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MELIADINE GOLD MINE 2023 ANNUAL INSPECTION

ITIVIA BYPASS ROAD AND CULVERT PHOTO LOCATIONS


PROJECT NO. ENG. EARC03140-33	DWN RC	CKD HX	REV 0
OFFICE EDM	DATE January 05, 2024		

FIGURE 19

Q:\Edmonton\Engineering\E141\Projects\MELIADINE\ENG\EARC03140-33 2023 Annual Inspection\Figure for Photo Location\Photo Location.tif 2.dwg [FIGURE 19] January 30, 2024 4:20:44 pm (BY: CHEN, ROBIN)

Q:\Edmonton\Engineering\E141\Projects\MELIADINE\ENG\EARC03140-33 2023 Annual Inspection\Figure for Photo Location\Photo Location.tif 2.dwg [FIGURE 20] January 30, 2024 4:20:49 pm (BY: CHIEN, ROBIN)



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OFFICE EDM	DATE January 05, 2024		

FIGURE 20

Q:\Edmonton\Engineering\E141\Projects\MELIADINE\ENG\EARC03140-33 2023 Annual Inspection\Figure for Photo Location\Photo Location.tif 2.dwg [FIGURE 21] January 30, 2024 4:20:54 pm (BY: CHIEN, ROBIN)



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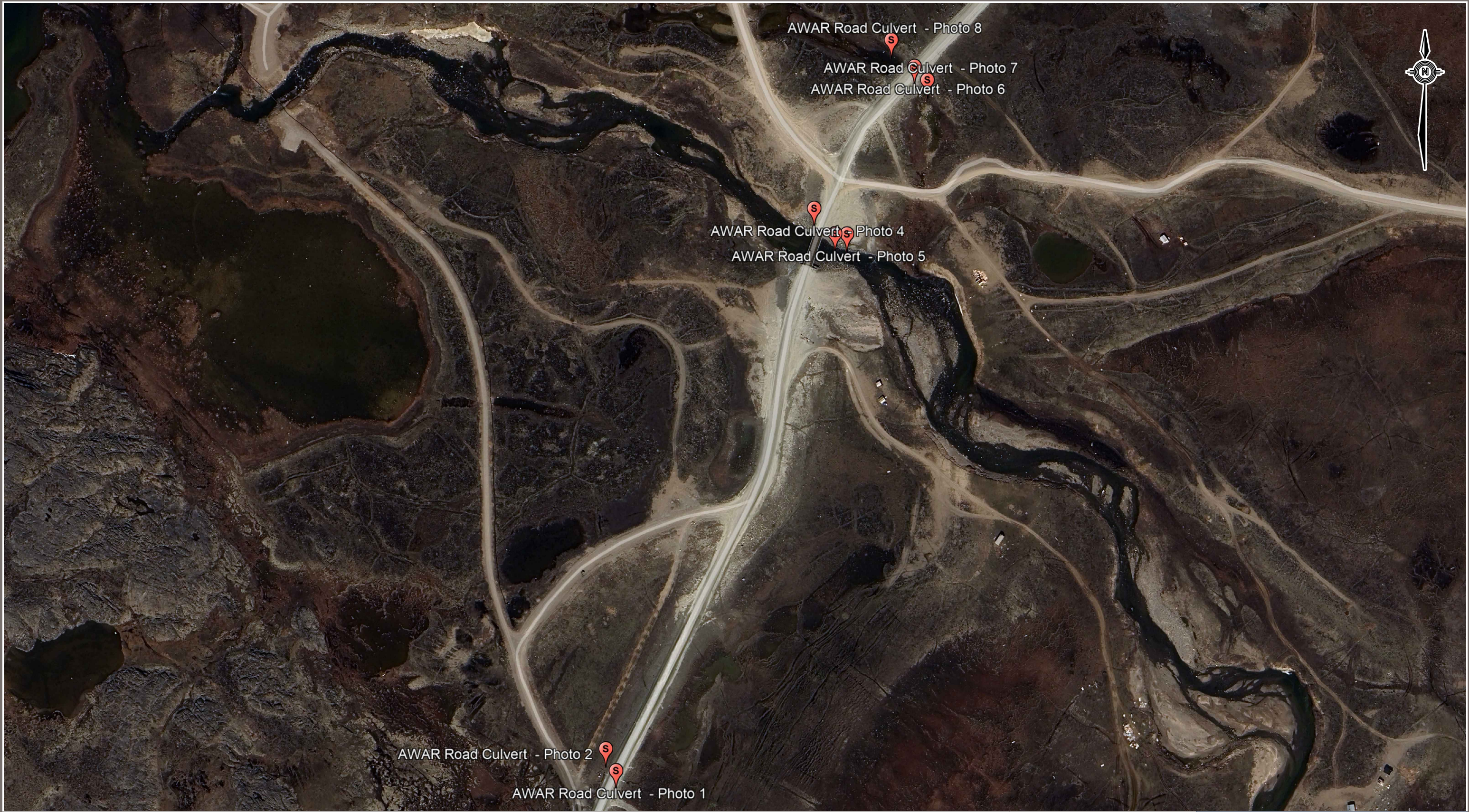
MELIADINE GOLD MINE 2023 ANNUAL INSPECTION


ITIVIA BYPASS ROAD AND CULVERT PHOTO LOCATIONS

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OFFICE EDM	DATE January 05, 2024		

FIGURE 21

Q:\Edmonton\Engineering\141\Projects\ MELIADINE\ENG.EARC03140-33 2023 Annual Inspection\Figure for Photo Location\Photo Location.tif 2.dwg [FIGURE 22] January 30, 2024 4:20:59 pm (BY: CHEN, ROBIN)



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OFFICE EDM	DATE January 05, 2024		

FIGURE 22

Q:\Edmonton\Engineering\E141\Projects\MELIADINE\ENG\EARC03140-33 2023 Annual Inspection\Figure for Photo Location\Photo Location.tif 2.dwg [FIGURE 23] January 30, 2024 4:21:04 pm (BY: CHIEN, ROBIN)



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MELIADINE GOLD MINE 2023 ANNUAL INSPECTION

AWAR ROAD AND CULVERT PHOTO LOCATIONS

PROJECT NO. ENG. EARC03140-33	DWN RC	CKD HX	REV 0	FIGURE 23
OFFICE EDM	DATE January 05, 2024			

Q:\Edmonton\Engineering\E141\Projects\MELIADINE\ENG\EARC03140-33 2023 Annual Inspection\Figure for Photo Location\Photo Location.tif 2.dwg [FIGURE 24] January 30, 2024 4:21:09 pm (BY: CHIEN, ROBIN)



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OFFICE EDM	DATE January 05, 2024		

FIGURE 24

Q:\Edmonton\Engineering\E141\Projects\MELIADINE\ENG\EARC03140-33 2023 Annual Inspection\Figure for Photo Location\Photo Location.tif 2.dwg [FIGURE 25] January 30, 2024 4:21:14 pm (BY: CHEN, ROBIN)



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OFFICE EDM	DATE January 05, 2024		

FIGURE 25

Q:\Edmonton\Engineering\E141\Projects\ MELIADINE\ENG\EARC03140-33 2023 Annual Inspection\Figure for Photo Location\Photo Location.tif 2.dwg [FIGURE 26] January 30, 2024 4:21:19 pm (BY: CHIEN, ROBIN)



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OFFICE EDM	DATE January 05, 2024		

FIGURE 26

Q:\Edmonton\Engineering\E141\Projects\MELIADINE\ENG\EARC03140-33 2023 Annual Inspection\Figure for Photo Location\Photo Location.tif 2.dwg [FIGURE 27] January 30, 2024 4:21:24 pm (BY: CHIEN, ROBIN)



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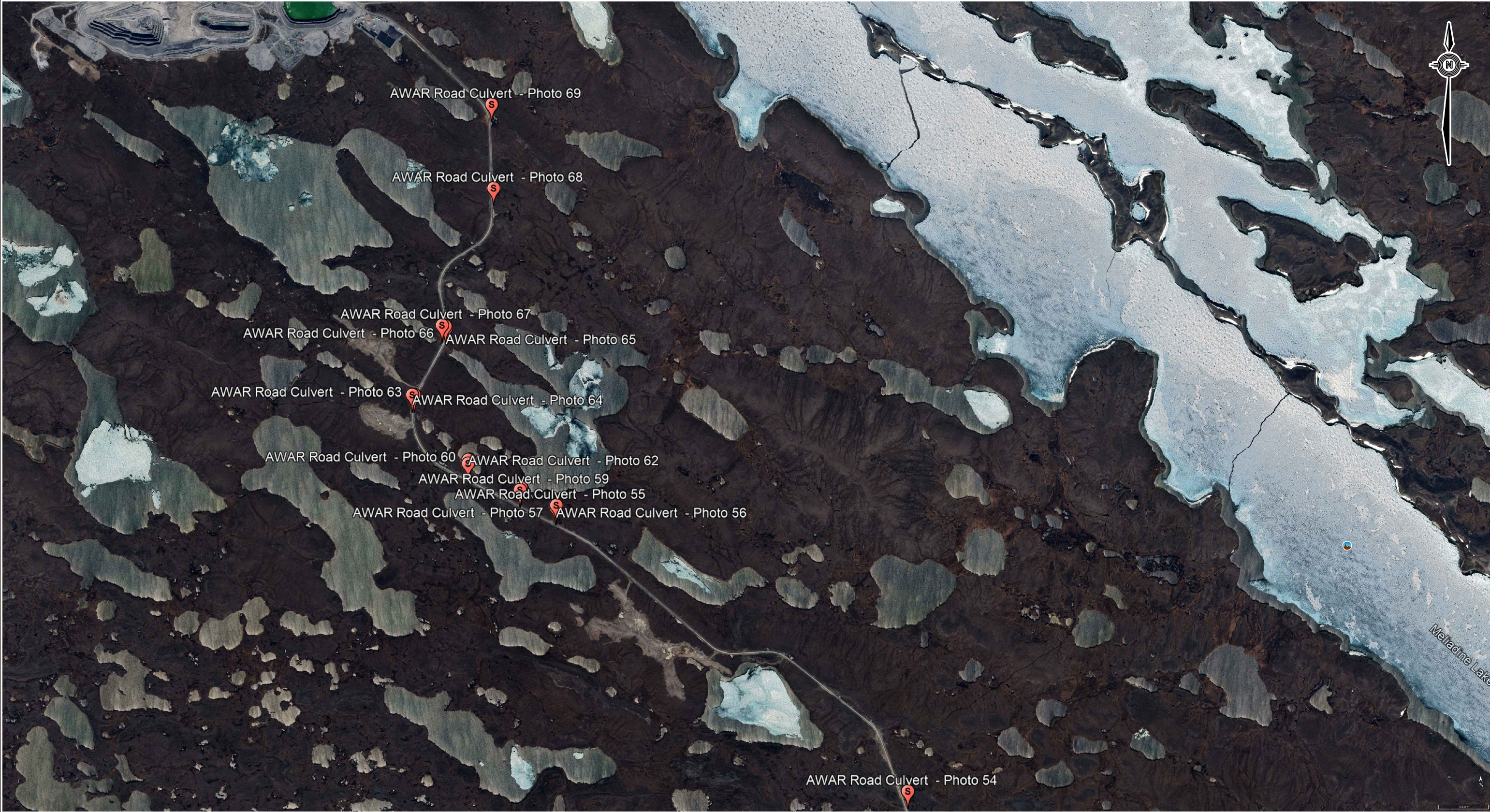
MELIADINE GOLD MINE 2023 ANNUAL INSPECTION

AWAR ROAD AND CULVERT PHOTO LOCATIONS

PROJECT NO. ENG. EARC03140-33	DWN RC	CKD HX	REV 0
OFFICE EDM	DATE January 05, 2024		

FIGURE 27

Q:\Edmonton\Engineering\141\Projects\MELIADINE\ENG\EARC03140-33 2023 Annual Inspection\Figure for Photo Location\Photo Location.tif 2.dwg [FIGURE 28] January 30, 2024 4:21:29 pm (BY: CHIEN, ROBIN)



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OFFICE EDM	DATE January 05, 2024		

FIGURE 28

## APPENDIX A

### TETRA TECH'S LIMITATIONS ON USE OF THIS DOCUMENT

# LIMITATIONS ON USE OF THIS DOCUMENT

## GEOTECHNICAL

### 1.1 USE OF DOCUMENT AND OWNERSHIP

This document pertains to a specific site, a specific development, and a specific scope of work. The document may include plans, drawings, profiles and other supporting documents that collectively constitute the document (the "Professional Document").

The Professional Document is intended for the sole use of TETRA TECH's Client (the "Client") as specifically identified in the TETRA TECH Services Agreement or other Contractual Agreement entered into with the Client (either of which is termed the "Contract" herein). TETRA TECH does not accept any responsibility for the accuracy of any of the data, analyses, recommendations or other contents of the Professional Document when it is used or relied upon by any party other than the Client, unless authorized in writing by TETRA TECH.

Any unauthorized use of the Professional Document is at the sole risk of the user. TETRA TECH accepts no responsibility whatsoever for any loss or damage where such loss or damage is alleged to be or, in fact, caused by the unauthorized use of the Professional Document.

Where TETRA TECH has expressly authorized the use of the Professional Document by a third party (an "Authorized Party"), consideration for such authorization is the Authorized Party's acceptance of these Limitations on Use of this Document as well as any limitations on liability contained in the Contract with the Client (all of which is collectively termed the "Limitations on Liability"). The Authorized Party should carefully review both these Limitations on Use of this Document and the Contract prior to making any use of the Professional Document. Any use made of the Professional Document by an Authorized Party constitutes the Authorized Party's express acceptance of, and agreement to, the Limitations on Liability.

The Professional Document and any other form or type of data or documents generated by TETRA TECH during the performance of the work are TETRA TECH's professional work product and shall remain the copyright property of TETRA TECH.

The Professional Document is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of TETRA TECH. Additional copies of the Document, if required, may be obtained upon request.

### 1.2 ALTERNATIVE DOCUMENT FORMAT

Where TETRA TECH submits electronic file and/or hard copy versions of the Professional Document or any drawings or other project-related documents and deliverables (collectively termed TETRA TECH's "Instruments of Professional Service"), only the signed and/or sealed versions shall be considered final. The original signed and/or sealed electronic file and/or hard copy version archived by TETRA TECH shall be deemed to be the original. TETRA TECH will archive a protected digital copy of the original signed and/or sealed version for a period of 10 years.

Both electronic file and/or hard copy versions of TETRA TECH's Instruments of Professional Service shall not, under any circumstances, be altered by any party except TETRA TECH. TETRA TECH's Instruments of Professional Service will be used only and exactly as submitted by TETRA TECH.

Electronic files submitted by TETRA TECH have been prepared and submitted using specific software and hardware systems. TETRA TECH makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

### 1.3 STANDARD OF CARE

Services performed by TETRA TECH for the Professional Document have been conducted in accordance with the Contract, in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions in the jurisdiction in which the services are provided. Professional judgment has been applied in developing the conclusions and/or recommendations provided in this Professional Document. No warranty or guarantee, express or implied, is made concerning the test results, comments, recommendations, or any other portion of the Professional Document.

If any error or omission is detected by the Client or an Authorized Party, the error or omission must be immediately brought to the attention of TETRA TECH.

### 1.4 DISCLOSURE OF INFORMATION BY CLIENT

The Client acknowledges that it has fully cooperated with TETRA TECH with respect to the provision of all available information on the past, present, and proposed conditions on the site, including historical information respecting the use of the site. The Client further acknowledges that in order for TETRA TECH to properly provide the services contracted for in the Contract, TETRA TECH has relied upon the Client with respect to both the full disclosure and accuracy of any such information.

### 1.5 INFORMATION PROVIDED TO TETRA TECH BY OTHERS

During the performance of the work and the preparation of this Professional Document, TETRA TECH may have relied on information provided by persons other than the Client.

While TETRA TECH endeavours to verify the accuracy of such information, TETRA TECH accepts no responsibility for the accuracy or the reliability of such information even where inaccurate or unreliable information impacts any recommendations, design or other deliverables and causes the Client or an Authorized Party loss or damage.

### 1.6 GENERAL LIMITATIONS OF DOCUMENT

This Professional Document is based solely on the conditions presented and the data available to TETRA TECH at the time the data were collected in the field or gathered from available databases.

The Client, and any Authorized Party, acknowledges that the Professional Document is based on limited data and that the conclusions, opinions, and recommendations contained in the Professional Document are the result of the application of professional judgment to such limited data.

The Professional Document is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation from the site conditions present, or variation in assumed conditions which might form the basis of design or recommendations as outlined in this report, at or on the development proposed as of the date of the Professional Document requires a supplementary investigation and assessment.

TETRA TECH is neither qualified to, nor is it making, any recommendations with respect to the purchase, sale, investment or development of the property, the decisions on which are the sole responsibility of the Client.

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## 1.7 ENVIRONMENTAL AND REGULATORY ISSUES

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Unless stipulated in the report, TETRA TECH has not been retained to investigate, address or consider and has not investigated, addressed or considered any environmental or regulatory issues associated with development on the subject site.

## 1.8 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

---

Classification and identification of soils and rocks are based upon commonly accepted systems and methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. TETRA TECH does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

## 1.9 LOGS OF TESTHOLES

---

The testhole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

## 1.10 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

---

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of test holes and/or soil/rock exposures. Stratigraphy is known only at the locations of the test hole or exposure. Actual geology and stratigraphy between test holes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. TETRA TECH does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

## 1.11 PROTECTION OF EXPOSED GROUND

---

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

## 1.12 SUPPORT OF ADJACENT GROUND AND STRUCTURES

---

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

## 1.13 INFLUENCE OF CONSTRUCTION ACTIVITY

---

There is a direct correlation between construction activity and structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques are known.

## 1.14 OBSERVATIONS DURING CONSTRUCTION

---

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, as well as the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

## 1.15 DRAINAGE SYSTEMS

---

Where temporary or permanent drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

## 1.16 BEARING CAPACITY

---

Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions assumed in this report in fact exist at the site.

## 1.17 SAMPLES

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TETRA TECH will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of samples can be made at the Client's expense upon written request, otherwise samples will be discarded.

## APPENDIX B

### POND CP1 AND DIKE D-CP1