



Agnico Eagle

# **Fuel Farm - PUMP U/G Portal**

Design Report for Fuel Farm

2025-06-20

DOC N°: 6542-416-132-REP-001

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# FUEL FARM MELIADINE SITE, NUNAVUT

AGNICO EAGLE

DESIGN REPORT (R0)

PROJECT NO.: CA0049485.7297

CLIENT REF: 6542

DATE: JUNE 20, 2025

WSP.COM

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# REVISION HISTORY

## REVISION A

2025/06/09	Issued for review			
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## REVISION 0

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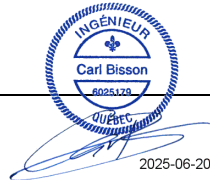
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# ACRONYMS AND ABBREVIATIONS

The definition of acronyms and abbreviations used in this report are listed below.

<i>ACRONYMS/ ABBREVIATIONS</i>	<i>DEFINITION</i>
AEM	Agnico Eagle Mines Limited - Division Meliadine
API	American Petroleum Institute
ARD-ML	Acid Rock Drainage – Metal Leaching
CCME	Canadian Council of Ministers of the Environment
CEC	Canadian Electrical Code
CSA	Canadian Standards Association
DRFS	Design Rationale for Fuel Storage and Distribution Facility
HDPE	High Density Polyethylene
NAPEG	Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists
NPAG	Non-Potential Acid Generating
NBCC	National Building Code of Canada
NFCC	National Fire Code of Canada
NFPA	National Fire Protection Association
NWB	Nunavut Water Board
QA/QC	Quality Assurance/Quality Control
R-125-95 NWT	Consolidated Mine Health and Safety Act
RRNWT	Revised Regulations of the Northwest Territories
U/G	Underground



# 1 INTRODUCTION

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## 1.1 PROJECT OVERVIEW

The Fuel Farm Project is part of the Pump U/G Portal Project at the Meliadine Mine, owned and operated by Agnico Eagle Mines Limited. The mine is located in the Kivalliq District of Nunavut, near the western shore of Hudson Bay, approximately 25 km north of Rankin Inlet.

As part of the mine's current plans, AEM plans to install a fuel storage tank farm system that includes two (2) 75 m<sup>3</sup> double-wall horizontal fuel tank, a fuel pumping station, fuel and urea dispensers and above-ground piping. Initially, one tank will be installed. A second tank will be added later as production increases. This system will supply diesel to both mining equipment, mobile emergency power generator and the site's service building. The entire fuel farm area will be surrounded by impermeable berms to contain any potential leaks from the tank or piping. The pumping station and refueling area will be installed on a lined pad with an impermeable membrane to allow for easy removal of contaminated material in case of a spill. The containment capacity is calculated as the combined volume of both tanks, with a security coefficient applied.

Figure 1 and figure 2 below indicate the geographical location of Meliadine site and the fuel farm location:



**Figure 1: Meliadine site location**



**Figure 2: Fuel Farm location**

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## 1.2 PURPOSE OF THE REPORT

Agnico Eagle mandated WSP to design the fuel farm, which includes the installation of two (2) horizontal double-wall fuel tank with containment berms including a liner system, aboveground distribution piping, and a lined pad with berms for two containers: a 40-foot pumping station container and a 20-foot fuel and urea dispensers container. Agnico Eagle is responsible for Quality Assurance and Quality Control (QA/QC) during construction.

This report outlines the design basis, relevant codes and regulations, engineering design and considerations for various component of the fuel farm. It also includes the final design and construction drawings for the fuel storage facilities.

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## 1.3 SCHEDULE

Earthworks are scheduled for mid-august 2025. Installation of the pumping station, fuel and urea dispensers, piping, and tank, are scheduled for September 2025. The commissioning of all components is expected to be completed by the end of 2025.

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## 1.4 INCLUSIONS AND EXCLUSIONS

The following items are included in the design report:

- Design of the double-wall horizontal fuel tank;
- Design of fuel pumping station container;
- Design of fuel and urea dispensers container;
- Design of the fuel piping between the horizontal tank and the pumping station, and between the two fuel containers;
- Design of the truck unloading facilities, including a mechanical unloading arm;
- Design of the instrumentation and electrical equipment of the fuel farm operation;
- Design of the pad foundation of the fuel farm area with a liner system;
- Design of the pad foundation of the containers area with a liner system;

Any elements not mentioned in the inclusions are considered excluded.

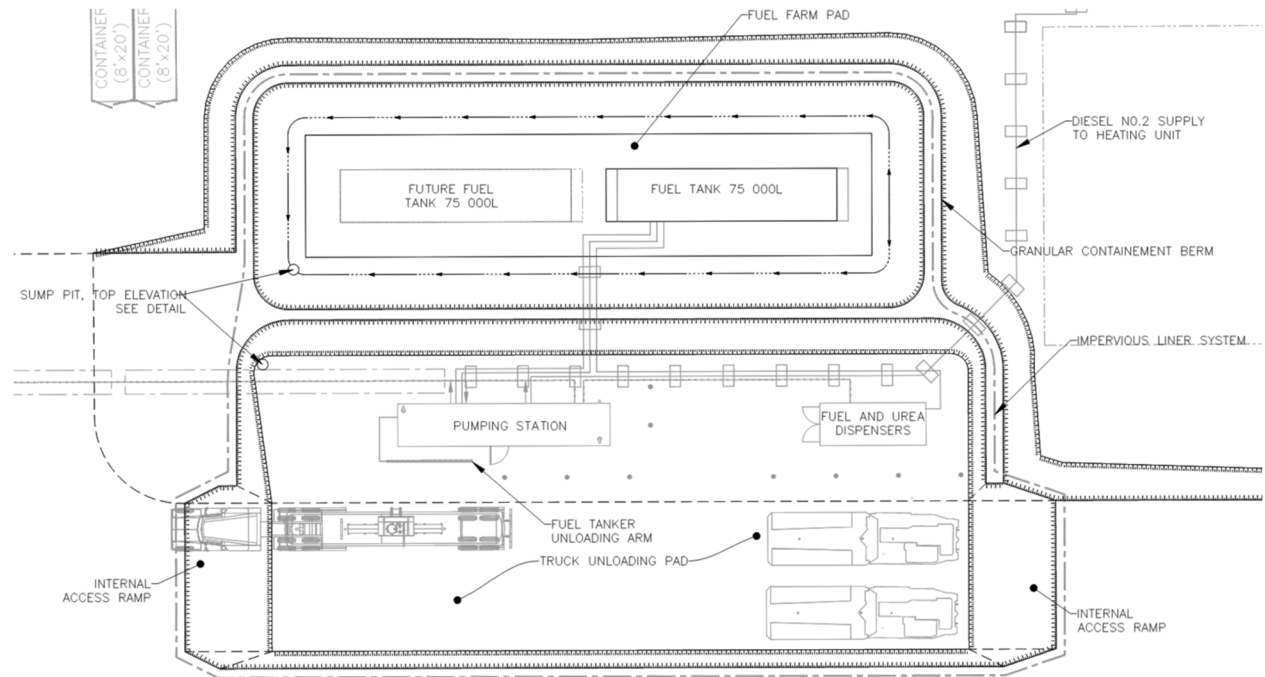
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## 1.5 ENGINEERING DOCUMENTS

- A General Arrangement drawing is provided in Appendix A;
- The Piping and Instrumentation Diagrams (P&ID) are provided in Appendix B;
- The Civil Construction Drawings are provided in Appendix C;
- The Pump Design Criteria is provided in Appendix D;
- Tank Layout is provided in Appendix E;
- Pumphouses general arrangement are provided in Appendix F.

## 2 GENERAL DESCRIPTION

Figure 3 shows the general arrangement of the fuel tank farm, the fuel pumping station and the fuel and urea dispensers.



**Figure 3 : General Arrangement of the Fuel Tank Farm and Fuel Pumping Station**

## 3 TANK DESCRIPTION AND INSTALLATION

### 3.1 CHARACTERISTICS OF THE TANK

The tank is an aboveground, horizontal, cylindrical tank with a vacuum-insulated double wall. It is designed for diesel storage and will be filled from the pumping station. The total storage capacity is 75000 L.

**Table 1 : Characteristics of the tank**

TANK IDENTIFICATION NUMBER	65TNK41620
Serial Number	To come
Nominal Tank Capacity	75000 L (75 m³)
Product Stored	#2 Diesel Oil
Type of Tank	Horizontal cylindrical, Double Wall (Vacuum), Outdoor
Diameter	2 997 mm
Length	10 719 mm
Year of Manufacture	2025
Manufacturer	Tank Shop Inc
ULC Standard	CAN-ULC-S601-14
Construction Material	Carbon steel
Corrosion Protection	Epoxy and Polyurethane Coating
Secondary Containment	Double Wall
Inspection and Certification Date	1 <sup>st</sup> July 2025 (plan)

### 3.2 TANK LAYOUT AND INSTALLATION

The detailed layout of the tanks is shown on Drawing provided in Appendix C.

The two (2) aboveground diesel storage tanks are installed with their longitudinal axes oriented parallel to the property line, in accordance with Article 4.3.2.1 of the NFCC.

A minimum spacing of 1.5 m is provided between the tanks, meeting the NFCC Article 4.3.2.2 requirement of at least 0.25 times the sum of their diameters or 1 m, whichever is greater.

## 4 DESIGN OF FUEL FARM PAD AND PUMPING STATION PAD

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### 4.1 EXISTING CONDITIONS

The fuel farm and pumping station will be situated to facilitate movement of mining trucks and tankers near the service building. They will be constructed on a granular material backfill, 0-600 mm deep, previously built by Agnico-Eagle with an average thickness of 1.5 metres.

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### 4.2 SECONDARY CONTAINMENT

According to the NFCC, Article 4.3.7.1 and Article 4.3.7.4, self-contained horizontal aboveground tanks that are ULC-approved and equipped with integral secondary containment are not required to have additional secondary containment systems.

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### 4.3 FOUNDATION FOR FUEL FARM AND PUMPING STATION

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#### 4.3.1 GRANULAR PAD GEOMETRY

Agnico-Eagle plans to construct a granular material pad over the current permafrost, with an average thickness of 1.5 meters. The fuel farm pad is approximately 7.0m x 32.5m (228 square meters). The dimensions of the pad can accommodate two 75,000-liter tanks placed horizontally, adhering to the Code's minimum spacing requirement of 1.5 meters. A channel around the pad redirects run off water or fuel spills to a sump pit. The pad and channel are bordered by a 1.0-meter impermeable berm with a slope of 2H:1V and feature a liner system made of HDPE geomembrane and non-woven geotextile.

The pumping station pad will be 17.0 x 40.0 metres (680 square meters). It can hold two containers (20 and 40-foot) and has a traffic area for tankers and mining trucks. The pad will have a impermeable berm using the same liner system as the fuel farm and will be level to channel water or fuel spills to the sump pit.

See Appendix C for plans.

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#### 4.3.2 IMPERVIOUSNESS OF THE PADS

The fuel farm and pumping station will have a impervious liner system to prevent environmental contamination in case of an oil spill, as required in Design Rational for fuel storage and distribution facilities of the Department of Public Works and Services of the Government of the Northwest Territories.

The impervious liner system consists of a 60mil HDPE geomembrane situated between two non-woven geotextile membranes. This system will be incorporated into the granular structure of the pads and berms. To prevent damage caused by heavy truck traffic, the liner system will be installed 300 mm below the surface of the fuel farm pad and at a depth of 1.0 meter beneath the pumping station pad. The membrane system will be installed 200 mm below the berm's top to ensure its imperviousness.

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### 4.3.3 DRAINAGE OF THE PADS AND WATER MANAGEMENT

The top of the pads will be leveled to ensure a minimum slope of 0.5%, allowing run off water or fuel spills to flow towards the low points of the basins, where a sump pit will be used to pump the water out. The sump pits will consist of a 205-liter perforated steel half barrel.

The water collected in the containment pond will undergo analysis prior to being transferred into a tanker. The AEM Environment Department will decide the discharge location based on the presence or absence of contaminants.

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## 4.4 ACCESS RAMP

An access ramp has been included in the plan to facilitate the accessibility of tankers and mining trucks to the pumping station. The elevation of the ramp was design to prevent run off water from flowing into the two basins, thereby avoiding the need to manage additional water volumes. The backfill depth ranges from 0 to 1.0 metres above the level of the pad previously constructed by Agnico-Eagle.

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## 4.5 CONSTRUCTION METHODS AND MONITORING

### 4.5.1 CONSTRUCTION METHODS

Backfill material will be placed in layers and compacted according to the Field Engineer's specifications. Equipment such as excavators, haul trucks, and vibratory compactors will be used for loading, dumping, and compacting the backfill.

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### 4.5.2 CONSTRUCTION MONITORING

A quality control and quality assurance program, overseen by experienced Agnico Eagle personnel, will be executed during the construction phase to ensure compliance with the Design Report and adherence to best management practices. Monitoring activities will include:

- Periodic visual inspections for design compliance.
  - Ensuring the liner manufacturing meets ASTM standards with certification from the manufacturer. The liner will be appropriately labelled, packaged, shipped, off-loaded, stored, and handled to prevent damage.
  - The liner system should be installed by a certified installer, ensuring all seaming, patching, welding, and testing are conducted by an experienced technician. Field seams will be welded using recommended procedures and equipment by the manufacturer, including double wedge fusion and extrusion welding. Rejected welds will be corrected satisfactorily, and all field seams will undergo non-destructive testing. The overlap of the geotextile should follow the manufacturer's recommendations.
  - Placement and compaction of backfill material as per construction drawings.
  - Inspection of berm stability and elevation before and after liner installation.
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### 4.5.3 EROSION AND SEDIMENT RELEASE CONTROL

The area will be closely observed for erosion and sediment transport throughout the construction period. Any necessary mitigation measures will be implemented in accordance with the Sediment and Erosion Management Plan.

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## 4.6 EARTHWORKS

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### 4.6.1 CONSTRUCTION MATERIAL QUANTITIES

ITEM	TOTAL
Granular fill 0-30mm (m3)	1900
Granular fill 0-150mm (m3)	1250
Granular fill 0-600mm (m3)	510 (spoil)
Total Backfill (m3)	3150
660 g/m2 non-woven geotextile (m2)	1705
60 mil HDPE Geomembrane (m2)	3410

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### 4.6.2 CONSTRUCTION MATERIAL SPECIFICATION

All the material to be used is NPAG (Non-Potential Acid Generating). Any new material will be collected and analyzed to ensure it is NPAG and non-metal leaching. The general requirements for the materials are specified below.

#### 4.6.2.1 GRANULAR FILL (0-30)

Granular Fill (0-30 mm) shall consist of hard durable particles, be free of roots, topsoil and other organic material and have a particle size distribution as presented in Table 3. Processing will be required to achieve the specified gradation.

PARTICLE SIZE (MM)	% PASSING
30	100
14	65-100
5	45-70
0.63	15-35
0.08	4-10

#### 4.6.2.2 GRANULAR FILL (0-150)

Granular Fill (0-150 mm) shall consist of hard durable particles, be free of roots, topsoil and other organic material and have a particle size distribution as presented in Table 3. Processing will be required to achieve the specified gradation.

PARTICLE SIZE (MM)	% PASSING
150	100
100	50-100
50	25-65
25	10-40
5	0-15

#### 4.6.2.3 GRANULAR FILL (0-600)

Granular fill (0-600 mm) may vary in gradation, with a maximum particle size of 600 mm. Rock fill particles should be angular and derived from hard, durable rock. Oversized boulders must be removed before placing the rock fill into earth structures.

#### 4.6.2.4 GEOTEXTILE

To safeguard the geomembrane, a non-woven geotextile membrane should be placed on both sides. The membrane must be constructed from polypropylene fibre and meet the specifications listed in Table 5. The weight of the membrane should be at least 540 g/m<sup>2</sup>.

PROPRETY	FUEL FARM	ASTM TEST METHOD (OR APPROVED EQUIVALENCE)
Tensil strenght (N - lbs)	1891 - 425	D4632
Elongation at break (%)	50	D4632
Tear (N - lbs)	690 - 155	D4533
Puncture (N - lbs)	5800 - 1305	D6241
UV resistance (% / 500 h)	70	D4355
Weight (g/m2 – oz/yd2)	545 - 16	D5261



#### 4.6.2.5 GEOMEMBRANE LINER

A high-density polyethylene (HDPE) geomembrane will be installed between two layers of granular material to ensure the imperviousness of the basins in case of a fuel spill. The geomembrane must be seamless, with joints fused together to guarantee the impermeability of the system. The minimum specifications required are outlined in the following table:

TEST PARAMETER	REQUIRED SPECIFICATIONS	ASTM TEST METHOD (OR APPROVED EQUIVALENT)
Minimum average thickness (mm/mil)	1.43	D5199
Sheet Density	0.94	D792
Stenght at yield (kN/m)	23	D6693
Stenght at break (kN/m)	23	D6693
Elongation at yield (%)	13	D6693
Elongation at break (%)	150	D6693
Tear resistance (N)	200	D1004
Dimensional stability (%)	2	D1204
Puncture resistance (N)	535	D4833
Carbon black dispersion	Cat. 1 / Cat. 2	D5596

## 5 DESIGN OF MECHANICAL / ELECTRICAL / INSTRUMENTAL EQUIPMENT

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### 5.1 GENERAL DESCRIPTION

The pump U/G fuel farm is intended to supply Arctic Diesel EN590 (#2 diesel oil) to support mining operations, including fueling of mobile mining equipment, and service building fuel tank. The fuel tank will be refilled regularly by tanker trucks. The main storage tank area includes one (1) 75000 L horizontal double-walled tank, with the provision to add a future 75000 L.

The pump U/G fuel farm include the following mechanical equipment:

- One (1) Diesel Storage Tank with a capacity of 75 m<sup>3</sup>;
- One (1) 20' high-cube steel shipping container;
- One (1) 40' high-cube steel shipping container;
- One (1) diesel supply pump to unload the tanker toward the fuel tank storage;
- Two (2) diesel distribution pump to provide diesel to service buildings;
- One (1) Urea dispenser;
- One (1) Diesel No.2 dispenser;
- One (1) Hose loading arm;
- Two (2) Tote urea tank (1000 L);
- Two (2) spit tank (5 gal);
- Piping and flexible hose connector;
- Valve, filter and strainer.

The general arrangement for mechanical equipment is presented on drawings provided in Appendix A and Appendix F.

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### 5.2 CODES AND STANDARDS

The system shall comply with the latest editions of all applicable codes and standards, including federal, territorial, and municipal regulations, as well as, but not limited to, the following:

- The National Building Code of Canada (NBCC);
- National Fire Code of Canada (NFCC);
- Canadian Council of Ministers of the Environment (CCME);
- Canadian Electrical Code (CEC);
- Canadian Standards Association (CSA);
- National Fire Protection Association (NFPA);
- American Petroleum Institute (API).

Additionally, it must comply with the directives of the authorities having jurisdiction over this project. Specific codes and standards applicable to this project include:

- R-125-95 NWT and Nunavut Mine Health and Safety Regulations (Mine Health and Safety Act);
- RRNWT 1990, c F-12 Fire Prevention Regulations.

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## 5.3 DESIGN OF PUMPING STATIONS AND PIPING

The main design of the pumping station and associated piping system is based on the following technical criteria:

- Fuel piping velocity is limited to 2.5 m/s, in accordance with Agnico Eagle's Design Criteria – Piping, Valves & Fittings General Specification;
- All valves comply with piping class CC10; which defines the pressure rating, material requirements, and connection types suitable for fuel service in cold climates
- The length of each flexible hose connector is six times the nominal diameter of the hose;
- Flexible connections are installed horizontally and in a straight alignment at building interfaces to absorb movement and reduce stress on the system;
- All fittings conform to Agnico Eagle's piping specifications; any components not listed in the specification are off-spec;
- Flanged connections are installed wherever possible to minimize the risk of leaks and facilitate maintenance activities;
- Distributed diesel is filtered to protect downstream equipment;
- The diesel dispenser is equipped with two high-flow nozzles to optimize refueling operations.  
The entire fuel farm area is surrounded by impermeable berms to contain potential spills and facilitate environmental protection;
- Installation of a set of isolation valves for maintenance;
- Both the pumping station and refueled equipment are installed on a lined pad with a geomembrane to enable quick removal of contaminated material in case of a spill;
- Piping material is selected to comply with applicable codes and Agnico Eagle's specifications:
  - For pipes Ø15 mm to Ø50 mm: seamless carbon steel, Schedule 80, ASTM A333 Grade 6
  - For pipes Ø80 mm to Ø100 mm: seamless carbon steel, Schedule 40, ASTM A333 Grade 6

Refer to Construction Drawings provided in Appendix B and F for details.

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## 5.4 FUNCTIONAL DESCRIPTION

The Fuel Distribution System will be managed using various instruments, including alarms, interlocks, and sensors, to ensure the safe operation of the fuel farm and prevent tank overfilling or spills.

The complete functional description of the system is presented in Appendix D (to be included in next version).

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## 5.5 COMMISSIONING / MAINTENANCE / INSPECTION

The installation and testing of mechanical equipment and piping will follow Agnico Eagle's procedures and best practices for fuel farm system components, in accordance with applicable codes and standards. Air pressure tests will be conducted under the responsibility of Agnico Eagle.

Once in service, the system will be subject to routine inspections and maintenance by a qualified maintenance team, in accordance with regulatory and code requirements. This includes regular visual checks of the aboveground piping for signs of leakage or deterioration.

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### 5.5.1 QUALITY CONTROL FOR CARBON STEEL PIPING

All carbon steel piping will be subject to a static pressure test at 1.5 times the operating pressure to confirm the system's integrity under operational conditions. A visual inspection of all welds will be performed by a certified welding inspector to ensure compliance with applicable standards. Additionally, magnetic particle testing will be

conducted on 20% of the weld joints to detect any surface or near-surface discontinuities. These quality control measures are implemented to ensure the reliability and safety of the piping installation.

## 6 LIMITATIONS OF REPORT

The content and opinions contained in the present report are based on the observations and/or information available to WSP at the time of preparation, using investigation techniques and engineering analysis methods consistent with those ordinarily exercised by WSP and other engineering/scientific practitioners working under similar conditions, and subject to the same time, financial and physical constraints applicable to this project.

WSP disclaims any obligation to update this report if, after the date of this report, any conditions appear to differ significantly from those presented in this report; however, WSP reserves the right to amend or supplement this report based on additional information, documentation or evidence.

WSP makes no other representations whatsoever concerning the legal significance of its findings.

The intended recipient is solely responsible for the disclosure of any information contained in this report. If a third party makes use of, relies on, or makes decisions in accordance with this report, said third party is solely responsible for such use, reliance or decisions. WSP does not accept responsibility for damages, if any, suffered by any third party as a result of decisions made or actions taken by said third party based on this report.

WSP has provided services to the intended recipient in accordance with the professional services agreement between the parties and in a manner consistent with that degree of care, skill and diligence normally provided by members of the same profession performing the same or comparable services in respect of projects of a similar nature in similar circumstances. It is understood and agreed by WSP and the recipient of this report that WSP provides no warranty, express or implied, of any kind. Without limiting the generality of the foregoing, it is agreed and understood by WSP and the recipient of this report that WSP makes no representation or warranty whatsoever as to the sufficiency of its scope of work for the purpose sought by the recipient of this report.

In preparing this report, WSP has relied in good faith on information provided by others, as noted in the report. WSP has reasonably assumed that the information provided is correct and WSP is not responsible for the accuracy or completeness of such information.

Benchmark and elevations used in this report are primarily to establish relative elevation differences between the specific testing and/or sampling locations and should not be used for other purposes, such as grading, excavating, construction, planning, development, etc.

WSP disclaims any responsibility for consequential financial effects on transactions or property values, or requirements for follow-up actions /or costs.

Design recommendations given in this report are applicable only to the project and areas as described in the text and then only if constructed in accordance with the details stated in this report. The comments made in this report on potential construction issues and possible methods are intended only for the guidance of the designer. The number of testing and/or sampling locations may not be sufficient to determine all the factors that may affect construction methods and costs. We accept no responsibility for any decisions made or actions taken as a result of this report unless we are specifically advised of and participate in such action, in which case our responsibility will be as agreed to at that time.

# APPENDIX

## A GENERAL ARRANGEMENT



# APPENDIX A

NUMBER	TITLE	REVISION
65-PUM-400-210-000-001	AGNICO EAGLE – MELIADINE 400 – SURFACES FACILITIES – PUMP U/G PORTAL GENERAL 210 – GENERAL ARRANGEMENT INFRASTRUCTURE GENERAL ARRANGEMENT DRAWING GENERAL ARRANGEMENT – SURFACE FACILITIES	1
65-PUM-416-270-000-006	AGNICO EAGLE – MELIADINE 416 – FUEL TANK FARM 270 – PIPING GENERAL ARRANGEMENT PLAN VIEW	0
65-PUM-416-270-000-007	AGNICO EAGLE – MELIADINE 416 – FUEL TANK FARM 270 – PIPING GENERAL ARRANGEMENT DETAIL VIEWS	0
65-PUM-416-270-000-008	AGNICO EAGLE – MELIADINE 416 – FUEL TANK FARM 270 – PIPING GENERAL ARRANGEMENT DETAIL VIEWS	0
65-PUM-416-270-000-009	AGNICO EAGLE – MELIADINE 416 – FUEL TANK FARM 270 – PIPING GENERAL ARRANGEMENT SECTION VIEWS (PART 1)	0
65-PUM-416-270-000-0010	AGNICO EAGLE – MELIADINE 416 – FUEL TANK FARM 270 – PIPING GENERAL ARRANGEMENT DETAIL VIEWS (PART 2)	0

# APPENDIX

## B P&ID



# APPENDIX B

NUMBER	TITLE	REVISION
65-PUM-416-205-000-001	AGNICO EAGLE – MELIADINE 416 – FUEL TANK FARM – PUMP PORTAL FUEL DISTRIBUTION 205 – PIPING & INSTRUMENTATION DIAGRAM P&ID – FUEL PUMPING STATION & DISTRIBUTION P&ID	1
65-PUM-416-270-000-002	AGNICO EAGLE – MELIADINE 416 – FUEL TANK FARM – PUMP PORTAL FUEL DISTRIBUTION 205 – PIPING & INSTRUMENTATION DIAGRAM P&ID – FUEL PUMPING STATION & DISTRIBUTION PART 2 P&ID	0
65-PUM-416-270-000-003	AGNICO EAGLE – MELIADINE 416 – FUEL TANK FARM – PUMP PORTAL FUEL DISTRIBUTION 205 – PIPING & INSTRUMENTATION DIAGRAM P&ID – FUEL PUMPING STATION & DISTRIBUTION PART 3 P&ID	0



# APPENDIX

## C CIVIL CONSTRUCTION DRAWING

# APPENDIX C

NUMBER	TITLE	REVISION
65-PUM-416-230-000-002	AGNICO EAGLE – MELIADINE 416 – FUEL FARM 230 – GENEAREAL EARTHWORK MELIADINE PUMP – FUEL FARM PROPOSED LAYOUT	B
65-PUM-416-230-000-003	AGNICO EAGLE – MELIADINE 416 – FUEL FARM 230 – GENEAREAL EARTHWORK MELIADINE PUMP – FUEL FARM PROFIL VIEW AND DETAILS	B

# APPENDIX

## D FUNCTIONAL DESCRIPTION



# APPENDIX D

NUMBER	TITLE	REVISION
6542-416-280-DES-001	Functional Description Fuel Farm Meliadine	0