

322 Laurel Drive
Hershey, PA 17033-2625
March 7, 2019

Karyn Yordy
Executive Assistant, Office of Programs
Department of Environmental Protection
Rachel Carson State Office Building
400 Market Street
Harrisburg, PA 17101

Dear Ms. Yordy:

On March 1, 2019 we received information from Mark McConnell, Land Project Manager, representing Sunoco Pipeline, L.P. (SPLP) regarding a Horizontal Directional Drilling (HDD) Reevaluation Report (HDD Report) for installation of a 16-inch pipeline within 450 feet of our property boundary. Because our property has a private water supply, we were invited to submit comments on the HDD Report to you within fourteen days of February 28, 2019. Many pages in the HDD Report are not numbered, limiting our ability to reference where information is cited. Also, the HDD Report is extremely technical so we have limited our comments to our personal experience associated with the HDD of the 20-inch pipeline and our concerns for the microbial quality of our well water supply and property value.

HDD vs. Open Cut Construction

Open cut construction, while perhaps avoiding/minimizing additional well water contamination, might require cutting down trees and taking down parts of our board-on-post fence for SPLP to acquire the necessary temporary workspace. This in turn may reduce the value of our property. Thus, we believe it is in both SPLP's and our interests that the 16-inch pipeline be installed via HDD.

Microbiological Water Quality

The HDD Report mentions that, according to the Conewago Township website, there is public water service available from the Pennsylvania American Water Company in part of the property near the proposed 16-inch HDD. Our property on Laurel Drive does not have access to that water supply. The public water supply line for Laurel Drive ends at the Woodbine intersection. We are totally reliant on a private well that was drilled when the house was built circa 1970. Thus, we accepted SPLP's offer in 2017 to sample our well water pre, during and post construction associated with the drilling of the 20-inch pipeline. The attached table summarizes microbiological results from samples obtained over time that were originated either by us (Landowner), Conewago Township, or SPLP. Copies of the data as they appeared in the various reports are also attached.

A few things to note from the table:

1. Samples taken in 1987, 1998, and 2001 did not contain any coliform.
2. The 20-inch pipeline installation was completed August 1, 2018 according to Item 5 in the Executive Summary provided by Skelly and Loy (dated 2/26/19). We received reports from SPLP for two, not three, analyzed samples. The samples presumably are pre (6/7/17) and post (9/21/17) construction of the 20-inch pipeline. It appears SPLP did not take and analyze a sample "during" construction. In addition, we did not receive a copy of the 6/7/17 results until after 8/25/17.
3. Importantly the SPLP report for the 6/7/17 sample does not include any microbiological data, hence no data entered in the table. Absence of microbial data makes it impossible to establish a baseline immediately prior to HDD for the 20-inch pipeline.

4. Both the 8/15/17 and 9/21/17 samples contained total coliform and the 9/21/17 sample contained fecal coliform and E. Coli.

We would agree to have our well water sampled and analyzed pre, during, and post construction of the 16-inch pipeline. Furthermore, we would want assurance that microbiological analyses will be performed on all samples taken.

Alternative Water Supply

We were contacted by SPLP in February 2018 regarding well contamination and were offered a temporary water supply. Since March 2018, we have received 5-gallon bottles of water from Cullogen at SLPL's expense, approximately every 4 weeks. We very much appreciate this as a short-term solution, but not for the long-term. The 5-gallon bottles are very heavy to carry. We need to be at home when new bottles are delivered and empties returned in order to have someone stronger than us carry the 5-6 full bottles from outside the house to where they are stored in our garage. When we need a full bottle, we carry it from the garage to the kitchen where the cooler is placed, but it takes the two of us to accomplish this task (one carrying the bottle, the other opening and closing doors). And, we are in our seventh decade and not getting any younger or stronger! Also, the cooler takes up space in the kitchen and the bottles (full and empty) take up space in the garage. A long-term solution is needed for not only the immediate relief of having to deal with the issues associated with the bottled water, but also our concern about the contaminated well on the resale value of our property.

Long-term Solution

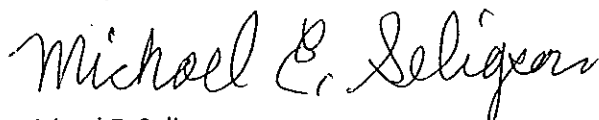
On March 3, 2018 we received a phone call from Ron Eberts, PAEPA, regarding the results of the SPLP water analyses. When we expressed our concerns about the long-term, he indicated that Sunoco has to make things right. We have identified the following three possible solutions:

1. *Public Water Supply*: SPLP could work with the Derry Township Municipal Authority to install a water line to the end of Laurel Drive and pay for affected residents to hook up.
2. *Shock the Well*: SPLP could shock our well, but that would not address the underlying contamination problem. Furthermore, the well would need routine microbiological analyses and potentially routine shocking. Who would be responsible for covering the associated costs?
3. *Install a UV Filter System*: Our local and well trusted plumber of 20 years provided us with an estimate for installation and annual servicing of a UV filter system (see attachment). He estimated it would cost \$576 for the system and material, plus 1.5-2.5 hours of labor at \$130/hour to install it. SLPL should bear the cost of installation, approximately \$771 to \$901. Reoccurring annual costs would be approximately \$150 for bulb replacement and service.

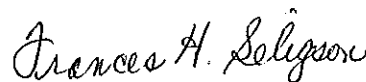
Our preference would be installation of a UV Filter System by our local plumber.

We appreciate the opportunity to provide our experience associated with the HDD installation of the 20-inch pipeline and our concerns about the future with the installation of the 16-inch pipeline. In addition to our mailing address, please feel free to contact us via email (fhseligson@comcast.net) or telephone (717.533.5838) if you have any questions.

Sincerely,



Michael E. Seligson



Frances H. Seligson, Ph.D.

Summary of Well Water Tested for Bacterial Contamination by Date of Sampling

Test	Unit	11/4/1987 ^a	4/15/1998 ^b	12/4/2001 ^c	6/7/2017 ^d	8/15/2017 ^e	9/21/2017 ^f
		Landowner Wright Lab	Conewago BH Labs	Conewago BH Labs	SPLP ESC	Landowner ALS Environ	SPLP ESC
Coliform, total	col/100 ml	0	0	0		>200.5	105
Coliform, fecal	col/100 ml		ND ^g	ND			<1
E. Coli	MPN/100 ml					ND	3.10

^a Sampled prior to purchase of property December 1987

^b Sampled to assist Conewago Township in well sampling and testing program

^c Sampled to assist Conewago Township in well sampling for in-depth groundwater analysis of Laurel Woods

^d Presumably the SPLP pre-construction sample

^e Sample taken and analyzed as a check on SPLP's analyses

^f Presumably the SPLP post-construction sample

^g ND, not detected

MIKE LEONARD'S PLUMBING INC.

Mike Leonard's Plumbing
337 W Chocolate Ave,
Hershey, PA 17033

Phone: (717) 533-4499
Fax:
service@mikeleonardsplumbing.com
www.mikeleonardsplumbing.com

Bill To
Michael & Frances Seligson
322 Laurel Drive
Hershey PA 17033

Ship To
Michael & Frances Seligson
322 Laurel Drive
Hershey PA 17033

Work Order #: 7635

Transaction Date: 1/10/2019

Assigned Tech: Henry T.

Invoice I6854

Description	Quantity	Price	Amount
ACID NEUTRALIZER - annual service. Treated water pre service, ph 6.5 - drain water, agilliate mineral bed, backwash unit. Drain water, add case and a half on georgia marble, backwash unit - post service running water test ph 7.	1	\$0.00	\$0.00
Georgia Marble	1.5	\$36.00	\$54.00
Plumber hourly rate, billed in 1/4 hour increments after first hour	1.25	\$120.00	\$150.00
Total:			\$204.00
Payments:			\$204.00
Balance Due:			\$0.00

Customer recognizes that aged and deteriorated plumbing fixtures, piping and appurtenances may no longer be serviceable and agree to hold Mike Leonard's Plumbing, Inc. blameless for any damages or destruction to those items as a result of conventional repair efforts. Customer understands fixture issues caused by foreign debris flowing through the water lines cannot be warrantied. Customer

Quote Q1277

Description	Amount	
UV FILTER SYSTEM - estimate to install an 8 gpm uv light after acid neutralizer. Secure to wall, tie into existing copper water lines, customer already had surge protector that acid neutralizer is plugged in to. - uv filter system and material to install \$576 - budget 1.5-2.5 hours of labor to install at \$130/hr - uv filter will require annual maintenance of replacing bulb and possibly quartz sleeve depending on clarity of water as it can cloud sleeve. We would service uv filter at same time as neutralizer, add about additional \$150 for bulb and service annually.	\$0.00	
Subtotal:		\$0.00

- WATER/WASTEWATER
- SOILS/SOLIDS
- AIR/GASES

- ATOMIC ABSORPTION
- GAS CHROMATOGRAPHY
- WET CHEMISTRY



J1132
 Jack Gaughen Realtor
 545 West Chocolate Avenue
 Hershey, PA 17033
 Attn: Lou Santangelo

November 6, 1987

MICROBIOLOGY REPORT

PROJECT NAME:	Jack Gaughen R. E.	DATE SAMPLED:	11/04/87 *
PROJ. ID. NO.:	Algier	DATE RECEIVED:	11/04/87
SAMPLE CODE:	322 Laurel Drive	DATE COMPLETED:	11/05/87
SAMPLE DESC.:	Well Water	SAMPLE COLLECTOR:	RDM
LAB SAMPLE NO.:	2257-1	SAMPLE DISCARD DATE:	11/05/87

MISCELLANEOUS PARAMETERS

<u>PARAMETER</u>	<u>DETECTION LIMIT</u>	<u>RESULT</u>	<u>UNITS</u>
Total Coliform		0	col/100ml

Comment: This analysis indicates that the sample does not exceed the drinking water limit established by the USEPA and is considered bacteriologically potable.

Respectfully submitted,
 WRIGHT LAB SERVICES, INC.

J Francine Walker

AWP:dms



Solid / Hazardous Waste
 Drinking Water (SDWA)
 Stormwater
 Wastewater (NPDES)

978 Loucks Mill Road
 York, Pennsylvania 17402-1999
 Ph. 717-852-1600
 Fax. 717-852-1601

Groundwater Monitoring
 Air Quality
 Soils and Sludges
 Industrial Pretreatment Monitoring

Apr 22, 1998

Client: Rettew Associates, Inc.

3020 Columbia Avenue

Lancaster, PA 17603

Attn: Mr. Timothy Staub
 Project: RET001/STAUB

Lab Sample Number: L6684-19

Client Sample No.: #19

Sampled By: TS 15-APR-98 10:04 *

Received By: MAS 15-APR-98

Discard Date: 06-MAY-98

Description: #19/Project 942501.09

Page: 1

Parameter	Results	Units	DL	Date Analyzed	Analyst	Method
Total Coliform Bacteria	0	col/100ml		04/16/98	SAB	SM 9222-B
Fecal Coliforms	ND	col/100ml		04/15/98	SAB	SM 9222-D
Nitrate	1.15	mg/l	1	04/17/98	ALB	SM4500NO3-D

Note:

Certified

CG:

DL = Detection Limit
 ND = Not Detected
 NA = Not Analyzed

J = Greater Than 0, but Less Than DL
 U = Undetected
 B = Analyte Present in Daily Blank



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 Toll Free 1-877-524-5227
 Fax. 717-852-1601

Aquatic & Terrestrial Toxicity Testing
 Air Quality
 Soils and Sludges
 Industrial Pretreatment Monitoring

Dec 07, 2001

Client: Rettew Associates, Inc.

3020 Columbia Avenue

Lancaster, PA 17603

Attn: Mr. Timothy Staub
 Project: RET001/STAUB

Lab Sample Number: ~~134855-23~~

Client Sample No.: #28-SELIGSON

Sampled By: TIFFANY BERRY 04-DEC-01 09:30*

Received By: GMS 04-DEC-01

Discard Date: 21-DEC-01

Description: #28-SELIGSON/CONEWAGO TOWNSHIP

Page: 1

Parameter	Results	Units	DL	Date Analyzed	Analyst	Method
Total Coliform Bacteria	0	col/100ml		12/04/01	RAB	SM 9222-B
Fecal Coliforms	ND	col/100ml	1	12/04/01	RAB	SM 9222-D

Note:

Certified

Barbara A. Culton



DL = Detection Limit
 ND = Not Detected
 NA = Not Analyzed

J = Greater Than 0, but Less Than DL
 U = Undetected
 B = Analyte Present in Daily Blank

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NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
 State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2254336 308 Laurel Dr.

Lab ID: 2254336001 Date Collected: 8/15/2017 14:10 Matrix: Drinking Water
 Sample ID: 322 Laurel Dr. Well Date Received: 8/15/2017 16:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	0.50	EPA 524.2			8/23/17 18:38	TMP	E
Ethylbenzene	ND		ug/L	0.50	EPA 524.2			8/23/17 18:38	TMP	E
Toluene	ND		ug/L	0.50	EPA 524.2			8/23/17 18:38	TMP	E
Total Xylenes	ND		ug/L	0.50	EPA 524.2			8/23/17 18:38	TMP	E
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichlorobenzene-d4 (S)	86		%	70 - 130	EPA 524.2			8/23/17 18:38	TMP	E
4-Bromofluorobenzene (S)	83.7		%	70 - 130	EPA 524.2			8/23/17 18:38	TMP	E
LIGHT HYDROCARBON GASES										
n-Butane	ND		ug/L	4.3	RSK 175			8/21/17 00:32	EGO	C
Ethane	ND		ug/L	3.3	RSK 175			8/21/17 00:32	EGO	C
Ethene	ND		ug/L	2.4	RSK 175			8/21/17 00:32	EGO	C
Isobutane	ND		ug/L	4.6	RSK 175			8/21/17 00:32	EGO	C
Methane	ND		ug/L	1.5	RSK 175			8/21/17 00:32	EGO	C
Propane	ND		ug/L	3.2	RSK 175			8/21/17 00:32	EGO	C
WET CHEMISTRY										
Alkalinity, Total	15	4	mg/L	5	S2320B-97			8/17/17 23:43	MSA	K
Bromide	ND		mg/L	0.60	EPA 300.0			8/17/17 07:39	CHW	G
Chlorine, Total Residual	ND	2	mg/L	0.10	S4500CIG-00			8/17/17 00:27	MSA	G
pH	6.90	1	pH_Units		S4500HB-11			8/17/17 23:43	MSA	K
Specific Conductance	79		umhos/cm	1	S2510B-97			8/17/17 23:43	MSA	K
Sulfate	ND		mg/L	2.0	EPA 300.0			8/17/17 07:39	CHW	G
Total Dissolved Solids	73	3	mg/L	5	S2540C-11			8/20/17 16:57	JAS	K
Total Suspended Solids	ND		mg/L	5	S2540D-11			8/17/17 13:00	C_D	G
Turbidity	ND		NTU	0.10	S2130B-01			8/16/17 22:49	MSA	G
METALS										
Barium, Total	0.14		mg/L	0.010	EPA 200.7	8/23/17 11:10	MNP	8/23/17 15:42	MNP	B
Calcium, Total	4.3		mg/L	0.10	EPA 200.7	8/23/17 11:10	MNP	8/23/17 15:42	MNP	B
Iron, Total	ND		mg/L	0.060	EPA 200.7	8/23/17 11:10	MNP	8/23/17 15:42	MNP	B
Magnesium, Total	2.4		mg/L	0.10	EPA 200.7	8/23/17 11:10	MNP	8/23/17 15:42	MNP	B
Manganese, Total	ND		mg/L	0.0050	EPA 200.7	8/23/17 11:10	MNP	8/23/17 15:42	MNP	B
Potassium, Total	2.8		mg/L	0.50	EPA 200.7	8/23/17 11:10	MNP	8/23/17 15:42	MNP	B
Sodium, Total	5.0		mg/L	0.50	EPA 200.7	8/23/17 11:10	MNP	8/23/17 15:42	MNP	B
MICROBIOLOGY										
E. Coli	ND		col/100mL	1	S9223B-04	8/15/17 19:24	AMC	8/16/17 21:26	LLJ	A
Total Coliform	>200.5		col/100mL	1	S9223B-04	8/15/17 19:24	AMC	8/16/17 21:26	LLJ	A

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Microbiology by Method 9222D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Coliform, fecal	<1		1	09/22/2017 14:35	WG1023585

Microbiology by Method 9223 B-1997

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
E. Coli	3.10		1	09/22/2017 13:30	WG1023525
Coliform, Total	105		1	09/22/2017 13:30	WG1023525

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	106		10.0	1	09/26/2017 11:21	WG1023912

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Suspended Solids	ND		2.50	1	09/25/2017 16:49	WG1023707

Wet Chemistry by Method 130.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Hardness (colorimetric) as CaCO3	35.4		30.0	1	10/01/2017 13:26	WG1025934

Wet Chemistry by Method 2130 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Turbidity	ND		0.300	1	09/22/2017 18:26	WG1023433

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	09/27/2017 15:11	WG1024710

Sample Narrative:

L938347-01 WG1024710: Endpoint pH 4.5

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	5.84	T8	1	09/23/2017 12:47	WG1023465

Sample Narrative:

L938347-01 WG1023465: 5.84 at 19.3c

Wet Chemistry by Method 9050A

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	128		1	09/28/2017 23:58	WG1025796