



July 10, 2014

Mrs. Jeannette DeBartolomeo
Maryland Department of the Environment (MDE)
Oil Control Program
1800 Washington Boulevard
Baltimore, Maryland 21230-1719

**Re: Request for Reduction in Supply Well Sampling at 2907 Churchville Road, Churchville, MD
Gasoline Fueling Station – Royal Farms #72
MDE Case No. 93-0197-HA Facility ID No. 3851
AEC Project # 05-056RF072**

Dear Mrs. DeBartolomeo:

Advantage Environmental Consultants, LLC. (AEC) has prepared this letter to request a change in sampling requirements for the off-site supply well located at 2907 Churchville Road. This supply well is currently sampled on a monthly basis.

AEC installed Point of Entry Treatment (POET) water system at 2907 Churchville Road property on October 9, 2013. The system utilizes three filtration vessels containing granular activated carbon (GAC). The filtration system has been operation for approximately eight months. Sampling results since installation of the POET system indicate a relatively stable trend in influent results reported from laboratory analysis. Breakthrough to the first mid-point occurred approximately four months after installation of the system. After an additional five months, petroleum constituents have not yet broken through to the systems second mid-point. It should be noted that 2907 Churchville Road is supplied with bottled water as the primary source of potable water. A table of results from the sampling of this well is attached.

AEC respectfully requests a reduction in sampling requirements from monthly to quarterly. Due to the relatively stable influent trend established since installation of the POET system and the length of time which petroleum constituents have taken to move beyond the first GAC vessel, the suggested monitoring schedule is adequate to meet the monitoring requirements at this property. If the requested change is authorized, AEC recommends that the carbon vessels be changed out prior to beginning the new sampling schedule.

Please call the undersigned at (301) 776-0500 should you have any questions regarding this request.

Sincerely,
Advantage Environmental Consultants, LLC

A handwritten signature in blue ink that reads 'Jeffrey S. Stein'.

Jeffery S. Stein, P.G.
Principal

CC: T. Ruszin

Attachment

**Historical Off-site Potable Well Analytical Results
Gasoline Fueling Station – Royal Farms #72
2907 Churchville Road, Churchville, MD 21028**

Well No.	Date	B	T	E	X	TBA	MTBE	Naphthalene
Influent	8/31/2010	BDL	BDL	BDL	BDL	BDL	19	BDL
	8/31/2011	BDL	BDL	BDL	BDL	BDL	5.27	BDL
	8/2/2012	BDL	BDL	BDL	BDL	BDL	12.3	BDL
	8/20/2013	BDL	BDL	BDL	BDL	15	242	BDL
	8/28/2013	BDL	BDL	BDL	BDL	BDL	268	BDL
	11/14/2013	BDL	BDL	BDL	BDL	BDL	409 E	BDL
	12/19/2013	BDL	BDL	BDL	BDL	BDL	392	BDL
	1/9/2014	BDL	BDL	BDL	BDL	BDL	403	BDL
	2/18/2014	BDL	BDL	BDL	BDL	BDL	436	BDL
	3/18/2014	BDL	BDL	BDL	BDL	BDL	414	BDL
	4/30/2014	BDL	BDL	BDL	BDL	BDL	455	BDL
	5/15/2014	BDL	BDL	BDL	BDL	BDL	470	BDL
	6/25/2014	BDL	BDL	BDL	BDL	BDL	578	BDL
	Mid-1	11/14/2013	BDL	BDL	BDL	BDL	BDL	BDL
12/19/2013		BDL	BDL	BDL	BDL	BDL	BDL	BDL
1/9/2014		BDL	BDL	BDL	BDL	BDL	BDL	BDL
2/18/2014		BDL	BDL	BDL	BDL	BDL	5.35	BDL
3/18/2014		BDL	BDL	BDL	BDL	BDL	38.6	BDL
4/30/2014		BDL	BDL	BDL	BDL	BDL	136	BDL
5/15/2014		BDL	BDL	BDL	BDL	BDL	212	BDL
Mid-2	6/25/2014	BDL	BDL	BDL	BDL	BDL	403	BDL
	11/14/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/19/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1/9/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2/18/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/18/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	4/30/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Effluent	5/15/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	6/25/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	11/14/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	12/19/2013	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	1/9/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	2/18/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	3/18/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4/30/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
5/15/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
6/25/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Type I and II Aquifers		5	1000	700	10000	NRS	20	0.65

* - indicates that a carbon rebed took place between this date and the preceding date

BDL = Below Detection Limits

B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene

TBA = Tert-butanol

MTBE = Methyl-tert-butyl-ether

All results reported in reported in parts per billion or ug/L

Influent = Potable Well Influent

Mid-1 = First Potable Well Mid Point

Mid-2 = Second Potable Well Mid Point

Effluent = Potable Well Effluent

NS = Not Sampled

Some compounds may have been detected but are not tabulated on this spreadsheet.

See laboratory analytical results reports for full results.

J Denotes Estimated Value Below Reporting Limit

E Denotes Estimated Value Above Calibration Range of Instrument

MDE Standards (Generic Numeric Cleanup Standards for Groundwater and Soil - Interim Final Guidance Update No. 2.1 - June 2008)

NRS = No Regulatory Standard