



To: Tracy Seppala, Waste Management Technical Specialist
Janet Cunningham, P.Eng., Waste Management
Superintendent

Date: August 11, 2025

From: Colleen Wendeborn, M.Sc., P.Geol.
Sean Buckles, M.Sc., P.Eng.

File: 704-SWM.SWOP04071-04.002

Subject: Riverside Heavy Site 2024 Site Walkover

1.0 INTRODUCTION

The City of Red Deer (The City) retained Tetra Tech Canada Inc. (Tetra Tech) to conduct an annual site walkover in 2024 of the former landfill known as the Riverside Heavy Dry Waste Site (Riverside Heavy; also referred to as 'the Site'). The Site is located at 4471 Northland Drive and 7796 47 Avenue Close, within the NE and SE quarters of 33-038-27 W4M, Red Deer, Alberta (Figure 1).

The objectives of the site walkover were to verify site drainage, make observations of the integrity of landfill cover, and to visually inspect the groundwater and soil vapour monitoring wells at the Site. Conducting an annual site check follows the ongoing monitoring recommendation presented in the 2022 Tetra Tech report *2021 Groundwater and Soil Vapour Monitoring Report; Riverside Heavy Dry Waste Site; NE and SE of Section 33-038-27 W4M*.

On December 6, 2024, a Tetra Tech representative attended the Site and completed the site walkover, documenting site drainage, integrity of the landfill cover, and the visual condition of the groundwater and soil vapour monitoring wells.

2.0 SITE WALKOVER OBSERVATIONS

The Site was snow covered. No obvious surface exposure of buried waste was observed.

All groundwater and soil vapour monitoring wells were found to be in good condition; this includes MW-01 to MW-03 and VW-01.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Tetra Tech conducted a site walkover on December 6, 2024. The site cover and monitoring wells were found to be in good condition overall, noting the snow cover across the Site.

An annual site walkover continues to be recommended to confirm the condition of the site drainage, landfill cover, and monitoring wells. It is best if the site walkover is completed when the ground is not covered in snow, to observe potential for exposed waste and other surface conditions.

4.0 LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of The City of Red Deer and their agents. Tetra Tech Canada Inc. (Tetra Tech) does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than The City of Red Deer, or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this document is subject to the Limitations on the Use of this Document attached in the Appendix or Contractual Terms and Conditions executed by both parties.

5.0 CLOSURE

We trust this technical memo meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted,
Tetra Tech Canada Inc.

704-SWM.SWOP04071-04.002
704-SWM.SWOP04071-04.002
704-SWM.SWOP04071-04.002

704-SWM.SWOP04071-04.002
704-SWM.SWOP04071-04.002
704-SWM.SWOP04071-04.002

Prepared by:
Colleen Wendeborn, M.Sc., P.Geol.
Senior Hydrogeologist
Solid Waste Management Practice
Direct Line: 403.723.1605
Colleen.Wendeborn@tetrattech.com

Reviewed by:
Sean Buckles, M.Sc., P.Eng.
Senior Project Engineer
Solid Waste Management Practice
Direct Line: 403.723.6876
Sean.Buckles@tetrattech.com

**PERMIT TO PRACTICE
TETRA TECH CANADA INC.**

RM SIGNATURE: _____

RM APEGA ID #: _____

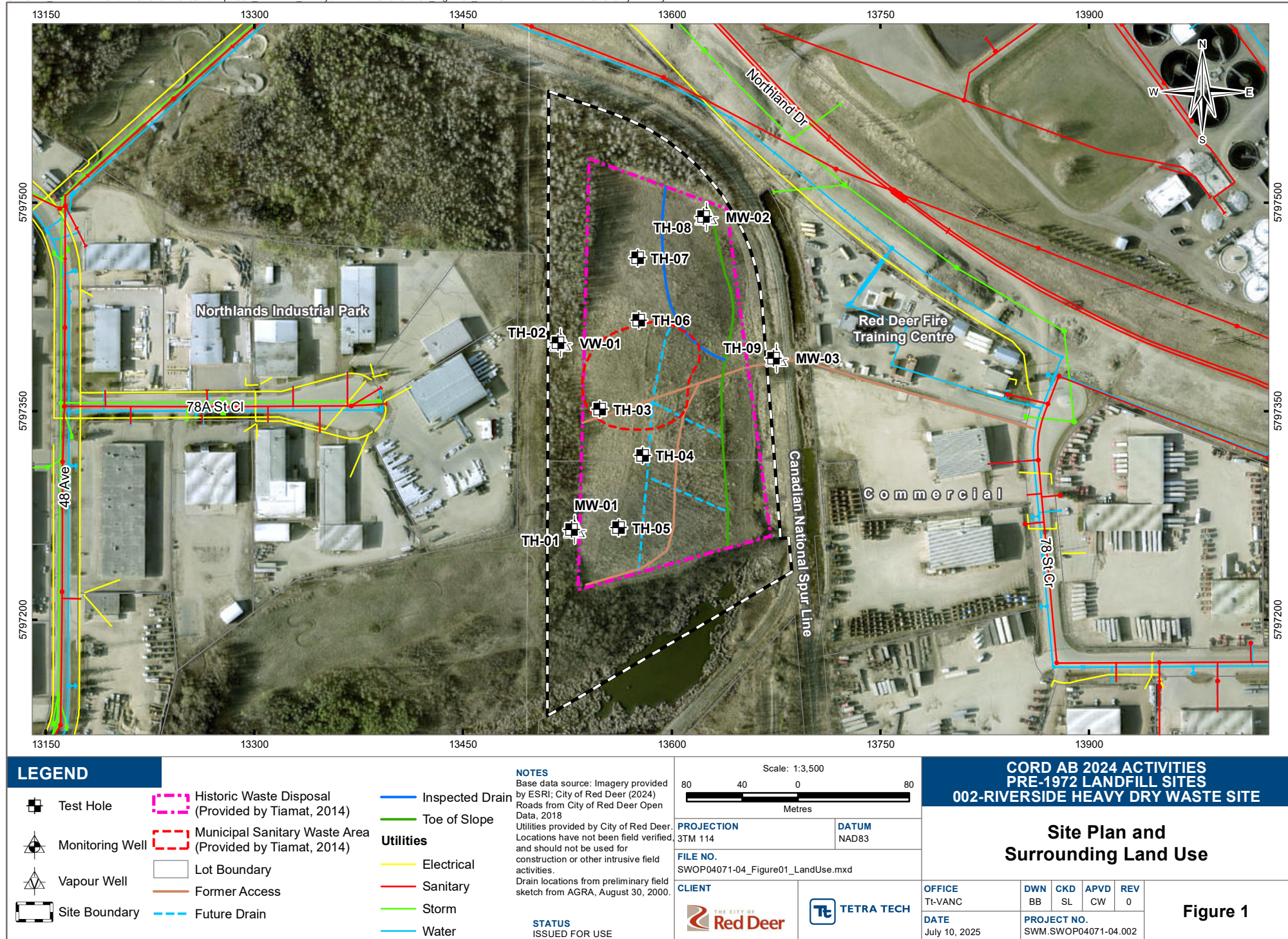
DATE: _____

PERMIT NUMBER: P013774

The Association of Professional Engineers and
Geoscientists of Alberta (APEGA)

/as

Attachments (2): Figure 1: Site Plan and Surrounding Land Use
Tetra Tech's Limitations on the Use of this Document



LIMITATIONS ON USE OF THIS DOCUMENT

GEOENVIRONMENTAL

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, is 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 third parties 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 exploration, 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.

1.7 NOTIFICATION OF AUTHORITIES

In certain instances, the discovery of hazardous substances or conditions and materials may require that regulatory agencies and other persons be informed and the client agrees that notification to such bodies or persons as required may be done by TETRA TECH in its reasonably exercised discretion.