



October 8, 2014

AMEC Environment & Infrastructure, Inc.  
200 American Metro Boulevard, Suite 113  
Hamilton, NJ 08619  
Attn: **Brent C. O'Dell, P.E.**

**Emily Lloyd**  
*Commissioner*

**Re: Groundwater Discharge, Review Avenue Development Sites,  
Queens, File # C-5652**

**Vincent Sapienza, P.E.**  
*Deputy Commissioner*

Dear Mr. O'Dell:

**Bureau of Wastewater  
Treatment**  
96-05 Horace Harding  
Expressway – 2<sup>nd</sup> Floor  
Corona, NY 11368

This is in response to the June 28, 2012 and May 17, June 24, July 1, and September 24, 2014 submissions requesting permission to discharge up to **36,000 gallons per day (gpd)** of groundwater generated during the remediation located at 37-30 and 37-80 Review Avenue in Queens, NY 11101 (New York State Department of Environmental Conservation Brownfield Cleanup Program Site Nos. C241089 and C241005, respectively). The groundwater will be treated through one 500 gallon pre-separation/eq chamber (with the addition of biocide before chamber and emulsification breaker after chamber), one 40 gpm oil/water separator, two 50-micron bag filter units, two 10-micron bag filter units, and two 1,000 lb carbon units, per provided schematic and information, before discharging to a 6" site connection. The site connection leads to the 12" combined sewer located at Review Avenue between 37<sup>th</sup> Street and Railroad Avenue in Queens, NY.

Tel. (718) 595-4906  
Fax (718) 595-6950  
vsapienza@dep.nyc.gov

Based upon the information, schematic and analytical data submitted, you are hereby conditionally authorized, to discharge up to 36,000 gpd of the groundwater, treated through the above system, per provided schematic and information, as specified in your submissions, **for a period of one year**, to the combined sewer at the above mentioned location. **This Letter of Approval shall expire at midnight on October 7, 2015.**

This conditional approval, however, is subject to your obtaining a groundwater discharge Approval, specifying allowable flow rates, from the Chief of Permitting and Compliance, Bureau of Water and Sewer Operations. You are also required to follow manufacturer specifications for the operation and maintenance of the selected equipment. **This Letter of Approval is contingent upon the permittee's compliance with any other Federal, State or Local laws applicable to the permitted activity.**

**Under no circumstances shall muddy groundwater be discharged into the public sewer.**

Payment shall be made to and permit obtained from the Bureau of Customer

Service for groundwater discharge into the New York City Wastewater System in accordance with the Water and Wastewater Rate Schedule established by the New York City Water Board.

You must notify this section in writing prior to the commencement of discharge. In addition, you are required to hold the groundwater to the maximum extent practicable during heavy wet weather events. Refer to File # C-5652 in any correspondence to this office.

**The permittee must collect samples of the groundwater after the pretreatment system in each quarter of the calendar year. The samples must be analyzed for the parameter(s) included in the attached chart by a New York State Department of Health certified laboratory. The results must be submitted to this office within 21 days after each sampling date. If the sampling results, or any other sampling results, exceed the DEP limits, the discharge must cease and the Bureau of Wastewater Treatment must be notified immediately by phone at (718) 595-4715 and by fax at (718) 595-4771.**

**You are prohibited from discharging any groundwater that exceeds the attached discharge limit(s), as well as those contained in Title 15 Rules of the City of New York Chapter 19.**

This Letter of Approval is an Order of the Commissioner of the Department of Environmental Protection. Please be advised that failure to comply with this Letter of Approval may result in the issuance of Notices of Violation (returnable to the New York City Environmental Control Board) and/or revocation of the Letter of Approval. Notices of Violation carry penalties of up to \$10,000 a day, per violation.

If you have any questions concerning this matter, please contact Sean Hulbert, Assistant Chemical Engineer, at (718) 595-4715.

Sincerely,



Frances Leung, P.E., Chief  
Industrial Inspections and  
Permitting Section

enc: Sampling Requirements and Limitations

## SAMPLING REQUIREMENTS AND LIMITATIONS

Parameter <sup>1</sup>	Daily Limit	Units	Sample Type	Monthly Limit
Non-polar material <sup>2</sup>	50	mg/l	Instantaneous	---
pH	5-12	SU's	Instantaneous	---
Temperature	< 150	Degree F	Instantaneous	---
Flash Point	> 140	Degree F	Instantaneous	---
Cadmium	2 0.69	mg/l mg/l	Instantaneous Composite	---
Chromium (VI)	5	mg/l	Instantaneous	---
Copper	5	mg/l	Instantaneous	---
Lead	2	mg/l	Instantaneous	---
Mercury	0.05	mg/l	Instantaneous	---
Nickel	3	mg/l	Instantaneous	---
Zinc	5	mg/l	Instantaneous	---
Benzene	134	ppb	Instantaneous	57
Carbontetrachloride	---	---	Composite	---
Chloroform	---	---	Composite	---
1,4 Dichlorobenzene	---	---	Composite	---
Ethylbenzene	380	ppb	Instantaneous	142
MTBE (Methyl-Tert-Butyl-Ether)	50	ppb	Instantaneous	---
Naphthalene	47	ppb	Composite	19
Phenol	---	---	Composite	---
Tetrachloroethylene (Perc)	20	ppb	Instantaneous	---
Toluene	74	ppb	Instantaneous	28
1,2,4 Trichlorobenzene	---	---	Composite	---
1,1,1 Trichloroethane	---	---	Composite	---
Xylenes (Total)	74	ppb	Instantaneous	28
PCB's (Total) <sup>3</sup>	1	ppb	Composite	---
Total Suspended Solids (TSS)	350	mg/l	Instantaneous	---
CBOD	---	---	Composite	---
Chloride	---	---	Instantaneous	---
Total Nitrogen <sup>4</sup>	---	---	Composite	---
Total Solids	---	---	Instantaneous	---
Other				

- 1 All handling and preservation of collected samples and laboratory analyses of samples shall be performed in accordance with 40 C.F.R. pt. 136. If 40 C.F.R. pt. 136 does not cover the pollutant in question, the handling, preservation, and analysis must be performed in accordance with the latest edition of "Standard Methods for the Examination of Water and Wastewater." All analyses shall be performed using a detection level less than the lowest applicable regulatory discharge limit. If a parameter does not have a limit, then the detection level is defined as the least of the Practical Quantitation Limits identified in NYSDEC's Analytical Detectability and Quantitation Guidelines for Selected Environmental Parameters, December 1988.
- 2 Non-Polar Material shall mean that portion of the oil and grease that is not eliminated from a solution containing N-Hexane, or any other extraction solvent the EPA shall prescribe, by silica gel absorption.
- 3 Analysis for PCB's must be done by EPA method 608 with MDL=<65 ppt. PCB's (total) is the sum of PCB-1242 (Aroclor 1242), PCB-1254 (Aroclor 1254), PCB-1221 (Aroclor 1221), PCB-1232 (Aroclor 1232), PCB-1248 (Aroclor 1248), PCB-1260 (Aroclor 1260) and PCB-1016 (Aroclor 1016).
- 4 Total Nitrogen = Total Kjeldahl Nitrogen (TKN) + Nitrite (NO<sub>2</sub>) + Nitrate (NO<sub>3</sub>).