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PFAS Background What are PFAS?

Per- and polyfluoroalkyl substances (PFAS) are a group of man-made chemicals that includes PFOA, PFOS, GenX, and many other chemicals. PFAS have been manufactured and used in a variety of industries around the globe, including in the United States since the 1940s.

PFOA and PFOS have been the most extensively produced and studied of these chemicals. Both chemicals are very persistent in the environment and in the human body meaning they don't break down and they can accumulate over time. There is evidence that exposure to PFAS can lead to adverse human health effects.

PFAS Exposure

PFAS are a group of man-made chemicals that have been in use since the 1940s, and are (or have been) found in many consumer products like cookware, food packaging, and stain repellants. PFAS manufacturing and processing facilities, airports, and military installations that use firefighting foams are some of the main sources of PFAS.

Source: epa.gov vcheng - CC BY-SA 3.0 Attorney/Client Communication, Do Not Disclose

9

What are Perfluorinated Chemicals (PFCs) and their relation to PFAS?

Scientists use "PFCs" as an abbreviation for two distinct but related sets of chemicals. Whenever you see the abbreviation, make sure you understand how the author or publisher is using it.

PFCs can be an abbreviation for either:

- perfluorinated chemicals, or
- a subset of perfluorinated chemicals called perfluorocarbons

The term Perfluorinated Chemicals (PECs) refer to Perfluoroalkyl compounds, which are human-made substances that do not occur naturally in the environment. PFCs include but are not limited to:

- Perfluorooctanoic acid (PFOA)
- Perfluorooctane sulfonic acid (PFOS)

Citations 1. Kissa 2001 2. Schultz et al. 2003 3. 3M 1999 4. Hekster et al. 2003; 5. DuPont 2008

PFC Emissions

PFCs have been manufactured for more than 50 years where the substances PFOS and PFOA are part of a group of old-generation PFCs which will be used to a lesser extent in the future due to their potential hazards.

These hazards have resulted and will result in [litigation] and a number of [national] and international legislative bans worldwide.

Source: epa.gov

Posner: Perfluorinated compounds – occurrence and uses in products: 1-14. 2011

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10

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Schultz et al. 2003). The chemical stability of perfluoroalkyls and the low volatility of these substances in ionic form indicate that perfluoroalkyls will be persistent in water and soil (3M 2000; Prevedouros et al. 2006).

[Indicating that the compounds do not easily chemically react with their environment or break down]

Bioavailability

Perfluoroalkyls are widely detected in humans and animals, indicating that several of these substances are bioavailable. (de Vos et al. 2008; Furdui et al. 2007; Martin et al. 2004b).

[Suggesting that absorption by the human body occurs relatively easily]

In living organisms, perfluoroalkyls bind To protein albumin in blood, liver, and [reproductive organs] (de Vos et al. 2008; Kissa 2001)

11

11

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15

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		alf-Lives for Specified P	FCs		
	Humans	Primates	Rats	Mice	
PFOA	8 years ¹	20.1-32.6 days ⁶	Males: 44-322 hrs Females: 1.9-16.2 hrs		
PFOS	5.4 years ¹	110-170 days ^{4,5}	179-1,968 hrs	731-1,027 hrs	
PFHxS	8.5 years ¹	87-141 days ⁷	Males: 382-688 hrs Females: 1.03-41.28 hrs	597-643 hrs	
PFBuS	665 hours ²	8.0-95.2 hours ^{2,8}	2.1-7.42 hrs		
PFBA	72 hours ³	40.3-41.0 ³	1.03-9.22 hrs	2.79-13.34 hrs	
Citations 7. Sundstrom el al. 2012 1. Olsen et al. 2007a 8. Chengelis et al. 2009 2. Olsen et al. 2009 3. Chang et al. 2009 3. Chang et al. 2009 4. Chang et al. 2012 5. Seacat et al. 2002 6. Butenhoff et al. 2004					

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31

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INACTIVE HAZARDOUS WASTE DISPOSAL SITE REGISTRY INFORMATION REQUEST						
SAINT-GOBAIN MCCAFFREY STREET 14 MCCAFFREY STREET	HOOSICK FALLS, NY 12090	Facility Id: 442046				
ADDRESS CHANGE INFORMATION Revised street: NO CHANGE Revised zip code: NO CHANGE						
	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONS DIVISION OF ENVIRONMENTAL REMEDIATION INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORM	ERVATION MATION				
CLASSIFICATION CODE: 02 CLASSIFICATION CODE DESCRIPTION: Significant threat to the public her	REGION: 4 alth or environment - action required.	SITE CODE: 442046 DEC ID: 521213				
NAME OF SITE: Saint-Gobain McCaffre STREET ADDRESS: 14 McCaffrey Street CITY: Hoosick Falls	Py Street ZIP: 12090	TOWN: Hoosick COUNTY: Rensselaer				
SITE TYPE: Dump- Structure-	Lagoon- Landfill- Treatment Pond-	ESTIMATED SIZE: 6.44 Acres				
INSTITUTIONAL/ENGINEERING CONTROLS: None reported						
CROSS REFERENCES: IDENTIFIER	SOURCE					
NYD004986741	RCRA EPA ID No.					
SITE OWNER/OPERATOR/REPOSITORY INFORMATION: CURRENT OWNER(5): NAME: Saint-Gobain Performance Plastics Corporation Owner Type: PRP - Class 2 HazSubs Pierre-Andre de Chalendar ADDRESS: 750 East Swedesford Road Valley Forge, PA 19482						
OWNER(S) DURING DISPOSAL:						

Copyright 2019 Toxics Targeting, In	nc. March 19, 2019	Reported PI	FAS Concerns in Southampton	Page 18
Identification Number 6	HAMPTON BAYS FIRE DE 69 WEST MONTAUK HIGH	PARTMENT IWAY	HAMPTON BAYS, NY 11946	Facility Id: 152249
ADDRESS CHANGE INFORMATIO Revised street: NO CHANGE Revised zip code: NO CHANGE	N			
***************************************	NEW YORK S D INACTIVE	TATE DEPARI IVISION OF HAZARDOUS	MENT OF ENVIRONMENTAL CONSERVATION ENVIRONMENTAL REMEDIATION WASTE DISPOSAL SITE INFORMATION	
CLASSIFICATION CODE: 02 CLASSIFICATION CODE DESCRIF	PTION:		REGION: 1	SITE CODE: 152249 DEC ID: 554694
NAME OF SITE: Hampton Ba STREET ADDRESS: 69 West Mc CITY: Hampton Be SITE TYPE: Dump- St INSTITUTIONAL/ENGINEERING C	ays Fire Department ontauk Highway ays cructure- Lagoon- : CONTROLS:	ZIP: 11946 Landfill-	; ; Treatment Pond-	TOWN: Southampton COUNTY: Suffalk ESTIMATED SIZE: 2.07 Acres
CROSS REFERENCES: IDENTIFIER			SOURCE	
1-20171005-236 11/8/17		Agreen Agreen	ment/Consent Order Date ment/Consent Order Number	
SITE OWNER/OPERATOR/REPOSIT CURRENT OWNER(S): NAME: Hampton Bays E Kevin Kenny ADDRESS: FO Drawer 800 Hampton Bays, NAME: Hampton Bays E Rick Duran ADDRESS: PO Drawer 800	FORY INFORMATION: Fire District NY 11946 Fire District			
ADDAEDS. TO DIAWOT 000 Hampton Bays, OWNER(S) DURING DISPOSAL:	NY 11946			

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Copyright 2019 Toxics Targeting, Inc. March 19, 2019 Rep	orted PFAS Concerns in Southampton	Page 19
OPERATOR(S) DURING DISPOSAL: NAME: Hampton Bays Fire Department Chief Tom Gorman ADDRESS: 69 West Montauk Highway Hampton Bays, NY 11946		
HAZARDOUS WASTE DISPOSAL PERIOD:		
SITE DESCRIPTION: Location: The site is a 2.07 acre parcel in suburban	n area of Hampton Bays, Town of Southampton, Suffo	olk County.
Site Features: The site is relatively flat and inclu- building. The remaining portion of the site is cover	udes the Hampton Bays Fire Department's 5-bay fire red by asphalt and grass.	ehouse and a maintenance
Current Zoning and Land Use: The site is currently residential and commercial area.	utilized by the Hampton Bays Fire Department. The	e site is situated within a
Past Use of the Site: The site has been utilized b Bays Fire Department purchased aqueous film forming acid (PFOA) and perfluorooctane sulfonic acid (PFOS	y the Hampton Bays Fire Department since the 1930' foam (AFFF) for fire suppression, which frequent)).	's. In 2008, the Hampton Ly contain perfluorooctanoic
Site Geology and Hydrogeology: Site geology consist: Groundwater is approximately 40 feet below ground so	s of coastal plain deposits that includes sand wit urface and flows to the south-southwest.	th some silt and gravel.
CONFIRMED HAZARDOUS WASTE DISPOSED: TYPE	QUANTITY	
perfluorooctanoic acid Perfluorooctane Sulfonic Acid	UNKNOWN	
ASSESSMENT OF ENVIRONMENTAL PROBLEMS: Nature and Extent of Contamination: Containers of a are known to contain per- and polyfluoroalkyl subst perfluorooctanoic acid (PFOA). Onsite cesspools con	queous film forming foams (AFFF) for fire fighting ances (FFAS), such as perfluorocotane sulfonic aci ntained FFOS up to 1.7 parts per billion (ppb).	g were present onsite, which id (PFOS) and
Onsite groundwater contained PFOS up to 2,400 parts above the United State Environmental Protection Ages	per trillion (ppt) and PFOA up to 250 ppt.) The oncy's Health Advisory Level of 70 ppt for combined	groundwater detections are i PFOS and PFOA.
Site contamination extends ~630 feet to the southear groundwater by Suffolk County Department of Health i been shutdown and a treatment system was designed to been connected to the treatment system and are appro	st towards the Hampton Bays Ponguogue Avenue well Services and supply water by the Water District. o remove the contamination. At this point two of oved for operation.	field based on detections in The three supply wells have the three supply wells have
ASSESSMENT OF BEALTH PROBLEMS: Access to the disk is unrestricted and people may co surface. People are not drinking contaminated water contaminants before the water is distributed to com	nme in contact with site related compounds in soil because the public water supply that serves the r sumers.	l if they dig below ground area is treated to remove

39

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Copyright 2019 Toxics Targeting, Inc. March 19, 2019 Reported PFAS Concerns in Southampton	Page 2
ADDRESS: HAMPTON ROAD SOUTHAMPTON, NY 11968	
ORNER(5) DURING DISEOSAL: NAME: TOWN OF SOUTHAMPTON ADDRESS:	
OPERATOR(S) DURING DISPOSAL: NAME: TOWN OF SOUTHAMPTON OPerator Type: Local Government ADDRESS: 20 JACKSON AVE. HAMPTON BAYS, NY 11946	
NAME: Town of Southampton / Highway Dept. ADDRESS: 20 Jackson Avenue Hampton Bays, NY 11946	
The following disposal period has been deleted from the registry. Data reflects previous information.	
HAZARDOUS WASTE DISPOSAL PERIOD: from 1968 to 1986	
SITE DESCRIPTION: This site is an active household refuse transfer station located on the site of a municipal landfill that The site is also used as a storage yard for highway maintenance materials. A plume of 1,1,2-erichloroseth retrachlorosethylene, 1,2-dichlorogroppma mand disa-dichlorosethylene was found and investigated by the Suffo Health Services (SCDHS) in 1985. Apparently the plume "material in a northeasterly direction from its dis along a small stream just was to 1 Jagest Lane for approximately one-half mile." The origin point has not laddined. The consultant has interpreted this to mean that the plume estended south of old country Road f landfill. This may not be the case, as the plume may not extend north of Old Country Road. Regardless to that hazardous wastes were ever disposed of at the site. A Phase I Investigation was completed in 1987 at Preliminary Site Assessment (PSA) was completed in 1987.	was used only in 1968. Viene. Is County Department of charge boundary comen precisely rom a point north of the specific location a is no documentation nd a State Superfund
In 2018 the Division of Materials Management investigated this landfill as part of its Inactive Landfill installed groundwater monitoring wells were sampled. There were no exceedences of State groundwater qual chlorinated volatile organic chemicals. PPOS was detected at 36 ppt at an upgradient well and 2.5 ppt at wells. PPOA results were similar in all wells ranging from 3.1 to 6.3 ppt. The Health Advisory level estal PPOA, PPOA or the 2 compounds combined is 70 ppt. PFINS was detected in the two downgradient wells ar 20	Initiative. Three newly ity standards for any one of the downgradient plished by USEAP for and 36 ppt.
CONFIRMED HAZARDOUS WASTE DISPOSED: None reported	
ASSESSMENT OF ENVIRONMENTAL PROBLEMS: There is no documentation that hazardous wastes were ever disposed of at the site.	
ASSESSMENT OF HEALTH PROBLEMS: None provided	

AZARDOUS MATERIAL SPILLS INFORMATION REQUEST SPERIMETER ROAD SETHAMPTOM, NY 11973 CORRESS NUMBETER ROAD WESTHAMPTOM, NY 11973 Revised zip cores SUFFICA CNTY AIRPORT Revised zip cores Core of Spill Notifier Prime Core of Spill Revised zip cores Core of Spill Rest Cleanup Ceased Cruse of Spill Material No Spilled Date Cleanup Ceased Class OTHER Nolle No Spilled Units Resource(s) Spilled Class Spilled Units Resource(s) Spilled								
GAREBEKI RUMMAY S. PERIMETER ROAD WESTHAMPTOM, NY 11978 Spill Number: 1807183 Close Date: ADDRESS CHANGE Mexisted 1498 Suffexi CANAGE Spiller Via Control CANAGE Spiller Via Control CANAGE Spiller: UNKNOWN Spiller Via Control CANAGE Spiller: UNKNOWN Spiller Via Control CANAGE Spiller: UNKNOWN Spiller Via Control CANAGE Spiller: Via Control CANAGE Spiller Phone: Caller Via Phone: Caller Ph	H ,	HAZARDOUS MATERIAL SPIL	LS INFORMATION REQUEST					
ADDRESS CHANGE INFORMATION Revised size ocds: NO CHANGE Surved of Splitt. INSTITUTIONAL, EDUC, GOV, OTHER Caller Agency: Caller Agency: Caller Agency: Caller Phone: Caller Name: Caller Agency: Caller Agency: Caller Phone: Caller Name: Caller Agency: Caller Agency: Caller Phone: Caller Name: Caller Agency: Caller Agency: Caller Agency: Caller Phone: Caller Name: Caller Agency: Caller Agency: Caller Agency: Caller Phone: Caller Name: Caller Agency: Caller Agency: Caller Agency: Caller Phone: Caller Name: Caller Agency: Caller Agency: Caller Agency: Caller Phone: Caller Name: Caller Agency: Caller Agen	ABRESKI RUN 3. PERIMETER F	WAY ROAD	WESTHAMPTOM, NY 11978			Spill Numb	er: 1807188	Close Date:
Sauce of Spill: INSTITUTIONAL, EDUC, GOV, OTHER Spiller: UNKNOWN Spiller Phone: Local Agency Coller Phone: Caller Agency Coller Agency Contact for more Spill first: JAMES RYAN Contact Person Phone: (631) 652 Contact for more Spill first: JAMES RYAN Contact Person Phone: (631) 652 Callegoy: Contact for more Spill first: JAMES RYAN contact Person Phone: (631) 652 Callegoy: Contact for more Spill first: JAMES RYAN Contact Person Phone: (631) 652 Callegoy: Contact for more Spill first: JAMES RYAN contact Person Phone: (631) 652 Callegoy: Contact for more Spill first: JAMES RYAN contact Person Phone: (631) 652 Callegoy: Contact Person Phone: Caller Agency Contact Person Phone: (631) 652 Callegoy: Contact Person Phone: Caller Agency Caller Agency Contact Person Phone: Caller Agency Caller Phone: Caller Agency Caller Phone: Caller Agency Caller Phone: Caller Agency	ADDRESS CHAN Revised street: Revised zip code:	IGE INFORMATION SUFFOLK CNTY AIRPORT GABRE : NO CHANGE	SKI					
DEC Investigator: DJCHUSA Contact Person Phone: (631) 852 Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters. Unable or Unwilling RP – DEC Field Response – DEC Corrective Action Required Spill Date Date Cleanup Ceased Cause of Spill Meets Cleanup Standards Penalty Recommended Spill Category: Material Spilled Material Spilled Class Spilled Units Recovered Units Affected Spilled No NO Material Spilled No NO DERLICORCOCTANE SULFONIC ACID HAZARDOUS MATERIAL 0.00 UNKNOWN 0.00 UNKNOWN GROUNDWATER SURFACE WATER Caller Remarks: NO REMARKS GIVEN FOR THIS SPILL DEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.	Bource of Spill: Notifier Type: Caller Name:	INSTITUTIONAL, EDUC, GOV, OTH Local Agency	IER Spiller: UNH Notifier Name: Caller Agency:	NOWN				Spiller Phone: Notifier Phone: Caller Phone:
Class: Unable or Unwilling RP - DEC Field Response - DEC Corrective Action Required Penalty Recommended Spill Date Date Cleanup Ceased Cause of Spill Meets Cleanup Standards Penalty Recommended 39272703 OTHER NO NO Valential Glass Quantity Class Quantity Spilled Quantity Recovered Units Resource(s) Altected 2ERFLUOROOCTANE SULFONIC ACID HAZARDOUS MATERIAL 0.00 UNKNOWN 0.00 UNKNOWN GROUNDWATER SUFFACE WATER 2Ealer Remarks: NO REMARKS GIVEN FOR THIS SPILL NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL View Stigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL)EC Investigator: Category:	DJCHIUSA Known release which created a fire/ releases to surface waters.	Contact for more spill info: JAM explosion hazards (inside or outdoors), drinl	ES RYAN king water s	supply contamin	ation, or sign	Contac ificant	t Person Phone: (631) 852-809
Spill Date Date Cleanup Ceased Cause of Spill Meets Cleanup Standards Penalty Recommended Spi2/Z018 OTHER NO NO NO Material Cleanup Standards Quantity Recommended No Recovered Units Allected Recovered Units Allec	Class:	Unable or Unwilling RP – DEC Field	Response - DEC Corrective Action Requir	ed				
NPERZENSI OTHER NO NO	Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cle	anup Standard	s Penalt	y Recommend	ed
Internal Material Quantity Quantity Quantity Resource(s) Spilled Units Record Units Record Record ERFLUOROOCTANE SULFONIC ACID HAZARDOUS MATERIAL 0.00 UNKNOWN 0.00 UNKNOWN GROUNDWATER SURFACE WATER Saller Remarks: NO REMARKS GIVEN FOR THIS SPILL VEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.	9/27/2018		OTHER	NO		NO		
PERFLUOROCCTANE SULFONIC ACID HAZARDOUS MATERIAL 0.00 UNKNOWN GROUNDWATER Saller Remarks: NO REMARKS GIVEN FOR THIS SPILL	Material Spilled		Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
Saler Remarks: NO REMARKS GIVEN FOR THIS SPILL JEC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.	PERFLUOROOC	TANE SULFONIC ACID	HAZARDOUS MATERIAL	0.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER SURFACE WATER
EC Investigator Remarks: NO DEC INVESTIGATOR REMARKS GIVEN FOR THIS SPILL.	Caller Remarks:	NO REMARKS GIVEN FOR TH	IS SPILL					
	EC Investigator	Remarks: NO DEC INVESTIGATO	OR REMARKS GIVEN FOR THIS SPILL.					

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NAME : ADDRESS :	WESTBURY, NY 11590 ALL-SHIELD ELECTRONICS 45 BOND STREET	Owner Type:	Corporate or Commercial	
NAME : ADDRESS :	WESTBURY, NY 11590 Sew Simple 710 SUMMA AVENUE WESTBURY, NY 11590	Owner Type:	Corporate or Commercial	
NAME : ADDRESS :	APPLIED FLUIDS 770 MAIN STREET WESTBURY, NY 11590	Owner Type:	Corporate or Commercial	
NAME : ADDRESS :	ARKWIN INDUSTRIES, INC. 686 MAIN STREET WESTBURY, NY 11590	Gwner Type:	Corporate or Commercial	
NAME : ADDRESS :	ATLAS GRAPHICS INC. 567 MAIN STREET WESTBURY, NY 11590	Owner Type:	Corporate or Commercial	
NAME : ADDRESS :	DBA LONG ISLAND SPRAY & FINISHING 121 HOPPER STREET WESTBURY, NY 11590	Owner Type:	Corporate or Commercial	
NAME: ADDRESS:	BERNITE PRODUCTS INC 84 NEW YORK AVENUE WESTBURY, NY 11590	Owner Type:	Corporate or Commercial	
NAME: ADDRESS:	BILT-RITE STEEL BUCK CORP. 95 HOPPER STREET WESTBURY, NY 11590	Owner Type:	Corporate or Commercial	
NAME: ADDRESS:	CUSTOM COATING INC. 36 NEW YORK AVENUE WESTBURY, NY 11590	Owner Type:	Corporate or Commercial	
NAME : ADDRESS :	NUTRA TEC CORPORATION 72 SYLVESTER STREET WESTBURY, NY 11590	Owner Type:	Corporate or Commercial	
NAME: ADDRESS:	EFFICIENCY SYSTEMS 45 URBAN AVENUE WESTBURY, NY 11590	Owner Type:	Corporate or Commercial	
NAME :	HURON TOOL AND CUTTING	Owner Type:	Corporate or Commercial	

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