

## Neste, David E - DNR

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**From:** Brand, Jeff <Jeff.Brand@stantec.com>  
**Sent:** Wednesday, February 14, 2018 1:41 PM  
**To:** Neste, David E - DNR  
**Cc:** Caine, Lynelle  
**Subject:** Project Status Update, MCABI-Tyco Redevelopment Property; BRRTS# 02-38-564236  
**Attachments:** Table 3a - GW Lab Result.pdf; 2017.10.27 Site Layout with MW Locations.pdf

Stantec is providing a project status update for the MCABI-Tyco Redevelopment Property (BRRTS# 02-38-564236), 1310-1330 Main Street, Marinette, Wisconsin (the Site). This email presents the results of groundwater sampling at the Site to date.

On January 30, 2018 groundwater samples were collected from temporary monitoring well TW2100 and existing Site monitoring well MW1800. Groundwater samples were submitted for laboratory analysis for dissolved arsenic. Laboratory results indicated the presence of arsenic within TW2100 exceeding both the NR 140 preventive action limit (PAL) and enforcement standard (ES). Arsenic was also found to exceed the NR 140 PAL in monitoring well MW1800. Groundwater sampling results are summarized on the attached Table 3a.

Groundwater sampling results indicate that arsenic concentrations within monitoring well MW1800 have decreased to below the ES but still remain above the PAL. In addition, groundwater sample results show that arsenic concentrations exceeding the NR140 ES exist within the Ludington Street right-of-way. However, based on current sampling results of this Site and adjacent historic sites, arsenic contamination in soil and groundwater appears to be widespread within the area and may be attributed to the historic fill/waste materials observed and not simply from a source originating from the MCABI /WMCOE property. In addition, groundwater contaminant concentrations have exhibited decreasing trends in both monitoring wells sampled. Therefore, Stantec does not believe that a further downgradient monitoring well is needed beyond TW2100 or that additional groundwater investigation is warranted. Stantec recommends that the Site be readied for closure.

Since this site is a VPLE site, please let us know if you agree with our recommendations to conclude that the groundwater investigation is complete and that no additional monitoring wells are needed at the Site. Specifically, we do not believe that additional monitoring wells are needed beyond the MCABI property lines to chase the arsenic contamination identified in groundwater that appear to be a wide spread issue and not related to this site.

Please contact myself or Lynelle if you would have any questions. Thanks.

### Jeff Brand

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**Table 3a Groundwater Sample RCRA Metals Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin**

Well Number	Date Collected	Laboratory Results in micrograms per liter (µg/l)							
		RCRA Metals							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
NR 140 Preventive Action Limit (µg/l)		1	400	0.5	10	1.5	0.2	10	10
NR 140 Enforcement Standard (µg/l)		10	2000	5	100	15	2	50	50
TW100	07/09/15	<b>1.1</b>	59.5	<0.26	<1.0	<1.5	<0.050	<12	<2.0
TW300	07/09/15	<0.50	32.1	<0.26	<1.0	<1.5	<0.050	<12	2.2 J
TW600	07/10/15	<b>4.5</b>	165	<0.26	<1.0	<1.5	<0.050	<12	<2.0
DUP (TW600)	07/10/15	<b>5.2</b>	170	<0.26	<1.0	<1.5	<0.050	<12	3.8 J
TW800	07/10/15	<b>65.2</b>	71.8	<0.26	<1.0	<1.5	<0.050	<12	<2.0
TW1100	07/10/15	<b>9.7</b>	140	<0.26	2.4 J	<1.5	<0.050	<b>26.7 J</b>	<2.0
MW1600	10/14/15	<0.44	---	---	---	---	---	---	---
MW1700	10/14/15	<b>1.0</b>	---	---	---	0.15 J	---	---	---
	08/04/16	0.74J	---	---	---	---	---	---	---
MW1800	10/14/15	<b>24</b>	---	---	---	---	---	---	---
	08/04/16	<b>5.5</b>	---	---	---	---	---	---	---
	10/06/16	<b>38</b>	---	---	---	---	---	---	---
	04/13/17	<b>38.9</b>	---	---	---	---	---	---	---
	06/30/17	<b>48.3</b>	---	---	---	---	---	---	---
	10/27/17	<b>6.5</b>	---	---	---	---	---	---	---
MW1900	10/14/15	<b>7.0</b>	---	---	---	---	---	<0.83	---
	08/04/16	<b>4.0</b>	---	---	---	---	---	---	---
TW2100	10/27/17	<b>66</b>	---	---	---	---	---	---	---
	01/30/18	<b>25</b>	---	---	---	---	---	---	---






Notes:

- RCRA = Resource Conservation and Recovery Act
- <X = analyte not detected above method detection limit
- "J" = analyte detected between limit of detection and limit of quantitation
- X = concentration detected above Chapter NR 140, Wisconsin Administrative Code(NR 140, Wis. Adm. Code) preventive action limit (PAL)
- X** = concentration detected above NR 140, Wis. Adm. Code enforcement standard (ES)
- NE = not established
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**LEGEND**

-  APPROXIMATE PROPERTY LINE
-  MW1800 MONITORING WELL LOCATION
-  TW2100 TEMPORARY WELL LOCATION
-  MW1500 ABANDONED MONITORING WELL LOCATION
-  TW100 ABANDONED TEMPORARY MONITORING WELL LOCATION



SCALE IN FEET



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**SITE LAYOUT WITH MONITORING WELL LOCATIONS**

MCABI - MARINETTE COUNTY ASSOCIATION FOR BUSINESS & INDUSTRY, INC.  
 MARITIME CENTER OF EXCELLENCE  
 MARINETTE, WISCONSIN