



January 28, 2014

Kathleen McDaniel, Assistant City Attorney  
 City of Manitowoc  
 900 Quay Street  
 Manitowoc, WI 54220

BRRTS # 02-36-000268

SUBJECT: Second Additional Requirements Letter  
 City of Manitowoc - Town of Newton Gravel Pit  
 3130 Hecker Road, Manitowoc, WI

Dear Ms. McDaniel:

This letter is a compilation of agreed upon requirements discussed in a recent conference call on January 23, 2014. Since early November 2013, the Wisconsin Department of Natural Resources (the "Department") and the Wisconsin Division of Health Services (DHS) has had weekly or semi-monthly conference calls to keep each other informed about the ongoing potable well sampling effort being conducted and funded by the City of Manitowoc. We appreciate the City of Manitowoc taking a lead on addressing the Volatile Organic Compound (VOC) contamination in several private drinking water wells in the vicinity of Hecker Road, Silver Creek Road, and CTH CR.

The private well sampling is part of an ongoing investigation at the City's Town of Newton Gravel Pit that began in the 1990s. VOCs, metals, petroleum, and PCB contamination has been detected in groundwater and soil on the City's property. As the property owner, the City of Manitowoc is considered a *responsible party* of a known source site. There could be other responsible parties, who in addition to the City, caused the contamination. The property owner shares responsibility jointly and severally with persons who caused the discharge. The Department may choose to find additional responsible parties and we are currently evaluating our options in that regard.

**Summary schedule** (more details can be found on the following pages)

Due Date	Deliverable
Jan 30	City/AECOM to submit Work Plan for additional & confirmation potable well sampling to the north and east of CTH CR to define the plume in potable wells (Henderson/Heinen). Include map showing circled "area of interest," and municipal service area in/near area of interest, timeline for Yindra well replacement.
Jan 30	Department to respond to City's January 22, 2014 delay capping request
Feb 1	City to provide DNR, Local health, and DHS with a mock-up of web site
Feb 7	Department to send mailer to open house attendees, legislative contacts, other interested parties
Feb 7	Potable well additional and confirmation sampling completed
Feb 7	City and Department to update talking points
Feb 15	City Newton Gravel Pit Website to go "live"
Feb 19	City/AECOM/Department Data Gaps meeting
Feb 21	City/AECOM to submit Long Term Sampling Plan
Mar 24	City/AECOM to submit 2013 Annual Groundwater Monitoring Report
Mar 24	City/AECOM to submit Site Investigation Work Plan

The following list of items represents agreed upon requirements for continuing with potable well sampling, impacted well replacement, deliverables, and site investigation.

1. Open Records Request

- The Department requests a copy of the 1996 City of Manitowoc and contributor agreement and any other supplemental information surrounding the agreement.  
(Note: City has provided a PDF copy of a May 24, 1996 letter regarding an *Agreement with Waste Generators*)

2. Comments from Dec 7, 2013 open house attendees and others, Data Gaps

- A meeting has been scheduled on February 19, 9 AM, at Manitowoc City Hall
- Attendees: McDaniel, Henderson, Beggs, Heinen, Weissbach, Stroess
- Purpose: discuss background/historical data gaps

3. Potable Wells

- City to contract for bottled water to be supplied to 3504 CTH CR (Note: City has assumed existing bottled water contract at location).
- Liz Heinen will issue health advisory letters to owners of three recently sampled potable wells above health advisory level.
- City to provide to Department a map showing circled area of concern, due January 30, 2014
- City to provide a map showing city limits with municipal water service in area of interest east and south east of Newton Gravel Pit (note: City sent via email January 23, 2014, a list of private potable wells licensed for use within city limits).
- City to submit Work Plan for additional potable well sampling and confirmation potable well sampling to the north and east of CTH CR to define the plume in potable wells. This sampling to be completed by February 7, 2014.
- City to submit Long-Term Sampling Plan for all potable wells, due February 21, 2014.

4. Comprehensive Potable Well Report

- Submittal date to be determined but likely after next round of potable well sampling.
- Liz Heinen will forward to City and AECOM the Endries & Mendenhall potable well sample results (note: Heinen emailed Endries letter and lab results January 23, 2014).
- Liz Heinen to contact Joe Mancheski to determine status of 3 potable wells on his property.

5. Replacement Wells

- City to submit timeline for Yindra well replacement. Well to be constructed as soon as possible when weather permits.
- City to submit timeline and commitment for construction of replacement wells for all potable wells with confirmed NR 140 ES exceedances. This may be 6 potable wells or more depending on confirmation sampling and any additional sampling.

6. Western Source Area Interim Action

- The city has prepped (tree cutting, vegetation removal) the western source area for a planned remedial action to be implemented in 2014. The City requested in a January 22, 2014 letter to the Department to delay the capping and instead use funds budgeted for capping to pay for the

unexpected costs associated with potable well sampling and replacement. The Department will respond to this request by January 30, 2014 and recommend a temporary plastic or other impermeable cover to prevent any new precipitation infiltration into the newly exposed surface of the western source area.

- EPA-Removals Program not willing to conduct an action in the Western Source Area because it would be more akin to a remedial action which is not the focus of the EPA-Removals Program.
7. 2013 Annual Groundwater Monitoring Report to be submitted on March 24, 2014
  8. Site Investigation Work Plan to be submitted March 24, 2014
    - Technical data gaps (product of February 19 meeting)
    - Define degree and extent of soil and groundwater contamination on and off-property.
    - Sampling to identify potential other source areas on City gravel pit property.
    - Interim actions (cap/cover or other).
  9. Magnetometer Study
    - Carolyn Streiff, WI Geological and Natural History Survey (WGNHS) to submit report to Department by February 5, 2014.
  10. Yindra Vapor Intrusion Study
    - Report has been provided to Department and DHS.
    - Liz Evans (DHS) will review and write summary.
    - Beggs discussed results with Terry Evanson (Department Vapor Intrusion expert) and Evanson concurs with AECOM conclusions.
  11. Outreach
    - City and Department to update talking points, due February 7, 2014.
    - City to provide Department, County Health Department, and DHS with a mock-up of Newton Gravel Pit web site, due February 14, 2014.
    - Department to send mailer to residents in area of concern, open house attendees, other interested parties, legislative contacts, etc., due February 7, 2014.
    - City Newton Gravel Pit Web site "live" for public access, due February 15, 2014.
  12. Department Project Manager Change
    - Beggs is taking lead as Department Project Manager
    - Weissbach assisting next 3 months to prepare Pre-Cerclis Documents (SIF, PCS, abbreviated PA)
  13. EPA involvement – Site Assessment Program\*  
([http://www.epa.gov/superfund/programs/npl\\_hrs/siteasmt.htm](http://www.epa.gov/superfund/programs/npl_hrs/siteasmt.htm))  
Department will conduct a preliminary Assessment/Site Inspection with funding from EPA (CERLCIS). The City can contact Pat Hamblin 312-886-6312 for more information on this program. Department assumes City would conduct sampling at potential new source areas on City's property, Department to conduct SI on other properties and/or Right of Ways. May include (needs EPA concurrence):
    - Sample additional potable wells (not yet sampled in current City program), would use EPA's Contract Lab Program for this analyses.
    - Groundwater pathways screening with one-time sampling from direct push probes.
    - Sample surface water at Silver Creek.

14. EPA Involvement – Emergency Response and Removal Actions:

<http://dnr.wi.gov/files/pdf/pubs/rr/rr746.pdf>

EPA willing to conduct assessment of potable water wells, provide long term alternate water supply (e.g., individual replacement wells, community shared well, municipal system. connection, etc.). City can contact Mike Ribordy 312-886-4592 for more information. Likely actions include:

- EPA sends City a “103(e) letter” for request for information. EPA could send similar letters to other causers/contributors.
- EPA conducts Potentially Responsible Party search, more of a long term effort.
- EPA seeks cost recovery, could be “in-kind” from RP(s)/PRP(s).

The Department thanks the City of Manitowoc for all the work it has done to date to sample wells and provide safe drinking water to affected homes and businesses. We look forward to continued cooperation from you. Please feel free to contact me if you have any questions in regard to this letter. I can be reached at 920-662-5178.

Sincerely,



Tauren R. Beggs, Hydrogeologist  
Northeast Region Remediation and Redevelopment Program

Cc: Dave Henderson – AECOM  
James Blaha – Manitowoc County Health Department  
Liz Evans – DHS  
Liz Heinen – DNR  
Annette Weissbach – DNR  
Roxanne N. Chronert – DNR

*\*The Superfund site assessment process is used to evaluate potential or confirmed releases of hazardous substances that may pose a threat to human health or the environment. The process is guided by criteria established under the Hazard Ranking System (HRS). Following notification of a potential site, a series of assessments are carried out until a final decision is reached regarding the need for remedial cleanup attention.*