From: Byers, Harris <Harris.Byers@stantec.com>
Sent: Thursday, October 5, 2023 10:33 AM

**To:** Adam Tegen; Beggs, Tauren R - DNR; Knapke.Eric@epa.gov

Subject: Construction Documentation Report of an Interim Vegetated Engineered

**Barrier** 

Attachments: Construction Documentation Report of an Interim Vegetated Engineered

Barrier.pdf

#### Team:

Attached is a brief letter report summarizing the recent remedial work in Lot 3 of the River Point District. This remediation work was completed using funds provided under a fiscal year (FY) 2022 United States Environmental Protection Agency Brownfield Cleanup Grant awarded to the City under Cooperative Agreement Number BF00E03197 following the approach outlined in the Stantec (2021) Analysis of Brownfield Cleanup Alternatives.

As summarized in the attached, the work increased the integrity of the previous engineered barrier by importing clean soil and finishing the area in turf grass. Proposed soil management activities and specific sitewide engineered barrier construction and maintenance details will be discussed in greater detail in a combined Remedial Action Plan / Materials Management Plan to be prepared under separate cover once a developer has been identified. Furthermore, upon finalization of redevelopment plans for the Property, a post-closure modification for the sitewide engineered barrier will be submitted to the WDNR.

Tauren – a copy of this letter will be sent through the portal for archiving on BRRTS.

#### Sincerely.

#### Harris Byers, Ph.D.

Sr. Brownfields Project Manager Contaminant Hydrogeologist / Urban Geochemist

Direct: 414 581-6476 Harris.Byers@stantec.com

Stantec 12080 Corporate Parkway Suite 200 Mequon WI 53092-2649



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September 29, 2023 File: 193709261

Attention: Adam Tegen City of Manitowoc, Wisconsin 900 Quay Street Manitowoc, WI 54220-4543

Dear Mr. Tegen,

Reference: Construction Documentation Report of an Interim Vegetated Engineered Barrier

Lot 3 of the River Point District

Manitowoc, Wisconsin

BRRTS ID: 02-36-585491 (Open ERP), 02-36-176478 (Closed ERP), 07-36-583000 (LGU

**Exemption/General Property)** 

**ACRES ID: Pending** 

This report summarizes the construction of a temporary vegetated barrier in Lot 3 of the River Point District (herein referred to as the "Property") between 2021 and 2023 to prevent direct contact with subsurface impacts identified by Stantec Consulting Services Inc. (Stantec) (2023b) until a developer is identified. The locations of Lot 3 (outlined in green) and the River Point District (outlined in yellow) relative to regional topography are illustrated on Figure 1. The certified survey map of Lot 3 is adapted on Figure 2. Proposed conceptual non-industrial reuses at the Property and nearby areas are illustrated on Figure 3. This remediation work was completed using funds provided under a fiscal year (FY) 2022 United States Environmental Protection Agency Brownfield Cleanup Grant awarded to the City under Cooperative Agreement Number BF00E03197 following the approach outlined in the Stantec (2021) Analysis of Brownfield Cleanup Alternatives.

#### Importing Clean Fill - 2021

As noted previously by Stantec (2022), portions of Lot 3 were filled in 2021 using pre-characterized material to create safe slopes for the new rights of way constructed along the eastern (extension of North 11th Street) and southwestern (future River Point Drive) Property boundaries. Figure 4 is adapted from Stantec (2022) and illustrates the extent and thickness of the fill placed at the Property in 2021 as part of Phase 1 of the River Point Development.

### Importing Clean Fill - 2023

Following the Stantec (2023c) plan, approximately 6,900 cubic yards of pre-characterized (Stantec, 2023a) fill was imported from the residential redevelopment at 333 Reed Avenue to bring the Property to grade. The imported fill was seeded with turf grass. The turf grass is being watered as necessary to establish an appropriate vegetative cover until future non-industrial redevelopment begins.

A figure illustrating the total thickness of fill placed on the Property between 2021 and 2023 is provided on Figure 5. Elevation contour lines of the current ground surface (thin black lines) and initial ground surface (dashed grey lines) is provided on Figure 6. The perimeter of the former railroad turntable foundation is illustrated as thick dashed black lines on Figure 5 and Figure 6. Cross-sections of the Property illustrating the

September 29, 2023 Mr. Adam Tegen Page 2 of 2

Reference:

Construction Documentation Report of an Interim Vegetated Engineered Barrier; Lot 3 of the River Point District; Manitowoc, Wisconsin

ground surface in 2018 (thin grey line), the 2021 fill (dashed black line) and fill placed in 2023 (thick black line) to bring the Property to grade are provided on Figure 7.

#### **Future Work**

Proposed soil management activities and specific sitewide engineered barrier construction and maintenance details will be discussed in greater detail in a combined Remedial Action Plan / Materials Management Plan to be prepared under separate cover once a developer has been identified. Furthermore, upon finalization of redevelopment plans for the Property, a post-closure modification for the sitewide engineered barrier will be submitted to the WDNR.

Stantec recommends submitting this report to WDNR for agency records.

Regards,

STANTEC CONSULTING SERVICES INC.

STANTEC CONSULTING SERVICES INC

Harris L. Byers, Ph.D. Sr. Brownfields Project Manager

airs I layers

Harris.Byers@Stantec.com

Phone: 414-581-6476

Stu Gross, P.G. QA/QC Manager

Stu.Gross@stantec.com

#### **ENCLOSURES**

**Figures** 

#### LIMITATIONS

The conclusions in this report (Report) are Stantec's professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk. Stantec has assumed all information received from the City of Manitowoc and third parties in the preparation of the Report to be correct. While Stantec has exercised a customary level of judgment or due diligence in the use of such information, Stantec assumes no responsibility for the consequences of any error or omission contained therein. This Report is intended solely for use by the City of Manitowoc in accordance with Stantec's contract with the City of Manitowoc. While the Report may be provided to applicable authorities having jurisdiction and others for whom the City of Manitowoc is responsible, Stantec does not warrant the services to any third party. The report may not be relied upon by any other party without the express written consent of Stantec, which may be withheld at Stantec's discretion.

#### **REFERENCES**

Stantec, 2021, Analysis of Brownfield Cleanup Alternatives, October 29, 2021

Stantec, 2022, Site-Specific Sampling and Analysis Plan, Phase II ESA for Lot 3 of the River Point District, March 7, 2022.

Stantec, 2023a, Characterization of Soil at 333 Reed Avenue, Manitowoc, Wisconsin, May 19, 2023.

Stantec, 2023b, Phase II ESA, Lot 3, River Point District, Manitowoc, Wisconsin, July 18, 2023.

Stantec, 2023c, Construction of Interim Vegetated Engineered Barrier, July 19, 2023.

# **FIGURES**

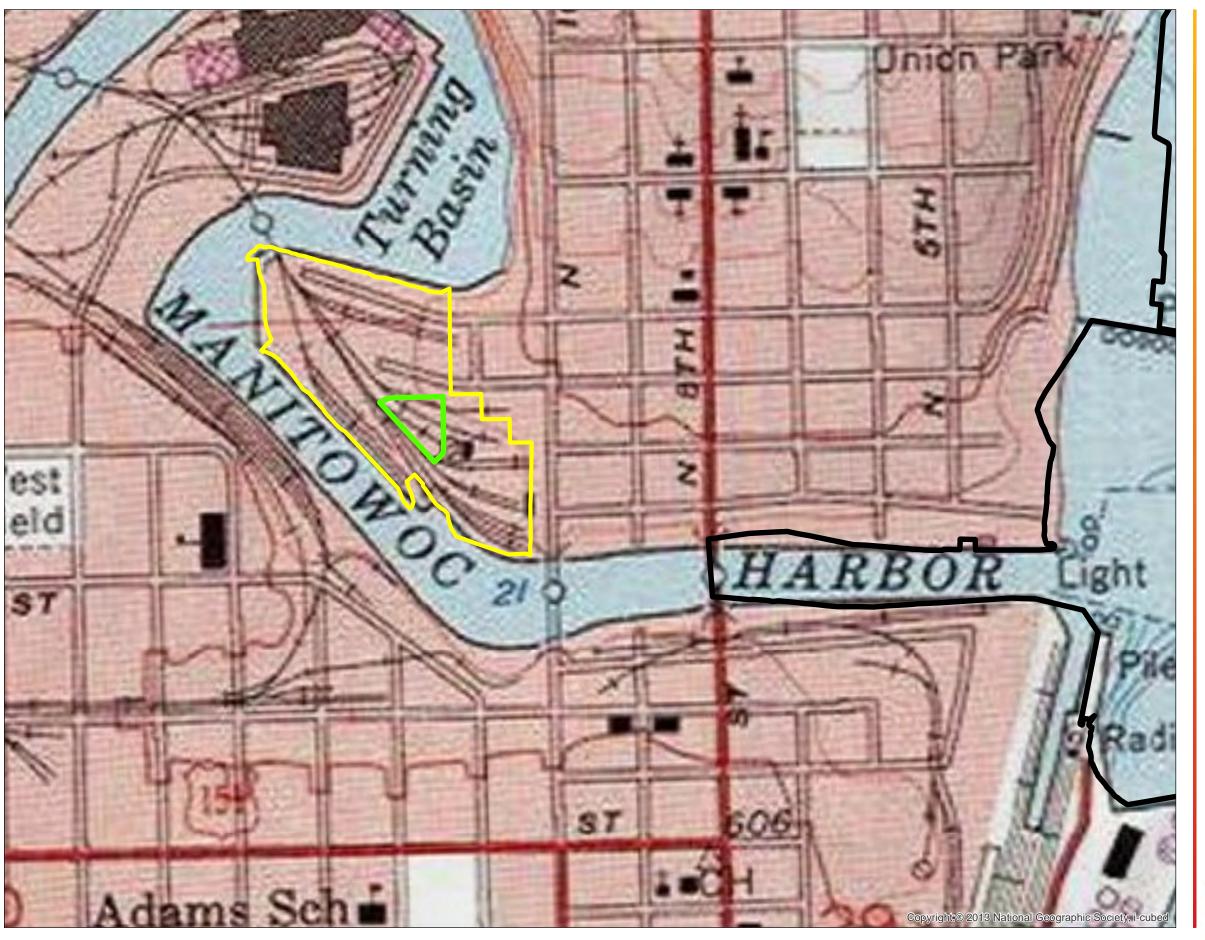


Figure No.

1
Title

Location of Lot 3 and
Regional Topography

Client/Project
Lot 3
River Point District
City of Manitowoc

0 265 530
Frepared by HLB on 1/27/2022
Feet

Legend

Lot 3
City of Manitowoc

River Point District

lotes

 Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet

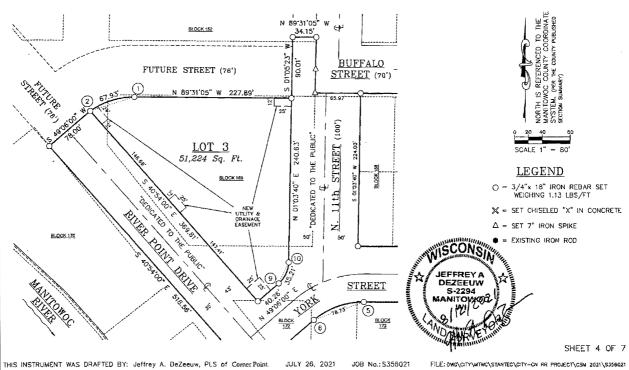


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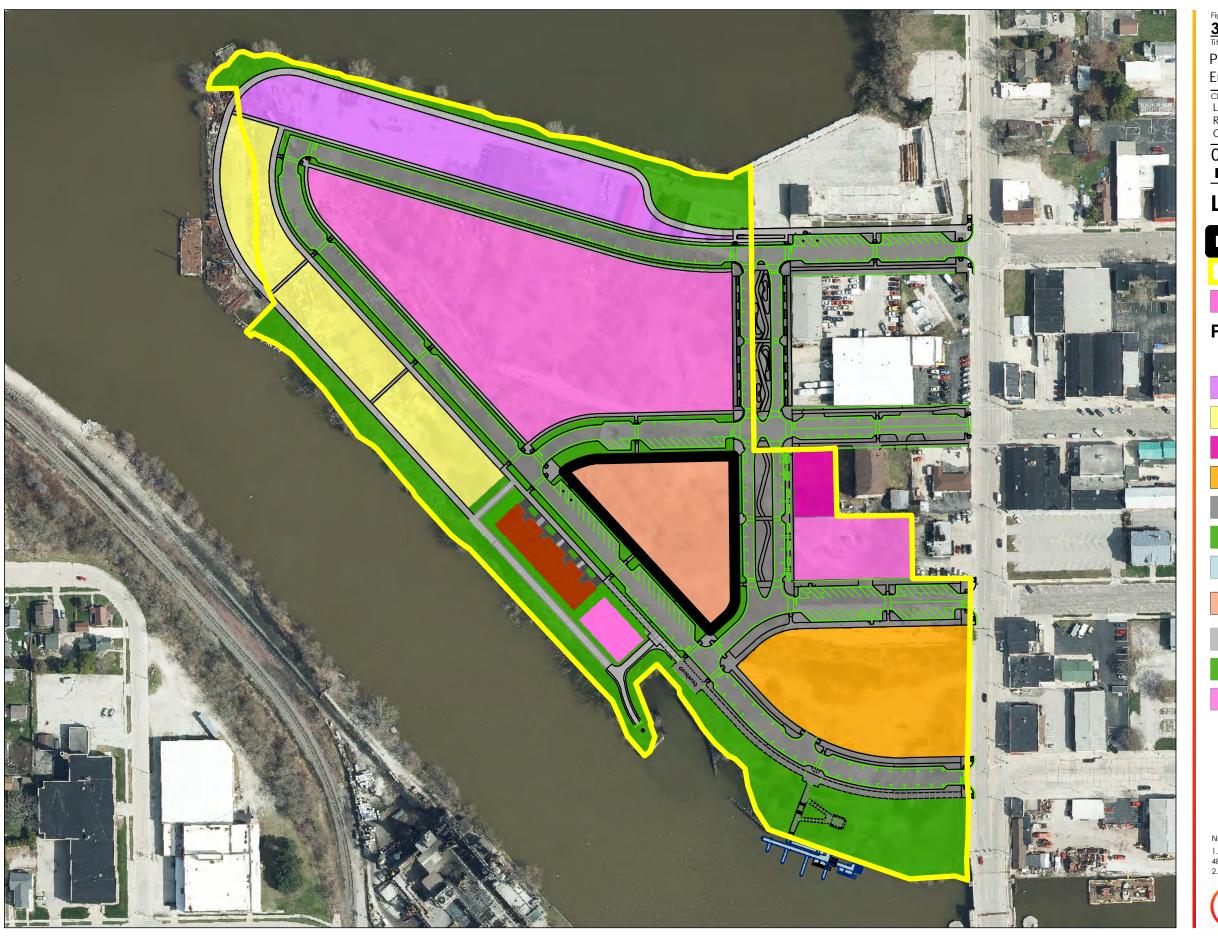
CERTIFIED SURVEY MAP DOC; 1240183 VC 35 P6 210

LOCATED IN BLOCKS 168, 169, 170, 172, AND 173 OF THE ORIGINAL PLAT OF THE CITY OF MANITOWOC AND

ADJACENT VACATED STREETS, BEING PART OF GOVERNMENT LOT 3 OF SECTION 30, TOWN 19 NORTH, RANGE 24 EAST, CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN



Corner Point



Proposed Reuse and Proposed Engineered Barriers/Caps

Client/Project Lot 3 River Point District City of Manitowoc

250 Prepared by HLB on 4/15/2021 125

□ Feet

Legend

River Point District

Future Commercial (2024-2025)

## **Proposed Redevelopments**

Town Homes (2025-2026)

Town Homes (2024-2025)

Commercial (Finished)

Multi-Family (Finishing 2022)

Roadway (2021-2024)

Landscaping (2023-2025)

Floating Dock and Pier (2023)

Multi-Family Residential (2023-2024)

Sidewalk (2024-2025)

River Walk / Park (2023-2024)

Proposed Commercial (2025-2026)

- 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet 2. Orthophotograph: Manitowoc County, 2017



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Project Area and Fill Placed in 2021 50 ⊐ Feet Turntable Lot 3 2021 Fill Thickness (Feet) -0.5 to 0.0 -2.0 to -0.5 0.0 to 0.5 0.5 to 1.2 1.2 to 2.2 2.2 to 3.0



