

January 13, 2019

Members of the House Environmental Resources and Energy Committee

Dear Representatives,

Below is a letter we originally delivered to Senate leadership in October regarding SB790. At the time, more than 100 organizations and 1,000 concerned citizens had signed the letter to express their opposition to SB790 and the way it was moved through the Senate.

We have received hundreds of additional signatures since it was originally submitted, so we are sharing it with you today to let you know that opposition to SB790 has only grown. At present, 166 organizations and 1,445 concerned citizens have signed. We are calling on you to reject the bill that would allow the dangerous practice of road-spreading of drilling waste on the state's more than 25,000 miles of unpaved roads. We also oppose the rollbacks of environmental protections elsewhere in the bill.

Here is the letter with the additional signers added.

Sincerely,

Karen Feridun, Founder, Berks Gas Truth

Dear Senators,

On October 21, the Senate passed SB 790 by a vote of 26 – 23. The vote was held as soon as the bill left the Appropriations Committee and was conducted without debate. The bill is a controversial one with many concerning provisions, including one that allows for the spreading of brine from conventional drilling on unpaved roads as a dust-suppressant. We, the undersigned, are writing to protest your refusal to follow the established process in a rush to get a win for the industry you have come to believe you represent.

Just last year, a team of PennState researchers published a peer-reviewed study that found that “in Pennsylvania from 2008 to 2014, spreading O&G wastewater on roads released over 4 times more radium to the environment (320 millicuries) than O&G wastewater treatment facilities and 200 times more radium than spill events.”ⁱ

Earlier this year, another study from PSE Healthy Energy that looked at oil and gas waste management from 1991 – 2017 found that about 30 percent of waste came from conventional drilling. Road spreading of waste was first reported in 1995.ⁱⁱ

PA Environment Digest summarized the findings reported by lead author Lee Ann Hill. “The study found 5,725,353 barrels [240,464,826 gallons] of wastewater from conventional oil and gas wells were applied to roads between 1991 and 2017. 97.9 percent of that waste -- 235,415,065 gallons-- remained in Pennsylvania and was spread on roads.”ⁱⁱⁱ

“In 2017, approximately 193,000 barrels [8.1 million gallons] of wastewater from conventional oil and gas operations were used for road spreading. This accounted for 0.3 percent of all wastewater generated in 2017, according to Hill.”^{iv}

As you know, the DEP put a moratorium on road-spreading of brine in 2018 as a result of a 2017 Environmental Hearing Board appeal. Then, in May of this year, days after the PSE Healthy Energy study was published, the Pennsylvania Grade Crude Development Advisory Council (CDAC) wrote in its Annual Report, “At public comment at various meetings during the year the presidents of PIOGA and PGCC complained to CDAC about the oil and gas production constraints and the economic hardship suffered as a result of the dwindling number of produced water options.”^v

“Among other things the presidents of the trade organizations called upon CDAC to direct its efforts to the re-initiation of the brine spreading/dust suppression program suspended by the DEP, but which had operated previously for several decades.”

Our state government has a sad tradition of catering to every whim of the natural gas industry. Among the members of CDAC are Senator Hutchinson, a co-sponsor of SB 790, Senator Yudichak, DCED Secretary Dennis Davin, DEP Secretary Patrick McDonnell, Representative Martin Causer, prime sponsor of HB 1635, a similar measure introduced in the House, and Representative Ryan Bizarro.

Doing the bidding of the natural gas industry is not your job. You are in Harrisburg to represent the best interests of Pennsylvanians. You are failing us, regularly and miserably. We call on the House to stop both SB 790 and HB 1635. Should they fail to represent our best interests, we call on Governor Wolf to commit to vetoing whichever bill reaches his desk.

Sincerely,

Organizations and Businesses:

Berks Gas Truth
350 Bucks County
350 Philadelphia
Academy of the Performing Arts, State College
Active Community Training
Advocates for Behavioral Change
Allegheny County Clean Air Now
Aquatic Research & Communication
Ban Backyard Fireworks
Ban Michigan Fracking
Beaver County Marcellus Awareness Community (BCMAC)
Better Path Coalition
Body Synergy
Breathe Easy Susquehanna County
Breathe Project

Bucks County Concerned Citizens Against the Pipelines
Bucks County Sierra Club
Bucks Environmental Action
Bucks POWA
Bullfrog Films, Inc.
Camp White Pine
Camphill Village Kimberton Hills
Center for Coalfield Justice
Center for Holistic Therapy
Chester County Marching Forward
Citizen Voices Radio Show
Clarion County Democrats
Clean Air and Water Council
Climate Reality Project: Susquehanna Valley PA Chapter
Collenbrook United Church, Drexel Hill
Complete Equine Health Service
Communities First Sewickley Valley
Concerned Citizens for Change
Damascus Citizens for Sustainability
Defend Ohi:yo'
Delaware Riverkeeper Network
Don't Gas the Pinelands
Downingtown Friends (Quaker) Meeting
Earth Rights Institute
East Goshen Safety & Environmental Advocates
East Run Hellbenders Society
EcoJustice Working Group, Thomas Merton Center
Edgmont Community Safety Group
Elk County C.A.R.E.S.
Environeers
Erie Conservation District
Every Mother is a Working Mother Network
Exact Solar
Five Elements Farm
Friends of Crystal Cave Road
Friends of the Harmed
Friends of the Sock
Gas Drilling Awareness Coalition
Goshen United for Public Safety
Greater Wyoming Valley Audubon Society
Green Party of Allegheny County
Green Party of Butler and Venango Counties
Green Party of PA
Grid Magazine
Hanover for Progress
Hay Creek Watershed Association
Hemmabast-SylvanSun Farm Co-Op
Hershey Indivisible Team, Living Our Faith of St. Joan of Arc Church

The HUB for Progress
Hungarian Evangelical and Reformed Church, Bethlehem
Indivisible Berks
Indivisible Chester County
Indivisible Poconos
Indivisible We Rise – West Central PA
Indivisible: Narberth and Beyond
Ironwood Forestry
Izaak Walton League Allegheny County chapter
Janvier Ott Inc
John Herr Photography
John Moyer, L.P.C.
Juniata Valley Audubon Society
Juniata Watershed People Before Pipelines
Justice League – Activate!
Kalinowski Photography
Kettle Creek Adventures Lodge and B&B
Knapp Time Acres
Lancaster Against Pipelines
LAWPA
Lawrenceville Clean Air Now
Lebanon Pipeline Awareness
Lenape Associates
Little Mill Creek
Living Care Home Services
LogosPlus
Magnani Insurance Service Inc.
Marcellus Outreach Butler
Merchant Services Group
More Power Marketing
Moving Toward Healthier
Municipal Water Authority of Aliquippa
Murraysville Watch
Natural Touch
Neighbors of Overbrook
Nine Mile Run Watershed Association
Nittany Valley Environmental Coalition
Northampton Community College Climate Action Network
Northcentral Pennsylvania's Alternatives to Violence
One Earth Song Project
PA-7 Citizens for Equality Action
Paradise Gardens and Farm
Patriots From The Oil & Gas Shales
Payday Men's Network
PennFuture
Pennsylvania Alliance for Clean Water and Air
Pennsylvania Council of Churches
Physicians for Social Responsibility—Pennsylvania

Pittsburgh 350 Petrochemical Action Team
PLGAS
Pneuma Institute LLC
Poetry & Pictures Inc
Poole Resources
Potter County Rights of Nature
Potter's Farm
POWA
Progressive Faith Coalition
Project CoffeeHouse
Protect Elizabeth Township
Protect Franklin Park
Protect Orange County
Protect PT
Put People First! PA
Reading for 100
Reed Group
Resolution Media Fund
Responsible Drilling Alliance
Riegelsville Concerned Citizens against PennEast.
ROCIS (Reducing Outdoor Contaminants in Indoor Spaces)
Sandy Holm Farm
SaraSteele.com
Schuylkill Pipeline Awareness
Shawnee Preservation Society
Stinnett Engineering
Stop Fracking PA
Sugar Hollow Natural Berries
Sunrise Lehigh Valley
Sustainable Monroeville
Syrena Law
The Alliance for Sustainable Communities Lehigh Valley
The E.P. Systems Group, Inc.
The Grey Nuns of the Sacred Heart
The HUB for Progress
Tioga County Indivisible
Transition Cheltenham
Tuesdays with Toomey: Allentown
Unitarian Universalist Pennsylvania Legislative Advocacy Network
Upper Burrell Citizens Against Marcellus Pollution
Upper Northumberland County Democracy in Action
Uwchlan Safety Coalition
Voice of Justice
Voice Of Westmorland
VOW
Vox Populi
We Speak for the Trees
West End Progressives

West Pikeland Township Environmental Advisory Council
Westmoreland Marcellus Citizens' Group
Williams Twp. CCAP
Women for Justice
Women of Color - Global Women's Strike
The Wordsmithy
Wyoming County We Care

Individuals:

Karen Feridun, Kutztown, 19530	Amanda Williams, Bentleyville , 15314
A Forschein, Allison Park, 15101	Amer Sajed, Devon, 19333
Abby Aristeo, Dallas, 18612	Amy Ershler, Loganton, 17747
Abby Minor, Aaronsburg, 16820	Amy Hesler, Chester Springs , 19425
Adrian Seltzer , Wynnewood, 19096	Amy Levengood, Douglassville, 19518
Adriel Rose, Reading, 19601	Amy Shorner-Johnson, Elizabethtown, 17022
Adrienne Morgado, Newtown, 18940	Ana Kostich, Philadelphia, 19143
Aimee Kemick , Ridgway , 15853	Anastasia Tsuhlares, Pittsburgh, 15224
Al Cohen, Hummelstown, 17036	Andrea Bertram, Johnstown, 15902
Alan Brintzenhoff, Fleetwood,Pa., 19522	Andrea Ferich, Woodward, 16882
Alan Hager , Oreland, 19075	Andrew Duvall, Towanda, 18848
Alan Hillyard, Tidioute, 16351	Andrew Geronino, Palmyra, 17078
Alan Parker, New Ringgold, 17960	Andrew McGrath, Philadelphia, 19130
Alanna Hartzok, Fayetteville, 17222	Andrew Thompson , Ridgway, 15853
Aleta Streett-Leavy, Butler, 16001	Ang Smith, Millheim, 16854
Alex Mulchay, Philadelphia, 19143	Angelo Taranto, Pittsburgh, 15229
Alexa Manning, Downingtown, 19335	Anissa Telle, Easton, 18040
Alexandria Ramirez, Ocala, 34471	Anita Marchegiani, Eynon, 18403
Alfred Klosterman, Philadelphia, 19134	Anita Mentzer, Hummelstown, 17036
Alice Casey, Emmaus, 18049	Anita Prizio , Pittsburgh , PA
Alice Stehle, Butler, 16001	Ann Beck, Chalfont , 18914
Alice Strauss, Tunkhannock, 18657	Ann Buki, Exton, 19341
Alicia Moyer, Allentown, 18102	Ann Demanski, Pittsburgh, 15217
Alison Metsker, Yarmouth, 4096	Ann Dixon, Philadelphia, 19143
Alissa Herrera, Williamsport, 17701	Ann Foster, Cresco, 18326
Allen & ChrisAnn Uhler, New Kensington, 15068	Ann House , Williamsport, 17701
Allen Howells, Allentown, 18104	Ann LeCuyer, Trafford, 15085
Allison MacInnes, Sheffield, 16347	Ann Marshall, Durham, 18039
Alloway, Warminster, 18974	Ann Miller, Duncannon, 17020
Aly Robbins, Wayne, 19087	Ann Murphy, Pottstown, 19465
Amala Lane, Ithaca, 14850	Ann Pinca, Lebanon, 17042
Amanda Hammond, Lyndora, 16045	Ann Sanders, Pittsburgh, 15214
Amanda Nichols, Bradford, 16701	Ann Stroble, Damascus, 18415
Amanda Rutledge, Pittsburgh, 15239	Anne Ammend, Fleetwood, 19522

Anne Baumann, Sinking Spring, 19608
Anne Fishman, Yardley, 19067
Anne Houck, Pittsburgh, PA, 15213
Anne Ritchings, Philadelphia, 19118
Anne Searer, Hummelstown, 17036
Annie D, Philadelphia, 19147
Arianne Elinich, Coopersburg, 18036
Arlene Mercurio, New Kensington, 15068
Arlene Taylor, Harrisburg, 17112
Art Satter, Beach Lake, 18405
Arthur Grim, Wyomissing, 19610
Arthur Satter, Beach Lake, 18405
Ashley Barrasso, Nazareth, 18064
Ashley Corvin, Meadville, 16335
Ashley Garay, Pottstown, 19465
Ashley Hunsberger, Langhorne, 19053
Ashley McMullen, Bethlehem, 18017
Audrey Simpson, Shavertown, 18708
Audrey Smith, State College, 16801
B David Smith, Lititz, 17543
B. Maisey, Wynncote, 19095
Badger Kopnitsky, Pittsburgh, 15210
Barb Crowe, West Chester, 19382
Barbara Curtis, Philadelphia, 19103
Barbara Durand, Easton, 18042
Barbara Jarmoska, Montoursville, 17754
Barbara L. Estomin, Williamport, 17701
Barbara Laxon, Bradford, 16701
Barbara Litt, Pittsburgh, 15217
Barbara Lowe, Coatesville, 19320
Barbara Pace, Pittsburgh, 15229
Barbara Royer, Lancaster, 17601
Barbara Sabol, Cape Coral, 33914
Barbara Sari, Buena Vista, 15018
Barbara Scanlon, Media, 19063
Barbara Sims, Export, 15632
Barbara Smith, Coatesville, 19320
Barbara Vanhorn, duncannon, 17020
Barbara White, Wilkinsburg, 15221
Barry George, Philadelphia, 19103
Beall, Lebanon, 17042
Benita J. Campbell, Burgettstown, 15021-1165
Bernadette West, Langhorne, 19047

Bernard Greenberg, West Chester, 19380
Bernard John Poole, Ligonier, 15658
Berte Rosin, Garnet Valley, 19060
Beth I Moore, Elizabeth, 15037
Beth Pyle, Lancaster, 17601
Bethany Homa, Verona, 15147
Beverly Cummings, Wyomissing, 19610
Beverly Cyr, Athens, 18810
Beverly DeSignor, Nazareth, 18064
Beverly Sheppard, West Chester, 19380
Beverly Stickle, Harrisburg, 17110
Bill Hechinger, State College, 16801
Bill Heintz, Erie, 16509
Bill Henry, Clinton, 15026
Bob and Carmen Riggs, Bethlehem, 18018
Bob Friedhoffer, Damascus, 18415
Bob Gallagher, Phila, 19116
Bob Steininger, Phoenixville, 19460
Bob, Philadelphia, 19116
Bobette Burdenski, Exton, 19341
Bogle, Williamsport, 17701
Bonnie Coughlin, Gilbertsville, 19525-9685
Bonnie Goldman Esq, Bordentown, 08505
Bonnie Stoeckl, Pequea, 17565
Borja Gutierrez, State College, 16803
Bradley Casagrande, Malvern, 19355
Brandon Morrow, Leola, 17540
Brandon, Eldred, 16731
Brenda Barnes, Lititz, 17543
Brenda Hoover, Canonsburg, 15317
Brenda L. Smith, Pittsburgh, 15217
Brenda Vance, Bulger, 15019
Brett Dolente, Kennett square, 19348
Brian Clark, Reading, 19604
Brian Hower, Bangor, 18013
Brian Rutledge, Pittsburgh, 15239
Brian Uhler, Leechburg, 15656
Briget Shields, Pittsburgh, 15217
Brittany Dilts, Slippery Rock, 16057
Brooke Woodside, Muncy, 17756
Bruce Fassero, Danielsville, 18038
Bruno DiLeccio, Philadelphia, 19147
Bryce Dawson, Pittsburgh, 15217

Bud Long, Downingtown , 19335
C. Miller, Media, 19063
Caitlyn Geist, Royersford, 19468
Caren Leonard, Easton, 18042
Caren Quinn, Oil City, 16301
Carina Vretman, Pen Argyl, 18072
Carla Colangelo , Allentown, 18104
Carla Z Mudry, Malvern, 19355
Carlos Jimenez DVM , Coatesville, 19320
Carm Barker, Mills, 16937
Carol Anne Donohoe, Blandon, 19510
Carol Carmon, Media, 19063
Carol D'Orazio , Jamison , 18929
Carol Eisenlohr, Merion Station, 19066
Carol Farley, Fallsington/Levittown , 19054
Carol Fleischman, Ardmore, 19003
Carol French, Ulster, 18850
Carol Hawley, Watsontown, 17777
Carol Lawson, Beach Lake, 18405
Carol Pharo, State College, 16801
Carol Poleno, New Castle, 16105
Carol Shumway, Canadensis, 18325
Carolin Rasmussen, Bethlehem, 18018
Carolin Schellhorn, Ardmore, 19003
Caroline Cotugno , Croydon , 19021
Caroline Hughes, West Chester, 19380
Carolyn Barcomb, Media, 19063
Carolyn Hill, Philadelphia, 19144
Carolyn Knapp, Ulster, 18850
Carolyn Mizanty, Eynon, 18403
Carolyn Steglich, Harrisville, 16038
Carolyn Treadway, Lacey, 98503
Carolyn Van Zandt, Middletown, 17057
Carolyn Wells, Dimock, 18801
Carolyn, Media, 19063
Carrie Gross, Exton, 19341
Carrie Rodzwick, Upper St. Clair, 15241
Cassandra DeLong, Milton, 17847
Cassandra Miller , New Cumberland, 17070
Catherine Borges , Doylestown, 18902
Catherine Folio, Effort, 18330
Catherine Kimock, Bethlehem , 18018
Catherine L. Ciprich, Tunkhannock, 18657

Cathy Spahr, Upper Chichester, 19061
Cathy Wolfe, Bernville, 19506
Cecelia Hard, Pittsburgh, 15215
Celia Janosik, Sewickley, 15143
Chad Sample, Mackeyville , 17750
Char Magaro, Enola, 17025
Charles Hendzel, McKees Rocks, 15136
Charlie Millman, Plymouth Meeting, 19462
Charlotte Glauser, Philadelphia, 19103
Chase Holden, Allentown, 18104
Chase Holden, Emmaus, 18049
Chelsea Cramer, Montoursville, 17754
Chelsea Hill, Bethlehem , 18015
Cheryl Champy, Media, 19063
Cheryl Miller, Clarion, 16214
Cheryl Schlenker, Media, 19063
Cheryl Spaulding, Downingtown, 19335
Cheryl Veith, Buffal Mills, 15534
Cheryl Whittaker, Kennett Square , 19348
Chip Des, Damascus, 18415
Cho, Ben Avon, 15202
Chris DiGiulio, Downingtown , 19335
Chris Galanos, Monroeville, 15146
Chris Harrold, Greensburg, 15601
Chris Ozbun , Wynnewood, 19096
Chris Schmoyer, Coudersport, 16915
Chris Siewers, Pittsburgh, 15233
Christa Vanderbilt, Kennett Square, 19348
Christal Lepak, Erie, 16508
Christina L. Surowiec, Gwynedd, 19436
Christina Munko, Vandergrift , 15690
Christina Wildrick , Avondale , 19311
Christine Adams , Mayport , 16240
Christine Allen, Sewickley, 15143
Christine Charnock, Williamsport, 17701
Christine Griffin, Bethlehem, 18017
Christine Hunsinger, Pittsburgh, 15227
Christine L. Plunkett, Washington, 15301
Christine Russell, King of Prussia, 19406
Christine Snow , Elverson, 19520
Christine Talley, Allentown, 18102
Christopher Dunham, Feasterville, 19053
Christopher Fasching, Easton, 18042

Christopher Salazar, Media, 19063
Chrys Morris, Wampum, 16157
Cindy Murdough, Robesonia, 19551
Cindy Pickett, Laceyville, 18623
Cindy Tenaglia, Langhorne, 19047
Cindy Tricoski, Bechtelsville, 19505
Claire M. Cohen, Pittsburgh, 15206
Clare Finkel, Levittown, 19057
Claude B Magnani, Levittown, 19054
Cleopatra Matheos, Milford, PA, 18337
Clyde, Fleetwood, 19522
Cohen, Ardmore, 19003
Colleen Foley , Lawrenceville , 16929
Colleen Hiban, Washington Crossing , 18977
Conchita Braun, Reading, 19611
Connie Berni, Cresco, 18326
Connie Hahn, Hanover, 17331
Connor Young, Exton, 19341
Constance Beadle, Morrisville, 19067
Constance Foresman, Hughesville, PA, 17737
Constance Graham, Hingham, 2043
Courtney Millard, Fairless Hills, 19030
Craig Stevens, Montrose, 18801
Croitiene ganMoryn, Ocala, 34480
Crystal Kraynik, Butler, 16001
Curt Doll, Coopersburg, 18036
Curtis Holgate, Lancaster, 17601
Cynthia Gathers, Erie, 16504
Cynthia Marczuk, Harleysville, 19438
Cynthia Miller, East Stroudsburg, 18301
D L Bostaph, Erie, 16505
Dana Christensen, Bethlehem, 18015
Dana Kelley, Narberth, 19072
Dana Kneisley, Willow street, 17584
Dana Orsini, Pittsburgh, 15206
Dana Stuchul, State College, 16801
Dana Trainor, Canonsburg, 15317
Danece Jones, Scranton, 18504
Daniel Bencsik, Souderton, 18964
Daniel Safer, Philadelphia , 19104
Daniel Stevens, Allentown , 18017
Daniel Walker, Philadelphia, 19148
Daniel Wolk, Penn Valley, 19072

Dara Bortman, Yardley, 19067
Darin Freeman, Bala Cynwyd, 19004
Darlene Dech, Sewickley, 15143
Darlene Leslie , Murrysville, 15668
Darren Bolton, Philadelphia, 19139
Dave McKolanis, Falls Creek, 15840
Dave Ringle, Macungie, 18062
David Banks, Williamsport, 17701
David Cardellino, Cross Fork, 17729
David Dunn , Bethlehem , 18017
David E Dillman, Chester Springs, 19425
David Fischer, Brooklyn, 11215
David Friedman, Pittsburgh, 15232
David Friedman, Pittsburgh, 15232
David Geckle, Coatesville, 19320
David Kagan, Jersey Shore, 17740
David Kenosian , Berwyn, 19312
David Lampe, Glenshaw, 15116
David Meiser, Pipersville, 18947
David Moorehead, McDonald, 15057
David Nelson, Levittown, 19056
David Thomas Roberts, Bellefonte, 16823
David Way, Pottstown, 19464
David Wiley, Philadelphia, 19143
David Williams, Monroeville, 15146
David York, Akron, 17501
David, Creekside, 15732
Dawn Kingston , Tunkhannock, 18657
Dean Kendall, Philadelphia, 19144
Dean Marshall , Benton , 17814
Deb Rhoads, Fleetwood , 19522
Debbie Laurune, Seven Fields, 16046
Debbie Westmoreland, Gettysburg, 17325
Debby Rabold , Effort, 18330
Debi Slatkin, U Blk Eddy, 18972
Debi Slatkin, Upper Black Eddy, 18972
Deborah Barndt, Waynesboro, 17268
Deborah Caley , Finleyville, 15332
Deborah Devers, York, 17401
Deborah Emin, East Stroudsburg, 18302
Deborah Fitzgerald, Pittsburgh, 15220
Deborah Larson, Pittsburgh, 15228
Deborah Platt, Point Pleasant, 18950

Deborah Rhoads, Fleetwood, 19522
Deborah Zacierka, Slatington, 18080
Debra Borowiec, Murrysville, 15668
Debra Brandis , Export , 15632
Debra George, Reading, 19601
Debra Kristy Means, Sheffield, 16347
Debra Lombard, New Orleans, 70119
Debra Smit, Pittsburgh, 15228
Debra Stern, Exton, 19341
Debra Torok, Pomeroy, 19367
Debra Wontor, Lords Valley, 18428
Dee Kochirka , Pittsburgh , 15236
Denise Heid, Wellsville, 14895
Denise McKee, Dushore, 18614
Denise Pettit, Springfield, 19064
Dennis Andrews, Easton, 18042
Devon Van Horn, Selinsgrove, 17870
Diana Griffen, Exton, 19341
Diana Hulboy, Philadelphia, 19128
Diane Bardol , Philadelphia , 19116
Diane Bastian , Liberty , 16930
Diane Brady, Shawnee on the Delaware, 18356
Diane DiFante, Clearfield , 16830
Diane Kelly, Levittown, 19055
Diane Kuc, Camp Hill , 17011
Diane Quick, Birdsboro, 19508
Diane Sniezek, New Castle, 16101
Dianne Burnham, Pittsburgh, 15221
Dianne Moore, Narberth, 19072
Donald Gleiter, Warminster, 18974
Donald Myers, Philadelphia, 19135
Donald Roaenberger, Three Springs, 17264
Donald Suss, Downingtown, 19335
Donald Telle, Easton, 18040
Donna Adipietro, Fair Oaks, 15003
Donna C Sorensen, Nazareth, 18064
Donna Chopyak, White Haven, 18661
Donna Fellenberg , Tyler Hill, 18469
Donna Grecian, Quakertown , 18951
Donna Haagen, Bushkill, 18324
Donna Kaskus, Tunkhannock, 18657
Donna Martinez, Browns Mills, 08015
Donna Miller, Lower Burrell, 15068

Donna Shuey, West Chester, 19380
Donna Snyder, Hamburg, 19526
Dorothea Owen, Newtown Square, 19073
Dorothy Aylward, State College, 16801
Dorothy Bikle , Hummelstown , 17036
Doug Lorenzen, Mt. Gretna, 27065
Douglas Campbell, Point Marion, 15474
Douglas Cowen, State College, 16801
Douglas Hunt , Haverford, 19041
Douglas Kurtz, Narvon, 17555
Douglas Robinson, Kennett Sq, 19348
Dr Bob Allen, State College, 16801
Dr. Bob Allen, State College, 16801
Dr. E. D. Thornton, York, 14702
Drew Lynch, Mechanicsburg , 17055
Dwayne Heisler , Catawissa , 17820
E D, Newport, 17074
E. Christopher Payne, Bethlehem, 18015
E. Duby, Kempton, 19529
E. Kevin McGlynn, Flourtown, 19031
Ed Bauer, Lionville, 19353
Ed Gragert, Milford, 18337
Ed Gruver , Lancaster , 17601
Edie Ondrusek, Aliquippa, 15001
Edward Chute, Pittsburgh, 15243
Edward Doogan, Glenside, 19038
Edward Esler, Lansdowne, 19050
Edward Hunt, West Chester, 19380
Edward J DiCesare, Pottstown, 19465
Edward Tuohy's , Wallingford, 19086
Edwina Naylor, Wyomissing, 19610
Eileen Orvis, East Stroudsburg, 18301
Eileen Reed, Newtown, 18940
Eileen White, Philadelphia, 19115
Elaine Cury, Spring City, 19475
Elaine Rybski, Pittsburgh, 15206
Eleanor Covert, Pittsburgh, 15208
Eleanor Harty, Jenkintown, 19046
Eleanor Sharp, Murrysville, 15668
Eleanor, Glen Mills, 19342
Eliana Baccas, Washington Crossing, 18977
Elisa Beck, Monroeville , 15146
Elisabeth Hoffman, Lancaster , 17602

Elisabeth, Lexington, 24450
Elise Kucirka Salahub, Lebanon, 17042
Elissa Weiss, Glenshaw, 15116
Elizabeth Balogh, Riegelsville , 18077
Elizabeth Cates, Leesport, 19533
Elizabeth Crofts, Upper Southampton, 18966
Elizabeth Karpinski, Norristown, 19403
Elizabeth Loser, Hanover, 17331
Elizabeth Lukens, Philadelphia, 19119
Elizabeth Martin, Pittsburgh, 15232
Elizabeth Mozer, Binghamton, 13905
Elizabeth Schongar, South Park, 15129
Elizabeth Seltzer, Parkside, 19015
Elizabeth Shober, Lafayette Hill, 19444
Elizabeth Terry, Mechanicsburg , 17050
Ellen Asbell, Boyertown, 19512
Ellen Gerhart, Huntingdon, 16652
Ellen Schadl, Malvern, 19355
Ellen Shenk, Harrisburg, 17110
Ellen Tiberino , Philadelphia , 19104
Elsa Winch, Lock Haven, 17745
Emily Abendroth, Philadelphia, 19143
Emily Cleath, Pittsburgh, 15201
Emily Dobson, Coatesville, 19320
Emily Petrucci, Media , 19063
Emily Uliana, Pen Argyl, 18072
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Emma Young, Philadelphia, 19119
Eric Emrich , West Chester , 19382
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Erica Jackson, Pittsburgh, 15217
Erica Mohr, Catasauqua, 18032
Erin Cosgrove, Sewickley, 15143
Erin Farmer, Manheim, 17545
Erin Johnson , Swarthmore , 19081
Erin Kelley, Beaver Falls, 15010
Espamer, Camp Hill, 17011
Esther Gilbert, Philadelphia, 19119
Eugene Mariani, Carnegie, 15106
Eurhi Jones, Bala Cynwyd, 19004
Fairfax Hutter, Lawrenceville, 08648
Faith D'Urbano, Lancaster, 17603

Faith Zerbe, Drexel Hill, 19026
Faith Zerbe, Pine Grove, 17963
Felicia Lewis, Philadelphia, 19103
Felicity Jeans, Kimberton, 19442
Florence Buckley , Philadelphia , 19144
Fran Sieber, Downingtown, 19335
Frances Gilmer, Shipperville, 16254
Frances Lorie, Doylestown, 18901
Frank Ayers, Altoona, 16602
Frank Blaskowitz, Beaver, 15009
Frank Briggs, Pittsburgh, 15206
Frank Brofft, Doylestown, 18902
Frank Brofft, Doylestown, 18902
Frank Claps, Springfield Twp., 18055
Frank Vermeulen, Valencia, 16059
Franke von Engel, Wind Gap, 18091
Franklin Russell, Havertown, 19083
Frech, Downingtown, 19335
Fred Bickerton, McKeesport, 15135
Fred Veith, Buffalo Mills, 15534
G Price, Murrysville, 15668
G. Osburn, Guttenberg, 52052
Gail Brown, Clarks Summit, 18411
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ⁱ [Environ. Sci. Technol. 2018 52 12 7081-7091](#)

ⁱⁱ [Science of The Total Environment 2019 674 623-636](#)

ⁱⁱⁱ [PA Environment Digest May 20 2019](#)

^{iv} Ibid.

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