



January 13, 2017

Ms. Heather Bishop
Division of Environmental Remediation
NYS Department of Environmental Conservation
Remedial Bureau A, 11th Floor
625 Broadway
Albany, NY 12233-7015

Re: Summary Letter (Site No. V-00576-1) Former Baumann Bus Site, Gabreski Airport, Westhampton Beach, New York – Vacuum Enhanced Fluid Recovery (VEFR) Work Plan

Dear Ms. Bishop:

P.W. Grosser Consulting Inc. (PWGC) has prepared this work plan to document the proposed VEFR of monitoring wells identified with light non-aqueous phase liquids (LNAPL).

BACKGROUND

The subject site is located within the Airport Development District (ADD) at the Francis S. Gabreski Airport in Westhampton Beach, New York. The property is owned by Suffolk County and managed by the Department of Economic Development and Workforce Housing. The ADD portion of the Airport was occupied by housing for base personnel, a theater, church and PX, as well as buildings for training and support services, including a photo lab, vehicle repair areas, flight simulator and armament and electronics storage facility. Several storage tanks, used to store fuel-oil, gasoline and diesel, were located at the site. One tank was reportedly used for the temporary storage of jet fuel while aircraft were undergoing repair. Investigations dating back to 1986 in the vicinity of the southern part of the ADD parcel (between Smith Street and Avenue B) identified a plume containing a light non-aqueous phase liquid (LNAPL). As a result, Suffolk County entered into a Voluntary Cleanup Agreement (VCA) with the New York State Department of Environmental Conservation (NYSDEC) (Site ID #V-00576-1) in November 2005 to investigate and remediate the site.

PWGC performed a remedial investigation at the site in 2009 which horizontally delineated impacted soils to an approximately 220' x 120' area (Soil Management Area (SMA)) where soil impacts exceeded the New York State Department of Environmental Conservation (NYSDEC) recommended soil cleanup objectives (RSCOs) contained within Technical Administrative Guidance Memorandum TAGM #4046. Within that area, a smaller 120' x 60' area was found to exceed the restrictive residential Soil Cleanup Objectives (SCOs) contained within 6 NYCRR Part 375. Vertically impacted soils exceeding TAGM RSCOs and Part 375 restricted residential SCOs were confined to a depth of 30' to 35' below grade. Remediation at the site was completed in 2011 and included removal of source soil and chemical treatment of groundwater. With the completion of the remedial action, remaining contaminated soil is located at a depth of 30 to 35 feet below grade in an area roughly defined by the extents of the SMA minus the footprint of the remedial action excavation.

A site management plan (SMP) was developed and approved for the site for long term management of the remaining contamination at the site which includes plans for institutional/engineering controls, monitoring/inspections and reporting. Engineering controls for the site consist of the soil cover system and post remedial groundwater monitoring activities to assess natural attenuation. Institutional controls for the Site consist of preventing future exposure to remaining contamination by controlling disturbances of the subsurface contamination and limiting the use and development of the site to restricted residential or more restrictive uses.

PWGC began implementation of the SMP in March 2012 which included the first post remedial groundwater monitoring event and completion of the quarterly inspection sheet. On September 27, 2016, PWGC performed the fourteenth post remedial groundwater monitoring event (8 quarterly and 6 semi-annual). No NAPL was observed in the monitoring wells sampled.

LNAPL MEASUREMENTS

On October 10, 2016 a consultant working for Rechler Equity Partners measured LNAPL in two wells at the site (MW-002 and MW-002A).

On December 6, 2016 PWGC collected groundwater and LNAPL measurements at the site. Results are presented in Table 1.

Table 1
Baumann Bus, Gabreski Airport
Groundwater Monitoring Results - 12/6/16

Well Designation	Depth of Well (ft bgs)	Depth to Water (ft bmp)	Depth to LNAPL (ft bmp)	LNAPL Thickness (ft)
MW-001	39.69	34.38	NP	0.00
MW-001A	NM	36.53	36.31	0.22
MW-002	39.85	34.61	33.39	1.22
MW-002A	NM	36.95	35.71	1.24
MW-003	39.63	32.69	NP	0.00
MW-003A	NM	Well Obstruction	NM	0.00
MW-004A	NM	35.98	35.35	0.63

Notes:

- bgs - below grade surface
- ad - arbitrary datum
- bmp - below measuring point
- NP - No Product

Four of the six wells gauged had measurable LNAPL.

VEFR WORK PLAN

PWGC proposes to conduct a minimum of three rounds of VEFR at the site on a bi-weekly basis. During each visit, PWGC proposes the following scope of work:

- Gauge each of the site wells with an interface probe to determine the initial product thickness of each well.
- Wells in which LNAPL is present will be pumped to remove product.

- o PWGC will construct a sealed PVC well cap that facilitates lowering a 1" diameter drop tube into the well. The drop tube will have 1" PVC well screen at the base of the drop tube. This method of removal will allow for preferential removal of LNAPL over water within the well. The sealed well cap with the high vacuum will also allow for vapor removal from the subsurface and increase the net effective drawdown.
- Collect post-VEFR LNAPL thickness measurements from each well.

PWGC anticipates conducting VEFR on each of the wells with product for approximately 45 minutes on average. The pumping duration will be dependent upon the volume of LNAPL present, the efficiency in which LNAPL is removed, and the total number of wells which have product.

LNAPL and water removed from the wells will be properly disposed of as per all applicable federal, state, and local laws.

PWGC will review the LNAPL removal efficiency and determine if modifications to the work plan are required. Such modifications may include:

- Installation of additional monitoring / product removal wells.
- Changes to the VEFR visit duration / frequency.
- Supplemental remedial measures such as chemical injections.

PWGC will include the results of the VEFR in the next semi-annual report.

Should you have any questions, or require further information, please do not hesitate to contact me.

Very truly yours,

P.W. Grosser Consulting, Inc.



Andrew Lockwood
Vice President

Cc: J. Meyers, SCDHS