



To: Tracy Seppala, Waste Management Technical Specialist
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Superintendent

Date: August 11, 2025

From: Colleen Wendeborn, M.Sc., P.Geol.
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File: 704-SWM.SWOP04071-04.002

Subject: Riverside Heavy Site 2025 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 2025 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 May 14, 2025, 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 following observations were made during the site walkover:

- Site drainage was positive across the Site. See Photo 1.
- The landfill cover was observed to be vegetated with mostly grass cover across the Site, with minor exposed soils along the mountain biking trails. See Photo 5 to Photo 7, and Photo 11 to Photo 13.
- Litter was observed in the vicinity of the MW-01 as scrap metal, and near MW-03 as a rubber tire. No surface exposure of buried waste was observed. See Photo 2 and Photo 8.
- All groundwater and soil vapour monitoring wells were found to be in good condition; this includes MW-01 to MW-03 and VW-01. See Photo 3, Photo 4, Photo 9, and Photo 10.
- The slough was also observed to be present at the south of the Site. See Photo 13.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Tetra Tech conducted a site walkover on May 14, 2025. The site drainage, cover, and monitoring wells were found to be in good condition overall.

Tetra Tech recommends the following:

- Continue to evaluate the vegetation coverage where exposed soils were observed such as near the biking trails to confirm conditions do not worsen and result in erosion or waste exposure.
- An annual site walkover should continue to be undertaken to confirm the condition of the site drainage, landfill cover, and monitoring wells. The site walkover should be conducted when there is no snow covering the ground surface.

4.0 LIMITATIONS OF REPORT

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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.

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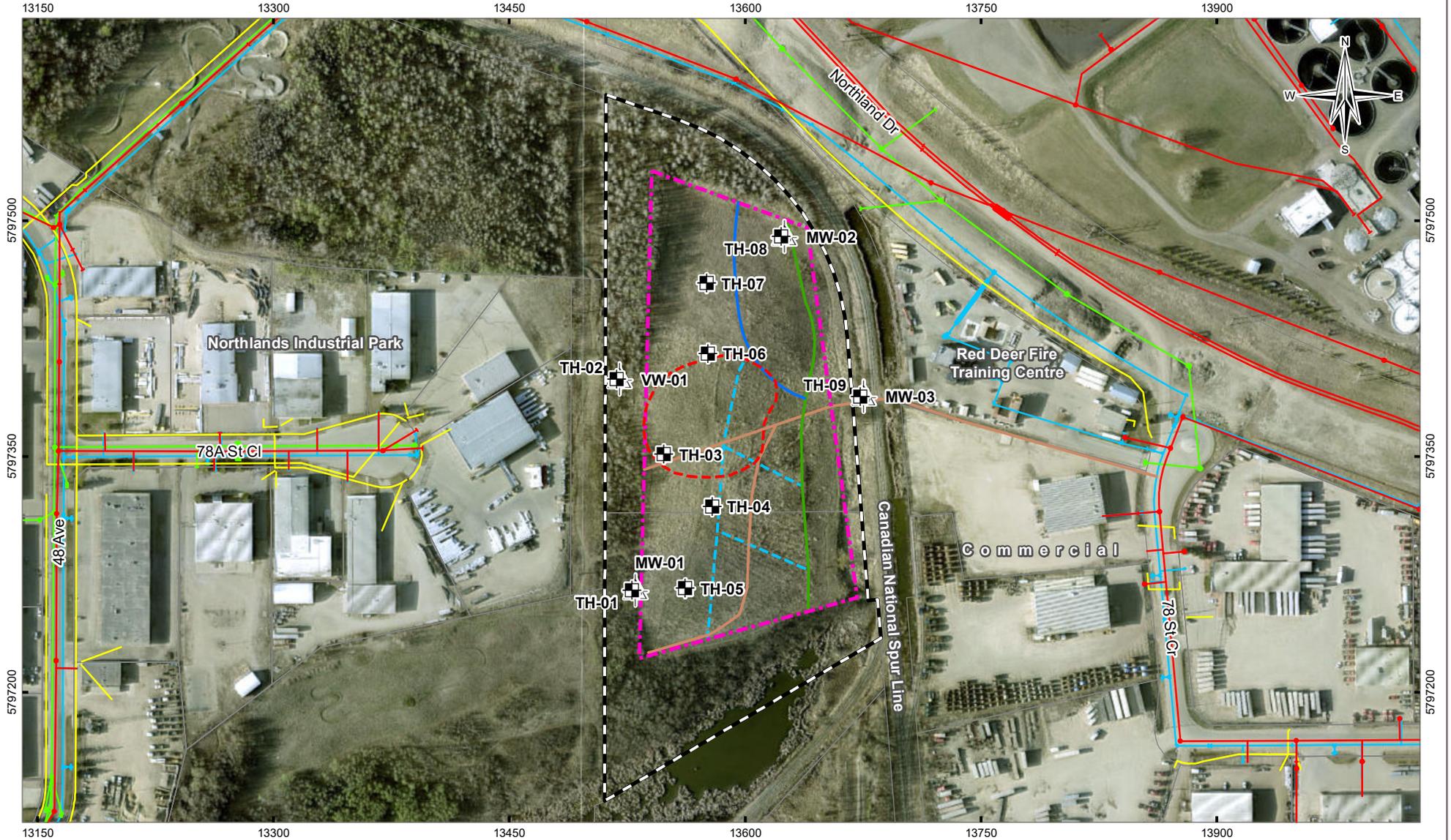
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<p align="center">PERMIT TO PRACTICE TETRA TECH CANADA INC.</p> <p>RM SIGNATURE: _____</p> <p>RM APEGA ID #: _____</p> <p>DATE: _____</p> <p>PERMIT NUMBER: P013774 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)</p>
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Attachments (3):
Figure 1: Site Plan and Surrounding Land Use
Site Photographs
Tetra Tech's Limitations on the Use of this Document



LEGEND

- Test Hole
- Monitoring Well
- Vapour Well
- Site Boundary
- Historic Waste Disposal (Provided by Tiamat, 2014)
- Municipal Sanitary Waste Area (Provided by Tiamat, 2014)
- Lot Boundary
- Former Access
- Future Drain
- Inspected Drain
- Toe of Slope
- Utilities**
- Electrical
- Sanitary
- Storm
- Water

NOTES
 Base data source: Imagery provided by ESRI; City of Red Deer (2024) Roads from City of Red Deer Open Data, 2018
 Utilities provided by City of Red Deer. Locations have not been field verified and should not be used for construction or other intrusive field activities.
 Drain locations from preliminary field sketch from AGRA, August 30, 2000.

STATUS
 ISSUED FOR USE



PROJECTION 3TM 114	DATUM NAD83
FILE NO. SWOP04071-04_Figure01_LandUse.mxd	
CLIENT 	

**CORD AB 2025 ACTIVITIES
 PRE-1972 LANDFILL SITES
 002-RIVERSIDE HEAVY DRY WASTE SITE**

**Site Plan and
 Surrounding Land Use**

OFFICE TL-VANC	DWN BB	CKD SL	APVD CW	REV 0
DATE July 10, 2025	PROJECT NO. SWM.SWOP04071-04.002			

Figure 1



Photo 1: Dry conditions upslope and at base of slope looking northeast from MW-02



Photo 2: Scrap metal near MW-01, looking southwest



Photo 3: MW-01 in good condition



Photo 4: MW-02 in good condition



Photo 5: Grass cover



Photo 6: Mountain bike trail with minor erosion, northwest corner of site



Photo 7: Mountain bike trail, looking north from north side of site



Photo 8: Rubber tire at surface near MW-03



Photo 9: MW-03 in good condition



Photo 10: VW-01 in good condition



Photo 11: Mountain bike trail looking southeast from MW-02



Photo 12: Mountain bike trail, looking south from MW-03



Photo 13: Mountain bike trail, looking south, with view of slough

LIMITATIONS ON USE OF THIS DOCUMENT

GEOENVIRONMENTAL

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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.

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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.

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