From: Beggs, Tauren R - DNR

Sent: Wednesday, September 16, 2020 9:59 AM

To: Adam Tegen

Cc: 'Harris.Byers@stantec.com'; Jones, Kristin; Rodriguez, Gabriel M.; Jeanne

Tarvin; Kathleen McDaniel (kmcdaniel@manitowoc.org); Chronert, Roxanne

N - DNR (Roxanne.Chronert@wisconsin.gov)

Subject: RE: Site Investigation Review Letter - Additional Investigation Needed for

Mirro Plt 9 (Former) - LGU, BRRTS # 02-36-545108

Attachments: 20200916\_140\_SIR\_Not\_Appr.pdf

Hi Adam,

The PDF of the letter has been compressed, since it indicated that the previous email did not send due to the file size of the figure attachments being too large. If you would like a paper copy of the letter, please let me know as I will have to coordinate with staff that are able to access the DNR building to mail one.

Thanks,

#### We are committed to service excellence.

Visit our survey at <a href="http://dnr.wi.gov/customersurvey">http://dnr.wi.gov/customersurvey</a> to evaluate how I did.

# Tauren R. Beggs Phone: (920) 510-3472

Tauren.Beggs@wisconsin.gov (preferred contact method during work at home)

From: Beggs, Tauren R - DNR

**Sent:** Wednesday, September 16, 2020 9:25 AM **To:** Adam Tegen <a href="mailtowoc.org">ategen@manitowoc.org</a>

**Cc:** 'Harris.Byers@stantec.com' < <u>Harris.Byers@stantec.com</u>>; Jones, Kristin

< <a href="mailto:kristin.Jones@newellco.com">"> Rodriguez, Gabriel M. <a href="mailto:kristin.Jones@newellco.com">"> Jeanne Tarvin</a>

<jtarvin@ramboll.com>; Kathleen McDaniel (kmcdaniel@manitowoc.org)

<kmcdaniel@manitowoc.org>; Chronert, Roxanne N - DNR (Roxanne.Chronert@wisconsin.gov)

<<u>Roxanne.Chronert@wisconsin.gov</u>>

**Subject:** Site Investigation Review Letter - Additional Investigation Needed for Mirro Plt 9 (Former) - LGU, BRRTS # 02-36-545108

Hi Adam,

Attached is the letter response for the request for review of the status of the site investigation received on July 16, 2020 for the above referenced site. If you have any questions, please feel free to contact me.

Regards,

#### We are committed to service excellence.

Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

# Tauren R. Beggs

Hydrogeologist & Northeast Region Land Recycling Expert Remediation and Redevelopment Program Wisconsin Department of Natural Resources 2984 Shawano Ave Green Bay, WI 54313

Phone: (920) 510-3472

<u>Tauren.Beggs@wisconsin.gov</u> (preferred contact method during work at home)

dnr.wi.gov

State of Wisconsin DEPARTMENT OF NATURAL RESOURCES 2984 Shawano Avenue Green Bay WI 54313-6727

Tony Evers, Governor Preston D. Cole, Secretary

Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



September 16, 2020

Adam Tegen Community Development Director Community Development Authority of the City of Manitowoc 900 Quay Street Manitowoc, WI 54220

SUBJECT: Review of the Site Investigation – Additional Investigation Needed

Mirro Plt 9 (Former) – LGU, 1512 Washington Street, Manitowoc, WI

BRRTS #: 02-36-545108, FID #: 436033730

Dear Mr. Tegen:

On July 16, 2020, the Wisconsin Department of Natural Resources (DNR) received your request for review of the current status of the site investigation with a fee for DNR review and response. Prior to the request for review of the current status of the site investigation, Stantec Consulting Services Inc. (Stantec), on behalf of the Community Development Authority of the City of Manitowoc (CDA) submitted the *Phase II Environmental Site Assessment*, dated March 19, 2020 and a supplemental report titled *Further Characterization of Light Non-Aqueous Phase Liquid in MW-12*, dated June 16, 2020 (Reports). The Reports were received by the DNR on March 23, 2020 and June 16, 2020, respectively. The Reports were reviewed for compliance with Wis. Admin. Code ch. NR 716.

### **Review**

The DNR reviewed the Reports and all available historical site investigation documentation in the case file and determined that additional work is needed to meet the requirements of Wis. Admin. Code ch. NR 716 to complete the site investigation. The degree and extent of contamination identified at the site has not been adequately characterized and documented.

### **Background**

The site has been used historically for heavy industrial operations and aluminum cookware manufacturing by the Mirro company. The CDA previously acquired the site and has the local government unit (LGU) environmental liability exemption. The Mirro buildings have all been demolished on-site. Investigation of the site has been ongoing for years and volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), metals, and perfluoroalkyl and polyfluoroalkyl substances (PFAS) have been detected in soil and/or groundwater. Newell Brands, Inc. is a responsible party (RP) for the contamination at the site.

# **Completion of the Site Investigation**

After reviewing the Reports and all available historical site investigation documentation in the case file submitted to date, the DNR has determined that additional work is necessary to complete the site investigation. The degree and extent of contamination currently identified at the site has not been adequately defined and documented with



September 16, 2020 Page 2 of 6

Adam Tegen, City of Manitowoc CDA Review of the Site Investigation – Additional Investigation Needed Mirro Plt 9 (Former) – LGU, BRRTS #: 02-36-545108

respect to Wis. Admin. Code ch. NR 716. The findings and interpretations by the DNR regarding the incomplete site investigation are summarized below:

### A. Scoping the Site Investigation

It is the responsibility of a RP to evaluate hazardous substance discharges and environmental pollution, including emerging contaminants, under the Wis. Admin. Code NR 700 rule series. Per Wis. Admin. Code § NR 716.07 and Wis. Admin. Code § NR 716.09, site investigation scoping and work plans should include an evaluation of all potential or known contaminants in all affected or potentially affected environmental media.

# B. Degree and Extent of Contamination in All Affected Media

Degree and extent of contamination is not defined. Additional on-site and off-site investigation is needed for the contamination found. Wis. Admin. Code § NR 716.11 outlines the requirements for the field investigation. Additional evaluation and/or investigation is needed as described below for the following environmental media:

### 1. Soil

- For all contaminants found in soil on-site, there are data gap areas with no samples collected on the south, east, and north sides of the site. The remaining (grid-type pattern) sample locations proposed in Stantec's *Site-Specific Sampling and Analysis Plan for a Chapter NR 716 WAC Site Investigation* received by the DNR on March 7, 2019, that were not completed yet would likely fill in these data gap areas on-site (see attached Figure 14, Proposed Sampling in Possible Source Areas, dated May 22, 2018). Sampling off-site is also needed. Contaminants have been detected either near the property boundary or off-site already. Based on the known data, the DNR highly recommends collecting soil samples around the perimeter of the property to evaluate what contaminants are migrating off-site. Contaminants in soil have already been detected above soil standards at and/or across the property boundary. Significant soil contamination has been detected at and/or across the western property boundary. Refer to the attached Figure 6, Soil Sample Locations and Soil Quality, dated February 2, 2020 and Figure 4a, Historic Soil Impacts and Previous Sampling Locations, dated July 8, 2020, for site investigation sampling locations.
- PCBs: High concentrations of PCBs have been detected in Area 8 and the Loading Dock areas. Additional characterization in these areas and other areas on the property is needed:
  - Additional horizontal and vertical delineation needed in Area 8 and Loading Dock and further characterization in the tunnel network areas.
  - o The horizontal extent is not defined outside of Area 8 and the Loading Dock, SB-10/SB-82 area, and SB-99 area, so further sampling is needed.
  - Off-site sampling to the west of SB-48 area and other areas with exceedances adjacent to the property boundary.
- VOCs: trichlorinated benzenes (component of Pyranol dielectric fluid), naphthalene, and trichloroethene (TCE) were the primary VOCs found:
  - o Further sampling in SB-3 and GP-5 area to investigate high concentrations of TCE.
  - Vertical extent needs to be defined in the areas with the higher concentrations of trichlorinated benzenes, naphthalene, and TCE.

September 16, 2020 Page 3 of 6

Adam Tegen, City of Manitowoc CDA Review of the Site Investigation – Additional Investigation Needed Mirro Plt 9 (Former) – LGU, BRRTS #: 02-36-545108

- o The horizontal extent is not defined outside of Area 8, outside of the Loading Dock and area to the north of the Loading dock, and the SB-10/SB-82 area, so further sampling is needed.
- o Further sampling in the off-site GP-2 location is needed.
- Sampling off-site is needed adjacent to the SB-15, SB-16, SB-121, and SB-5 areas on the west side of the property.
- PAHs: PAHs appear to be associated with point source discharges and impacted soil fill:
  - Samples collected as part of the rest of the investigation should also be sampled for PAHs to fill in data gaps for soil fill impacts across the property.
  - o Need to better define degree and extent around the SB-4, SB-10, and SB-82 area.
  - Likely don't need to sample for PAHs in soil off-site but will be determined through further sampling on-site.
    - Off-site location AMEC-MW-16A historically had PAHs in soil. Need to sample in this area to determine if PAHs are still a concern in this area.

#### Metals:

- o Samples collected as part of the rest of the investigation should also be sampled for metals to fill in data gaps for soil fill impacts across the property.
- o Sampling analysis should include sampling of other metals to determine if metals besides the Resource Conservation and Recovery Act (RCRA) 8 detected historically in 2010 (such as antimony, copper, aluminum, nickel, manganese, thallium) are a concern.
- PFAS: PFAS has not been evaluated in soil, so soil needs to be sampled and analyzed for PFAS in all
  potential source areas. DNR highly recommends the Wisconsin 36 analyte PFAS list be used for
  analysis. For more details on laboratory certification for PFAS, refer to the following link:
   <a href="https://dnr.wisconsin.gov/topic/labCert/PFAS.html">https://dnr.wisconsin.gov/topic/labCert/PFAS.html</a>.

#### 2. Groundwater

- For all contaminants found in groundwater on-site, there are data gap areas on-site with no samples collected on the south, east, and north sides of the property. The remaining (grid-type pattern) sample locations proposed in Stantec's *Site-Specific Sampling and Analysis Plan for a Chapter NR 716 WAC Site Investigation* received by the DNR on March 7, 2019 that were not completed yet would likely fill in these data gap areas on-site (see attached Figure 14, Proposed Sampling in Possible Source Areas, dated May 22, 2018). Sampling off-site is also needed. Contaminants have been detected either near the property boundary or off-site already. Based on the known data, the DNR highly recommends collecting groundwater samples around the perimeter of the property to evaluate what contaminants are migrating off-site. Some contaminants in groundwater have already been detected above groundwater standards at and/or across the property boundary. Significant groundwater contamination has been detected at and/or across the western property boundary. Refer to the attached Figure 9a, Potentiometric Surface and Summary of Groundwater Impacts, dated February 2, 2020, and Figure 10a, Groundwater Sample Locations and PFOA+PFOS Concentrations, dated February 2, 2020, and Figure 5, Historic Groundwater Impacts and Previous Sampling Locations, dated July 8, 2020 for site investigation sampling locations.
- NAPL under former Building K was found in multiple monitoring points and a sample collected from MW-12. The NAPL had no PCBs and is not likely petroleum based. The NAPL has been

September 16, 2020 Page 4 of 6

Adam Tegen, City of Manitowoc CDA Review of the Site Investigation – Additional Investigation Needed Mirro Plt 9 (Former) – LGU, BRRTS #: 02-36-545108

characterized as a mixture of acetone and polyvinyl fluoride, but also contained high concentrations of PFBA and PFOA. Historically, another NAPL area was found under Building C from a sample from TW-108, which consisted of diesel fuel and/or motor oil but was not confirmed in more recent sampling (see attached Figure 2, Potential Source Areas and Historic Sampling Locations, dated February 2, 2020).

o Further sampling is needed to better define the NAPL areas.

#### PCBs:

o Further sampling needed to define degree and extent around the Loading dock and Area 8, SB/TW-103 and MW-15 area off-site to the west.

#### • VOCs:

- Further sampling needed to define degree and extent around the Loading dock and Area 8, TW-106 area, and TW-108 area.
- o Further sampling is needed in the SB-3 and GP-5 areas to investigate high concentrations of TCF
- O Vertical extent needs to be defined in the areas with higher concentrations of the trichlorinated benzenes, naphthalene, and TCE.
- Further sampling in the off-site GP-2 location is needed.
- o Sampling off-site is needed adjacent to the TW-103, MW-5, MW-15, MW-121 areas on the west side of the property.

#### PAHs:

- o Further sampling is needed off-site to the west of the TW-103, MW-15 area.
- o Further sampling is needed in the TW-110 area.

#### Metals:

- Off-site monitoring wells had exceedances of metals historically. Sampling analysis should include sampling of other metals to determine if metals besides the RCRA 8 detected historically in 2010 (such as aluminum, iron, manganese) are a concern.
- o Further sampling is needed to define degree and extent around TW-106 location.

#### • PFAS:

- o Need to define extent horizontally in all directions and extent vertically.
- o Need to sample the municipal well closest to the site.
- Additional NAPL characterization is needed since there were high PFBA and PFOA concentrations detected.
- o DNR highly recommends the Wisconsin 36 analyte PFAS list be used for analysis.

#### 3. Vapor

- Prioritize the vapor investigation.
- VOCs, on-site:
  - O No buildings are currently on-site; however, the site is planned to be redeveloped. Any occupied buildings/structures constructed on this property needs vapor assessment sampling to determine if vapors are a concern due to VOCs (primarily TCE, naphthalene, and trichlorobenzenes) above standards in soil and/or groundwater across a large portion of the

September 16, 2020 Page 5 of 6

Adam Tegen, City of Manitowoc CDA Review of the Site Investigation – Additional Investigation Needed Mirro Plt 9 (Former) – LGU, BRRTS #: 02-36-545108

site (New buildings should be designed with vapor mitigation systems that could be activated if needed).

- o Any new utilities installed should have plugs to prevent potential vapor migration.
- Assess the tunnel network and any utilities on-site, since these could be conduits for vapor migration.
- VOCs, off-site:
  - O Vapor assessment is needed for the tunnel network.
  - O Vapor assessment is needed inside utilities and in the backfill of utilities.

# 4. Other Media (Surface Water and Sediment)

Evaluate other applicable contaminant migration pathways such as sediment and water inside utilities and Sherman Creek on the northwest side of the property. Depending on the results of groundwater contamination off-site and/or contamination through surface water or utilities, additional surface water or sediment sampling may be needed.

# C. Migration Pathways and Receptors

Site investigation activities must include an evaluation of pathways for contaminant migration and an evaluation of the potential or known impacts to receptors under Wis. Admin. Code ch. NR 716. Receptors and migration pathways were discussed in more detail in the previous Section B. Degree and Extent of Contamination in All Affected Media.

#### **Schedule**

The DNR will work with the City of Manitowoc (exempt LGU) and Newell Brands, Inc. (RP) to complete the site investigation. Any work the City of Manitowoc decides to complete to get the site ready for redevelopment needs to follow the Wis. Admin. Code ch. NR 700 rule series. In consideration of administrative code requirements, the DNR is requiring implementation of the following schedule from the RP:

- Per Wis. Admin. Code § NR 716.09(1), the DNR is requiring the submittal of a supplemental site investigation work plan by October 14, 2020. The work plan must comply with Wis. Admin. Code § NR 716.09(2). A fee will be required with submittals of work plans through the enforcement process with the RP for DNR review and response.
- Per Wis. Admin. Code § NR 716.11(2r), the additional site investigation activities must begin within 60 days of the DNR approval of the work plan.
- Per Wis. Admin. Code § NR 716.14, all sampling results are required to be submitted within 10 days of receiving the laboratory data.
- Per Wis. Admin. Code § NR 716.15(1), a supplemental site investigation report shall be submitted within 60 days after completion of the field investigation. A fee will be required with submittal of a site investigation report through the enforcement process with the RP for DNR review and response.
- NR 700 semi-annual progress reports will be required until the case is closed.

Once the additional work has been completed and documented, the RP's consultant should evaluate whether the site investigation is complete based on the results of the additional work. If a remedial action is warranted, the RP's consultant should submit a remedial actions option report (RAOR) within 60 days after the completion of the field investigation.

September 16, 2020 Page 6 of 6

Adam Tegen, City of Manitowoc CDA Review of the Site Investigation – Additional Investigation Needed Mirro Plt 9 (Former) – LGU, BRRTS #: 02-36-545108

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me, the DNR Project Manager, at 920-510-3472 or at <a href="mailto:Tauren.Beggs@wisconsin.gov">Tauren.Beggs@wisconsin.gov</a>.

Sincerely,

Tauren R. Beggs Hydrogeologist

Tak By

Remediation & Redevelopment Program

#### Attachments:

- Figure 14, Proposed Sampling in Possible Source Areas, dated May 22, 2018
- Figure 6, Soil Sample Locations and Soil Quality, dated February 2, 2020
- Figure 4a, Historic Soil Impacts and Previous Sampling Locations, dated July 8, 2020
- Figure 9a, Potentiometric Surface and Summary of Groundwater Impacts, dated February 2, 2020
- Figure 10a, Groundwater Sample Locations and PFOA+PFOS Concentrations, dated February 2, 2020
- Figure 5, Historic Groundwater Impacts and Previous Sampling Locations, dated July 8, 2020
- Figure 2, Potential Source Areas and Historic Sampling Locations, dated February 2, 2020

cc: Harris Byers, Stantec (<u>Harris.Byers@stantec.com</u>)
Kristin Holloway Jones, Newell Brands, Inc. (<u>Kristin.Jones@newellco.com</u>)
Gabriel Rodriguez, Schiff Hardin LLP (<u>grodriguez@schiffhardin.com</u>)
Jeanne Tarvin, Ramboll (<u>jtarvin@ramboll.com</u>)

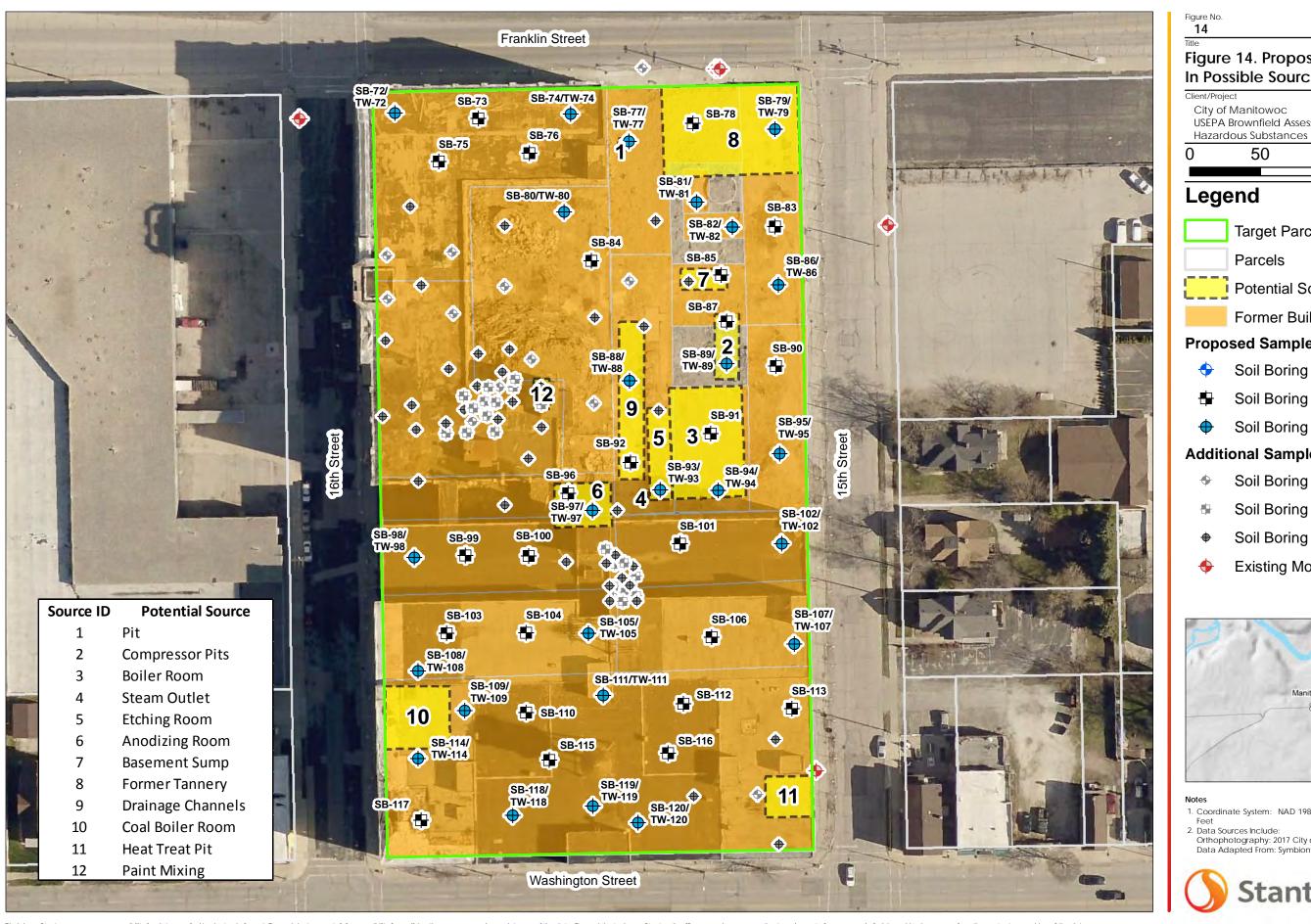


Figure No.

# Figure 14. Proposed Sampling **In Possible Source Areas**

City of Manitowoc **USEPA Brownfield Assessment Grant** 

193703931 Prepared by HLB on 5-22-18 100 ⊐ Feet

# Legend

**Target Parcel** 

**Parcels** 

Potential Source Areas

Former Building Layout

# **Proposed Sample Locations**

- Soil Boring / Monitoring Well
- Soil Boring
- Soil Boring / Temp Well

# **Additional Sample Locations**

- Soil Boring / Monitoring Well
- Soil Boring
- Soil Boring / Temp Well
- **Existing Monitoring Wells**



- 1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803
- 2. Data Sources Include: Orthophotography: 2017 City of Mantiowoc Data Adapted From: Symbiont (2016) and AES (2011)



Page 01 of 01

