



**TETRA TECH**

March 22, 2013

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Mr. Warren Rospad, B.Sc.  
District Supervisor / Environment Officer  
Contaminated Sites / Petroleum Storage Programs  
Manitoba Conservation & Water Stewardship  
Ste. 160-123 Main Street  
Winnipeg, MB R3C 1A5

Dear Mr. Rospad

**Subject Remedial Action Plan Addendum for the Parking Lot Sink Hole at the Former Sutherland Avenue Manufactured Gas Plant Site**

Tetra Tech WEI Inc. (Tetra Tech) has been retained by Manitoba Hydro to oversee the execution of the remedial action plan (RAP) for the parking lot sink hole at 35 Sutherland Ave, Winnipeg, Manitoba. The RAP was completed by AECOM in December 2011 and approval of the RAP was provided by Manitoba Conservation in a letter dated July 19, 2012 (File: 20861). This letter has been completed on behalf of Manitoba Hydro and is meant to serve as an addendum to the above referenced RAP and to summarize our proposed deviations from the December 2011 RAP which are summarized in the following sections.

#### **GENERAL DESCRIPTION OF PROPOSED SITE REMEDIATION ACTIVITIES**

On behalf of Manitoba Hydro, Tetra Tech will monitor the site remediation activities, which will comprise the following general activities:

- Excavation and off-site disposal of approximately 50 m<sup>3</sup> (in situ volume) of primarily petroleum hydrocarbon (PHC) and polycyclic aromatic hydrocarbons (PAHs) impacted soil within the site property boundaries, located in the parking lot sink hole area. Originally, it was proposed that all of the excavated soil would be transported to the Clean Harbors facility near Sarnia, Ontario for treatment via thermal desorption, or disposal via incineration. We are recommending a two stage approach for managing the excavated impacted material which does not include disposal at the Clean Harbors facility:
- The visibly most heavily impacted soil and visible coal tar material (as determined on the site during excavation activities) will be transported directly for disposal (via incineration) at the Phase Separation Solutions Inc. facility located in Wolseley, Saskatchewan. Phase Separation has indicated they can accept the waste given worst

Tetra Tech

400-161 Portage Avenue East, Winnipeg, Manitoba R3B 0Y4, Canada  
Tel 204.954.6800 Fax 204.988.0546 www.tetrattech.com

case analytical results provided in AECOM's 2011 RAP. The excavated material will be directly loaded into plastic lined and covered transport vehicles and will not be stockpiled on the site, thereby minimizing worker and public exposure to potential airborne contaminants.

- The remaining excavated impacted soil without visible coal tar material (as determined on the site during excavation activities) will be transported to the MidCanada Environmental Services Ltd. facility in Ile Des Chenes, Manitoba, for temporary storage within the lined treatment facility (segregated separately from other soils at MidCanada). The material will be directly loaded into plastic lined and covered transport vehicles and will not be stockpiled on the site, thereby minimizing worker and public exposure to potential airborne contaminants. A composite waste characterization sample will be collected from each load and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), PHC fractions F1 to F4, PAHs, flashpoint, TCLP BTEX, and TCLP metals. Following receipt of analytical results the fate of the temporarily stored soil will be determined. If the soil is not suitable for treatment and /or disposal at MidCanada it will be transported and disposed at the Phase Separation facility.
- All other RAP items summarized in Manitoba Hydro's July 2012 letter will be completed as described, including sampling (both soil excavation and ambient air quality) and site restoration.

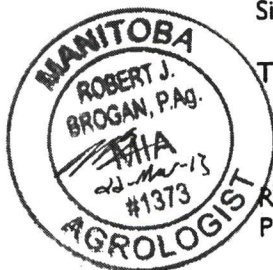
## REPORTING

Following the completion of the site activities, Tetra Tech will prepare a report for Manitoba Hydro summarizing the site activities, including the soil and air sample analytical data. It is our understanding that Manitoba Hydro will provide a copy of this report to Manitoba Conservation.

Please call Rob Brogan at (204) 954-6827 if you have any questions or comments regarding this proposed amendment to the approved remedial action plan.

Sincerely

TETRA TECH WEI INC.



Rob Brogan, M.Sc., P.Ag.  
Project Manager

RB/

Approved by

TETRA TECH WEI INC.

Andrew Eason, P.Eng.  
Senior Environmental Engineer

## **LIMITATIONS**

The scope of this report is limited to the matters expressly covered and is intended solely for the client to whom it is addressed. Tetra Tech WEI Inc. makes no warranties, expressed or implied, including without limitation, as to the marketability of the site, or fitness for a particular use. The assessment was conducted using standard engineering and scientific judgment, principles and practices, within a practical scope and budget. It is partially based on the observations of the assessor during the site visit, in conjunction with archival information obtained from a number of sources, which are assumed to be correct. Except as provided, Tetra Tech WEI Inc. has made no independent investigations to verify the accuracy or completeness of the information obtained from secondary sources or personal interviews. Generally, the findings, conclusions, and recommendations are based on a limited amount of data (e.g., the number of sample points, and the number of samples submitted for laboratory analyses) interpolated between sampling points, and the actual conditions (e.g., the type, level, and extent of impacted media) on the property may vary from that described above. Any findings regarding site conditions different from those described above upon which this report is based will consequently change Tetra Tech WEI Inc. conclusions and recommendations.

## **DISCLAIMER**

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