

Bajwa, Mehak

From: Chris Visser <chris.visser@wasteconnections.com>
Sent: November 4, 2024 9:32 AM
To: Bajwa, Mehak
Cc: Laurel Hoffarth; Barry Blue; Mackin, Amna; Alves, Alexandre; Dey, Asit; Derek Dreger (WSP) ; Cowan, Amanda; Angela Fidler-Kliewer (Trek); Payment, Brandie; Scurrah, Fiona
Subject: Prairie Green IWMF: Search Facility Pad Construction Mob 2 Part B CQA Results
Attachments: 2024-11-04 TREK Interim CQA LTR - Mob 2 Part B.pdf; 2024-11-04 Titan HDPE Panel Placement Log (1).pdf; 2024-11-04 Titan HDPE Panel Placement Log (2).pdf; 2024-10-31 Titan Certificate of Completion.pdf

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ATTENTION: ce courriel provient d'un expéditeur externe. Ne cliquez sur aucun lien et n'ouvrez pas de pièce jointe, excepté si vous connaissez l'expéditeur.

Good morning Mehak,

Please find attached the test results and construction quality assurance certification for the Mob 2 - Part B of the Search Facility Pad construction at the Prairie Green Landfill.

If you should have any questions, please do not hesitate to contact us.

Regards,

Chris Visser, P.Eng.
Canadian Region Engineering Manager

C: 647-539-5923 | F: 905-532-7576

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November 4, 2024

Our File No. 1000-043-27

Derek Dreger, P.Eng., PMP, FEC
WSP Canada Inc.
1600 Buffalo Place,
Winnipeg, MB
R3T 6B8

**RE: CQA Summary Letter for
IWMF Search Facility Pad Construction – Mob 2/Part B**

This letter summarizes the Quality Assurance (QA) inspections and testing services associated with CQA Geosynthetic installing of the Search Facility Pad – Mob 2/Part B. The area constructed is the final portion of about 1.4 Ha of a total of 2.7 HA of the pad and comprises the remainder of the West and East perimeter berms, South area of Mob 1 and the South Pond. The IWMF Search Facility Pad Construction Geosynthetic installation is complete.

Deployment of the HDPE liner over the sand layer and clay subgrade consisted of panels P30 to P100, respectively. The arrangement and designation of the various panels for the HDPE liner are presented on Drawing 1 attached.

The seams were welded using a double hot wedge fusion welder. Some seams required repairs based on field test results and the reconstructed seams were made using a hand-held extrusion welding apparatus. Fusion and extrusion seams were subjected to non-destructive and destructive testing. All non-destructive testing completed on both fusion and extrusion seaming comply with project specifications. Destructive test samples of panel fusion welded seams were taken at an average of approximately one for every 209 m of fusion seam length.

A total of 13 fusion destructive tests (DSF designation) and one extrusion test (DSX designation) were conducted of the HDPE liner. Two fusion destructive tests failed, and the failed tests were traced along the fusion seam activity log to obtain one passing destructive before and after the failed destructive. The failed sections of seam were subsequently extrusion welded and non-destructively tested with the vacuum box. All extrusion destructive and non-destructive tests completed comply with project specifications.



The information and findings of this report were based on the tests, measurements, and observations made by TREK during construction and are only applicable to those elements. Based on the results of the field monitoring, observations, inspections and testing, the IWMF Search Facility Pad – Mob 1 was constructed in accordance with the project specifications and to current accepted industry standards.

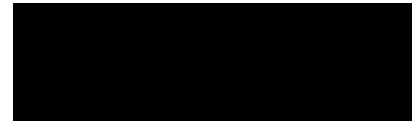
Sincerely,

TREK Geotechnical Inc.

Per:

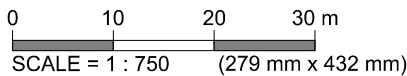
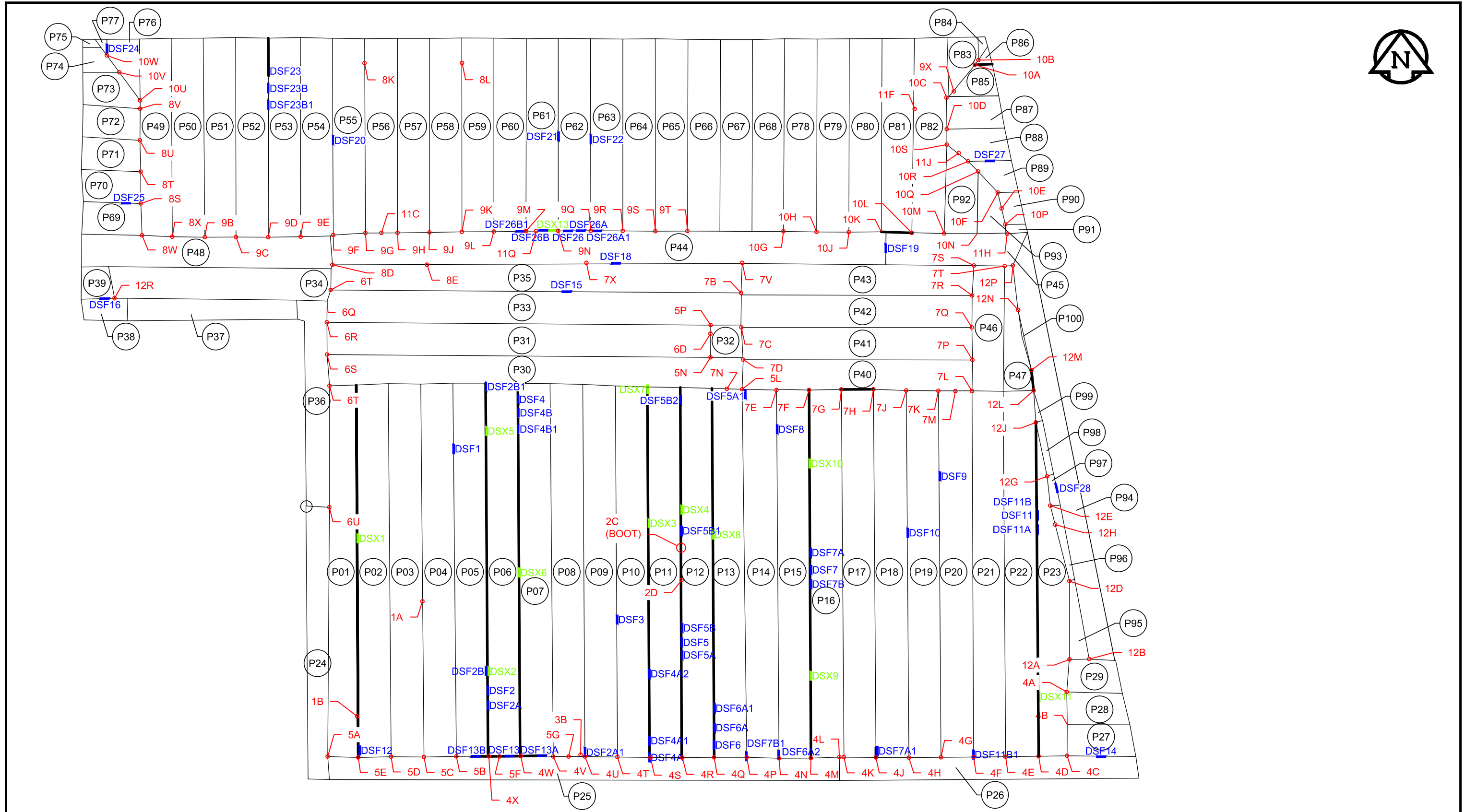


Angela Fidler-Kliewer, C.Tech.
Manager of Lab and Field Services



Nelson John Ferreira, Ph.D., P. Eng.
Geotechnical Engineer, Principal

Z:\Projects\1000 Soils Lab\1000 Lab Projects\1000-043 WSP\1000-043-27 Prairie Green Landfill Search Facility Pad Construction\CAD\Fig 01 2024-10-31 PGL Search Facility Pad Construction\CAD\Fig 01 2024-10-31 PGL Search Facility Pad Construction.dwg, 2024-11-04 8:56:38 AM



- 4C UNIQUE DEFECT IDENTIFICATION NUMBER
- DSF12 6U FUSION DESTRUCTIVE LOCATION AND DESIGNATION
- DSX1 EXTRUSION DESTRUCTIVE DESIGNATION
- FUSION SEAM
- EXTRUSION SEAM RECONSTRUCTION
- P01 PANEL DESIGNATION NUMBER

- NOTES:**
1. PANEL LOCATIONS ARE BASED ON SURVEY COMPLETED BY TREK GEOTECHNICAL.
 2. THE DRAWING IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING LETTER.

Figure 01
Geomembrane Panel Layout
MOB 2 - Part B



CERTIFICATE OF COMPLETION

PROJECT: _____ LOCATION: _____
PROJECT #: _____ CONTRACTOR: _____
OWNER: _____ QA/QC: _____
ENGINEER: _____ DATE: _____

This document certifies that on _____, the project superintendant, _____, for TITAN ENVIRONMENTAL CONTAINMENT has inspected the surface of the Liner and has found that it meets the installation of the geomembrane and geosynthetics as per engineer specifications.

Area Being Accepted: _____

TITAN REPRESENTATIVE

GENERAL CONTRACTOR, OWNER REPRESENTATIVE

DATE

DATE

