



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.SWOP04071-04.003

Subject: McKenzie Trails 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 McKenzie Trails Recreation Area Site (McKenzie Trails; also referred to as 'the Site'). The Site is located within the NE and SE Sections of 28-038-27 W4M, Red Deer, Alberta (Figure 1).

The objectives of the site walkover were to verify site drainage, make observations of the integrity of the 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 *2024 Groundwater Monitoring Report; McKenzie Trails Recreation Area; NE and SE Portions of Section 28-038-27 W4M* prepared by Tetra Tech and dated June 2025.

On May 15, 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 walkover.

- Site drainage was positive across the Site, noting that there is a constructed pond south of the site. See Photo 2, Photo 7, and Photo 12.
- The landfill cover was observed to be vegetated with mostly grass cover across the Site, excluding paved roadways and walkways. Minor exposed soils were noted near the rotunda, southern bathroom, and northside of the pond. See Photo 1 to Photo 3, Photo 7, Photo 9, and Photo 12.
- No surface exposure of buried waste was observed. See Photo 12.
- All groundwater and soil vapour monitoring wells were found to be in good condition; this includes MW-01 to MW-03, MW-05, MW-203, and VW-01. See Photo 4 to Photo 6, Photo 8, and Photo 10.
- The above-ground polyvinyl chloride (PVC) casing of MW-04 is damaged and had been temporarily repaired using duct tape. MW-04 is still periodically sampled for volatile organic compounds (VOCs), and the well will require proper repair prior to the next sampling event to remove the potential for cross-contamination from either the damage or the temporary repair. See Photo 5.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Tetra Tech conducted a site walkover on May 15, 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 pond 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.
- Repair the PVC casing at MW-04.

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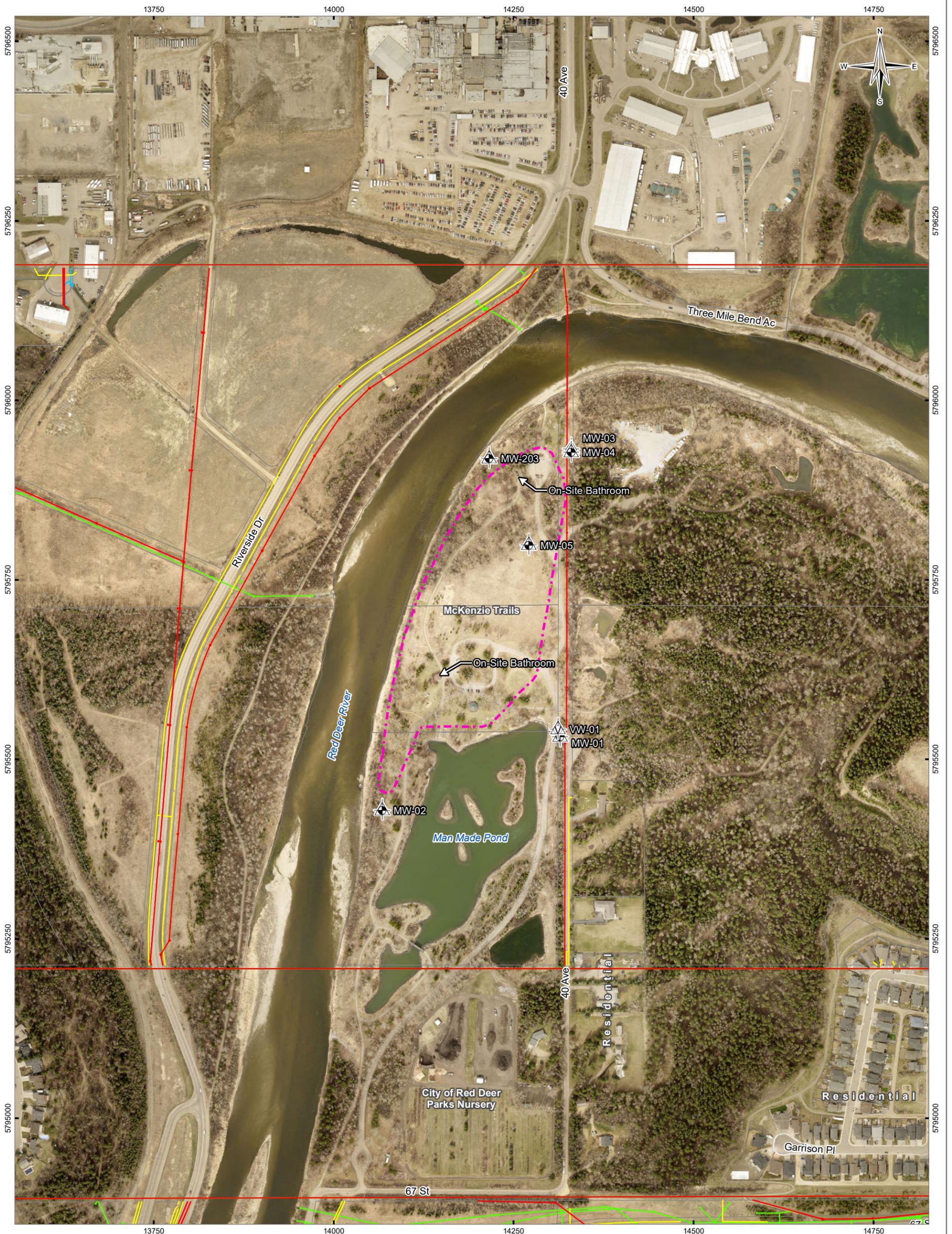
Prepared by:
Colleen Wendeborn, M.Sc., P.Geol.
Senior Hydrogeologist
Solid Waste Management Practice
Direct Line: 403.723.1605
Colleen.Wendeborn@tetrattech.com

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

<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

- Monitoring Well
- Vapour Well
- Historic Waste Disposal (Provided by Tiamat, 2014)
- Lot Boundary
- Utilities**
- Electrical
- Sanitary
- Storm
- Water

NOTES
 Base data source: Imagery provided by City of Red Deer (2022)
 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.

**2025 GROUNDWATER MONITORING REPORT
 MCKENZIE TRAILS RECREATION AREA**

**Site Plan and
 Surrounding Land Use**

PROJECTION 3TM 114	DATUM NAD83	CLIENT
Scale: 1:5,000 100 50 0 100 Metres		
FILE NO. SWOP04071-04_Fig02_LandUse.mxd		
OFFICE TI-EDM	DWN DS	CKD MRB
APVD RM	REV 0	
DATE February 27, 2025	PROJECT NO. SWM.SWOP04071-04.003	

Figure 1



Photo 1: Exposed soils near southern onsite bathroom



Photo 2: Exposed soils near northern pond



Photo 3: Exposed soils near rotunda



Photo 4: MW-02



Photo 5: MW-03 and MW-04



Photo 6: MW-05



Photo 7: Exposed soils near MW-02



Photo 8: MW-01 and VW-01



Photo 9: Western site area vegetation and pavement



Photo 10: MW-203



Photo 11: Red Deer River north of MW-203



Photo 12: Central waste area, south of MW-05, facing south

LIMITATIONS ON USE OF THIS DOCUMENT

GEOENVIRONMENTAL

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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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