

# C<sub>2</sub>G Environmental Consultants, LLC

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Farmingdale, NY 11735

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August 31, 2016

Mr. Steven Baxter  
32 Allen Boulevard Corp.  
388 Broadhollow Road  
Farmingdale, NY 11735

**Re: Exploratory Groundwater Investigation Work Plan – Potential Off-Site Sources  
32 Allen Boulevard  
Farmingdale, NY 11735**

Dear Mr. Baxter:

Based on the results of recent groundwater sampling activities, C<sub>2</sub>G Environmental Consultants, LLC (C<sub>2</sub>G) proposes the following groundwater investigation activities in order to determine if elevated Cadmium and Chromium groundwater concentrations are potentially associated with an off-site source. Please refer to the previous Groundwater Quality Sampling Report prepared by C<sub>2</sub>G, dated December 11, 2015, for a complete description of recent groundwater sampling activities and results.

## **1.0 Temporary Groundwater Monitoring Well Installation**

Based on the presumed southeasterly groundwater flow direction, documented in previous reports, the proposed groundwater investigation activities will be concentrated near the northern and western site boundaries, where site conditions permit. A target number of five (5) temporary one-inch (1") diameter PVC monitoring wells (well IDs TW-1 through TW-5) will be installed utilizing a Geoprobe Model 6620DT direct push drill rig. Please refer to Figure 2 for a depiction of proposed temporary monitoring well locations.

Based on previous depth to groundwater measurements, ranging from approximately sixteen (16) to nineteen (19) feet below grade, temporary monitoring wells will be installed to a minimum depth of twenty-seven (27) feet below grade. The 1" temporary monitoring wells will be constructed of twenty (20) feet of 0.010-inch well screen with ten (10) feet of solid riser.

## **2.0 Temporary Groundwater Monitoring Well Sampling**

Prior to collection of groundwater samples, the temporary monitoring wells will be purged a minimum of three (3) well volumes. Groundwater purging and sampling will be performed utilizing a low flow peristaltic pump. Fresh tubing will be utilized for each well. Purged groundwater will be placed in 55-gallon drums and sealed for disposal following the sampling event, in accordance with NYSDEC standards. Each groundwater sample will be field tested for turbidity at the time of sample collection. If the sample turbidity is greater than the NYSDEC target turbidity of 50 NTUs, two (2) groundwater samples will be collected from the well: one (1) unfiltered sample and one (1) filtered sample. If the analytical results for the unfiltered sample are below guidance, the filtered sample will not be analyzed.

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Groundwater samples will be collected in 250 ml plastic jars with HNO<sub>3</sub> preservative and will be analyzed for target metals Cadmium and Chromium by Phoenix Environmental Laboratories of Manchester, CT. Phoenix is certified by the National Environmental Laboratory Accreditation Conference, holds certification in New York State, and is in compliance with state, federal, and EPA quality control guidelines.

Third-party validation (DUSR) and confirmatory groundwater sampling (duplicate and spike samples) will not be performed as part of the proposed work plan. If analytical results of the proposed groundwater investigation indicate a potential off-site groundwater contamination source, supplemental groundwater sampling will be performed in accordance with NYSDEC DER-10 Guidelines including confirmatory samples and third-party validation / DUSR preparation.

### **3.0 Groundwater Flow Direction Survey**

As part of the proposed groundwater investigation activities, the 1" diameter temporary monitoring wells will be surveyed and gauged in order to determine/confirm groundwater flow direction.

If you have any further questions or concerns, please feel free to contact our office.

Sincerely,  
C<sub>2</sub>G Environmental Consultants, LLC.



Caleb Mall  
Geologist

Cc: Mr. Jahan Reza, Environmental Engineer – NYSDEC Region 1

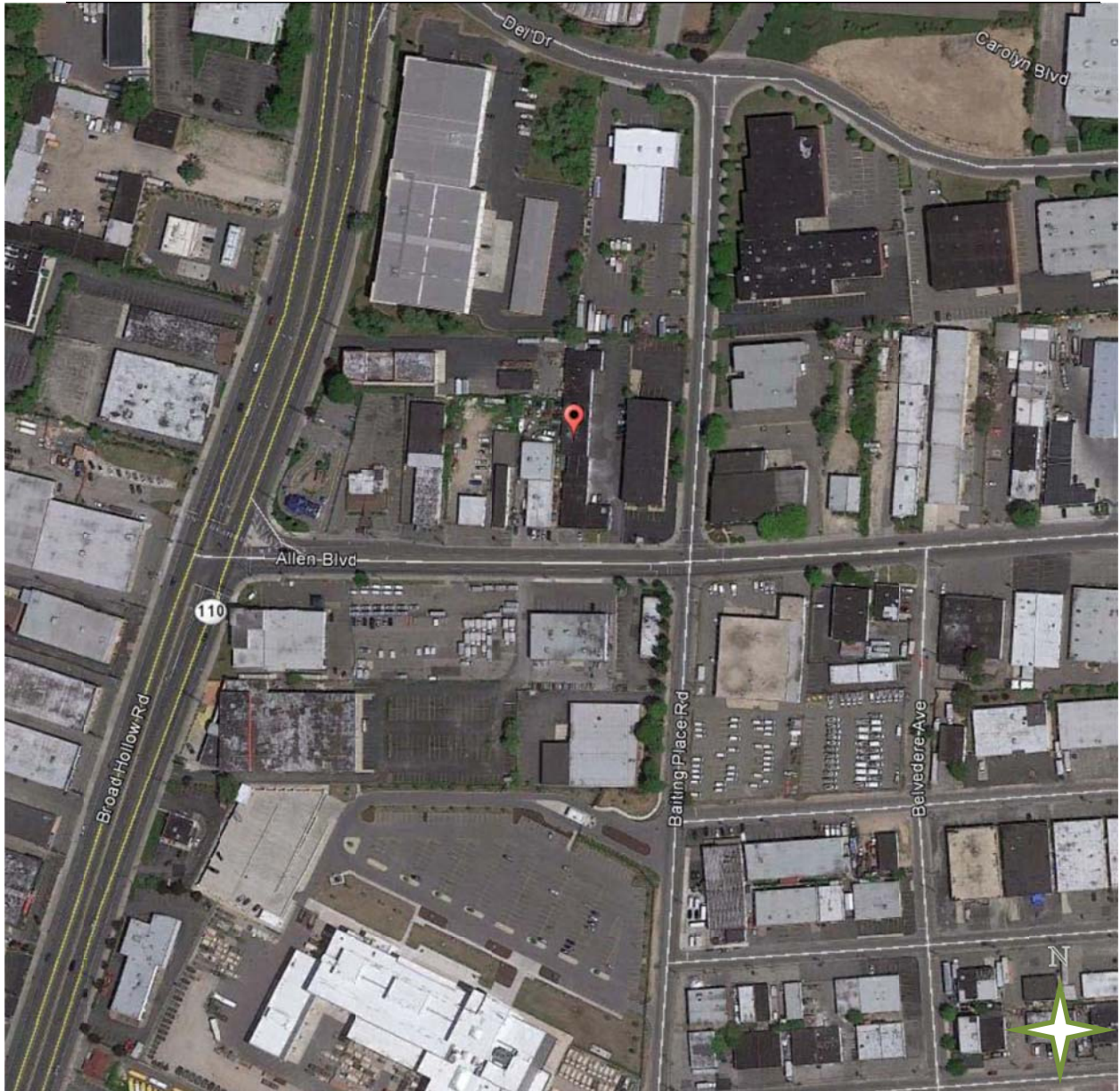
#### Appendices:

Figure 1 – Site Location Map

Figure 2 – Proposed Temporary Monitoring Well Location Map

## **FIGURES**

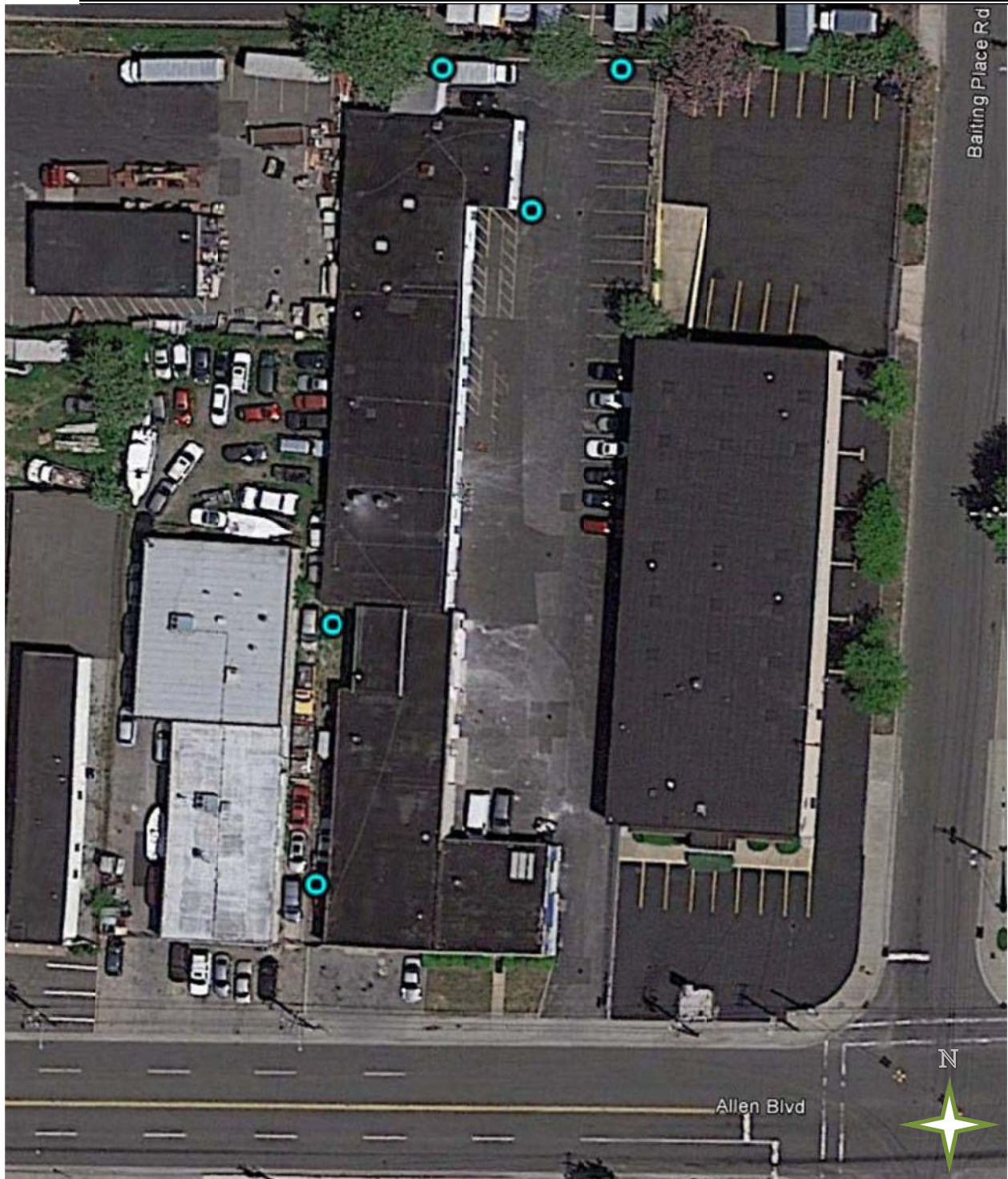
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**Figure 1: Site Location Map**



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**Figure 2: Proposed Temporary Monitoring Well Location Map**