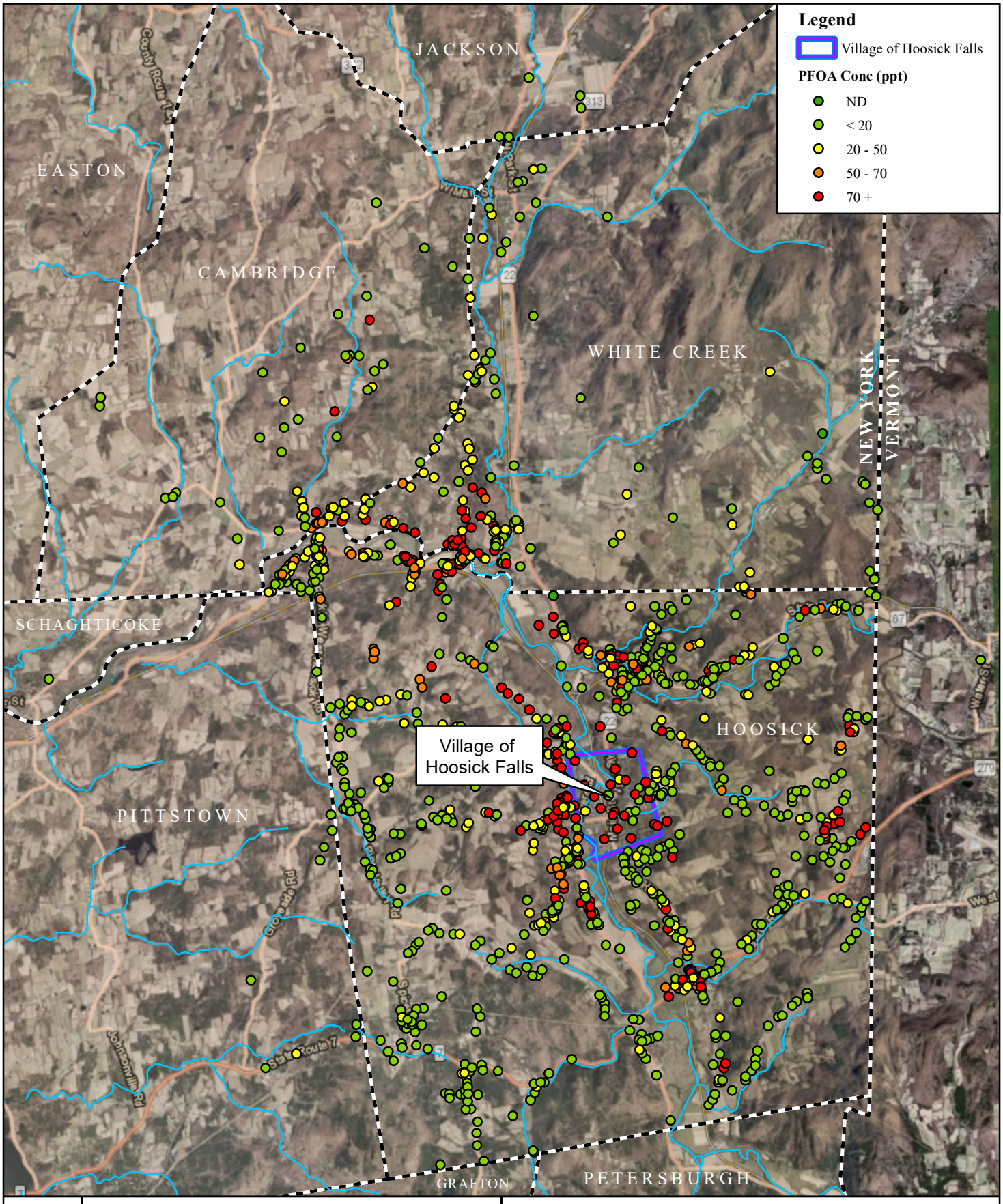
Appendix A – NYSDOH Private Well Sampling Results



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CHA
design/construction solutions

NYSDOH Private Well Sampling
PFOA Results Map as of April 16, 2019

Hoosick Falls Alternative Water Supply Study
Village of Hoosick Falls, Rensselaer County, New York

Scale 1" = 10,000'	CHA Project No. 32091
June 2019	

Map Credit: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Appendix B – Public Water Systems in New York State Relying on GAC Treatment and Public Water System Treatment Data

Appendix B1
Public Water Systems in New York State (LI) Relying on GAC Treatment

NYS (LI) Municipal Water Supplies	Description of GAC Treatment	Population* served	GAC?	%GAC	Wells	GAC wells	Citation
	----Nassau----						
Albertson Water District		13,500	N				
Bayville		8,800	N				
Bethpage Water District	The source of water for the District is groundwater that is pumped from nine (9) wells, however only eight (8) of these wells are used for production to the distribution system. Granular Activated Carbon (GAC) filters are used at Plant No. 1 (Well 7A & 8A) and Plant BGD (Well No. BGD) for primary VOC removal and, Plant No. 4 (Well 4-1 & 4-2) and Plant No. 6 (Well 6-1 & 6-2) for secondary polishing after air stripping (thus 7/8 wells, or 87.5%).	33,000	Y	87.5%	8	7	http://bethpagewater.com/Portals/0/Content/2016%20AWQR%20PMG_1.pdf
Carle Place Water District			N				
City of Glen Cove	The source water for the City is groundwater pumped from four (4) wells located throughout the community; source water from two (2) Duck Pond Road wells are treated by granular activated carbon filters to remove various organic chemicals and pesticides (thus 50% of wells treated with GAC filters).	28,000	Y	50.0%	4	2	http://www.glencove-li.us/wp-content/uploads/2015/02/doc04640420170531090738.pdf
City of Long Beach			N				
Farmingdale Village			N				
Franklin Square Water District	Five (5) wells located throughout the community; at Well Nos. 4 and 5, a granular activated carbon (GAC) filter system is installed for the removal of organic compounds that have been found in the water (i.e. 2/5 use GAC, or 40%).	20,000	Y	40.0%	5	2	http://www.fswd.org/wp-content/uploads/2017/04/2016-Water-Quality-Report.pdf
Freeport Village			N				
Garden City Park Water District	The source of water for the District is groundwater pumped from the six (6) wells located throughout the community; a granular activated carbon filter is used at Well No. 6 and 11 for the removal of volatile organic compounds (i.e. 2/6, or 30% use GAC systems). The population served by the Garden City Park Water District during 2016 was 18,000.	18,000	Y	33.3%	6	2	http://www.gcpwater.org/WaterNews/Water2017/DrinkingWaterQuality_2017.pdf
Garden City Village	Air strippers and granular activated carbon treatment are used to remove Volatile Organic Compounds from the water prior to distribution. All of the water supplied by the Water Authority comes from groundwater drawn from 24 drilled wells		Y				http://www.wawnc.org/cm/downloads/WAWNC_AWQR_2015.pdf
Hicksville Water District		47,810	N				
Lido-Point Lookout Water District		6,000	N				
Locust Valley Water District		7,500	N				
Manhasset-Lakeville Water District	Volatile organic chemicals found in our source water are removed using air stripping (aeration) or carbon filtration (adsorption). Currently, 10 of our 14 active wells have shown trace levels of volatile organic chemicals. The District currently operates seven treatment plants to remove these chemicals from our public supply. The District continues to strive for 100% non-detectable levels of all organic constituents in our finished water. About 45,000 people served in 2016.	45,000	Y				http://www.mlwd.net/pdf/2016WaterQualityReport.pdf
Massapequa Water District		43,000	N				
Merrick Operations District-Nassua County	A total of 16 wells in the system. Granular Activated Carbon (GAC) to remove organics at one well location (US Navy / Northrop-Grumman plume site).	177,000	Y	6.3%	16	1	http://www.amwater.com/ccr/merrick.pdf
Mineola Village		20,600	N				
Old Westbury Village		4,700	N				
Oyster Bay Water District	The source of water for the District is groundwater pumped from five (5) wells. A granular activated carbon treatment system is used at Plant No. 2 – Shutter Lane (assuming each plant has one (1) well, 1/5 or 20% use GAC treatment). The population served by the Oyster Bay Water District during 2016 was 8,500	8,500	Y	20.0%	5	1	http://www.oysterbaywaterdistrict.com/pdfs/ccr2016.pdf
Plainview Water District	The source of water for the District is groundwater pumped from 12 wells. Carbon adsorption treatment systems are available for Well Nos. 1-2 and 3-2 for the removal of volatile organic compounds (2/12, or . The population served by the Plainview Water District during 2016 was 34,000.	35,000	Y	16.7%	12	2	http://www.plainviewwater.org/documents/2016PLWDAWQR.pdf
Plandome Village		1,350	N				https://static1.squarespace.com/static/55009372e4b071f72529ac6e/t/59302d3e1e5b6ce47db010e4/1496329534902/supply+statement+2016.pdf
Port Washington Water District	The water source for the Port Washington Water District is groundwater pumped from 12 wells. Granulated activated carbon (GAC) adsorption facilities are used for organic chemical removal at five wells (5/12, or 41.7%). Our water system serves approximately 30,000 residents.	30,000	Y	41.7%	12	5	http://pwwd.org/wordpress/wp-content/uploads/2017/05/PWWD-2016-Water-Quality-Report.pdf
Rockville Centre Village		24,700	N				
Roslyn Water District	Eight common suction wells ranging in depths from 260 feet to 555 feet are located on a well field in the Inc. Village of Roslyn. Two (2) wells treated with granulated activated carbon for treatment of organic contaminants (2/8, or 25%). Served 17,900 in 2015.	17,000	Y	25.0%	8	2	http://www.roslynwater.org/qr.html http://www.roslynwater.org/rwd-pdf/2016/AWQR%202015%20Final.pdf
Sea Cliff Water		5,054	N				http://www.amwater.com/ccr/seacliff.pdf
South Farmingdale Water District	All water provided through our District is groundwater pumped from 11 wells located throughout the community. The District also operates one (1) granular activated carbon treatment system to remove 1,1-Dichloroethane (1,1-DCA) from Well No. 5-1 at Plant No. 5 (thus 1/11 wells, or 9.1%). 44,700 served in 2016.	44,700	Y	9.1%	11	1	http://sfwater.com/wordpress/wp-content/uploads/2017/05/SFWD-Spring-2017-Water-Report.pdf
Town of Hempstead-Nassau County (Bowling Green Estates, East Meadow, Levitown, Roosevelt Field and Uniondale)	A total of 29 wells in the system. Water is also treated for organic constituents at nine locations. Organic compounds are removed through granular activated carbon filtration and/or packed tower aeration (9/29=31%)	117,361	Y	31.0%	29	9	https://toh.li//files/pdfs/cs_water-2016-all.pdf
Water Authority of Great Neck North		32,400	N				http://www.waterauthorityofgreatnecknorth.com/waterquality.pdf
Water Authority of Western Nassau County	A total of 24 wells in the system. Air strippers and granular activated carbon treatment. Treatment facilities are used to remove Volatile Organic Compounds from the water prior to distribution. These compounds have entered the water supply as a result of improper disposal practices by industries and have been detected in groundwater.Air strippers and granular activated carbon treatment are the treatment approcahes used.	120,000	Y				http://www.wawnc.org/cm/downloads/WAWNC_AWQR_2016.pdf
West Hempstead Water District		32,031	N				
Westbury Water District		20,500	N				
Williston Park Village		7516	N				
	Total with system descriptions (i.e. Y/N descriptor)	969,022	33		116	34	
	Number of systems with GAC		14			29.3%	
	Population served by a PWS that includes GAC	693,561					

		-----Suffolk-----					
Brookhaven National Labs		3,500	N				https://www.bnl.gov/water/process.php
Dix Hills Water District	Water sourced from 17 groundwater wells. GAC filters installed at Plants 1, 5, and 8 to remove VOCs (assuming one (1) well per plant, 3/17 or 17.6%). Served population of 41,000 in 2015.	41,000	Y	17.6%	17	3	http://www.huntingtonny.gov/filestorage/13749/13847/16804/16820/Dix_Hills_Water_2016_Water_Report.pdf
Greenlawn Water District	The source of water for the District is groundwater pumped from 13 active wells. Granular activated carbon filters are also installed at Plant Nos. 8, 11 and 13 to treat potable water for the removal of volatile organic compounds (3/13. or 23.1% using GAC systems). 42,00 served in 2015.	42,000	Y	23.1%	13	3	http://www.greenlawnwater.org/wp-content/uploads/2016/05/2015_GLWD_Drinking_Water_Quality_Report_5-23-16_a.pdf
Greenport Village**		2,050	N				http://villageofgreenport.org/files/15-04-24-FINAL-2014-AWQR.pdf
Hampton Bays Water District		12,500	N				http://www.southamptontownny.gov/DocumentCenter/Home/View/4394
Ocean Beach Village		4,500	N				http://www.villageofoceanbeach.org/pdfs/2016/drinking-water-quality-report-2.pdf
Riverhead Water District		35,000	N				
Smithtown WD**	Served 20,530 in 2016	19,635	N				http://www.smithtownny.gov/DocumentCenter/View/2264
South Huntington Water District	The source of water for the District is groundwater pumped from 23 wells. Granular activated carbon filters are installed at Well Nos. 3-2/3-3, 4, 6, 7-1/7-2, 8, 15-1/15-2 and 20 for the removal of volatile organic chemicals (asuming each #/# pair is one well, 7/23 or 30.4% use GAC systems). The population served by the South Huntington Water District during 2016 was 81,760.	81,760	Y	30.4%	23	7	http://www.shwd.org/PDF%20Documents/SHWD_WQR_JAN2016_FinalREV.pdf
St James WD**	Served 11,810 in 2016	11,810	N				http://www.smithtownny.gov/DocumentCenter/View/2265
Suffolk County Water Autority	Approximately 26% of our wells (586 active wells in system) receive treatment using granular activated carbon filtration to remove pesticides/ herbicides and volatile organic compounds. Packed Tower Aeration (PTA) units also called air strippers, ion exchange, reverse osmosis, and perchlorate resin filters are also used as needed. In some cases wells are blended together at the pump station to lower the amount of contaminants, such as nitrate and perchlorate, in the water we serve. Since January 2013, the SCWA Laboratory has been testing for fluorinated organic chemicals. Where positive detects of fluorinated organic chemicals were found, the Authority has been very pro-active with treatment. In some cases wells were blended together to lower concentration levels, and where levels were not acceptable for SCWA standards, the wells were taken out of service. We are currently installing granular activated carbon (GAC) filtration units at certain sites to treat for these compounds.	1,100,000	Y	26.0%			http://s1091480.instanturl.net/dwqr2017/AWQR2017_FINAL_052517.pdf
	Total with system descriptions (i.e. Y/N descriptor)	1,353,755	11		53	13	
	Number of systems with GAC		4			24.5%	
*Pop values obtained from either WQRs or SDWIS database	Population served by a PWS that includes GAC	1,264,760	36.4%				

Appendix B2 - Public Water System Treatment Data

Public Water System Name	State	Population Served	Contaminants Treated	GAC Treatment	Other Treatments	Category	References & Links
West Morgan - East Lawrence Water Authority	AL	26,130	PFOA, PFOS	Yes (temp installed in December 2016)	Initially blended/diluted and bought from another source: RO planned to be installed by 2020	B2	http://www.decaturdaily.com/news/lawrence_county/west-morgan-east-lawrence-water-no-longer-blended-with-du/article_c5fe0959-9883-5938-9865-27d397f9b459.html Court Final Approval Order (2017) https://www.courthousenews.com/wp-content/uploads/2017/05/Water-settlement-order.pdf http://www.decaturdaily.com/news/local/officials-say-west-morgan-east-lawrence-water-safe-customers-still/article_fce72eb0-ce83-58de-bac2-f9fc206ea163.html http://www.rocketcitynow.com/news/daikin-settles-with-west-morgan-east-lawrence-water-authority/543019530 http://www.al.com/news/index.ssf/2016/06/north_alabama_drinking_water_c.html http://wmel.org/wp-content/uploads/2018/05/2017-quality-report.pdf https://whnt.com/2019/05/09/after-3-years-of-uncertainty-lawrence-county-residents-have-28-5-million-promise-of-clean-drinking-water/ http://adem.alabama.gov/newsEvents/reports/PFASDrinkingWaterSystemReport.pdf
West Lawrence Water Co-op	AL	14,517	PFOA,PFOS	GAC installed on source (West Morgan)	Eliminated impacted source water	A1	http://www.waff.com/story/32133025/west-lawrence-water-customers-to-switch-water-supply
Gadsden Waterworks & Sewer Board (Et	AL	46,551	PFOA, PFOS	GAC installed in January 2019		A1	http://gadsdenwater.org/files/HealthDepartmentPressRelease_09162016.pdf http://gadsdenwater.org/files/GWWSB_FiledComplaint_09222016.pdf https://www.al.com/news/anniston-gadsden/2019/03/gadsden-water-works-builds-5m-filter-to-meet-epa-health-advisory.html http://adem.alabama.gov/newsEvents/reports/PFASDrinkingWaterSystemReport.pdf
Centre Water Works and Sewer Board	AL	6,108	PFOA,PFOS	To begin construction of GAC	Blend/dilute; buy from another source	A2	http://wiat.com/2016/05/20/gadsden-water-works-suing-textile-manufacturers-after-water-put-under-health-advisory-months-ago/ https://www.al.com/news/anniston-gadsden/index.ssf/2017/05/state_warns_centre_residents_a.html https://www.centrewaterworks.com/pfoa---pfos-test-results.html
Northeast Alabama Water System (DeKal	AL	11,748	PFOA,PFOS		Eliminated impacted source water	F	http://southerntorch.com/dekalb-water-determined-safe-drinking/ http://adem.alabama.gov/newsEvents/reports/PFASDrinkingWaterSystemReport.pdf

Appendix B2 - Public Water System Treatment Data

Public Water System Name	State	Population Served	Contaminants Treated	GAC Treatment	Other Treatments	Category	References & Links
Rainbow City Utilities Board (Etowah)	AL	10,800	PFOA, PFOS			F	http://wiat.com/2016/05/20/gadsden-water-works-suing-textile-manufacturers-after-water-put-under-health-advisory-months-ago/ http://www.rbcwater.net/docs/RBCWater2016.pdf http://adem.alabama.gov/newsEvents/reports/PFASDrinkingWaterSystemReport.pdf
Southside Waterworks (Etowah)	AL	37,500	PFOA, PFOS		Eliminated impacted source water	F	http://wiat.com/2016/05/20/gadsden-water-works-suing-textile-manufacturers-after-water-put-under-health-advisory-months-ago/ http://www.cityofsouthside.com/Default.asp?ID=151&pg=Council+Minutes&action=view&aid=626&hilite=PFOA
V.A.W. Water System Inc. (Vinemont Anc	AL	14,958	PFOA,PFOS		Eliminated impacted source water	F	http://www.cullmantimes.com/news/vaw-water-system-under-health-advisory-temporarily-switches-to-cullman/article_adc1caae-211d-11e6-b79a-7fcbe40aa53e.html http://vawwater.com/
Oatman Water Company (Mohave)	AZ	536	PFOA, PFOS		Evaluating options	C	https://www.atsdr.cdc.gov/HAC/pha/OatmanWaterCompany/Oatman_Water_Company_HC_(final)_11-14-2016_508.pdf https://theintercept.com/2016/05/19/with-new-pfoa-drinking-water-advisory-dozens-of-communities-suddenly-have-dangerous-water/
City of Tempe (Maricopa)	AZ	165,000	PFOA,PFOS		Eliminated impacted source water	F	http://www.wranglernews.com/2016/06/03/tempe-takes-corrective-action-meet-epa-water-regs/
Liberty Water LPSCO	AZ	45,298	PFOA, PFOS	GAC Treatment	Eliminated impacted source water	A1	http://static.azdeq.gov/wqd/reports/pfoapfosepareport_final.pdf https://arizona.libertyutilities.com/uploads/LP_CCR_16.pdf
City of Tucson	AZ	675,686	PFOA, PFOS		Eliminated impacted source water; blend/dilute	F	http://static.azdeq.gov/wqd/reports/pfoapfosepareport_final.pdf https://www.tucsonaz.gov/water/pfas
Salt River Public Works (Pima-Maricopa I	AZ-I	35,470	PFOS			X	https://bloximages.newyork1.vip.townnews.com/postguam.com/content/tncms/assets/v3/editorial/3/a1/3a13e9f8-d0cf-11e7-b141-572426bf3c32/5a179f0f2c0d7.pdf.pdf
CA Water Service - Visalia	CA	132,158	PFOS		Eliminated impacted source water; blend/dilute	F	https://www.calwater.com/waterquality/pfospfoa/ https://www.calwater.com/docs/ccr/2016/vis-vis-2016.pdf
City of Lathrop (San Joaquin)	CA	12,427	PFOA, PFOS			X	0
CA American Water Co. – Suburban (Sac	CA	33,914	PFOS, PFOA		Eliminated impacted source water	F	https://amwater.com/caaw/news-community/news/id/489
Eastern Municipal Water District (Riversid	CA	503,700	PFOA, PFOS			C	https://www.scpr.org/news/2016/08/12/63545/water-agencies-shut-down-wells-after-discovering-h/

Appendix B2 - Public Water System Treatment Data

Public Water System Name	State	Population Served	Contaminants Treated	GAC Treatment	Other Treatments	Category	References & Links
City of Corona (Riverside)	CA	155,896	PFOA, PFOS		RO Evaluating other options; eliminate impacted source water	B1	http://discovercoronadwp.com/about/pfoa-info.shtml
City of Anaheim	CA	346,823	PFOA,PFOS		Eliminated impacted source water	F	http://www.scpr.org/news/2016/08/12/63545/water-agencies-shut-down-wells-after-discovering-h/?slide=2
City of Orange	CA	138,640	PFOA,PFOS		Eliminated impacted source water	F	https://www.cityoforange.org/1243/Water-Quality
Yorba Linda Water District	CA	77,513	PFOA, PFOS		Evaluating options; blend/dilute	C	https://ylwd.com/news-publications/26-water-quality
CA Water Service – Chico (Butte)	CA	97,274	PFOS, PFHXSA		Evaluating options blend/dilute; eliminate impacted water source	C	https://www.calwater.com/waterquality/pfospfoa/ https://www.calwater.com/docs/ccr/2016/ch-ch-2016.pdf
Santa Clara Valley Water District (2 pump	CA	93,300 + 15,300	PFOS			G	http://www.sanjoseca.gov/DocumentCenter/View/19738http://www.valleywater.org/services/TheWaterTre
City of Pica Rivera Water Deptment	CA	40,605	PFAS			X	https://www.waterboards.ca.gov/pfas/docs/7_investigation_plan.pdf
City of Fountain	CO	20,000	PFOA,PFOS	Yes	Blend/dilute	A1	https://www.fountaincolorado.org/department/division.php?structureid=328 http://www.denverpost.com/2017/06/29/air-force-filter-fountain-colorado-contaminated-water/ http://www.denverpost.com/2017/06/29/air-force-filter-fountain-colorado-contaminated-water/ Information on City of Fountain website
Security WSD	CO	19,000	PFOA,PFOS		Eliminated impacted source water	F	http://securitywsd.com/wp-content/uploads/2017/05/Security-fact-sheet-updated-2_11_16.pdf
Widefield WSD	CO	18,343	PFOA,PFOS			H	http://securitywsd.com/wp-content/uploads/2017/05/Security-fact-sheet-updated-2_11_16.pdf https://www.colorado.gov/pacific/sites/default/files/KLR_PFCs%20in%20the%20Widefield%20Aquifer_WQCC_031317.pdf http://www.denverpost.com/2017/06/29/air-force-filter-fountain-colorado-contaminated-water/ https://www.colorado.gov/pacific/cdphe/PFCs/water/levels https://jdshydro.com/2017/05/widefield-water-and-sanitation-district/

Appendix B2 - Public Water System Treatment Data

Public Water System Name	State	Population Served	Contaminants Treated	GAC Treatment	Other Treatments	Category	References & Links
New Castle Artesian Water Company (Ne	DE	211,494	PFOA,PFOS	Yes	Eliminated impacted source water	A1	https://pfasproject.com/new-castle-delaware/ https://www.delawarepublic.org/post/water-contamination-worries-grow-feds-probe-new-castle-nat-l-guard-base-seek-weaker-cleanups https://www.delawareonline.com/story/news/local/2018/02/13/sussex-county-town-marks-fourth-site-known-pfcs-contamination-delaware/335173002/
New Castle Water Dept	DE	6,000	PFCs	Yes		A1	Municipal meeting minutes (2015, p2): http://newcastlemsc.delaware.gov/files/2015/08/03232015-Signed.pdf Municipal commission meeting minutes (2016, p3): http://newcastlemsc.delaware.gov/files/2017/02/11-22-2016-MSC-Metting-Minutes.pdf
Wilmington Water Dept	DE	107,976	PFOS		Eliminated impacted source water; evaluating options	C	Notice – impacted wells shut down http://www.artesianwater.com/wp-content/uploads/2014/06/06-12-2014-PFOS-DRINKING-WATER-NOTICE-6-12-14-DPH-clean-final1.pdf https://www.northjersey.com/story/news/local/2014/07/21/chemical-detection-shuts-public-supply/12975427/
City of Zephyrhills (Pasco)	FL	21,823	PFOS		Eliminated impacted source water; evaluating options	C	2016 Annual Drinking Water Quality Report http://pascocountyfl.net/ArchiveCenter/ViewFile/Item/1923 http://www.ci.zephyrhills.fl.us/Portals/0/Zephyrhills%20Consumer%20Letter%20-%20FDEP%20Comments%207.22.16.pdf http://pascocountyfl.net/ArchiveCenter/ViewFile/Item/1923
Emerald Coast Utilities Authority (Escamb	FL	249,872	PFOA,PFOS VOCs ("45 unregulated chemicals in water")	Yes		A1	http://news.caloosahatchee.org/docs/FL-CWN_160129.htm http://www.ecua.fl.gov/water-quality/treatment http://www.ecua.fl.gov/news/211 Court proceedings (2010): https://www.courtlistener.com/opinion/2475274/emerald-coast-utilities-authority-v-3m-co/ 2016 water quality report (p6) http://www.ecua.fl.gov/system/files/NEWS/CCR2016.pdf
City of Stuart Water PlantStuart Public W	FL	19,000	PFOA, PFOS	Proposed GAC	Replaced impacted wells	C	http://www.tcpalm.com/story/news/2017/06/09/epa-found-pfos-and-pfoa-stuart-drinking-water/380188001/
City of Rome	GA	45,586	PFOS, PFOA	Considering GAC	Blend/dilute	F	Water Quality Reporty 2017 https://www.romefloyd.com/water-quality

Appendix B2 - Public Water System Treatment Data

Public Water System Name	State	Population Served	Contaminants Treated	GAC Treatment	Other Treatments	Category	References & Links
Westfield Water Department (Hampden)	MA	42,000	PFOS,PFOA	Yes	Eliminated impacted source water	A1	http://www.cityofwestfield.org/DocumentCenter/View/4754 http://wwlp.com/2017/05/31/westfield-to-build-water-filtration-unit-due-to-chemical-issue/ http://www.masslive.com/news/index.ssf/2017/01/aquifer_contamination_in_westf.html
Hyannis Water System (Barnstable)	MA	35,000	PFOA,PFOS 1,4-dioxane	Yes		A1	http://www.townofbarnstable.us/PublicWorks/Hyannis-Water-Advisory.pdf http://www.capecodtimes.com/news/20170301/65m-sought-to-treat-hyannis-water-contaminants
Centerville Osterville Marstons Mills WD	MA	50,000	PFOS, PFOA	Yes		A1	Town water board meeting minutes (2017): http://www.town.barnstable.ma.us/BoardsCommittees/HyannisWaterBoard/Minutes/2017/AR-M257_20170309_134718.pdf
Sanford Water District (York)	ME	14,025	PFOS, PFHxS			X	https://pfasproject.com/sanfordyork-county-maine/
Kennebunkc, Kennebunkport & Wells WD	ME	34,250	PFOA, PFOS	Yes		A1	https://kkw.org/kennebunk-river-well-pfas-information/ https://kkw.org/kennebunk-river-well-pfas-information/
City of Parchment	MI	3,174	PFOS, PFOA		Buy from an alternative source	E	https://www.michiganradio.org/post/pfas-where-have-they-been-found-public-water-supplies https://www.michigan.gov/pfasresponse/0,9038,7-365-86511_82704_87495---,00.html
Robinson Elementary School	MI	362	PFOS, PFOA, PFBS, PFHxS	GAC Proposed		A2	https://www.michigan.gov/pfasresponse/0,9038,7-365-86510_88061_88064-483785--,00.html
Cottage Grove	MN	36,492	PFOS, PFOA		Evaluating options; blend/dilute; eliminate impacted water source	C	http://www.twincities.com/2017/05/23/safety-of-washington-county-drinking-water-in-doubt-as-state-targets-3m-pollutants/ http://www.twincities.com/2017/06/22/3m-to-shoulder-entire-cost-of-cleaning-up-cottage-groves-drinking-water/ https://www.cottage-grove.org/administration/communication/news/1416-minnesota-department-of-health-issues-new-health-based-advisory-values-cottage-grove-city-water-is-safe-to-drink-and-compliant-with-all-mdh-health-based-values#affected-wells-filtration-system
Oakdale (Washington)	MN	27,378	PFOS, PFOA	Yes	Eliminated impacted source water	A1	http://www.twincities.com/2017/05/23/safety-of-washington-county-drinking-water-in-doubt-as-state-targets-3m-pollutants/ NJ State document (2015), case study on p5: http://www.nj.gov/dep/watersupply/pdf/pfna-pfc-treatment.pdf Oakdale PFC factsheet on p6-7 http://www.ci.oakdale.mn.us/vertical/Sites/%7B9D2ABE6F-4847-480E-9780-B9885C59543F%7D/uploads/Waterdrinkingwaterreportfor2016.pdf https://www.twincities.com/2018/06/30/3m-pollution-flares-up-again-st-paul-park-oakdale-woodbury-lake-elmo-cottage-grove-water-systems/

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Public Water System Name	State	Population Served	Contaminants Treated	GAC Treatment	Other Treatments	Category	References & Links
Bemidji (Beltrami)	MN	13,431	PFOS and PFOA		Study alternatives; blend/dilute; eliminate impacted water source	F	http://www.health.state.mn.us/news/pressrel/2016/pfc082316.html https://www.mprnews.org/story/2019/02/14/pfas-leaves-costly-water-problem-in-bemidji-and-other-cities
City of St. Paul Park	MN	5,519	PFBA, PFOA	Planning temporary GAC system in 2020		A2	https://www.twincities.com/2018/06/30/3m-pollution-flares-up-again-st-paul-park-oakdale-woodbury-lake-elmo-cottage-grove-water-systems/
South St. Paul	MN	20,400	PFBA	No		G	http://www.southstpaul.org/203/About-Our-Water
Lake Elmo	MN	4,878	PFOS			F	https://www.mprnews.org/story/2019/05/21/3m-lake-elmo-reach-tentative-settlement-in-pfas-drinking-water-lawsuit https://www.twincities.com/2018/06/30/3m-pollution-flares-up-again-st-paul-park-oakdale-woodbury-lake-elmo-cottage-grove-water-systems/
Moore County Public Utilities - Seven Lak	NC	19,368	PFOA, PFOS, PFHxS, PFHpA			X	https://test.moorecountync.gov/images/departments/public-works/ccr/2015/CCR_Seven_Lakes_2015.pdf
City of Greensboro (Guilford)	NC	250,000	PFOS, PFOA	Yes, temp system installed; planning permanent		A1	https://www.greensboro-nc.gov/Home/Components/News/News/13408/36?seldept=27
Dover Water Department (Strafford)	NH	28,000	PFOA, PFOS		Possible replacement well	C	https://www.dover.nh.gov/Assets/government/city-operations/2document/community-services/water-quality/2016%20CCR.pdf http://www.fosters.com/article/20160317/NEWS/160319457
Merrimack Village District Water Works	NH	25,000	PFOA, PFOS	Yes		A1	https://www.des.nh.gov/organization/commissioner/documents/pfoa-weekly-20170113.pdf
Pease Tradeport	NH	3,000	PFOA, PFHxS	Yes		A1	Repository of water supply updates: http://www.cityofportsmouth.com/publicworks/phwn.html Dept of Health investigation article with linked documents: https://www.dhhs.nh.gov/dphs/investigation-pease.htm PFCs treatment plan (2016): http://www.cityofportsmouth.com/publicworks/PeaseWaterSupplyUpdate9816.pdf Most recent update (6/2017): http://www.cityofportsmouth.com/publicworks/Pease%20Water%20Supply%20and%20PFC%20Demonstration%20Project%20Update%2007.10.17.pdf
NJ American Water Co. – Raritan (Union)	NJ	609,305	PFOA, PFOS		Blend/dilute	F	http://www.amwater.com/ccr/raritan.pdf http://www.njspotlight.com/stories/16/01/21/dep-urged-to-act-quickly-on-hazardous-chemical-found-in-nj-water-supplies/

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Public Water System Name	State	Population Served	Contaminants Treated	GAC Treatment	Other Treatments	Category	References & Links
South Orange Water Department (Essex)	NJ	16,924	PFOA		GAC Study; blend/dilute	C	http://www.southorange.org/562/PFOA-Information
Fair Lawn Water Department (Bergen)	NJ	32,573	PFOA, PFOS		Eliminated impacted source water; evaluating options	F	http://www.fairlawn.org/filestorage/355/357/623/2013_Water_Quality_Report.pdf https://www.northjersey.com/story/news/environment/2018/08/06/fair-lawn-nj-drinking-water-treament-superfund-nj/913788002/
Mahwah Water Department (Bergen)	NJ	24,062	PFOS			X	https://patch.com/new-jersey/mahwah/mahwah-water-department-named-contaminated-site-list-report
Ridgewood Water (Bergen)	NJ	61,700	PFOA, PFOS	GAC planned for Summer 2019	Eliminated impacted source water; evaluating options	F	http://mods.ridgewoodnj.net/pdf/water/RW%20PFAS%20Webinar%20091218_FINAL.pdf
Atlantic City MUA	NJ	150,000	PFOA, PFOS		Evaluating options	C	https://www.senatorsingleton.com/nj_implements_nation_s_toughest_pfas_standard
Brick Township MUA	NJ	86,898	PFOA			G	http://www.njspotlight.com/stories/16/01/21/dep-urged-to-act-quickly-on-hazardous-chemical-found-in-nj-water-supplies/
Greenwich Township Water Department	NJ	4,921	PFOA	Yes		A1	http://www.njspotlight.com/stories/16/01/21/dep-urged-to-act-quickly-on-hazardous-chemical-found-in-nj-water-supplies/
Montclair Water Bureau	NJ	37,669	PFOA, PFHpA		Blend/dilute; eliminated impacted water source	F	https://patch.com/new-jersey/montclair/pfoa-found-montclairs-drinking-water-0 http://www.montclairnjusa.org/dmdocuments/water-quality-2016.pdf
Garfield Water Department	NJ	30,487	PFOA, PFOS			G	http://www.njspotlight.com/stories/16/01/21/dep-urged-to-act-quickly-on-hazardous-chemical-found-in-nj-water-supplies/ http://www.garfieldnj.org/filestorage/2184/2210/2016_Water_Quality_Report.pdf
New Jersey American Water – Logan Sys	NJ	6,650	PFPA	Yes		A1	NJ State document (2015),cited case study on p5: http://www.nj.gov/dep/watersupply/pdf/pfna-pfc-treatment.pdf On 2014 water quality report (p7, not on more recent reports): https://dnnh3qht4.blob.core.windows.net/portals/1/CCRs/Logan%20-%202014.pdf?sr=b&si=DNNFileManagerPolicy&sig=%2B8UA3IwtiHDwpyBDW6VUTBUXCjs%2B1A1wDr9Xb%2FmDZ3A%3D
New Jersey American Water's (NJAW) –	NJ	10,900	PFOA, PFHpA, PFHxA, PFPA	Yes		A1	NJ State document (2015),cited case study on p5: http://www.nj.gov/dep/watersupply/pdf/pfna-pfc-treatment.pdf On 2014 water quality report (p7, not on more recent reports): https://dnnh3qht4.blob.core.windows.net/portals/1/CCRs/Logan%20-%202014.pdf?sr=b&si=DNNFileManagerPolicy&sig=%2B8UA3IwtiHDwpyBDW6VUTBUXCjs%2B1A1wDr9Xb%2FmDZ3A%3D NJ State document (2015),cited case study on p5: http://www.nj.gov/dep/watersupply/pdf/pfna-pfc-treatment.pdf 2016 water quality report, PFCs on p7: https://dnnh3qht4.blob.core.windows.net/portals/1/CCRs/Pennsgrove%20-%202015.pdf?sr=b&si=DNNFileManagerPolicy&sig=ZX%2Fd8aE0RIUxFzUFlu%2FaoC585OzsSCwM9Qp7HCkjO4Q%3D

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Public Water System Name	State	Population Served	Contaminants Treated	GAC Treatment	Other Treatments	Category	References & Links
Hampton Bays Water District	NY	12,500	PFOS		Eliminated impacted source water; evaluating options	C	http://www.southamptontownny.gov/DocumentCenter/Home/View/7011
Suffolk County Water Authority	NY	1,100,000	PFOS, PFOA	Yes	Blend/dilute; eliminated impacted water source	A1	http://s1091480.instanturl.net/dwqr2016/pages/page-10-11.pdf
New Windsor Consolidated Water District	NY	30,000	PFOA, PFOS		Eliminated impacted source water; evaluating options	C	http://town.new-windsor.ny.us/Portals/0/Documents/NW%20Annual%20Water%20Quality%20Testing%20Report%202016.pdf http://s1091480.instanturl.net/dwqr2018/THE_FINAL_AWQR2018_050918.pdf http://s1091480.instanturl.net/2018wellFiles/MEETINGHOUSE%20RD.pdf
Newburgh City PWS	NY	28,000	PFOS	Yes, constructed not operational		A2	NYS DOH FAQs specific to this case: https://www.health.ny.gov/environmental/investigations/newburgh/faq.htm NGO case study: https://www.riverkeeper.org/campaigns/safeguard/newburgh-2/ http://www.nbcnewyork.com/news/local/Cancer-Chemical-Water-Blood-PFOS-Newburgh-New-York-Taint-Sick-Test-EPA-Investigation-Environment-409506935.html
Wright-Patterson AFB Area A	OH	11,791	PFOA, PFOS	Yes	Eliminate impacted water source	A1	http://www.wpafb.af.mil/News/Article-Display/Article/818472/base-issues-drinking-water-advisory/ http://www.wpafb.af.mil/Portals/60/documents/Index/environmental/170518-2016-Drinking-Water.pdf?ver=2017-05-18-121221-917 http://www.wpafb.af.mil/Portals/60/documents/Index/environmental/170518-2016-Drinking-Water.pdf?ver=2017-05-18-121221-917
City of Cleveland Heights	OH	46,000	PFOS		Eliminate impacted water source; buy from another source	D	http://www.clevelandheights.com/index.aspx?page=34&recordid=1152 http://www.clevelandwater.com/2016WQR.pdf
Belpre City PWS	OH	6,441	PFOA	Yes		A1	EPA DuPont PFOA doc (2016): DuPont Teflon production at the Washington Works plant in Wood County, OH EPA DuPont PFOA doc (2016): https://www.epa.gov/sites/production/files/2016-05/documents/dupont-fs0309.pdf http://keepyourpromisesdupont.com/plant-paying-for-n-y-c8-treatment-process/
Little Hocking Water/Sewer Association	OH	12,522	PFOA	Yes		A1	EPA DuPont PFOA doc (2016): https://www.epa.gov/sites/production/files/2016-05/documents/dupont-fs0309.pdf http://www.fluoridealert.org/wp-content/pesticides/2006/pfoa-pfos.news.25.html http://keepyourpromisesdupont.com/plant-paying-for-n-y-c8-treatment-process/

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Public Water System Name	State	Population Served	Contaminants Treated	GAC Treatment	Other Treatments	Category	References & Links
Pomeroy Village Water District	OH	1,800	PFOA	Yes		A1	EPA DuPont PFOA doc (2016): https://www.epa.gov/sites/production/files/2016-05/documents/dupont-fs0309.pdf http://keepyourpromisesdupont.com/plant-paying-for-n-y-c8-treatment-process/
Tupper Plains-Chester Water District	OH	15,602	PFOA	Yes		A1	EPA DuPont PFOA doc (2016): https://www.epa.gov/sites/production/files/2016-05/documents/dupont-fs0309.pdf http://keepyourpromisesdupont.com/plant-paying-for-n-y-c8-treatment-process/
Suez Water (formerly United Water PA) (I	PA	105,649	PFOA,PFOS			G	http://www.mysuezwater.com/water-my-area/pfos-pfoa/pfos-and-pfoa
Warminster Municipal Authority (Bucks)	PA	4,000	PFOA, PFOS, PFHxS, PFHpA	Yes		A1	http://www.pabulletin.com/secure/data/vol47/47-8/47_8_not.pdf
North Penn Water Authority (E. Rockhill)E	PA	588	PFOA, PFOS		Eliminate impacted water source; buy from another source	D	http://www.theintell.com/news/horsham-pfos/pa-dep-opens-pfoa-pfos-investigation-in-parts-of-perkasie/article_1ded01f2-acfd-11e6-bea8-1f7ab65406d1.html http://files.dep.state.pa.us/Water/DrinkingWater/Perfluorinated%20Chemicals/RidgeRunARDocket/NPWA%20Results%209-19-16.pdf
Doylestown Twp. Muni. Authority (Boro W	PA	8,655	PFOA		Eliminate impacted water source	F	http://www.theintell.com/news/local/doylestown-township-shuts-down-contaminated-well/article_6815ff9c-1de0-11e6-a2b5-37ecdc4dc495.html http://www.theintell.com/news/horsham-pfos/state-updates-investigation-of-doylestown-area-water-contamination/article_5ba3c282-bbd6-11e6-9446-ef3e00bcf41a.html
Horsham Water & Sewer Authority	PA	25,000	PFOS, PFOA	Yes		A1	County water authority PFOA update/timeline (2017): https://www.horshamwater-sewer.com/sites/default/files/website_pfc_update_as_of_7.10.17.pdf
Warrington Township Water & Sewer Dep	PA	21,588	PFOA, PFOS	Yes		A1	Township updates repository page: http://www.warringtontownship.org/departments/water-sewer/water-contamination-info/ Township PFCs public notice: http://www.warringtontownship.org/download/Water%20and%20Sewer%20department/WTWSD-PFOS-Public-Notice-2016-07-20.pdf Township overview presentation (p4): http://www.warringtontownship.org/download/Water%20and%20Sewer%20department/WTWSD-Powerpoint-2016-08-08-FINAL-Handouts.pdf
Town of Cumberland	RI	21,900	PFOA			G	http://ripr.org/post/cumberland-investigates-source-pfoa-drinking-water#stream/0

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Issaquah Water System	WA	22,926	PFBS, PFHpA, PFHxS, PFNA, PFOA, PFOS	Yes		A1	https://sammamishcomment.wordpress.com/2016/09/09/drinking-water-contamination-traced-to-efr-issaquah-says/ http://issaquahwa.gov/index.aspx?nid=490 – Data Water consulting company doc, case study (p4): https://www.hdrinc.com/sites/default/files/2017-05/hdr-abcs-of-pfcs.pdf 2016 WQR describing GAC system (p3) http://issaquahwa.gov/ArchiveCenter/ViewFile/Item/466 Water quality web page: http://issaquahwa.gov/waterquality
La Crosse Waterworks	WI	53,000	PFOS		Eliminate impacted water source	F	http://www.wxow.com/story/32020634/2016/05/Thursday/la-crosse-releases-drinking-water-advisory
Parkersburg (Parkersburgh Utility Board)	WV	34,251	PFOA			G	https://www.pubwv.com/notices/general/c8-or-pfoa-long-term-health-advisory https://www.pubwv.com/services/water
Lubeck PSD	WV	10,377	PFOA	Yes		A1	http://wvpublic.org/post/martinsburg-vienna-respond-drinking-water-warnings#stream/0 EPA DuPont PFOA doc (2016): https://www.epa.gov/sites/production/files/2016-05/documents/dupont-fs0309.pdf Legal application: http://www.psc.state.wv.us/scripts/webdocket/ViewDocument.cfm?CaseActivityID=189740&NotType=%27WebDocket%27
Vienna Water Works	WV	12,507	PFOA	Yes		A1	http://www.wsaz.com/content/news/Do-not-drink-advisory-issued-for-citizens-of-Vienna-380182771.html http://www.newsandsentinel.com/news/local-news/2017/01/epa-adds-chemours-to-water-order/ http://www.mariettatimes.com/news/local-news/2017/02/epa%E2%80%88c8-testing-in-expanded-area-begins-before-order-finalized/
City of Martinsburg	WV	15,180	PFOS		Eliminated impacted source water; evaluating options	C	http://www.heraldmailmedia.com/news/tri_state/west_virginia/martinsburg-shuts-down-water-plant-after-epa-advisory/article_7d2035a2-1e25-11e6-8900-7789868740f4.html http://www.journal-news.net/news/local-news/2016/07/big-springs-plant-reopened-water-testing-ongoing/
Mason County PSD-Camp Conley	WV	458	PFOA	Yes		A1	EPA DuPont PFOA doc (2016): https://www.epa.gov/sites/production/files/2016-05/documents/dupont-fs0309.pdf

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Public Water System Name	State	Population Served	Contaminants Treated	GAC Treatment	Other Treatments	Category	References & Links

Categories

GAC Treatment	A1
GAC Treatment - proposed	A2
Reverse osmosis - existing system	B1
Reverse osmosis - proposed	B2
Option evaluation	C
Closed	D
Purchase water and blend	E
Eliiminate impacted source /blend	F
No action but concentrations below HA	G
No additional information found	X