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August 28, 2017

Sondra Martinkat New York State Department of Environmental Conservation Division of Environmental Remediation Hunters Point Plaza 47-40 21<sup>st</sup> Street Long Island City, NY 11101 sondra.martinkat@dec.ny.gov

### Re: Supplemental Remedial Investigation Work Plan ABC Block 27 Long Island City, NY BCP Site No.: C241175 Langan Project No.: 170340204

Dear Ms. Martinkat:

Langan Engineering, Environmental, Survey and Landscape Architecture, D.P.C (Langan) presents this supplemental remedial investigation (RI) work plan on behalf of Design Center Realty Sub, LLC for the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C241175. The site is located at 5-46 46th Avenue in Long Island City, New York and is identified as New York City Tax Block 27, Lots 2, 4, 5, 15, 17, 23, 25, and 37. As requested by the NYSDEC in our meeting on July 6, 2017, the supplemental remedial investigation will be conducted to fill data gaps identified by the NYSDEC and the New York State Department of Health (NYSDOH) and to supplement the findings of Langan's RI, which was conducted from September to December 2016. The supplemental RI will consist of additional soil and groundwater sampling at the northern, central and eastern parts of the site and additional off-site sub-slab vapor and indoor air sampling in residential building on Lot 3 (pending access).

The supplemental RI will be completed in accordance with the procedures set forth in Langan's Remedial Investigation Work Plan (RIWP), prepared for the site and dated August 25, 2016. The supplemental RI will include the following:

- Completion of three additional soil borings (LB60, LB61, and LB62);
- Installation of five well couplets, consisting of two permanent 2-inch groundwater monitoring wells (screened above and below the meadow mat) to evaluate groundwater impacts at existing borings (including SB09, SB16, LB42, and LB44) and new soil boring LB60.
- Installation of five well couplets, consisting of two permanent 2-inch groundwater monitoring wells (screened above the meadow mat and immediately above top of

bedrock) to evaluate groundwater impacts at existing borings (including SB20, LB43, and LB46) and new soil borings LB61 and LB62.

- Installation of one sub-slab vapor point (SSV12) and indoor air sampling location (IA12) in the cellar of the residential building on Lot 3 (pending access);
- Collection of soil and groundwater samples from new borings and monitoring wells and collection of co-located sub-slab vapor and indoor air samples and an outdoor ambient air sample and analysis for analytical parameters stated in the RIWP;
- Collection of groundwater samples from previously installed monitoring wells (MW26S, MW26D, MW29S, and MW29D) and analysis for fourteen individual per- and polyfluoroalkyl substances (PFAS) (see Table 1) and 1,4-dioxane; and
- Implementation of a Community Air Monitoring Program (CAMP) during field intrusive activities.

The proposed soil boring, groundwater monitoring well, and sub-slab vapor sampling locations are illustrated on Figure 1. As a contingency, if field observations warrant it, additional borings, monitoring wells, and vapor points may be completed and the NYSDEC would be notified accordingly.

## Reporting

Langan will revise the draft remedial investigation report (May 30, 2017) to include sampling methodology, observations, boring logs, sampling logs, analytical results, and conclusions for the supplemental RI.

If you have any questions, please call me at 212-479-5441.

Sincerely,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Mimi S. Raygorodetsky Senior Associate/Vice President

- cc: T. Pfohl, M. Quigley, P. Kirby (Plaxall)M. Chertok, E. Knauer (SPR)J. Hayes, M. Burke, G. Wyka, J. Leung (Langan)
- Enclosures: Table 1 PFAS Compound Analyte List for Groundwater Samples Figure 1 – Proposed Supplemental RI Sample Location Plan



TABLES

# Table 1 PFAS Compound Analyte List for Groundwater Samples

#### ABC - Block 27 BCP Site No. C241175 Long Island City, NY Langan Project No.: 170340204

Compound Name	Analytical Method
Perfluorohexanoic acid (PFHxA)	USEPA Method 537
Perfluoroheptanoic acid (PFHpA)	
Perfluorooctanoic acid (PFOA)	
Perfluorononanoic acid (PFNA)	
Perfluorodecanoic acid (PFDA)	
Perfluoroundecanoic acid (PFUnA)	
Perfluorododecanoic acid (PFDoA)	
Perfluorotridecanoic acid (PFTriA)	
Perfluorotetradecanoic acid (PFTeA)	
Perfluorobutanesulfonic acid (PFBS)	
Perfluorohexanesulfonic acid (PFHxS)	
Perfluorooctanesulfonic acid (PFOS)	
N-methyl perfluorooctanesulfonamidoacetic acid (MeFOSAA)	
N-ethyl perfluorooctanesulfonamidoacetic acid (EtFOSAA)	

Notes:

1. PFAS - per- and polyfluoroalkyl substances

**FIGURES** 

