



**Stantec Consulting Services Inc.**  
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May 7, 2015  
File: 190500817

**Attention: Javier Perez-Maldonado, P.E.**  
NYS Department of Environmental Conservation  
Division of Environmental Remediation  
Remedial Bureau B, Section B  
625 Broadway, 12th Floor  
Albany NY 12233-7016

Dear Javier,

**Reference: Supplemental RIWP No. 2**  
**Astoria Steel BCP Site# C241155**  
**3-15 26<sup>th</sup> Avenue**  
**Astoria, Queens County, New York**

On behalf of Astoria Owners LLC, Stantec Consulting Services Inc. (Stantec) has prepared this Supplemental RIWP for the Astoria Steel Site (the Site). The additional investigation activities that are proposed include further delineation of PCB impacts based on unanticipated results from sampling investigation derived waste (IDW) drums. This document is intended to serve as a supplement to the Remedial Investigation Work Plan (RIWP) and the first Supplemental RIWP that were previously approved by the Department.

#### **DATA SUMMARY AND ANALYSIS**

On March 26, 2015 and April 10, 2015, drums containing IDW from previous RI activities as well as waste drums left behind by prior tenants, were sampled in preparation for off-Site disposal.

On March 26, 2015, soil samples from drums 16, 21A, 26, and 29, which were expected to have low levels of PCB impacts (<1 mg/kg), were composited and analyzed for total PCBs. The composite sample was found to have a PCB concentration of 20.7 mg/kg. Results from sampling other drums did not identify other concerns.

On April 10, 2015, the four drums were sampled individually and analyzed for total PCBs. The results of this sampling event showed drum 21A contained 19.2 mg/kg while the other three ranged from non-detect to 0.5 mg/kg.

Drum #21A contains soil cuttings from the installations of MW-138, MW-158, MW-160 and MW-163. Note that trace PCBs have been previously reported in groundwater at MW-138 and this is the only location at this Site with reported PCBs in groundwater.



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## **PROPOSED SUPPLEMENTAL INVESTIGATION**

Based on our review of existing analytical and field data, we propose further investigation as follows:

### ***PCB Investigation***

A new soil boring will be drilled adjacent to each of the four boring locations that produced drill cuttings placed in Drum #21A: MW-138, MW-158, MW-160, and MW-163. PCB samples will be collected vertically at each boring at two-foot intervals to the depth of apparent native material, which is expected to be encountered between 10 and 15 feet below ground surface (bgs). The results of this investigation will be shared with the Department.

If any of the proposed borings are reported to contain samples with elevated PCB levels (>1 mg/kg), further delineation and investigation of PCB impacts will be conducted following the USEPA Toxic Substance Control Act (TSCA) regulations set forth in 40 CFR 761.61. This will involve marking out a grid, centered on the boring, with 10-foot spacing. Borings will be drilled at each point of the grid and samples will be collected vertically from each boring at two-foot intervals to the depth of apparent native material. Initially, the first two rings of potential boring locations will be drilled and the soil samples will be sent to an analytical laboratory for expedited analysis. If total PCB concentrations are found to exceed 1 mg/kg, then adjacent borings in additional rings will be drilled and sampled for further horizontal and vertical delineation.

The investigation will be limited to the Site and is not proposed to extend off-Site. Should further delineation be required to the east of B/MW-158 or B/MW-160, the investigation will wait until demolition of the buildings is complete since the structural stability cannot be confirmed for either building and the roof of Building 1 has already partially collapsed.

### ***Near Surface Soil Sampling***

Now that the IRM activities have been largely completed and the soil piles and debris have been removed from the site, it is now apparent that the perimeter of the site contains soil and gravel surfaces. Given this observation and the recent PCB results, in conjunction with the above investigation it is proposed to conduct a shallow soil sampling for PCBs where there appears to be some surface soil and/or fill around the perimeter of the site. Specifically, it is proposed to collect samples from 0-2 feet bgs at 100-foot intervals for PCBs along that portion of 3<sup>rd</sup> Street right of way that is part of the site, the northern boundary of the site and a portion of the eastern boundary (see Figure 1).



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### ***Bulk Concrete and Wipe Sampling***

Additionally it is proposed to collect bulk concrete or wipe samples for PCB analysis in areas that appear to have surficial staining. These areas include the area surrounding the floor drain in building 1, the staining observed in the former 24/7 electric space, and staining in former Eagle One drum/container storage areas. The sampling of the floor in the former 24/7 electric space will have to be completed following the pending building demolition due to the collapsed roof.

All proposed investigation activities will be overseen by Stantec personnel and performed in accordance with the Quality Assurance Project Plan (QAPP), Community Air Monitoring Program (CAMP), and Health and Safety Plan (HASP), as specified in the RIWP. Analytical reports will be prepared in accordance with the NYSDEC Analytical Services Protocol (ASP) Category B requirements.

### **SCHEDULE**

Clearing of boring locations is scheduled for May 12-13, 2015 and the initial drilling and sampling activities are scheduled for May 15, 2015. Sampling activities will be completed on May 20-22, 2015 and if PCBs are reported in the initial borings, further delineation is scheduled to take place at that time.



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## CLOSING

We look forward to the Department's review and approval of this Supplemental RIWP as soon as your schedule permits. Thank you in advance for your assistance with this request.

Regards,

### STANTEC CONSULTING SERVICES INC.

Handwritten signature of Michael P. Storonsky in black ink.

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### Attachments

Figure 1 – Proposed Boring Locations

- c. J. Steinberg - Albin (NYSDEC)
- R. Ockerby (NYSDOH)
- K. Anders (NYSDOH)
- M. Chudaitov
- M. McMenamain
- L. Shaw



### Legend

- Proposed Soil Boring Location
- Proposed Shallow Soil Boring Location
- Approximate Proposed Concrete Sample Location
- Approximate Proposed Wipe Sample Location
- Approximate Area of Potential 10' x 10' Sample Grid
- Approximate Surface Soil Area
- 2014 RI Well Location
- 2014 RI Test Pit Location
- 2014 RI Soil Boring Location
- 2014 RI Surface Soil Sample Location
- 2014 RI Pipe Investigation Sample Location
- 2014 RI Pipe Investigation Excavation
- 2013 Phase II Soil Boring and Temporary Monitoring Well Location
- 2013 Phase II Soil Boring Location
- 2006 Phase II Geoprobe Soil Boring and Temporary Monitoring Well Location
- 2006 Phase II Soil Boring Location
- Manhole
- Approximate Floor Drain Location
- Approximate Brownfield Cleanup Agreement Limit (BCA)
- Bunker
- Trench Drain with 1.3' Diameter Sump

### Notes

1. Coordinate System: NAD 1983 State Plane New York Long Island FIPS 3104 Feet.
2. Aerial Imagery : Pictometry International : Neighborhood Ortho Dated 02-27-2012.
3. Key Map - ArcGIS ESRI : StreetMap USA.
4. Proposed locations are approximate and may vary based on field conditions
5. B - Boring  
 GP = Geoprobe Boring  
 MH = Manhole  
 MW = Monitoring Well  
 TW = Temporary Well  
 TP = Test Pit  
 SB = Soil Boring  
 SS = Surface Soil  
 UST = Underground Storage Tank



Project Location: 3-15 26th Avenue, Astoria, Queens County, New York  
 Prepared by: KP on 2015-05-05  
 1st Technical Review by: SRS on 2015-05-05  
 2nd Technical Review by: PN on 2015-05-06  
 190500817

Client/Project: Remedial Investigation, Astoria Steel Site, Brownfield Cleanup Program Site #C241155, 3-15 26th Avenue, Astoria, Queens County, New York

Figure No. 1 Date: 5/6/2015  
 Title

## Proposed Investigation Locations