

Advantage Environmental Consultants  
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**Advantage  
Environmental  
Consultants, LLC**

## **Letter of Transmittal**

**To:** Ms. Jeannette DeBartolomeo  
**From:** Jeff Stein  
**CC:** Health Department/Resident  
**Date:** May 22, 2014  
**Re:** Royal Farms 72 – 2907 Churchville Road Monthly Sampling Results

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### **Comments:**

Enclosed is a copy of the potable well treatment system analytical results from testing performed on May 15, 2014. All analytes are below detection limits on the effluent side of the treatment system. Please contact us if you have any questions.

**Table 5 - 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
	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
Mid-2	5/15/2014	BDL	BDL	BDL	BDL	BDL	212	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
Effluent	4/30/2014	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/15/2014	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
Type I and II Aquifers	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
		<b>5</b>	<b>1000</b>	<b>700</b>	<b>10000</b>	<b>NRS</b>	<b>20</b>	<b>0.65</b>

\* - 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)

## Analytical Results

1500 Caton Center Dr Suite G  
Baltimore MD 21227  
410-247-7600  
www.mdspectral.com  
VELAP ID 460040

**Project: RF-72**

Project Number: 05-056RF072

Advantage Environmental Consultants, LLC

Project Manager: James Wolf

8610 Baltimore Washington Blvd, Suite 217

Report Issued: 05/21/14 13:59

Jessup MD, 20794

CLIENT SAMPLE ID:	PW2907-EFF	PW2907-MID2	PW2907-MID1	PW2907-IN
LAB SAMPLE ID:	4051526-01	4051526-02	4051526-03	4051526-04
SAMPLE DATE:	05/15/14	05/15/14	05/15/14	05/15/14
RECEIVED DATE:	05/15/14	05/15/14	05/15/14	05/15/14
MATRIX	Units	Water	Water	Water

### VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (Water)

Compound	Units	PW2907-EFF	PW2907-MID2	PW2907-MID1	PW2907-IN
tert-Amyl alcohol (TAA)	ug/L	<10.0	<10.0	<100	<250
tert-Amyl methyl ether (TAME)	ug/L	<0.50	<0.50	<5.00	<b>13.4</b>
Benzene	ug/L	<0.50	<0.50	<5.00	<12.5
Bromobenzene	ug/L	<0.50	<0.50	<5.00	<12.5
Bromochloromethane	ug/L	<0.50	<0.50	<5.00	<12.5
Bromodichloromethane	ug/L	<0.50	<0.50	<5.00	<12.5
Bromoform	ug/L	<0.50	<0.50	<5.00	<12.5
Bromomethane	ug/L	<0.50	<0.50	<5.00	<12.5
tert-Butanol (TBA)	ug/L	<10.0	<10.0	<100	<250
n-Butylbenzene	ug/L	<0.50	<0.50	<5.00	<12.5
sec-Butylbenzene	ug/L	<0.50	<0.50	<5.00	<12.5
tert-Butylbenzene	ug/L	<0.50	<0.50	<5.00	<12.5
Carbon tetrachloride	ug/L	<0.50	<0.50	<5.00	<12.5
Chlorobenzene	ug/L	<0.50	<0.50	<5.00	<12.5
Chloroethane	ug/L	<0.50	<0.50	<5.00	<12.5
Chloroform	ug/L	<0.50	<0.50	<5.00	<12.5
Chloromethane	ug/L	<0.50	<0.50	<5.00	<12.5
2- & 4-Chlorotoluene	ug/L	<0.50	<0.50	<5.00	<12.5
Dibromochloromethane	ug/L	<0.50	<0.50	<5.00	<12.5
1,2-Dibromo-3-chloropropane	ug/L	<0.50	<0.50	<5.00	<12.5
1,2-Dibromoethane (EDB)	ug/L	<0.50	<0.50	<5.00	<12.5
Dibromomethane	ug/L	<0.50	<0.50	<5.00	<12.5
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<5.00	<12.5
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<5.00	<12.5
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<5.00	<12.5
Dichlorodifluoromethane	ug/L	<0.50	<0.50	<5.00	<12.5
1,1-Dichloroethane	ug/L	<0.50	<0.50	<5.00	<12.5
1,2-Dichloroethane	ug/L	<0.50	<0.50	<5.00	<12.5
1,1-Dichloroethene	ug/L	<0.50	<0.50	<5.00	<12.5
cis-1,2-Dichloroethene	ug/L	<0.50	<0.50	<5.00	<12.5
trans-1,2-Dichloroethene	ug/L	<0.50	<0.50	<5.00	<12.5
1,2-Dichloropropane	ug/L	<0.50	<0.50	<5.00	<12.5
1,3-Dichloropropane	ug/L	<0.50	<0.50	<5.00	<12.5
2,2-Dichloropropane	ug/L	<0.50	<0.50	<5.00	<12.5
1,1-Dichloropropene	ug/L	<0.50	<0.50	<5.00	<12.5
cis-1,3-Dichloropropene	ug/L	<0.50	<0.50	<5.00	<12.5

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RECEIVED DATE:	05/15/14	05/15/14	05/15/14	05/15/14
MATRIX	Units	Water	Water	Water

### VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)

trans-1,3-Dichloropropene	ug/L	<0.50	<0.50	<5.00	<12.5
Diisopropyl ether (DIPE)	ug/L	<0.50	<0.50	<5.00	<12.5
Ethyl tert-butyl ether (ETBE)	ug/L	<0.50	<0.50	<5.00	<12.5
Ethylbenzene	ug/L	<0.50	<0.50	<5.00	<12.5
Hexachlorobutadiene	ug/L	<0.50	<0.50	<5.00	<12.5
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50	<5.00	<12.5
4-Isopropyltoluene	ug/L	<0.50	<0.50	<5.00	<12.5
Methyl tert-butyl ether (MTBE)	ug/L	<0.50	<0.50	<b>212</b>	<b>470</b>
Methylene chloride	ug/L	<0.50	<0.50	<5.00	<12.5
Naphthalene	ug/L	<0.50	<0.50	<5.00	<12.5
n-Propylbenzene	ug/L	<0.50	<0.50	<5.00	<12.5
Styrene	ug/L	<0.50	<0.50	<5.00	<12.5
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<5.00	<12.5
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<5.00	<12.5
Tetrachloroethene	ug/L	<0.50	<0.50	<5.00	<12.5
Toluene	ug/L	<0.50	<0.50	<5.00	<12.5
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50	<5.00	<12.5
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50	<5.00	<12.5
1,1,1-Trichloroethane	ug/L	<0.50	<0.50	<5.00	<12.5
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<5.00	<12.5
Trichloroethene	ug/L	<0.50	<0.50	<5.00	<12.5
Trichlorofluoromethane (Freon 11)	ug/L	<0.50	<0.50	<5.00	<12.5
1,2,3-Trichloropropane	ug/L	<0.50	<0.50	<5.00	<12.5
1,2,4-Trimethylbenzene	ug/L	<0.50	<0.50	<5.00	<12.5
1,3,5-Trimethylbenzene	ug/L	<0.50	<0.50	<5.00	<12.5
Vinyl chloride	ug/L	<0.50	<0.50	<5.00	<12.5
o-Xylene	ug/L	<0.50	<0.50	<5.00	<12.5
m- & p-Xylenes	ug/L	<0.50	<0.50	<5.00	<12.5
4-Bromofluorobenzene	[surr]	<u>97.5%</u>	<u>100%</u>	<u>93.5%</u>	<u>98.6%</u>
1,2-Dichlorobenzene-d4	[surr]	<u>105%</u>	<u>108%</u>	<u>97.6%</u>	<u>101%</u>

