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002/025

Method	Compound/Analyte	CAS	1. BARCLAY Y-WEST	2. BARCLAY + WASHING	WTC-B-5	WTC-E6-2	Exchange Place	Exchange Pl. Tunnel E
			Verizon Manhole 9/24/01	Verizon Manhole 9/24/01	Subgrade 9/27/01	Subgrade 9/28/01	NJ PATH Sta. Tunnel E 9/29/01	NJ PATH Sta. Tunnel E 10/1/01
	Inorganics, ug/L							
EPA 200.7	Aluminum	7429-90-5			100 U	200 U		
EPA 200.7	Antimony	7440-36-0			9.5	513		
EPA 200.7	Arsenic	7440-38-2			4 U	10 U		
EPA 200.7	Barium	7440-39-3			120	100		
EPA 200.7	Beryllium	7440-41-7			10 U	28.3		
EPA 200.7	Cadmium	7440-43-9			2 U	12		
EPA 200.7	Calcium	7440-70-2			440000	394000		
EPA 200.7	Chromium	7440-47-3			25 U	80 U		
EPA 200.7	Cobalt	7440-48-4			10 U	80 U		
EPA 200.7	Copper	7440-50-8			25 U	80 U		
EPA 200.7	Iron	7439-89-6			230	700		
EPA 200.7	Lead	7439-92-1			5 U	10.4		
EPA 200.7	Magnesium	7439-95-4			190000	237000		
EPA 200.7	Manganese	7439-96-3			220	300		
EPA 200.7	Nickel	7440-02-0			25 U	80 U		
EPA 200.7	Potassium	2029695			200000	118000		
EPA 200.7	Selenium	7782-49-2			25 U	10 U		
EPA 200.7	Silver	7440-22-4			10 U	10 U		
EPA 200.7	Sodium	7440-23-5			3500000	2540000		
EPA 200.7	Thallium	7440-28-6			5 U	10 U		
EPA 200.7	Vanadium	7440-62-2			25 U	20 U		
EPA 200.7	Zinc	7440-66-6			360	561		
EPA 245.1	Mercury	7439-97-6			0.21 U	100 U		
EPA 335.2	Cyanide	57-12-5			13	10 U		
EPA 420.1	Phenol	108-35-2			1900	4600		
EPA 340.2	Fluoride				500			
	Bacteriology, Colonies/100ml							
	Total Coliform					21600		
	Fecal Coliform					1000		
	Pesticides/PCBs, ug/L							
EPA 808	Aldrin	309-00-2			0.02 U	0.02 U		
EPA 808	Alpha-BHC	319-84-6			0.02 U	0.02 U		
EPA 808	Aroclor-1016	12674-11-2			0.5 U	0.5 U		
EPA 808	Aroclor-1221	11104-28-2			0.5 U	0.5 U		
EPA 808	Aroclor-1232	11141-19-5			0.5 U	0.5 U		
EPA 808	Aroclor-1242	83469-21-9			0.5 U	0.5 U		
EPA 808	Aroclor-1248	12672-29-8			0.5 U	0.5 U		
EPA 808	Aroclor-1254	11097-63-1			0.5 U	0.5 U		
EPA 808	Aroclor-1260	11096-82-5			0.5 U	0.5 U		
EPA 808	Beta-BHC	319-85-7			0.02 U	0.02 U		
EPA 808	Chlordane	57-74-9			0.2 U	0.02 U		
EPA 808	Delta-BHC	319-86-8			0.02 U	0.02 U		
EPA 808	Dieldrin	60-57-1			0.02 U	0.04 U		
EPA 808	Endosulfan I	959-98-8			0.086	0.02 U		
EPA 808	Endosulfan II	332-3-65-9			0.02 U	0.04 U		
EPA 808	Endosulfan Sulfate	1031-07-6			0.02 U	0.04 U		
EPA 808	Endrin	72-20-9			0.02 U	0.05 U		
EPA 808	Endrin Aldehyde	7421-95-4			0.11	0.04 U		
EPA 808	Endrin Ketone	83464-73-5			0.02 U	0.04 U		
EPA 808	Gemina-BHC	68-88-9			0.02 U	0.02 U		
EPA 808	Heptachlor	76-44-8			0.02 U	0.02 U		
EPA 808	Heptachlor Epoxide	1024-57-3			0.02 U	0.02 U		
EPA 808	Melphexchlor	72-43-5			0.02 U	0.20 U		
EPA 808	P,P'-DDD	72-54-8			0.02 U	0.04 U		
EPA 808	P,P'-DDE	72-55-9			0.02 U	0.04 U		
EPA 808	P,P'-DDT	50-29-3			0.02 U	0.04 U		
EPA 808	Toxaphene	8001-35-2			1 U	1 U		
	Free Product Fingerprint, mg/L							
	# 2 Fuel Oil					173		

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003/625

Method	Compound/Analyte	CAS	1- BARCLAY Y+WEST	2- BARCLAY + WASHING	WTC-B-6	WTC-B6-2	Exchange Place	Exchange Pl. Tunnel E
			Verizon Manhole 9/24/01	Verizon Manhole 9/24/01	Subgrade 9/27/01	Subgrade 9/28/01	NJ PATH Sta. Tunnel E 9/29/01	NJ PATH Sta. Tunnel E 10/4/01
	Target Volatiles, ug/L							
EPA 624	1,1,1-Trichloroethane	71-55-6	0.78 U	0.78 U	5.1	3.9	0.23 U	1
EPA 624	1,1,2,2-Tetrachloroethane	79-34-5	0.71 U	0.71 U	0.71 U	0.27 U	0.27 U	0.71 U
EPA 624	1,1,2-Trichloroethane	79-00-5	0.73 U	0.73 U	0.73 U	0.87 U	0.37 U	0.73 U
EPA 624	1,1-Dichloroethane	75-34-3	0.72 U	0.72 U	1.4	0.24 U	0.24 U	0.72 U
EPA 624	1,2-Dichloroethane	75-35-2	0.84 U	0.84 U	0.84 U	0.83 U	0.33 U	0.84 U
EPA 624	1,2-Dichloropropane	107-06-2	0.52 U	0.52 U	0.52 U	0.13 U	0.13 U	0.52 U
EPA 624	1,2-Dichloropropane	78-87-5	0.8 U	0.8 U	0.8 U	0.18 U	0.18 U	0.8 U
EPA 624	2-Butanone	78-93-3	4.8	9.5	38	39	320	99
EPA 624	2-Chloroethylvinylether	110-75-8	0.72 U	0.72 U	0.72 U	0.8 U	0.8 U	0.72 U
EPA 624	2-Hexanone	591-78-5	0.18 U	0.18 U	0.18 U	0.82 U	0.32 U	0.18 U
EPA 624	4-Methyl-2-Pentanone	106-10-1	0.59 U	0.59 U	0.59 U	0.28 U	0.28 U	0.59 U
EPA 624	Acetone	67-64-1	746	92	276	210	220	270
EPA 624	Acrolein	107-02-8	4.1 U	4.1 U	4.1 U	3.2 U	3.2 U	4.1 U
EPA 624	Acrylonitrile	107-13-1	3.8 U	3.8 U	3.8 U	2.1 U	2.1 U	3.8 U
EPA 624	Benzene	71-43-2	0.53 U	1.2	11	9.8	3.5	3.1
EPA 624	Bromodichloromethane	75-27-4	0.99 U	0.99 U	0.99 U	0.15 U	0.15 U	0.99 U
EPA 624	Bromoform	75-25-2	1.1 U	1.1 U	1.1 U	0.15 U	0.15 U	1.1 U
EPA 624	Bromomethane	74-83-9	0.79 U	0.79 U	0.79 U	0.84 U	0.31 U	0.79 U
EPA 624	Carbon disulfide	75-18-0	0.69 U	0.69 U	1.1	1.7	0.27 U	0.69 U
EPA 624	Carbon tetrachloride	56-23-5	0.87 U	0.87 U	0.87 U	0.21 U	0.21 U	0.87 U
EPA 624	Chlorobenzene	108-90-7	0.75 U	0.75 U	0.75 U	0.28 U	0.28 U	0.75 U
EPA 624	Chloroethane	78-00-3	0.94 U	0.94 U	0.94 U	0.43 U	0.49 U	0.94 U
EPA 624	Chloroform	67-66-3	0.46 U	1	1.5	1.9	0.2 U	0.45 U
EPA 624	Chloromethane	74-87-3	1.1 U	1.1 U	1.1 U	0.51 U	0.51 U	1.1 U
EPA 624	Cis-1,2-Dichloroethene	156-59-2	0.73 U	0.73 U	4.3	0.27 U	0.27 U	0.73 U
EPA 624	Cis-1,3-Dichloropropene	10061-01-5	0.63 U	0.63 U	0.63 U	0.16 U	0.16 U	0.63 U
EPA 624	Dibromochloromethane	124-48-1	0.69 U	0.69 U	0.69 U	0.22 U	0.22 U	0.69 U
EPA 624	Ethylbenzene	100-41-4	0.45 U	0.45 U	8.4	4.3	1.3	1.2
EPA 624	M&P-Xylenes	1330-20-7	0.82 U	1.9	28	13	2.8	2.7
EPA 624	Methyl-t-butyl ether	1634-04-4			160	160		72
EPA 624	Methylene chloride	75-09-2	1.5 U	1.5 U	33	34	12	13
EPA 624	O-Xylene	95-47-6	0.49 U	0.49 U	11	5.3	1.4	0.49 U
EPA 624	Styrene	100-42-5	0.24 U	0.24 U	0.24 U	13	0.44 U	0.24 U
EPA 624	t-Butyl Alcohol	75-65-0			4	3.5 U		
EPA 624	Tetrachloroethene	127-18-4	0.64 U	0.64 U	1.5	0.5 U	0.3 U	0.64 U
EPA 624	Toluene	108-88-3	0.43 U	2.1	57	82	11	10
EPA 624	Trans-1,2-Dichloroethene	156-60-3	0.66 U	0.66 U	0.66 U	0.34 U	0.34 U	0.66 U
EPA 624	Trans-1,3-Dichloropropane	10061-02-6	0.28 U	0.28 U	0.28 U	0.23 U	0.23 U	0.28 U
EPA 624	Trichloroethene	79-01-6	0.72 U	0.72 U	11	1.9	1.9	1.7
EPA 624	Vinyl chloride	75-01-4	0.95 U	0.95 U	0.95 U	0.35 U	0.55 U	0.95 U
EPA 624	Chlorodifluoromethane	75-45-6			2800	1800	79 J	270
	Non-Target Volatiles							
EPA 624	1-Butanol	71-36-3			13 J			
EPA 624	1-Hexanol, 2-ethyl-	134-76-7			35 J			20 J
EPA 624	1-Nonanol	143-06-8	15 J					
EPA 624	2-Butanol	78-92-2						3.6 J
EPA 624	2-Propanol	67-83-0						9.9 J
EPA 624	Benzene, 1,3,5-trimethyl-	108-67-8			5.8 J			
EPA 624	Butane, 2-methoxy-2-methyl-	584-05-8			12 J			5.8 J
EPA 624	d-Limonene	138-86-3	6.1 J					
EPA 624	Dodecane	112-40-3				18 J		
EPA 624	Ethane, 1,1,1,2-tetrafluoro-	811-97-2				6.5 J		
EPA 624	Furan, tetrahydro-	109-99-9					37 J	41 J
EPA 624	Hexamethane	629-84-7				82 J		
EPA 624	Mtba	1634-04-4	6.5 J	14 J				
EPA 624	Naphthalene	91-20-3		5.9 J	14 J	13 J		
EPA 624	Naphthalene, 2-methyl-	91-57-6			6.1 J			
EPA 624	Octadecane	563-45-3				18 J		
EPA 624	Octane, 1,1'-oxybis-	629-82-3				11 J		
EPA 624	Sulfur dioxide (DOT)	2025884	3.5 J	3.4 J				

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Method	Compound/Analyte	CAS	1- BARCLAY Y+WEST	2- BARCLAY WASHING	WTC-B-6	WTC-B-6.2	Exchange Place	Exchange Pl Tunnel E
			Verizon Manhole	Verizon Manhole	Subgrade	Subgrade	NJ PATH Sta. Tunnel E	NJ PATH Sta. Tunnel E
			9/24/01	9/24/01	9/27/01	9/28/01	9/29/01	10/1/01
Target Semi-Volatile Compounds								
EPA 625	1,2,4-Trichlorobenzene	120-82-1			4.4 U	10 U	0.88 U	
EPA 625	1,2-Dichlorobenzene	95-50-1			4.2 U	10 U	0.83 U	
EPA 625	1,2-Diphenylhydrazine	122-66-7			1 U	10 U	0.2 U	
EPA 625	1,3-Dichlorobenzene	541-73-1			3.7 U	10 U	0.74 U	
EPA 625	1,4-Dichlorobenzene	106-46-7			4.8 U	10 U	0.91 U	
EPA 625	2,4,5-Trichlorophenol	95-95-4			24 U	7 J	4.8 U	
EPA 625	2,4,6-Trichlorophenol	88-06-2			19 U	10 U	3.9	
EPA 625	2,4-Dichlorophenol	120-83-2			33 U	10 U	6.5 U	
EPA 625	2,4-Dimethylphenol	105-67-3			39	30	39	
EPA 625	2,4-Dinitrophenol	51-28-6			29 U	10 U	5.9 U	
EPA 625	2,4-Dinitrotoluene	121-14-2			1.9 U	10 U	0.38 U	
EPA 625	2,6-Dinitrotoluene	806-20-2			2 U	10 U	0.4 U	
EPA 625	2-Chloronaphthalene	91-58-7			2.7 U	10 U	0.54 U	
EPA 625	2-Chlorophenol	95-57-8			29 U	4 J	3.4 J	
EPA 625	2-Methylnaphthalene	91-57-6			12 J	20	2.3 J	
EPA 625	2-Methylphenol	95-48-7			79	50	50	
EPA 625	2-Nitroaniline	88-74-4			12 U	10 U	2.3 U	
EPA 625	2-Nitrophenol	88-75-5			21 U	10 U	4.3 U	
EPA 625	3,4-Methylphenol	106-44-5			140	97	41	
EPA 625	3,3'-Dichlorobenzidine	91-84-1			16 U	10 U	3.2 U	
EPA 625	3-Nitroaniline	99-09-2			23 U	10 U	5.7 U	
EPA 625	4,6-Dinitro-2-methylphenol	534-52-1			27 U	10 U	5.5 U	
EPA 625	4-Bromophenyl-phenylether	101-55-3			3.8 U	10 U	0.78 U	
EPA 625	4-Chloro-3-methylphenol	59-50-7			33 U	10 U	6.6 U	
EPA 625	4-Chloroaniline	106-47-8			24 U	10 U	4.9 U	
EPA 625	4-Chlorophenyl-phenylether	7005-72-3			2.5 U	10 U	0.5 U	
EPA 625	4-Nitroaniline	100-01-6			17 U	10 U	3.5 U	
EPA 625	4-Nitrophenol	100-02-7			10 U	10 U	2 U	
EPA 625	Acenaphthene	83-32-9			1.8 U	6 J	3.5	
EPA 625	Acenaphthylene	208-96-8			1.7 U	10 U	0.34 U	
EPA 625	Anthracene	120-12-7			2 U	3 J	2	
EPA 625	Benidine	92-87-5			20 U	10 U	4 U	
EPA 625	Benzo[a]anthracene	58-55-3			1.9 U	10 U	0.37 U	
EPA 625	Benzo[a]pyrene	50-32-8			1.6 U	10 U	0.32 U	
EPA 625	Benzo[b]fluoranthene	205-99-2			2.5 U	10 U	0.49 U	
EPA 625	Benzo[g,h,i]perylene	191-24-2			2.2 U	10 U	0.44 U	
EPA 625	Benzo[k]fluoranthene	207-08-9			1.3 U	10 U	0.26 U	
EPA 625	Bis(2-Chloroethoxy)methane	111-91-4			4.1 U	10 U	0.81 U	
EPA 625	Bis(2-Chloroethyl)ether	111-44-4			3.7 U	10 U	0.74 U	
EPA 625	Bis(2-Chloroisopropyl)ether	108-60-1			2.4 U	10 U	0.48 U	
EPA 625	Bis(2-Ethylhexyl)phthalate	117-81-7			3.9 U	3 J	2.7 B	
EPA 625	Butylbenzylphthalate	85-69-7			2 U	10 U	0.4 U	
EPA 625	Carbazole	86-74-6			6.9	10 U	9.8	
EPA 625	Chrysene	218-01-9			1.2 U	10 U	0.24 U	
EPA 625	Di-n-butylphthalate	84-74-2			2 U	10 U	0.4 U	
EPA 625	Di-n-octylphthalate	117-84-0			2.2 U	10 U	0.44 U	
EPA 625	Dibenz[a,h]Anthracene	53-70-3			2 U	10 U	0.4 U	
EPA 625	Dibenzofuran	132-64-9			7.5 U	4 J	2.8	
EPA 625	Dialkylphthalate	84-66-2			5.4 U	10 U	4.4	
EPA 625	Dimethylphthalate	131-11-3			1.2 U	10 U	1.8	
EPA 625	Fluoranthene	206-44-0			1.9 U	3 J	3	
EPA 625	Fluorene	86-73-7			1.9 U	10 U	2.7	
EPA 625	Hexachlorobenzene	118-74-1			2.7 U	10 U	0.53 U	
EPA 625	Hexachlorobutadiene	87-68-3			4.7 U	10 U	0.93 U	
EPA 625	Hexachlorocyclopentadiene	77-47-4			31 U	10 U	6.2 J	
EPA 625	Hexachloroethane	67-72-1			5.2 U	10 U	1 U	
EPA 625	Indeno[1,2,3-cd]pyrene	193-39-5			1.9 U	10 U	0.37 U	
EPA 625	Isophorone	79-59-1			2 U	10 U	0.39 U	
EPA 625	N-Nitroso-Di-N-Propylamine	521-64-7			3.1 U	10 U	0.62 U	
EPA 625	N-Nitrosodimethylamine	62-75-8			2.5 U	10 U	0.5 U	
EPA 625	N-Nitrosodiphenylamine	86-30-6			2.9 U	10 U	0.58 U	
EPA 625	Naphthalene	91-20-3			16	17	0.73 U	
EPA 625	Nitrobenzene	98-95-3			2.3 U	10 U	0.45 U	
EPA 625	Pentachlorophenol	87-86-5			19 U	10 U	3.8 U	
EPA 625	Phenanthrene	85-01-3			5.6	20	7.4	
EPA 625	Phenol	108-95-2			650	490	130	
EPA 625	Pyrene	129-00-0			1.3 U	2 J	1.7	

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005/025

Method	Compound/Analyte	CAS	1- BARCLAY Y+WEST	2- BARCLAY + WASHING	WTC-B-6	WTC-B6-2	Exchange Place	Exchange Pl. Tunnel E
			Verizon Manhole	Verizon Manhole	Subgrade	Subgrade	NJ PATH Sta. Tunnel E	NJ PATH Sta. Tunnel E
			9/24/01	9/24/01	3/27/01	9/28/01	9/29/01	10/1/01
Non-Target Semi-Volatile Compounds								
EPA 625	1-Hexanol, 2-ethyl-	104-76-7			87 J		62 J	
EPA 625	2-Cyclopenten-1-one, 3-methyl-	2758-18-1					24 J	
EPA 625	2H-Azepin-2-one, hexahydro-	105-60-2			110 J			
EPA 625	3-Pyridinol, 6-methyl-, acetate (ester)	4842-89-1					16 J	
EPA 625	9-Octadecenamide, (Z)-	301-02-6					39 J	
EPA 625	9H-Fluoren-2-amine	153-78-6					14 J	
EPA 625	9H-Fluoren-9-one	486-25-9					15 J	
EPA 625	Benzaldehyde, 4-hydroxy-3- methoxy-	121-33-5			120 J			
EPA 625	Benzene, 1-azido-2-methyl-	31858-82-5			27 J			
EPA 625	Benzenebutanenitrile	2048-18-6			48 J			
EPA 625	Benzenebutanoic acid, 2,5- dimethyl-	1453-06-1			83 J			
EPA 625	Benzenemethanol	100-51-6			140 J			
EPA 625	Benzenepropanoic acid	501-52-0			32 J			
EPA 625	Benzolic acid	65-85-0			690 J	1100	188 J	
EPA 625	Benzoic acid, 3-methyl-	99-04-7					23 J	
EPA 625	Benzoic acid, 4-methyl-	99-94-5					55 J	
EPA 625	Butanoic acid	107-92-6			40 J			
EPA 625	Cyclohexanone	108-94-1					99 J	
EPA 625	Dodecanamide	1120-16-7					32 J	
EPA 625	EPICUVABIONE	26462-72-6					17 J	
EPA 625	Ethanol, 2-(2-butoxyethoxy)-	112-34-5			92 J			
EPA 625	Ethanol, 2-butoxy-	111-76-2			170 J		40 J	
EPA 625	Ethanol, 2-butoxy-, phosphate (3:1)	78-51-3					16 J	
EPA 625	Ethanone, 1-(4-hydroxyphenyl)-	99-93-4					18 J	
EPA 625	Hexadecanamide	629-54-9			46 J			
EPA 625	Hexanoic acid, 2-ethyl-	149-57-5			66 J			
EPA 625	Isoquinoline	119-65-3			33 J		20 J	
EPA 625	Phenol, 3,5-dimethyl-	108-68-9					49 J	
EPA 625	Phenol, 4,4'-(1- methylenehydrazine)bis-	80-05-7			110 J		66 J	
EPA 625	Phenol, 4-(1-methylethyl)-	99-89-8			160 J		100 J	
EPA 625	Pyridine, 3-(1-methyl-2-pyrrolidinyl)	54-11-5			23 J			

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