Draper Aden Associates
Engineering • Surveying • Environmental Services

2206 South Main Street
Blacksburg, Virginia 24060
(540) 552-0444 • Fax (540) 552-0291
www.daa.com

October 15, 2012

RECEIVED
OCT 25 2012
SOLID WASTE SECTION

Jerry and Pamela Williamson
2737 Hwy 421 South
Boone, NC 28607

Re: Private Well Sampling
Closed Watauga County Landfill
Draper Aden Associates Job No. 6520-39

Dear Mr. and Mrs. Williamson:

Thank you for participating in the private well sampling event completed in September 2012 as part of the closed Watauga County Landfill's groundwater monitoring program. Please find enclosed with this letter the analytical results obtained from the water sample Draper Aden Associates collected from your non-potable use well on September 5, 2012 (identified as Res-16 on the laboratory data sheet). The water sample was analyzed for 59 volatile organic constituents via the U.S. Environmental Protection Agency (EPA) Drinking Water Analytical Method 524.2.

No detections of organic parameters were observed during this sampling event. Draper Aden Associates and Watauga County appreciate your cooperation. Watauga County will continue sampling your well on a semiannual basis as part of the overall landfill monitoring program. Please feel free to contact us if you have any questions regarding these results.

Sincerely,
DRAPER ADEN ASSOCIATES

Karen Weber

Karen Weber, P.G.
Senior Project Geologist

Enclosure: Analytical Results

cc: Ms. Elizabeth Werner, NCDENR (w/ enclosure)
Mr. Lawrence Caviness, NC Appalachian District HD (w/ enclosure)
Mr. Deron Geouque, Watauga County Manager (w/ enclosure)
Mr. Srikanth Nathella, P.E., Draper Aden Associates

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Analysis Report

RECEIVED OCT 25 2012 SOLID WASTE SECTION

Sample Description: RES-16 Grab Water Sample
2012 - 2nd Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6779514
LLI Group # 1333738
Account # 11200

Project Name: Watauga County, NC

Collected: 09/05/2012 11:35 by DS

Submitted: 09/06/2012 09:30
Reported: 09/18/2012 19:37

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WAT16 SDG#: WAT16-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Eurofins Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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Analysis Report

Sample Description: RES-16 Grab Water Sample
2012 - 2nd Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6779514
LLI Group # 1333738
Account # 11200

Project Name: Watauga County, NC

Collected: 09/05/2012 11:35 by DS

Submitted: 09/06/2012 09:30
Reported: 09/18/2012 19:37

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WAT16 SDG#: WAT16-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	S122611AA	09/17/2012 16:04	Anita M Dale	1

Eurofins Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result

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October 15, 2012

Mr. Frank Bolick
180 Ridge Point Dr.
Boone, North Carolina 28607

Re: Private Well Sampling
Closed Watauga County Landfill
Draper Aden Associates Job No. 6520-39

Dear Mr. Bolick:

Thank you for participating in the private well sampling event completed in September 2012 as part of the closed Watauga County Landfill's groundwater monitoring program. Please find enclosed the analytical results obtained from the water sample Draper Aden Associates collected from the private well located behind the rental residence at 2347 Hwy 421 South on September 5, 2012 (identified as Res-2 on the laboratory data sheet). The sample was analyzed for 59 volatile organic constituents via the U.S. Environmental Protection Agency (EPA) Drinking Water Analytical Method 524.2.

Six constituents were detected in the sample collected at the residential well including 1,1-dichloroethane and cis-1,2-dichloroethene as well as chloroethane, 1,4-dichlorobenzene, dichlorodifluoromethane and trichloroethene, which were detected at very low concentrations (estimated results). All constituents detected have either a published U.S. EPA maximum contaminant limit (MCL) drinking water standard or North Carolina Groundwater Standard, or both. With the exception of 1,1-dichloroethane, all concentrations of constituents detected in the well sample were below the U.S. EPA MCL and/or respective North Carolina Groundwater Standard. These results are consistent with historical detections in this well. Since the residence has been connected to the public water system, no immediate action is planned at this time as a result of these results.

Draper Aden Associates and Watauga County appreciate your cooperation. Watauga County will continue sampling your well on a semiannual basis as part of the overall landfill monitoring program.

Please feel free to contact us if you have any questions regarding these results.

Sincerely,
DRAPER ADEN ASSOCIATES

Karen Weber

Karen Weber, P.G.
Senior Project Geologist

Enclosure: Analytical Results

cc: Ms. Elizabeth Werner, NCDENR (w/ enclosure)
Mr. Lawrence Caviness, NCADHD (w/ enclosure)
Mr. Deron Geouque, Watauga County Manager (w/ enclosure)
Mr. Srikanth Nathella, P.E., Draper Aden Associates

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Analysis Report

Sample Description: RES-2 Grab Water Sample
2012 - 2nd Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6779516
LLI Group # 1333738
Account # 11200

Project Name: Watauga County, NC

Collected: 09/05/2012 12:25 by DS

Submitted: 09/06/2012 09:30
Reported: 09/18/2012 19:37

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WATR2 SDG#: WAT16-06

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l		ug/l	ug/l	
03648	Benzene	71-43-2	N.D.		0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
03648	Bromoform	75-25-2	N.D.		0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.		0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.		0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
03648	Chloroethane	75-00-3	0.2	J	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.		0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.		0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.		0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	0.3	J	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	0.4	J	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	8.2		0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.		0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	0.6		0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.		0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.		0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.		0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.		0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
03648	Styrene	100-42-5	N.D.		0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
03648	Toluene	108-88-3	N.D.		0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1

*=This limit was used in the evaluation of the final result

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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Analysis Report

Sample Description: RES-2 Grab Water Sample
2012 - 2nd Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6779516
LLI Group # 1333738
Account # 11200

Project Name: Watauga County, NC

Collected: 09/05/2012 12:25 by DS

Submitted: 09/06/2012 09:30
Reported: 09/18/2012 19:37

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WATR2 SDG#: WAT16-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	0.2 J	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	S122611AA	09/17/2012 16:57	Anita M Dale	1

*=This limit was used in the evaluation of the final result

Eurofins Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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Draper Aden Associates
Engineering • Surveying • Environmental Services

2206 South Main Street
Blacksburg, Virginia 24060
(540) 552-0444 • Fax (540) 552-0291
www.daa.com

October 15, 2012

Mr. David Greer
2711 Hwy 421 South
Boone, North Carolina 28607

Re: Private Well Sampling
Closed Watauga County Landfill
Draper Aden Associates Job No. 6520-39

Dear Mr. Greer:

Thank you for participating in the potable well sampling event completed in September 2012 as part of the closed Watauga County Landfill's groundwater monitoring program. Please find enclosed the analytical results obtained from the water sample Draper Aden Associates collected from your well on September 5, 2012 (identified as Res-15 on the laboratory data sheet). The water sample was analyzed for 59 volatile organic constituents via the U.S. Environmental Protection Agency (EPA) Drinking Water Analytical Method 524.2.

One constituent (tetrachloroethene) was detected at a very low concentrations, estimated at 0.2 µg/l.. This concentration is less than the U.S. EPA Maximum Contaminant Limit (MCL) drinking water standard for tetrachloroethene of 5.0 µg/l and the NC groundwater standard of 0.7 µg/l.

Draper Aden Associates and Watauga County appreciate your cooperation. Watauga County will continue sampling your well on a semiannual basis as part of the overall landfill monitoring program. Please feel free to contact us if you have any questions regarding these results.

Sincerely,
DRAPER ADEN ASSOCIATES

Karen Weber

Karen Weber, P.G.
Senior Project Geologist

Enclosure: Analytical Results

cc: Ms. Elizabeth Werner, NCDENR (w/ enclosure)
Mr. Lawrence Caviness, NC Appalachian District HD (w/ enclosure)
Mr. Deron Geouque, Watauga County Manager (w/ enclosure)
Mr. Srikanth Nathella, P.E., Draper Aden Associates

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Analysis Report

Sample Description: RES-15 Grab Water Sample
2012 - 2nd Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6779513
LLI Group # 1333738
Account # 11200

Project Name: Watauga County, NC

Collected: 09/05/2012 11:50 by DS

Submitted: 09/06/2012 09:30
Reported: 09/18/2012 19:37

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WAT15 SDG#: WAT16-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	0.2 J	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Lancaster, PA 17605-2425
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Analysis Report

Sample Description: RES-15 Grab Water Sample
2012 - 2nd Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6779513
LLI Group # 1333738
Account # 11200

Project Name: Watauga County, NC

Collected: 09/05/2012 11:50 by DS

Submitted: 09/06/2012 09:30
Reported: 09/18/2012 19:37

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WAT15 SDG#: WAT16-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	S122611AA	09/17/2012 15:38	Anita M Dale	1

Eurofins Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result

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Blacksburg, Virginia 24060
(540) 552-0444 • Fax (540) 552-0291
www.daa.com

October 15, 2012

Mr. Keith Honeycutt
Hollar and Greene Produce
230 Cabbage Row
Boone, North Carolina 28607

Re: Private Well Sampling
Closed Watauga County Landfill
Draper Aden Associates Job No. 6520-39

Dear Mr. Honeycutt:

We wish to thank Hollar and Greene Produce for participating in the potable well sampling event completed in September 2012 as part of the closed Watauga County Landfill's groundwater monitoring program. Please find enclosed the analytical results obtained from the water sample Draper Aden Associates collected from the Hollar and Greene Produce well on September 5, 2012 (identified as H+G Produce on the laboratory data sheet). The sample was analyzed for 59 volatile organic constituents via the U.S. Environmental Protection Agency (EPA) Drinking Water Analytical Method 524.2.

One constituent (tetrachloroethene) was detected at a very low concentration, estimated at 0.2 µg/l. This concentration is less than the U.S. EPA Maximum Contaminant Limit (MCL) drinking water standard for tetrachloroethene of 5 µg/l and the NC groundwater standard of 0.7 µg/l.

Draper Aden Associates and Watauga County appreciate your cooperation. Watauga County will continue sampling your well on a semiannual basis as part of the overall landfill monitoring program. Please feel free to contact us if you have any questions regarding these results.

Sincerely,
DRAPER ADEN ASSOCIATES

Karen Weber

Karen Weber, P.G.
Senior Project Geologist

Enclosure: Analytical Results

cc: Ms. Elizabeth Werner, NCDENR (w/ enclosure)
Mr. Lawrence Caviness, NC Appalachian District HD (w/ enclosure)
Mr. Deron Geouque, Watauga County Manager (w/ enclosure)
Mr. Srikanth Nathella, P.E., Draper Aden Associates

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Analysis Report

Sample Description: H&G Produce Grab Water Sample
2012 - 2nd Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6779512
LLI Group # 1333738
Account # 11200

Project Name: Watauga County, NC

Collected: 09/05/2012 12:10 by DS

Submitted: 09/06/2012 09:30
Reported: 09/18/2012 19:37

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WATHG SDG#: WAT16-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	0.2 J	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: H&G Produce Grab Water Sample
2012 - 2nd Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6779512
LLI Group # 1333738
Account # 11200

Project Name: Watauga County, NC

Collected: 09/05/2012 12:10 by DS

Submitted: 09/06/2012 09:30
Reported: 09/18/2012 19:37

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WATHG SDG#: WAT16-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	S122611AA	09/17/2012 15:11	Anita M Dale	1

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*=This limit was used in the evaluation of the final result

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October 15, 2012

Ms. Linda Johnson
Trustee of Bolick Estate
156 Sunslope Lane
Boone, North Carolina 28607

Re: Private Well Sampling
Closed Watauga County Landfill
Draper Aden Associates Job No. 6520-39

Dear Ms. Johnson:

Thank you for participating in the private well sampling event completed in September 2012 as part of the closed Watauga County Landfill's groundwater monitoring program. Please find enclosed the analytical results obtained from the water sample Draper Aden Associates collected from the residential well located at 2239 Hwy 421S on September 5, 2012 (identified as Res-1 on the laboratory data sheet). The sample was analyzed for 59 volatile organic constituents via the U.S. Environmental Protection Agency (EPA) Drinking Water Analytical Method 524.2.

One constituent (toluene) was detected at a very low concentration, estimated at 0.1 µg/l, but was determined during the data validation process to be a result of blank contamination and therefore, not likely present in your well. Nonetheless, this concentration is less than the U.S. EPA Maximum Contaminant Limit (MCL) drinking water standard for tetrachloroethene of 1,000 µg/l and the NC groundwater standard of 600 µg/l. Toluene will continue to be tracked at this location during subsequent sampling events.

Draper Aden Associates and Watauga County appreciate your cooperation. Watauga County will continue sampling your well on a semiannual basis as part of the overall landfill monitoring program. Please feel free to contact us if you have any questions regarding these results.

Sincerely,
DRAPER ADEN ASSOCIATES

Karen Weber

Karen Weber, P.G.
Senior Project Geologist

Enclosure: Analytical Results

cc: Ms. Elizabeth Werner, NCDENR (w/ enclosure)
Mr. Lawrence Caviness, NCADHD (w/ enclosure)
Mr. Deron Geouque, Watauga County Manager (w/ enclosure)
Mr. Srikanth Nathella, P.E., Draper Aden Associates

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Analysis Report

Sample Description: RES-1 Grab Water Sample
2012 - 2nd Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6779511
LLI Group # 1333738
Account # 11200

Project Name: Watauga County, NC

Collected: 09/05/2012 12:40 by DS

Submitted: 09/06/2012 09:30
Reported: 09/18/2012 19:37

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WATR1 SDG#: WAT16-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	0.1 J	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: RES-1 Grab Water Sample
2012 - 2nd Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6779511
LLI Group # 1333738
Account # 11200

Project Name: Watauga County, NC

Collected: 09/05/2012 12:40 by DS

Submitted: 09/06/2012 09:30
Reported: 09/18/2012 19:37

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WATR1 SDG#: WAT16-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	S122611AA	09/17/2012 14:45	Anita M Dale	1

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*=This limit was used in the evaluation of the final result