management  Management Minagement  Design and Management  Management  Management  A record is kept for the amount of remediated contaminated soil, disposal location and dispos			Λ			
Plan  A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.  Landfarm Design and Management Plan  Does new Contaminated soil was bringing to Landfarm Management Plan  Landfarm Design and Management Design and Design and Management Desi						
Landfarm Design and Management Plan  Does new Landfarm Design and Moesign and Management Plan  Landfarm Does new Landfarm Design and Management Plan  Landfarm Design and Management Plan  Landfarm Management Plan  Landfarm Design and Design and Management Management Management Management Management  A record is kept for the amount of remediated contaminated soil, disposal location and	_	from the finer material				
Landfarm Design and Management Plan  Des new Landfarm Design and Design and Management Plan  Does new Landfarm Design and Management Plan  Landfarm Design and Design and Design and Management Manage	riaii	A record is been for the	3.7	+		
Landfarm Design and Management Plan  Does new Landfarm Design and bringing to Landfarm Management Plan  Landfarm Management Plan  Landfarm Design and Management Plan  Landfarm Design and Management			X			
Design and Management Plan placed in the landfarm and the location of each load within the facility.  Does new	Landfarm					
Management Plan  placed in the landlarm and the location of each load within the facility.  Does new Landfarm Design and Design and Design and Design and Design and Design and Management Design and Management Design and Management Design and Management Management Design and Management Management Design and Management Management  placed in the landlarm and the location of each load within the facility.  X  X  X  X  X  X  X  X  A record is kept for the amount of remediated contaminated soil, disposal location and disposal location and	Design and					
Plan  and the location of each load within the facility.  Does new Landfarm contaminated soil was bringing to Landfarm Management without authorization? Plan If so, estimated quantity.  Landfarm Design and Management disposal location and dis						
each load within the facility.  Does new Landfarm contaminated soil was bringing to Landfarm Management without authorization? Plan If so, estimated quantity.  Landfarm Design and Management Management disposal location and disposal location	_					
Landfarm contaminated soil was Design and bringing to Landfarm Management without authorization? Plan If so, estimated quantity.  Landfarm A record is kept for the amount of remediated contaminated soil, Management disposal location and	1 Idii	each load within the				
Landfarm contaminated soil was Design and bringing to Landfarm Management without authorization? Plan If so, estimated quantity.  Landfarm A record is kept for the amount of remediated contaminated soil, Management disposal location and						
Landfarm contaminated soil was bringing to Landfarm without authorization? Plan If so, estimated quantity.  Landfarm Design and Management Management disposal location and disp		Does new	X			
Management without authorization?  Plan If so, estimated quantity.  Landfarm Design and Design and Management Management disposal location and disposal lo	Landfarm	contaminated soil was	11			
Management without authorization?  Plan If so, estimated quantity.  Landfarm Design and Design and Management Management disposal location and disposal lo	Design and	bringing to Landfarm				
Plan If so, estimated quantity.  Landfarm A record is kept for the amount of remediated contaminated soil, disposal location and disposal location and						
quantity.  Landfarm Design and Management  A record is kept for the amount of remediated contaminated soil, disposal location and	_	If so, estimated				
Landfarm Design and Management  A record is kept for the amount of remediated contaminated soil, disposal location and						
Design and Management disposal location and disposal location and			v			
Management disposal location and			Λ			
Management   disposal location and	Design and					
Plan   disposal location and	Management	,				
1 Iaii	Plan	-				
usage.						
Landfarm Does some pile are X	Landfarm		X			
Design and remediated and ready						
Management to remove from	_					
Plan landiarm (respect GN	_					
guideline)?	. 1011					
Soil mixed X		Soil mixed			X	
mechanically with	Landfarm	mechanically with				
Landrarm earth-moving		-				
Design and equipment (2.4 times						
Management per year during the	•					
Plan summer months).	Plan					
Date?						
	Landfarm			1	v	
Landfarm Does the windrow are Design and dry prior to turning? If					X	
Management yes, we need to						
Plan moisture the pile.						
$oldsymbol{\Lambda}$				1	ı v	
L Dogian and L cowago cludgo ac	Landfarm	Soil treatment with			Λ	
	Landfarm Design and	sewage sludge as			Λ	
Management nutrient supplement, Plan at least once during	Landfarm Design and Management	sewage sludge as nutrient supplement,			^	



	summer on selected			
	windrows.			
Landfarm Design and Management Plan	Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure. Coarse-grained		X	
Landfarm Design and Management Plan	material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.		X	
Landfarm Design and Management Plan	Does non- contaminated snow need to be removed?		X	No snow
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?		X	
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

**Comments/Recommendations:** There were no non-conformities at the time of the inspection. Good job!

**Environmental Personnel Name:** Laurence Archambault, Emilie Fouilloux

Actions Corrected:	
Site Service Supervisor Name:	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

Date: 2019-08-01 Inspected By: Stephanie Mercier

Location: Landfarm MBK Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	X			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	X			
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			



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NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including windblown debris.	X			
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X			
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X			2018
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long			X	
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X			
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X			
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X			
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X			
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X			
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months).  Date?			X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.			X	



			,		,
	Soil treatment with			X	
Landfarm	sewage sludge as				
Design and	nutrient supplement,				
Management	at least once during				
Plan	summer on selected				
	windrows.				
Landfarm	Windrows sampled			X	
	annually at the end of				
Design and	the summer season.				
Management	See section 4.6.2 for				
Plan	sampling procedure.				
	Coarse-grained			X	
	material assessed near			Λ	
	the end of the summer				
Landfarm	season for PHC				
Design and	product and odour.				
Management	PHC odours are no				
Plan	longer detected? If yes,				
1 1411	removed to the PRSF				
	and disposed of as PAG				
	material.				
Landfarm	material.			V	No. 2
Design and	Does non-			X	No snow
_	contaminated snow				
Management	need to be removed?				
Plan	I				
	Inspected areas;			X	
Landfarm	condition of berm and				
Design and	base; previously				
Management	unidentified safety				
Plan	concerns, Twice				
	annually during				
	Summer. Date?				
NIRB-No.008.6.1	Monitoring for the	X			
(Condition 25)	potential introduction				
	of invasive vegetation				
	species for the				
	terrestrial				
	environment				
NIRB-No.008.6.1	Monitoring for the	X			
(Condition 25)	potential introduction	-			
	of invasive vegetation				
	species for the				
	terrestrial				
	environment				
	Are there any	X			
	additional	11			
DMD	environmental				
BMP	hazards/potential				
	impacts that require				
	attention?				
	Are there any Health	X			
	and Safety issues that	Λ			
MINE ACT	should be addressed to				
MINE AGI	prevent injury to				
	workers?				
	WOLKELS:				1

Contaminated Soil Acceptable at Landfarm



Only soil contaminated with the following products may be treated in the landfarm if used onsite and spilled on soil:

- Diesel fuel
- Gasoline
- Aviation fuel (Jet A)
- Hydraulic oil
- Other light oil e.g. engine oil, lubricating oil

Comments/Recommendations:	No non-conformities identified.	
	Stephanie Mercier	
Signature:	Stephanie Mercier	
Actions Corrected:		
Site Service Supervisor Name:		<u></u>
Signature:		



#### **Environmental Inspection Report for the Meadowbank Landfarm**

Date: Inspected By:

Location: Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	X			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m <sup>3</sup> , analyse water and 10 days notification give to NWB?			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			Х	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark			X	
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			
NIRB Condition 26	Ensure that spills, if any, are cleaned up	X			



	immediately and that the site is kept clean of debris, including wind- blown debris.			
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X		
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X		
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X		
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X		
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X		
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X		
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X		
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X		
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months).  Date?		X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.	X		
Landfarm Design and Management Plan	Soil treatment with sewage sludge as nutrient supplement, at least once during summer on selected windrows.	X		



	T			
Landfarm Design and Management Plan	Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.	X		
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.	X		
Landfarm Design and Management Plan	Does non-contaminated snow need to be removed?	X		
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	Х		
NIRB-No.008.6.1 (Condition 25)	Monitoring for the potential introduction of invasive vegetation species for the terrestrial environment	X		
NIRB-No.008.6.1 (Condition 25)	Monitoring for the potential introduction of invasive vegetation species for the terrestrial environment	X		
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X		
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X		

#### Contaminated Soil Acceptable at Landfarm

Only soil contaminated with the following products may be treated in the landfarm if used onsite and spilled on soil:

- Diesel fuel
- Gasoline
- Aviation fuel (Jet A)
- Hydraulic oil



• Other light oil e.g. engine oil, lubricating oil

Comments/Recommendations: No inspection	non-conformities identified at time of
<b>Environmental Personnel Name:</b>	Stephanie Mercier
Signature:	
Actions Corrected:	
Site Service Supervisor Name:	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-08-14 **Inspected By:** Isabelle Tétrault

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			English
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	Negligible amount of rain accumulation
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			Х	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			Х	
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			Х	
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	X			
NWB Part I Item	Monitoring signs are posted in English, French, and Inuktitut.	X			English
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			



NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including windblown debris.		X		Materials that belong to the landfill were found in the landfarm. See pictures.
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X			
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X			2018
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long			X	
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X			
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X			
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X			
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X			To verify.
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X			To verify.
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months). Date?			Х	
Landfarm Design and	Does the windrow are dry prior to turning? If			X	



Managamant	was wa nood to		<u> </u>	1	T
Management Plan	yes, we need to				
r lall	moisture the pile. Soil treatment with			+	
Landfarm	sewage sludge as				
Design and	nutrient supplement,				
Management	at least once during			X	
Plan	summer on selected				
1 Idii	windrows.				
	Windrows sampled				
Landfarm	annually at the end of				
Design and	the summer season.			X	
Management Plan	See section 4.6.2 for				
Fidii	sampling procedure.				
	Coarse-grained				
	material assessed near				
	the end of the summer				
Landfarm	season for PHC product				
Design and	and odour.			X	
Management	PHC odours are no			11	
Plan	longer detected? If yes, removed to the PRSF				
	and disposed of as PAG				
	material.				
Landfarm					
Design and	Does non-	V			
Management	contaminated snow	X			
Plan	need to be removed?				
	Inspected areas;				
Landfarm	condition of berm and				
Design and	base; previously				
Management	unidentified safety	X			
Plan	concerns, Twice				
	annually during				
NIRB-No.008.6.1	Summer. Date?  Monitoring for the				34 :. :
(Condition 25)	potential introduction				Monitoring
(Containion 23)	of invasive vegetation				done on
	species for the				2019-08-14
	terrestrial	X			with an
	environment				
					external
					contractor.
NIRB-No.008.6.1	Monitoring for the				Monitoring
(Condition 25)	potential introduction				done on
	of invasive vegetation				
	species for the	_			2019-08-14
	terrestrial	X			2019-08-14
	environment				with an
					external
	Are there any				contractor.
	Are there any additional				
	environmental				
BMP	hazards/potential	X			
	impacts that require				
	attention?				
			1	i	1



MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X			
Contaminated	d Soil Acceptable at L	<u>andfarm</u>			
-	taminated with the feand spilled on soil:	following pro	oducts may be	e treated i	n the landfarm
<ul> <li>Diesel fuel</li> <li>Gasoline</li> <li>Aviation fuel (Jet A)</li> <li>Hydraulic oil</li> <li>Other light oil e.g. engine oil, lubricating oil</li> </ul>					
Comments/I	Recommendations:				
Materials tha	t belong to the landfi	ll were foun	d in the landfa	ırm. See pi	ctures.
Environmental Personnel Name: Isabelle Tétrault  Signature:					
Actions Corrected:					
Site Service	Supervisor Name: _				

Signature:





Picture 1: Plastic pipe and tarp



Picture 2: Material



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-10-14 **Inspected By:** Isabelle Couture

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body	X			
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	X			
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			



	Francisco de la companya de la compa		I	1	
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including wind-	X			
	blown debris.				
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X			
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X			
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X			
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X			
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X			
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X			
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X			
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X			
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months). Date?			X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.			X	



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	Soil treatment with				
Landfarm	sewage sludge as				
Design and	nutrient supplement,	X			
Management	at least once during	Λ			
Plan	summer on selected				
	windrows.				
T 10	Windrows sampled				
Landfarm	annually at the end of				
Design and	the summer season.			X	
Management	See section 4.6.2 for			A	
Plan	sampling procedure.				
	Coarse-grained				
	material assessed near				
, 1C	the end of the summer				
Landfarm	season for PHC product				
Design and	and odour.			X	
Management	PHC odours are no			A	
Plan	longer detected? If yes,				
	removed to the PRSF				
	and disposed of as PAG				
	material.				
Landfarm	Does non-				
Design and	contaminated snow	X			
Management	need to be removed?	Λ			
Plan	need to be removed?			<u> </u>	
	Inspected areas;				
Landfare	condition of berm and				
Landfarm	base; previously				
Design and	unidentified safety	X			
Management	concerns, Twice				
Plan	annually during				
	Summer. Date?				
NIRB-No.008.6.1	Monitoring for the				
(Condition 25)	potential introduction				
<b></b>	of invasive vegetation	37			
	species for the	X			
	terrestrial				
	environment				
NIRB-No.008.6.1	Monitoring for the				
(Condition 25)	potential introduction				
(30.10.10.11 20)	of invasive vegetation	<b>.</b> -			
	species for the	X			
	terrestrial				
	environment				
	Are there any				
	additional				
	environmental				
BMP		X			
	hazards/potential				
	impacts that require				
	attention?				
	Are there any Health				
MINIE ACT	and Safety issues that	37			
MINE ACT	should be addressed to	X			
	prevent injury to				
	workers?				

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#### **Comments/Recommendations:**

Site was found clean during the inspection. Thanks for your usual cooperation.

Site was found clean during the inspection. Thanks for your usual cooperation.
Environmental Personnel Name: Isabelle Couture
Signature:
Actions Corrected:
Site Service Supervisor Name:
Signature:



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-10-15 **Inspected By:** Nicolas Saucier

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body	X			
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	X			
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			



NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including windblown debris.	X		
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X		
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X		
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X		
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X		
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X		
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X		
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X		
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X		
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months). Date?		X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.		X	



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	Soil treatment with			
Landfarm	sewage sludge as			
Design and	nutrient supplement,	v		
Management	at least once during	X		
Plan	summer on selected			
	windrows.			
	Windrows sampled			
Landfarm	annually at the end of			
Design and	the summer season.		X	
Management			Λ	
Plan	See section 4.6.2 for			
	sampling procedure.			
	Coarse-grained			
	material assessed near			
	the end of the summer			
Landfarm	season for PHC product			
Design and	and odour.		v	
Management	PHC odours are no		X	
Plan	longer detected? If yes,			
	removed to the PRSF			
	and disposed of as PAG			
	material.			
Landfarm	material.			
	Does non-			
Design and	contaminated snow	X		
Management	need to be removed?			
Plan	-			
	Inspected areas;			
Landfarm	condition of berm and			
Design and	base; previously			
	unidentified safety	X		
Management Plan	concerns, Twice			
Plan	annually during			
	Summer. Date?			
NIRB-No.008.6.1	Monitoring for the			
(Condition 25)	potential introduction			
(Gonardon 23)	of invasive vegetation			
	species for the	X		
	terrestrial			
NIDD N. 000 C 1	environment		-	
NIRB-No.008.6.1	Monitoring for the			
(Condition 25)	potential introduction			
	of invasive vegetation	X		
	species for the	11		
	terrestrial			
	environment			
	Are there any	<u> </u>		
	additional			
DMD	environmental	77		
BMP	hazards/potential	X		
	impacts that require			
	attention?			
	Are there any Health			
	and Safety issues that			
MINE ACT	should be addressed to	v		
MINE ACI		X		
	prevent injury to			
I	workers?			

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#### **Comments/Recommendations:**

Site was found clean during the inspection. Thanks for your usual cooperation.

Environmental Personnel Name: Nicolas Saucier
:
Signature:
Actions Corrected:
Actions corrected.
Site Service Supervisor Name:
one service supervisor name:
Signature:

#### **Environmental Inspection Report for the Meadowbank Landfarm**

Date: 2019-10-22

Inspected By: Anthony Blake

Location: Landfarm

#### **Weekly Inspection**

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	X			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark	Х			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion	Х			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body	Х			
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	х			
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	Х			

NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including windblown debris.	X			
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	Х	1		
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	Х			
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X`			
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X			
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X			
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X			
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X			
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X			
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months).  Date?			Х	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.			X	

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Landfarm Design and Management Plan	Soil treatment with sewage sludge as nutrient supplement, at least once during summer on selected windrows.	X			
Landfarm Design and Management Plan	Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.			X	
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.			Х	
Landfarm Design and Management Plan	Does non- contaminated snow need to be removed?	Х			
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X			
NIRB-No.008.6.1 (Condition 25)	Monitoring for the potential introduction of invasive vegetation species for the terrestrial environment	X			
NIRB-No.008.6.1 (Condition 25)	Monitoring for the potential introduction of invasive vegetation species for the terrestrial environment	X			
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X			
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	Х			



#### **Comments/Recommendations:**

There were no non-compliance issues found, but as a note there is a roll-off full of contaminated snow that has been placed in the middle of the site. This may become frozen and difficult to move, and should be emptied and moved as soon as possible.

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#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-10-31 **Inspected By:** Isabelle Couture/Noah

Enowyak

Location: Landfarm Weekly Inspection

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	X			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body	X			
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	X			
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			



	Process that in it		1	
NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including wind-	X		
	blown debris.			
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X		
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X		
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X		
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X		
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X		
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X		
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X		
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X		
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months). Date?		X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.		X	



	· · · · · · · · · · · · · · · · · · ·		1	1	T
	Soil treatment with				
Landfarm	sewage sludge as				
Design and	nutrient supplement,	X			
Management	at least once during	Λ			
Plan	summer on selected				
	windrows.				
T 10	Windrows sampled				
Landfarm	annually at the end of				
Design and	the summer season.			X	
Management	See section 4.6.2 for			Λ	
Plan	sampling procedure.				
	Coarse-grained				
	material assessed near				
, 1C	the end of the summer				
Landfarm	season for PHC product				
Design and	and odour.			X	
Management	PHC odours are no			A	
Plan	longer detected? If yes,				
	removed to the PRSF				
	and disposed of as PAG				
	material.				
Landfarm	Does non-				
Design and	contaminated snow	X			
Management	need to be removed?	Λ			
Plan	need to be removed?			<u> </u>	
	Inspected areas;				
Landfare	condition of berm and				
Landfarm	base; previously				
Design and	unidentified safety	X			
Management	concerns, Twice				
Plan	annually during				
	Summer. Date?				
NIRB-No.008.6.1	Monitoring for the				
(Condition 25)	potential introduction				
<b></b>	of invasive vegetation	37			
	species for the	X			
	terrestrial				
	environment				
NIRB-No.008.6.1	Monitoring for the				
(Condition 25)	potential introduction				
(30.10.10.11 20)	of invasive vegetation	<b>.</b> -			
	species for the	X			
	terrestrial				
	environment				
	Are there any				
	additional				
	environmental				
BMP		X			
	hazards/potential				
	impacts that require				
	attention?				
	Are there any Health				
MINIE ACT	and Safety issues that	37			
MINE ACT	should be addressed to	X			
	prevent injury to				
	workers?				

.



### **Comments/Recommendations:**

All good! Thanks,



### **Environmental Personnel Name: Isabelle Couture**

Signature:

Actions Corrected:	
	<u></u>
Site Service Supervisor Name:	
Signature:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-11-05 **Inspected By:** Isabelle Tétrault **Time:** 15:10

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	X			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?			X	Frozen.
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark			X	Frozen.
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion			X	Frozen.
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body			X	Frozen.
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	X			
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			



NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including windblown debris.		X		Materials that belong to the landfill were found in the landfarm. See picture 1 & 2.
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X			Frozen.
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X			To verify.
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long			Х	To verify.
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X			
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X			To verify.
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X			Unable to check at the time of inspection
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X			To verify.
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X			To verify.
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months). Date?			Х	To verify.



Landfarm	Does the windrow are			Eno
Design and	dry prior to turning? If			Frozen.
Management	yes, we need to		X	
Plan	moisture the pile.			
	Soil treatment with			To verify in
Landfarm	sewage sludge as			1 1
Design and	nutrient supplement,		X	summer
Management	at least once during		^	time.
Plan	summer on selected			
	windrows.			
Landfarm	Windrows sampled			
Design and	annually at the end of		V	
Management	the summer season. See section 4.6.2 for		X	
Plan				
	sampling procedure. Coarse-grained			
	material assessed near			
	the end of the summer			
Landfarm	season for PHC product			
Design and	and odour.		***	
Management	PHC odours are no		X	
Plan	longer detected? If yes,			
	removed to the PRSF			
	and disposed of as PAG			
	material.			
Landfarm	Does non-			
Design and	contaminated snow	X		
Management	need to be removed?	Λ		
Plan				
	Inspected areas;			
Landfarm	condition of berm and			
Design and	base; previously unidentified safety	X		
Management	concerns, Twice	Λ		
Plan	annually during			
	Summer. Date?			
NIRB-No.008.6.1	Monitoring for the			Monitoring
(Condition 25)	potential introduction			
	of invasive vegetation			done on
	species for the	v		2019-08-14
	terrestrial	X		with an
	environment			external
				contractor.
NIRB-No.008.6.1	Monitoring for the			Monitoring
(Condition 25)	potential introduction			done on
	of invasive vegetation			2019-08-14
	species for the terrestrial	X		
	environment			with an
	CHAILOIIIIICH			external
				contractor.
	Are there any			201111111111111111111111111111111111111
	additional			
DMD	environmental	v		
BMP	hazards/potential	X		
	impacts that require			
1	attention?		1	



MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X						
Contaminate	Contaminated Soil Acceptable at Landfarm							
-	ntaminated with the fo te and spilled on soil:	ollowing pro	oducts may be	treated in	n the landfarm			
<ul> <li>Diesel fuel</li> <li>Gasoline</li> <li>Aviation fuel (Jet A)</li> <li>Hydraulic oil</li> <li>Other light oil e.g. engine oil, lubricating oil</li> </ul>								
Comments,	/Recommendations:							
Materials th	at belong to the landfil	l were foun	d in the landfa	rm. See pi	icture 1 & 2.			
Environme	ntal Personnel Name	: Isabelle Té	itrault					
	Signature:							
tions Corrected:								
te Service Su	pervisor Name:							

Signature:







Picture 1 & 2: Materials that belong to the landfill were found in the landfarm.



### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-11-13 **Inspected By:** Nicolas Saucier

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body	X			
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	X			
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			



	Ensure that spills, if		1	
	any, are cleaned up			
NIRB Condition	immediately and that			
26	the site is kept clean of	X		
	debris, including wind-	11		
	blown debris.			
	Visual sign of runoff or			
NWB Part I Item	seepage. If so, record and report the	X		
10 and 15	observation and the	Λ		
	flow.			
NWB Part I Item	Annual Geotechnical			
12	inspection completed.	X		
	Date?			
Landfarm	Maximum windrow			
Design and	size was 15 m wide at base x 4 m high x 50 m	X		
Management Plan	long			
Landfarm				
Design and	Larger coarse material	V		
Management	(> 1") was separated from the finer material	X		
Plan				
	A record is kept for the			
Landfarm	amount of contaminated soil			
Design and	placed in the landfarm	X		
Management	and the location of	Λ		
Plan	each load within the			
	facility.			
	Does new			
Landfarm	contaminated soil was			
Design and Management	bringing to Landfarm without authorization?	X		
Plan	If so, estimated			
1	quantity.			
Landfarm	A record is kept for the			
Design and	amount of remediated			
Management	contaminated soil,	X		
Plan	disposal location and			
	usage.  Does some pile are			
Landfarm	remediated and ready			
Design and	to remove from	X		
Management Plan	landfarm (respect GN			
r IdlI	guideline)?			
	Soil mixed			
Landfarm	mechanically with			
Design and	earth-moving equipment (2-4 times		X	
Management	per year, during the		^	
Plan	summer months).			
	Date?			
Landfarm	Does the windrow are			
Design and	dry prior to turning? If		X	
Management	yes, we need to		1	
Plan	moisture the pile.		<u> </u>	



Landfarm Design and Management Plan  Landfarm Design and Management Plan  Landfarm Design and Management Plan  Commutation Landfarm Design and Management Plan  Landfarm Design and Management Plan  Design and Management Plan	Soil treatment with sewage sludge as nutrient supplement, at least once during summer on selected windrows.  Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.  Coarse-grained material assessed near the end of the summer season for PHC product and odour.  PHC odours are no conger detected? If yes, semoved to the PRSF and disposed of as PAG material.	X		X	
Design and management at Plan su we	nutrient supplement, at least once during nummer on selected windrows.  Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.  Coarse-grained naterial assessed near the end of the summer season for PHC product and odour.  PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG naterial.	X			
Management at Plan su we	at least once during nummer on selected windrows.  Windrows sampled annually at the end of the summer season.  Gee section 4.6.2 for sampling procedure.  Coarse-grained naterial assessed near the end of the summer season for PHC product and odour.  PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.	X			
Plan su w W Landfarm Design and the Management Plan sa w W Andrew Start Communication of the Management Plan sa w Management Plan light sa w W Management Plan light sa w W Management Plan w W Management Plan w	summer on selected vindrows.  Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.  Coarse-grained anaterial assessed near the end of the summer season for PHC product and odour.  PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.	A			
Landfarm Design and Management Plan  Comment Landfarm Design and Management Plan  Landfarm Design and Management Plan  In the comment Design and Management Plan  In the comment Design and Management Plan	windrows. Windrows sampled unnually at the end of the summer season. See section 4.6.2 for sampling procedure. Coarse-grained naterial assessed near the end of the summer season for PHC product and odour. PHC odours are no conger detected? If yes, the moved to the PRSF and disposed of as PAG material.				
Landfarm Design and Management Plan  Comment Landfarm Design and Management Plan  Besign and Management Plan  Ith	Windrows sampled unnually at the end of the summer season. See section 4.6.2 for sampling procedure. Coarse-grained naterial assessed near the end of the summer season for PHC product and odour. PHC odours are no conger detected? If yes, removed to the PRSF and disposed of as PAG naterial.				
Design and the Management Plan Scand and the Management Scand and the Management Plan the Management Plan look and Management Plan look and the Management Plan l	annually at the end of the summer season. See section 4.6.2 for sampling procedure. Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.				
Design and the Management Plan Scand and the Management Scand and the Management Plan the Management Plan look and Management Plan look and the Management Plan l	annually at the end of the summer season. See section 4.6.2 for sampling procedure. Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.				
Management Plan see Landfarm see Design and Management Plan loo	he summer season. See section 4.6.2 for sampling procedure. Coarse-grained material assessed near he end of the summer season for PHC product and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.				
Management Plan Scand Communication   Landfarm Scand Anagement Plan loop   Pla	Gee section 4.6.2 for sampling procedure. Coarse-grained naterial assessed near he end of the summer leason for PHC product and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG naterial.				
Plan Sa Community of the Landfarm Se Design and Management Plan lo	campling procedure. Coarse-grained material assessed near the end of the summer teason for PHC product and odour. PHC odours are no conger detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Landfarm see Design and an Management P Plan lo	Coarse-grained material assessed near he end of the summer leason for PHC product and odour. PHC odours are no longer detected? If yes, lemoved to the PRSF and disposed of as PAG material.			X	
Landfarm see Design and an Management P Plan lo	naterial assessed near he end of the summer leason for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Landfarm se Design and an Management P Plan lo	he end of the summer teason for PHC product and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Landfarm se Design and an Management P Plan lo	teason for PHC product and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Design and an Management Plan lo	and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG naterial.			X	
Management P. Plan lo	PHC odours are no onger detected? If yes, emoved to the PRSF and disposed of as PAG material.			X	
Plan	onger detected? If yes, removed to the PRSF and disposed of as PAG material.				
	removed to the PRSF and disposed of as PAG naterial.				
	and disposed of as PAG material.				
	naterial.				
aı					
	loes non-				
Landfarm					
Design and	contaminated snow	X			
	need to be removed?	Λ			
Plan	leed to be removed:				
Ir	nspected areas;				
Landfarm CC	condition of berm and				
Landfarm	oase; previously				
Design and	inidentified safety	X			
Management	concerns, Twice	**			
	innually during				
	Summer. Date?				
	Monitoring for the				
	ootential introduction				
	of invasive vegetation				
	pecies for the	X			
	errestrial				
	environment				
	Monitoring for the		+	+	1
	ootential introduction				
	of invasive vegetation	X			
	pecies for the				
	errestrial				
	environment			1	
l l	Are there any				
l l	ıdditional				
	environmental	X			
l h	nazards/potential	41			
	mpacts that require				
	ittention?				
		_			
l l		X			
	prevent injury to				
W	vorkers?				
A an MINE ACT sh	Are there any Health and Safety issues that should be addressed to	X			

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### **Comments/Recommendations:**

Site was found clean during the inspection. Thanks for your usual cooperation.

Environmental Personnel Name: Nicolas Saucier
:
Signature:
Actions Corrected:
Actions corrected.
Site Service Supervisor Name:
one service supervisor name:
Signature:



### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-11-20 **Inspected By:** Anthony Blake

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body	X			
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	X			
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			



NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including windblown debris.	X		
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X		
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X		
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X		
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X		
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X		
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X		
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X		
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X		
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months).  Date?		X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.		X	



	C 11		1		1
Landfarm Design and Management Plan	Soil treatment with sewage sludge as nutrient supplement, at least once during summer on selected windrows.	X			
Landfarm Design and Management Plan	Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.			X	
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Landfarm Design and Management Plan	Does non- contaminated snow need to be removed?	X			
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X			
NIRB-No.008.6.1 (Condition 25)	Monitoring for the potential introduction of invasive vegetation species for the terrestrial environment	X			
NIRB-No.008.6.1 (Condition 25)	Monitoring for the potential introduction of invasive vegetation species for the terrestrial environment	X			
ВМР	Are there any additional environmental hazards/potential impacts that require attention?		X		Roll off at site should be emptied and removed
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X			

3



### **Comments/Recommendations:**

Everything at the site is compliant. However, a roll-off should be emptied and removed.

Environmental Personnel Name: Anthony Blake	
Signature:	
Actions Corrected:	,
Site Service Supervisor Name:	
Signature:	



### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-11-27 **Inspected By:** Anthony Blake

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	Х			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body	X			
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	X			
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			



	Ensure that spills, if		ı	
	any, are cleaned up			
NIRB Condition	immediately and that			
26	the site is kept clean of	X		
	debris, including wind-	Λ		
	blown debris.			
	Visual sign of runoff or			
NWB Part I Item	seepage. If so, record	**		
10 and 15	and report the	X		
	observation and the flow.			
	Annual Geotechnical			
NWB Part I Item	inspection completed.	X		
12	Date?	Λ		
Landfarm	Maximum windrow			
Design and	size was 15 m wide at	X		
Management	base x 4 m high x 50 m	Λ		
Plan	long			
Landfarm	Larger coarse material			
Design and Management	(> 1") was separated	X		
Plan	from the finer material			
- ****	A record is kept for the			
Landfarm	amount of			
Design and	contaminated soil			
Management	placed in the landfarm	X		
Plan	and the location of			
	each load within the			
	facility.  Does new			
Landfarm	contaminated soil was			
Design and	bringing to Landfarm			
Management	without authorization?	X		
Plan	If so, estimated			
	quantity.			
Landfarm	A record is kept for the			
Design and	amount of remediated	37		
Management	contaminated soil,	X		
Plan	disposal location and usage.			
	Does some pile are			
Landfarm	remediated and ready			
Design and	to remove from	X		
Management Plan	landfarm (respect GN			
1 1011	guideline)?			
	Soil mixed			
Landfarm	mechanically with			
Design and	earth-moving equipment (2-4 times		X	
Management	per year, during the		^	
Plan	summer months).			
	Date?			
Landfarm	Does the windrow are			
Design and	dry prior to turning? If		X	
Management	yes, we need to		A	
Plan	moisture the pile.			



	<u> </u>		T	1	T
Landfarm Design and Management Plan	Soil treatment with sewage sludge as nutrient supplement, at least once during summer on selected windrows.	X			
Landfarm Design and Management Plan	Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.			X	
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Landfarm Design and Management Plan	Does non- contaminated snow need to be removed?	X			
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X			
NIRB-No.008.6.1 (Condition 25)	Monitoring for the potential introduction of invasive vegetation species for the terrestrial environment	X			
NIRB-No.008.6.1 (Condition 25)	Monitoring for the potential introduction of invasive vegetation species for the terrestrial environment	X			
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X			
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X			

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### **Comments/Recommendations:**

Everything at the site was compliant at the time of inspection.

Environmental Personnel Name: Anthony Blake	
Signature:	
Actions Corrected:	
Site Service Supervisor Name:	



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-12-12 **Inspected By:** Nicolas Saucier

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	X			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m <sup>3</sup> , analyse water and 10 days notification give to NWB?	Х			
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body	X			
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	X			
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			



NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including windblown debris.		X		Wood debris and general waste. See picture 1
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X			
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X			
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X			
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X			
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X			
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X			
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X			
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X			
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months).  Date?			X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.			X	



Landfarm Design and Management Plan  Landfarm Design and Management Plan  Landfarm Design and Management Plan  Commutation Landfarm Design and Management Plan  Landfarm Design and Management Plan  Design and Management Plan	Soil treatment with sewage sludge as nutrient supplement, at least once during summer on selected windrows.  Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.  Coarse-grained material assessed near the end of the summer season for PHC product and odour.  PHC odours are no conger detected? If yes, semoved to the PRSF and disposed of as PAG material.	X		X	
Design and management at Plan su we	nutrient supplement, at least once during nummer on selected windrows.  Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.  Coarse-grained naterial assessed near the end of the summer season for PHC product and odour.  PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG naterial.	X			
Management at Plan su we	at least once during nummer on selected windrows.  Windrows sampled annually at the end of the summer season.  Gee section 4.6.2 for sampling procedure.  Coarse-grained naterial assessed near the end of the summer season for PHC product and odour.  PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.	X			
Plan su w W Landfarm Design and the Management Plan sa w W Andrew Start Communication of the Management Plan sa w Management Plan light sa w W Management Plan light sa w W Management Plan w W Management Plan w	summer on selected vindrows.  Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.  Coarse-grained anaterial assessed near the end of the summer season for PHC product and odour.  PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.	A			
Landfarm Design and Management Plan  Comment Landfarm Design and Management Plan  Landfarm Design and Management Plan  In the comment Design and Management Plan  In the comment Design and Management Plan	windrows. Windrows sampled unnually at the end of the summer season. See section 4.6.2 for sampling procedure. Coarse-grained naterial assessed near the end of the summer season for PHC product and odour. PHC odours are no conger detected? If yes, the moved to the PRSF and disposed of as PAG material.				
Landfarm Design and Management Plan  Comment Landfarm Design and Management Plan  Besign and Management Plan  Ith	Windrows sampled unnually at the end of the summer season. See section 4.6.2 for sampling procedure. Coarse-grained naterial assessed near the end of the summer season for PHC product and odour. PHC odours are no conger detected? If yes, removed to the PRSF and disposed of as PAG naterial.				
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Design and the Management Plan Scand and the Management Scand and the Management Plan the Management Plan look and Management Plan look and the Management Plan l	annually at the end of the summer season. See section 4.6.2 for sampling procedure. Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.				
Management Plan see Landfarm see Design and Management Plan loo	he summer season. See section 4.6.2 for sampling procedure. Coarse-grained material assessed near he end of the summer season for PHC product and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.				
Management Plan Scand Communication   Landfarm Scand Anagement Plan loop   Pla	Gee section 4.6.2 for sampling procedure. Coarse-grained naterial assessed near he end of the summer leason for PHC product and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG naterial.				
Plan Sa Community of the Landfarm Se Design and Management Plan lo	campling procedure. Coarse-grained material assessed near the end of the summer teason for PHC product and odour. PHC odours are no conger detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Landfarm see Design and an Management P Plan lo	Coarse-grained material assessed near he end of the summer leason for PHC product and odour. PHC odours are no longer detected? If yes, lemoved to the PRSF and disposed of as PAG material.			X	
Landfarm see Design and an Management P Plan lo	naterial assessed near he end of the summer leason for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Landfarm se Design and an Management P Plan lo	he end of the summer teason for PHC product and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Landfarm se Design and an Management P Plan lo	teason for PHC product and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Design and an Management Plan lo	and odour. PHC odours are no onger detected? If yes, removed to the PRSF and disposed of as PAG naterial.			X	
Management P. Plan lo	PHC odours are no onger detected? If yes, emoved to the PRSF and disposed of as PAG material.			X	
Plan	onger detected? If yes, removed to the PRSF and disposed of as PAG material.				
	removed to the PRSF and disposed of as PAG naterial.				
	and disposed of as PAG material.				
	naterial.				
aı					
	loes non-				
Landfarm					
Design and	contaminated snow	X			
	need to be removed?	Λ			
Plan	leed to be removed:				
Ir	nspected areas;				
Landfarm CC	condition of berm and				
Landfarm	oase; previously				
Design and	inidentified safety	X			
Management	concerns, Twice	**			
	innually during				
	Summer. Date?				
	Monitoring for the				
	ootential introduction				
	of invasive vegetation				
	pecies for the	X			
	errestrial				
	environment				
	Monitoring for the		+	+	1
	ootential introduction				
	of invasive vegetation	X			
	pecies for the				
	errestrial				
	environment				
l l	Are there any				
l l	ıdditional				
	environmental	X			
l h	nazards/potential	41			
	mpacts that require				
	ittention?				
		_			
l l		X			
	prevent injury to				
W	vorkers?				
A an MINE ACT sh	Are there any Health and Safety issues that should be addressed to	X			

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### **Comments/Recommendations:**

Waste need to be picked up before getting buried under snow or other contaminated soil.

Environmental Personnel Name: Nicolas Saucier  Signature:	
oignature.	
Actions Corrected:	
Site Service Supervisor Name:	
Signature:	





Photo #1: Wood debris and general waste and the landfarm.



#### **Environmental Inspection Report for the Meadowbank Landfarm**

**Date:** 2019-12-21 **Inspected By:** Derek Nateela

In Compliance with	Subject	Conform	Non- conform	N/A	Comments
NWB Part B Item 10	Sign posted to inform of a waste disposal facility in English, French, and Inuktitut.	X			
NWB Part D Item 29 MBK SCP NIRB Condition 26	Are there any visual spills that can enter any water body?	X			
NWB Part F Item 6 and Item 8	Does the water need to be pumped? If yes, estimated volume in m³, analyse water and 10 days notification give to NWB?	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water >30m from ordinary high water mark	X			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not causing erosion	Х			
NWB Part F Item 9 NIRB Condition 12	Discharge of water not directly flowing to water body	Х			
NWB Part F Item 19 NIRB Condition 12	Waste disposal area >30 m from high water mark	Х			
NWB Part I Item 9	Monitoring signs are posted in English, French, and Inuktitut.	X			
NWB Part F Item 14 NIRB Condition 27	No hazardous waste present - All Hazardous waste generated is sent off site to an approved disposal facility (except contaminated soil)	X			



NIRB Condition 26	Ensure that spills, if any, are cleaned up immediately and that the site is kept clean of debris, including windblown debris.		X		Wood & food waste mixed with contaminated soil. Photo 1.
NWB Part I Item 10 and 15	Visual sign of runoff or seepage. If so, record and report the observation and the flow.	X			
NWB Part I Item 12	Annual Geotechnical inspection completed. Date?	X			
Landfarm Design and Management Plan	Maximum windrow size was 15 m wide at base x 4 m high x 50 m long	X			
Landfarm Design and Management Plan	Larger coarse material (> 1") was separated from the finer material	X			
Landfarm Design and Management Plan	A record is kept for the amount of contaminated soil placed in the landfarm and the location of each load within the facility.	X			
Landfarm Design and Management Plan	Does new contaminated soil was bringing to Landfarm without authorization? If so, estimated quantity.	X			
Landfarm Design and Management Plan	A record is kept for the amount of remediated contaminated soil, disposal location and usage.	X			
Landfarm Design and Management Plan	Does some pile are remediated and ready to remove from landfarm (respect GN guideline)?	X			
Landfarm Design and Management Plan	Soil mixed mechanically with earth-moving equipment (2-4 times per year, during the summer months).  Date?			X	
Landfarm Design and Management Plan	Does the windrow are dry prior to turning? If yes, we need to moisture the pile.			X	



	T		T		
Landfarm Design and Management Plan	Soil treatment with sewage sludge as nutrient supplement, at least once during summer on selected windrows.	X			
Landfarm Design and Management Plan	Windrows sampled annually at the end of the summer season. See section 4.6.2 for sampling procedure.			X	
Landfarm Design and Management Plan	Coarse-grained material assessed near the end of the summer season for PHC product and odour. PHC odours are no longer detected? If yes, removed to the PRSF and disposed of as PAG material.			X	
Landfarm Design and Management Plan	Does non- contaminated snow need to be removed?	X			
Landfarm Design and Management Plan	Inspected areas; condition of berm and base; previously unidentified safety concerns, Twice annually during Summer. Date?	X			
NIRB-No.008.6.1 (Condition 25)	Monitoring for the potential introduction of invasive vegetation species for the terrestrial environment	X			
NIRB-No.008.6.1 (Condition 25)	Monitoring for the potential introduction of invasive vegetation species for the terrestrial environment	X			
ВМР	Are there any additional environmental hazards/potential impacts that require attention?	X			
MINE ACT	Are there any Health and Safety issues that should be addressed to prevent injury to workers?	X			

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### **Comments/Recommendations:**

Wood and food waste mixed with contaminated soil was found during the inspection (Was included in the Dec. $14^{th}$  inspection).

See photo below.

Environmental Personnel Name: Isabelle Couture					
Signature: _					

Actions Corrected:	
Site Service Supervisor Name:	
Cignatura	
Signature:	

Photo 1: Wood and food waste mixed with contaminated soil

