

SGS Accutest New Jersey

Account: Arca
 Project: Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY

Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 13(202-203)	RW-21_VP- 13(211-212)	RW-21_VP- 13(221-222)	RW-21_VP- 13(241-242)	RW-21_VP- 13(261-262)
Date Sampled:		7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/26/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	0.36 J	0.26 J	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	0.46 J	0.38 J	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	5.7 J	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	0.29 J	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	0.37 J	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	3.3	89.6	72.4	8.1	0.45 J
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	9	90.71	73.04	8.47	0.45

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Account:		Arcadis				
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:					Hit	Exceed
Sample ID	NY TOGS Class	RW-21_VP- 13(281-282)	RW-21_VP- 13(301-302)	RW-21_VP- 13(331-332)	RW-21_VP- 13(341-342)	RW-21_VP- 13(361-362)
Date Sampled:	GA GW Standards (NYSDEC 6/2004)	7/26/2016	7/26/2016	7/27/2016	7/27/2016	7/27/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	<1.0	0.28 J	<1.0	0.47 J
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	0.21 J
1,1-Dichloroethene	5	<1.0	<1.0	0.20 J	<1.0	0.48 J
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	1.0 J	<2.0	0.34 J
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	0.26 J
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	1	<1.0	0.46 J	<1.0	0.51 J
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	0.59 J	<1.0	0.74 J
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	198	1.6	89.9	17.6	122
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	199	1.6	92.43	17.6	125.01

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Account:		Arcadis				
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 13(381-382)	RW-21_VP- 13(401-402)	RW-21_VP- 13(431-432)	RW-21_VP- 13(446-447)	RW-21_VP- 13(461-462)
Date Sampled:		7/27/2016	7/28/2016	7/28/2016	7/28/2016	7/28/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	1.1	1.1	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	0.60 J	0.58 J	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	1.6	1.3	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	0.59 J	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	4.1 J	6.0 J	9.8 J	4.6 J
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	0.50 J	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	0.38 J	0.73 J	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	0.50 J	0.91 J	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	5.2	3.5 J	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	0.82 J	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	1.3	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	150	155	1.5	2.2	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	161.18	167.81	7.5	12.82	4.6

SGS Accutest New Jersey

Account:		Arcadis				
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:					Hit	Exceed
Sample ID	NY TOGS Class	RW-21_VP- 13(481-482)	RW-21_VP- 13(501-502)	RW-21_VP- 13(525-526)	RW-21_VP- 13(551-552)	RW-21_VP- 13(572-573)
Date Sampled:	GA GW Standards (NYSDEC 6/2004)	8/1/2016	8/1/2016	8/2/2016	8/2/2016	8/2/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	0.86 J	0.43 J	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	6.6 J	<10	5.4 J	8.8 J	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	0.43 J	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	1.2	1.5	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	47.6	120	5.9	2.5	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	56.69	121.93	11.3	11.3	0

SGS Accutest New Jersey

Account:		Arcadis				
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:					Hit	Exceed
Sample ID	NY TOGS Class	RW-21_VP- 13(591-592)	RW-21_VP- 13(611-612)	RW-21_VP- 13(631-632)	RW-21_VP- 13(651-652)	RW-21_VP- 13(676-677)
Date Sampled:	GA GW Standards (NYSDEC 6/2004)	8/2/2016	8/2/2016	8/3/2016	8/3/2016	8/3/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	7.6 J	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	1.2	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	0.43 J	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	0.59 J	2.7	<1.0	<1.0	1
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	0.59	10.3	0	1.63	1

SGS Accutest New Jersey

Account:		Arcadis				
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:					Hit	Exceed
Sample ID	NY TOGS Class	RW-21_VP- 13(691-692)	RW-21_VP- 13(711-712)	RW-21-VP- 13(736-737)	RW-21-VP- 13(776-777)	RW-22-VP-13 (791-792)
Date Sampled:	GA GW Standards (NYSDEC 6/2004)	8/3/2016	8/3/2016	8/4/2016	8/4/2016	8/8/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	7.2 J	8.5 J	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	0.65 J	0.30 J	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	1	0.48 J	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0 ^a
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	0.27 J	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	1	1.2	1	<1.0	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	2.65	9.18	9.77	0	0

SGS Accutest New Jersey

Account:		Arcadis				
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:					Hit	Exceed
Sample ID	NY TOGS Class	RW-22-VP-13 (811-812)	RW-22_VP- 13(835-836)	RW-22_VP- 13(851-852)	RW-22_VP- 13(876-877)	RW-22_VP- 13(891-892)
Date Sampled:	GA GW Standards (NYSDEC 6/2004)	8/8/2016	8/9/2016	8/9/2016	8/9/2016	8/9/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	<10	<10	<10	5.7 J
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	0.36 J
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0 ^a	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0	0.29 J
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	0	0	0	0	6.35

SGS Accutest New Jersey						
Account:	Arcadis					
Project:	Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY					
Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW- 22_VP_13(915-916)	RW-21_VP- 13(705-715)	RW-21_VP- 13(715-725)	RW-21_VP- 13(725-735)	RW-21_VP- 14(310-311)
Date Sampled:		8/10/2016	8/29/2016	8/29/2016	8/25/2016	9/20/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	5.0 J	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	2.1	1.5	0.46 J	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	8.4	7.7	3.3	6.4
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	33.5
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	14.3	16.1	12	7.7
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	1
Total VOCs	-	5	24.8	25.3	15.76	48.6

SGS Accutest New Jersey						
Account:	Arcadis					
Project:	Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY					
Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 14(340-341.5)	RW_21_VP- 14(350-351)	RW-21_VP- 14(370-372)	RW-21_VP- 14(390-392)	RW-21_VP- 14(410-411.5)
Date Sampled:		9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/21/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	0.57 J	0.83 J	0.80 J	0.98 J
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	1.2	3.8	4.5	3.7	5.5
1,1-Dichloroethene	5	0.67 J	1.4	1.4	1.7	2.2
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	3.7 J	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	11.9	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	0.26 J	0.49 J	0.46 J	0.63 J	0.76 J
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	36.7	26.3	1.2	6.6	27.1
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	139	51.2	5.4	31.8	29.3
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	0.72 J	0.50 J	<1.0	<1.0	0.76 J
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	42.7	24.4	6.3	11.7	29.9
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	236.85	108.66	20.09	56.93	96.5

SGS Accutest New Jersey

Account:		Arcadis				
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 14(430-431)	RW-21_VP- 14(470-471.5)	RW-21_VP- 14(490-491.5)	RW-21_VP- 14(540-541.5)	RW-21_VP- 14(570-571)
Date Sampled:		9/21/2016	9/22/2016	9/22/2016	9/27/2016	9/27/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	0.74 J	0.51 J	<1.0	0.74 J	0.50 J
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	3.7	1.4	0.40 J	4.7	3.6
1,1-Dichloroethene	5	1.5	0.64 J	<1.0	1.4	0.92 J
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	0.28 J	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	0.64 J	0.34 J	0.27 J	0.66 J	0.82 J
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	2.2	2	0.92 J	0.73 J	1.6
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	10.8	2	1.5	<1.0	<1.0
Toluene	5	<1.0	<1.0	0.32 J	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	5.2	4.8	1.3	7	1.9
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	24.78	11.69	4.99	15.23	9.34

SGS Accutest New Jersey

Account:		Arcadis			
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY			
Legend:				Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 14(615-616.5)	RW-21_VP- 14(617-619)	RW-21_VP- 14(630-631)	RW-21_VP- 14(650-651)
Date Sampled:		9/28/2016	9/29/2016	9/29/2016	9/29/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)					
1,1,1-Trichloroethane	5	0.94 J	1.9	0.29 J	0.44 J
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	0.65 J	1.2	0.59 J	0.38 J
1,1-Dichloroethane	5	2.8	5.2	0.62 J	0.93 J
1,1-Dichloroethene	5	2.9	5	0.62 J	1
1,2-Dichloroethane	0.6	4.9	8.7	2.1	1.4
1,2-Dichloropropane	1	0.51 J	0.92 J	1.2	0.47 J
2-Butanone (MEK)	-	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	<10	<10	<10
Benzene	1	0.15 J	<0.50	0.16 J	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	1.6	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0
Chloroform	7	16.7	29.8	2.8	1.1
Chloromethane	5	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	51	95.9	32.2	19.7
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	0.29 J	<1.0
Toluene	5	<1.0	<1.0	0.62 J	<1.0
trans-1,2-Dichloroethene	5	<1.0	1.1	0.57 J	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	311	587	605	596
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	391.55	738.32	647.06	621.42

SGS Accutest New Jersey						
Account:	Arcadis					
Project:	Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY					
Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 14(670-671)	RW-21_VP- 14(700-701)	RW-21_VP- 14(720-721)	RW-21_VP- 14(730-731)	RW-21_VP- 14(755-756)
Date Sampled:		9/29/2016	10/3/2016	10/4/2016	10/4/2016	10/5/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	1.1	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	0.29 J	0.29 J	0.37 J
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	40.6	0.32 J	0.35 J	<1.0	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	41.7	0.32	0.64	0.29	0.37

SGS Accutest New Jersey

Account:		Arcadis			
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY			
Legend:				Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 14(770-771.5)	RW-21_VP- 14(790-791.5)	RW-21_VP- 15(233-233.5)	RW-21_VP- 15(243-243.5)
Date Sampled:		10/5/2016	10/5/2016	7/20/2016	7/21/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)					
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	0.61 J
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	0.90 J
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	23.7	<10
2-Hexanone	-	<5.0	<5.0	3.0 J	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	3.8 J	<5.0
Acetone	-	5.1 J	<10	126	8.5 J
Benzene	1	<0.50	<0.50	0.64	0.34 J
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	0.23 J
Chloromethane	5	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	0.99 J
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	0.74 J
Toluene	5	<1.0	<1.0	0.45 J	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	<1.0	7.7	76.4
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	5.1	0	165.29	88.71

SGS Accutest New Jersey

Account:		Arcadis					
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY					
Legend:						Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 15(260.5-261)	RW-21_VP- 15(283-284)	RW-21_VP- 15(303-304)	RW-21_VP- 15(321-321.5)	RW-21_VP- 15(341-341.5)	
Date Sampled:		7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/22/2016	
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	
VOCs (ug/L)							
1,1,1-Trichloroethane	5	0.23 J	<1.0	0.62 J	0.35 J	<1.0	
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1-Dichloroethane	5	0.45 J	<1.0	1.2	0.38 J	<1.0	
1,1-Dichloroethene	5	0.63 J	<1.0	1.4	0.57 J	<1.0	
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	
2-Butanone (MEK)	-	<10	<10	<10	<10	5.1 J	
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0	
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0	
Acetone	-	5.8 J	<10	<10	<10	14.8	
Benzene	1	<0.50	<0.50	<0.50	<0.50	0.43 J	
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0	
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	0.49 J	
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0	
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	
Chloroform	7	<1.0	<1.0	0.30 J	<1.0	<1.0	
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	
cis-1,2-Dichloroethene	5	0.95 J	<1.0	1.3	0.75 J	<1.0	
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0	
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	
Freon 113	5	<5.0 ^a	<5.0	<5.0	<5.0 ^a	<5.0	
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0	
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0	
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0	
Tetrachloroethene	5	0.96 J	0.30 J	1.2	1.1	1.1	
Toluene	5	<1.0	<1.0	<1.0	<1.0	0.35 J	
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0	
Trichloroethene	5	73.1	38.2	156	83.4	20.8	
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	
Total VOCs	-	82.12	38.5	162.02	86.55	43.07	

SGS Accutest New Jersey					
Account:	Arcadis				
Project:	Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:				Hit	Exceed
Sample ID	NY TOGS Class	RW-21_VP- 15(362.5-363.5)	RW-21_VP- 15(382-383)	RW-21_VP- 15(403-404)	RW-21_VP- 15(423.5-424.5)
Date Sampled:	GA GW Standards	7/22/2016	7/26/2016	7/26/2016	7/26/2016
Matrix:	(NYSDEC 6/2004)	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)					
1,1,1-Trichloroethane	5	0.76 J	1	0.71 J	0.52 J
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	1.3	2.6	1.7	0.84 J
1,1-Dichloroethene	5	1	2.2	1.3	0.62 J
1,2-Dichloroethane	0.6	<1.0	0.53 J	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	<10	4.0 J	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0
Chloroform	7	0.26 J	0.46 J	0.32 J	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	0.68 J	1.1	0.74 J	0.67 J
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	1.2 J	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	1.9	0.83 J	0.52 J	0.45 J
Toluene	5	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	88.2	193	124	109
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	94.1	202.92	133.29	112.1

SGS Accutest New Jersey

Account:		Arcadis				
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 15(443.5-444.5)	RW-21_VP- 15(463.5-464)	RW-21_VP- 15(481.5-482)	RW-21_VP- 15(504-505)	RW-21_VP- 15(522-523)
Date Sampled:		7/26/2016	7/26/2016	7/27/2016	7/27/2016	7/27/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	0.83 J	0.80 J	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	0.62 J	0.65 J	<1.0	<1.0
1,1-Dichloroethane	5	0.30 J	1.2	1.2	<1.0	0.33 J
1,1-Dichloroethene	5	0.27 J	1.9	1.6	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	5.1 J	<10	5.5 J	<10	<10
Benzene	1	<0.50	<0.50	0.20 J	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	0.39 J	0.39 J	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	0.74 J	2.8	2.8	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	2.0 J	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	0.57 J	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	93.1	452	415	<1.0	1
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	99.51	462.31	428.14	0	1.33

SGS Accutest New Jersey

Account:		Arcadis				
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 15(553-554)	RW-21_VP- 15(591.5-592)	RW-21_VP- 15(607-607.5)	RW-21_VP- 15(622-623)	RW-21_VP- 15(643-644)
Date Sampled:		7/27/2016	7/28/2016	7/28/2016	8/1/2016	8/1/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	0.39 J	<1.0	<1.0	<10	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<10	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<10	<1.0
1,1-Dichloroethane	5	2.1	<1.0	<1.0	<10	<1.0
1,1-Dichloroethene	5	0.67 J	<1.0	<1.0	<10	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<10	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<10	<1.0
2-Butanone (MEK)	-	<10	<10	5.1 J	<100	9.6 J
2-Hexanone	-	<5.0	<5.0	<5.0	<50	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<50	<5.0
Acetone	-	<10	6.5 J	14.9	40.6 J	13.8
Benzene	1	<0.50	<0.50	<0.50	<5.0	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<10	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<10	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<20	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<20	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<10	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<10	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<50	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<10	<1.0
Chloroform	7	0.55 J	<1.0	<1.0	<10	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<10	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<10	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<10	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<10	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<20	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<10	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<50	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<10	<1.0
Methylene chloride	5	<2.0	1.1 J	<2.0	<20	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<10	0.30 J
Styrene	5	<1.0	<1.0	<1.0	<10	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<10	<1.0
Toluene	5	<1.0	1.2	<1.0	<10	0.32 J
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<10	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<10	<1.0
Trichloroethene	5	2.4	0.32 J	0.36 J	<10	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<10	<1.0
Total VOCs	-	6.11	9.12	20.36	40.6	24.02

SGS Accutest New Jersey

Account:	Arcadis
Project:	Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY

Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 15(663-664)	RW-21_VP- 15(682.5-683)	RW-21_VP- 15(702-703)	RW-21_VP- 15(722-722.5)	RW-21_VP- 15(747.5-748)
Date Sampled:		8/1/2016	8/1/2016	8/2/2016	8/2/2016	8/2/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	7.4 J	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	18	<10	<10	10.2	5.6 J
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	0.34 J	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	0.53 J	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	5.9	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	40.2	<1.0	0.80 J	0.72 J
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	25.74	46.63	0	11	6.32

SGS Accutest New Jersey						
Account:	Arcadis					
Project:	Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY					
Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 15(781-781.5)	RW-21_VP- 15(802-803)	RW-21_VP- 15(822-823)	RW-21_VP- 15(842-843)	RW-21_VP- 16(202.5-203)
Date Sampled:		8/3/2016	8/3/2016	8/3/2016	8/4/2016	9/7/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	4.7 J	<10	<10	11.4	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	<1.0	<1.0	0.49 J	1.1
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	4.7	0	0	11.89	1.1

SGS Accutest New Jersey

Account:		Arcadis			
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY			
Legend:				Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 16(222.5-223)	RW-21_VP- 16(242.5-243)	RW-21_VP- 16(262.5-263)	RW-21_VP- 16(285.5-286)
Date Sampled:		9/7/2016	9/7/2016	9/7/2016	9/7/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)					
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	2.4 J	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	<10	<10	<10
Benzene	1	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	2.4
Bromoform	-	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	2.5
Chloromethane	5	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	1.5
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	0.33 J	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	0.44 J	0.44 J	0.75 J	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	0.44	0.77	3.15	6.4

SGS Accutest New Jersey

Account:		Arcadis			
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY			
Legend:				Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 16(312.5-313)	RW-21_VP- 16(332.5-333)	RW-21_VP- 16(345.5-346)	RW-21_VP- 16(362.5-363)
Date Sampled:		9/8/2016	9/8/2016	9/9/2016	9/12/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)					
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	0.63 J	<1.0	0.99 J	0.43 J
1,1-Dichloroethene	5	0.45 J	<1.0	0.51 J	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	4.1 J	<10	4.4 J
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	7.7 J	<10	21.7
Benzene	1	<0.50	<0.50	<0.50	0.27 J
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	0.58 J	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0
Chloroform	7	0.84 J	0.65 J	0.29 J	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	0.74 J	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	0.35 J	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	0.30 J	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	62.1	3.9	146	19.8
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	65.06	16.35	148.72	46.6

SGS Accutest New Jersey

Account:		Arcadis			
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY			
Legend:				Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 16(385.5-386)	RW-21_VP- 16(402.5-403)	RW-21_VP- 16(422.5-423)	RW-21_VP- 16(445.5-446)
Date Sampled:		9/12/2016	9/12/2016	9/12/2016	9/13/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)					
1,1,1-Trichloroethane	5	<1.0	<1.0	0.80 J	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	4.1	0.33 J
1,1-Dichloroethene	5	<1.0	<1.0	1.7	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	<10	4.3 J
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	<10	<10	26.7
Benzene	1	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	0.35 J
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	0.35 J	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	0.52 J	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	0.71 J	0.57 J	114	8.4
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	0.71	0.57	121.47	40.08

SGS Accutest New Jersey

Account:		Arcadis			
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY			
Legend:				Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 16(485.5-486)	RW-21_VP- 16(502.5-503)	RW-21_VP- 16(521.5-522)	RW-21_VP- 16(565.5-566)
Date Sampled:		9/14/2016	9/14/2016	9/14/2016	9/15/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)					
1,1,1-Trichloroethane	5	<1.0	0.46 J	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	3.3	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	0.90 J	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	0.50 J	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	4.8 J	<10	4.7 J	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0
Acetone	-	27.9	9.6 J	38.8	13.3
Benzene	1	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	0.47 J	2	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	1.5	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	3.7	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	0.73 J	15.1	0.36 J	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	33.43	35.53	45.86	13.3

SGS Accutest New Jersey

Account:		Arcadis			
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY			
Legend:				Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 16(581.5-582)	RW-21_VP- 16(585.5-586)	RW-21_VP- 16(611.5-612)	RW-21_VP- 16(625.5-626)
Date Sampled:		9/15/2016	9/19/2016	9/20/2016	9/20/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)					
1,1,1-Trichloroethane	5	<1.0	<1.0	0.47 J	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	0.40 J	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	1.7	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	1.1	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	2.7	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	0.39 J	<1.0
2-Butanone (MEK)	-	<10	4.4 J	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	38.7	6.6 J	7.2 J
Benzene	1	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	0.98 J	<2.0	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	8.9	1
Chloromethane	5	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	<1.0	34	0.68 J
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	0.54 J	172	0.72 J
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	0	44.62	228.26	9.6

SGS Accutest New Jersey

Account:		Arcadis				
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 16(641.5-642)	RW-21_VP- 16(658-659)	RW-21_VP- 16(667-668)	RW-21_VP- 16(672-673)	RW-21_VP- 16(681.5-682)
Date Sampled:		9/20/2016	9/21/2016	9/21/2016	9/22/2016	9/22/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	0.90 J	0.31 J	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	0.73 J	0.32 J	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	0.82 J	0.55 J	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	4	1.2	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	1.1	0.46 J	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	<10	9.9 J	3.5 J	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	<10	31.9	26	22.6
Benzene	1	0.16 J	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	0.55 J	<2.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	7	10.8	2.9	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	77	25.1	1.7	0.68 J	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	<1.0	<1.0	0.27 J	0.52 J
trans-1,2-Dichloroethene	5	0.38 J	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	614	263	29.5	12.3	0.52 J
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	709.89	293.84	73	43.3	23.64

SGS Accutest New Jersey

Account:		Arcadis			
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY			
Legend:				Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 16(702-703')	RW-21_VP- 16(713-714')	RW-21_VP- 16(728-729')	RW-21_VP- 16(751-752')
Date Sampled:		9/27/2016	9/27/2016	9/28/2016	9/29/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)					
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	-	<10	3.3 J	<10	<10
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0
Acetone	-	<10	<10	23.9	12.9
Benzene	1	<0.50	0.17 J	<0.50	<0.50
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0
Bromoform	-	<1.0	<1.0	<1.0	<1.0
Bromomethane	5	<2.0	<2.0	<2.0	<2.0
Carbon disulfide	60	<2.0	<2.0	<2.0	<2.0 ^a
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0
Chloroethane	5	<1.0	<1.0	<1.0	<1.0
Chloroform	7	<1.0	<1.0	<1.0	<1.0
Chloromethane	5	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	5	<1.0	0.31 J	<1.0	<1.0
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0
Freon 113	5	<5.0	<5.0	<5.0	<5.0
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0
o-Xylene	5	<1.0	<1.0	<1.0	<1.0
Styrene	5	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0
Toluene	5	<1.0	0.35 J	<1.0	<1.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	0.65 J	8.2	<1.0	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0
Total VOCs	-	0.65	12.33	23.9	12.9

SGS Accutest New Jersey

Account:		Arcadis						
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY						
Legend:							Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-21_VP- 16(761-762')	RW-22(651-651. 5)	RW-22(661-661. 5)	RW-22(672-672. 5)	RW-22(681.5- 682)	RW-22(691.5- 692)	
Date Sampled:		9/29/2016	9/21/2016	9/22/2016	9/22/2016	9/23/2016	9/27/2016	
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	
VOCs (ug/L)								
1,1,1-Trichloroethane	5	<1.0	0.43 J	<1.0	<1.0	<1.0	<1.0	
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2-Trichloroethane	1	<1.0	0.87 J	<1.0	<1.0	<1.0	<1.0	
1,1-Dichloroethane	5	<1.0	0.77 J	<1.0	<1.0	<1.0	<1.0	
1,1-Dichloroethene	5	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	
1,2-Dichloroethane	0.6	<1.0	3.1	<1.0	0.65 J	0.40 J	<1.0	
1,2-Dichloropropane	1	<1.0	1	<1.0	<1.0	<1.0	<1.0	
2-Butanone (MEK)	-	<10	<10	<10	<10	<10	4.8 J	
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Acetone	-	<10	<10	<10	5.8 J	<10	49.4	
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Carbon disulfide	60	<2.0 ^a	<2.0	<2.0	<2.0	<2.0	0.79 J	
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Chloroform	7	<1.0	5.4	1.4	1.4	0.66 J	<1.0	
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
cis-1,2-Dichloroethene	5	<1.0	80.3	3.9	10.7	6.1	<1.0	
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
trans-1,2-Dichloroethene	5	<1.0	0.66 J	<1.0	0.53 J	<1.0	<1.0	
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Trichloroethene	5	<1.0	789	18.7	116	102	0.36 J	
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Total VOCs	-	0	882.73	24	135.08	109.16	55.35	

SGS Accutest New Jersey

Account:		Arcadis						
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY						
Legend:							Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-22(702.5- 703)	RW-22(712-712. 5)	RW-22(736.8- 737)	RW-22 (742.5- 743')	RW-22(761-761. 5')	RW-22(772-772. 5')	
Date Sampled:		9/27/2016	9/28/2016	9/29/2016	10/3/2016	10/4/2016	10/4/2016	
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	
VOCs (ug/L)								
1,1,1-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1,2-Trichloroethane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,1-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2-Dichloroethane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,2-Dichloropropane	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
2-Butanone (MEK)	-	<10	<10	<10	<10	<10	<10	
2-Hexanone	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Acetone	-	<10	16	17.9	8.3 J	<10	<10	
Benzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
Bromodichloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Bromoform	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Bromomethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Carbon disulfide	60	<2.0 ^a	<2.0	<2.0 ^a	<2.0	<2.0	<2.0	
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Chlorobenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Chlorodifluoromethane	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Chloroethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Chloroform	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Chloromethane	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
cis-1,2-Dichloroethene	5	1.4	0.63 J	<1.0	<1.0	<1.0	<1.0	
cis-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Dibromochloromethane	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Dichlorodifluoromethane	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Ethylbenzene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Freon 113	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
m,p-Xylene	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Methylene chloride	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
o-Xylene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Styrene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Toluene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
trans-1,2-Dichloroethene	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
trans-1,3-Dichloropropene	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Trichloroethene	5	42.4	14	<1.0	1.7	<1.0	<1.0	
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Total VOCs	-	43.8	30.63	17.9	10	0	0	

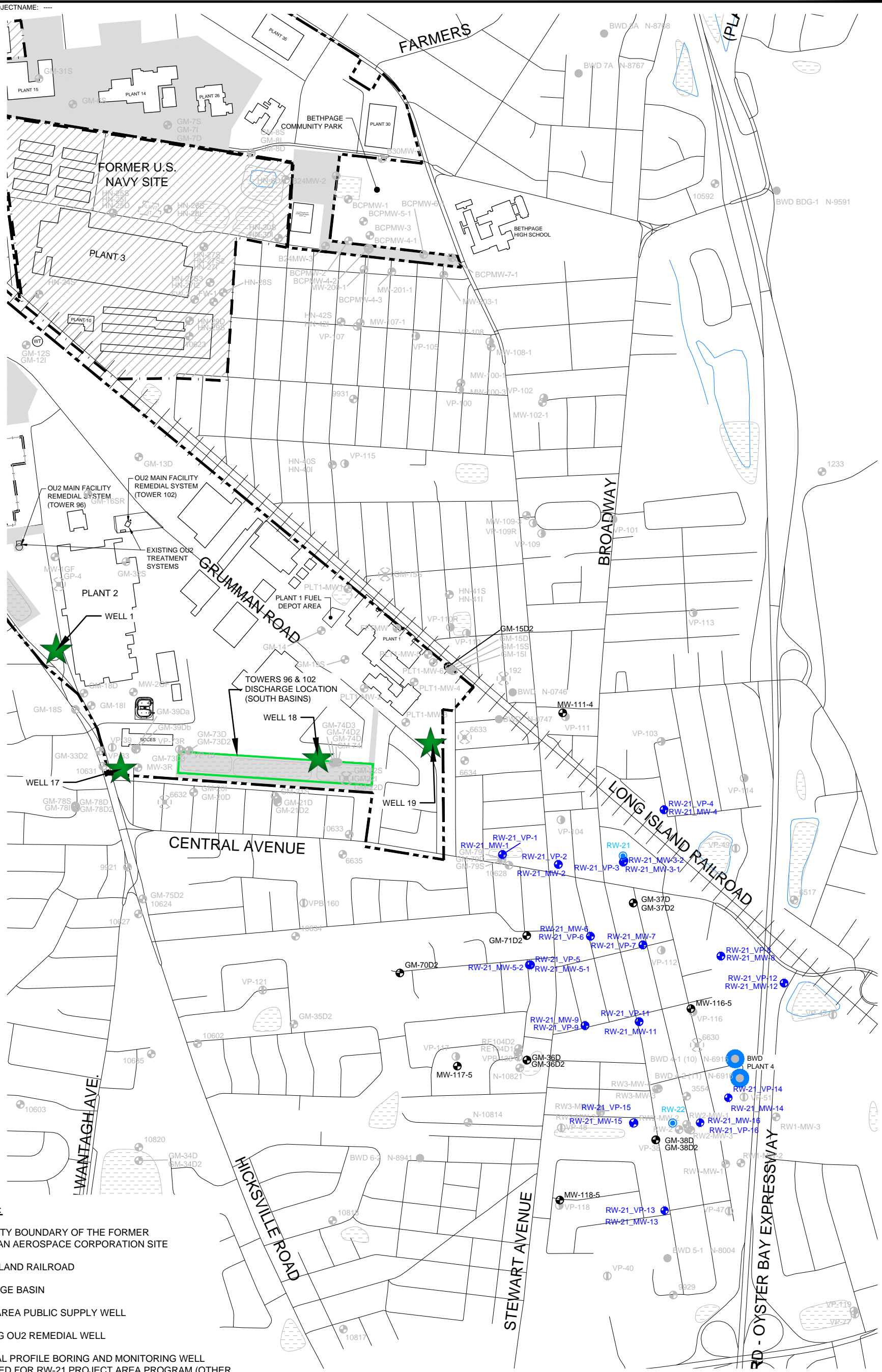
SGS Accutest New Jersey

Account:		Arcadis				
Project:		Northrop Grumman, OU3 RW-21 Project Area, Bethpage, NY				
Legend:					Hit	Exceed
Sample ID	NY TOGS Class GA GW Standards (NYSDEC 6/2004)	RW-22(781.5- 782')	RW-21_MW-13	RW-21_MW- 14(102616)	RW-21_MW- 15(081916)	RW-21_MW- 16(101816)
Date Sampled:		10/5/2016	9/8/2016	10/26/2016	8/19/2016	10/18/2016
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
VOCs (ug/L)						
1,1,1-Trichloroethane	5	<1.0	<1.0	<5.0	<1.0	<5.0
1,1,2,2-Tetrachloroethane	5	<1.0	<1.0	<5.0	<1.0	<5.0
1,1,2-Trichloroethane	1	<1.0	<1.0	<5.0	<1.0	<5.0
1,1-Dichloroethane	5	<1.0	<1.0	1.3 J	<1.0	1.6 J
1,1-Dichloroethene	5	<1.0	<1.0	1.4 J	<1.0	<5.0
1,2-Dichloroethane	0.6	<1.0	<1.0	2.9 J	<1.0	5.1
1,2-Dichloropropane	1	<1.0	<1.0	<5.0	<1.0	<5.0
2-Butanone (MEK)	-	<10	<10	<50	<10	<50
2-Hexanone	-	<5.0	<5.0	<25	<5.0	<25
4-Methyl-2-pentanone(MIBK)	-	<5.0	<5.0	<25	<5.0	<25
Acetone	-	<10	<10	<50	<10	<50
Benzene	1	<0.50	<0.50	<2.5	<0.50	<2.5
Bromodichloromethane	-	<1.0	<1.0	<5.0	<1.0	<5.0
Bromoform	-	<1.0	<1.0	<5.0	<1.0	<5.0
Bromomethane	5	<2.0	<2.0	<10	<2.0	<10
Carbon disulfide	60	<2.0	<2.0	<10	<2.0	<10
Carbon tetrachloride	5	<1.0	<1.0	<5.0	<1.0	<5.0
Chlorobenzene	5	<1.0	<1.0	<5.0	<1.0	<5.0
Chlorodifluoromethane	-	<5.0	<5.0	<25	<5.0	<25
Chloroethane	5	<1.0	<1.0	<5.0	<1.0	<5.0
Chloroform	7	<1.0	1.3	3.1 J	0.78 J	14.4
Chloromethane	5	<1.0	<1.0	<5.0	<1.0	<5.0
cis-1,2-Dichloroethene	5	<1.0	6.6	42.7	8.3	94.8
cis-1,3-Dichloropropene	-	<1.0	<1.0	<5.0	<1.0	<5.0
Dibromochloromethane	-	<1.0	<1.0	<5.0	<1.0	<5.0
Dichlorodifluoromethane	5	<2.0	<2.0	<10	<2.0	<10
Ethylbenzene	5	<1.0	<1.0	<5.0	<1.0	<5.0
Freon 113	5	<5.0	<5.0	<25	<5.0	<25
m,p-Xylene	-	<1.0	<1.0	<5.0	<1.0	<5.0
Methylene chloride	5	<2.0	<2.0	<10	<2.0	<10
o-Xylene	5	<1.0	<1.0	<5.0	<1.0	<5.0
Styrene	5	<1.0	<1.0	<5.0	<1.0	<5.0
Tetrachloroethene	5	<1.0	<1.0	<5.0	<1.0	<5.0
Toluene	5	<1.0	<1.0	<5.0	8	<5.0
trans-1,2-Dichloroethene	5	<1.0	<1.0	<5.0	<1.0	<5.0
trans-1,3-Dichloropropene	-	<1.0	<1.0	<5.0	<1.0	<5.0
Trichloroethene	5	<1.0	17.4	931	55.5	546
Vinyl chloride	2	<1.0	<1.0	<5.0	<1.0	<5.0
Total VOCs	-	0	25.3	982.4	72.58	661.9









Notes and Abbreviations:

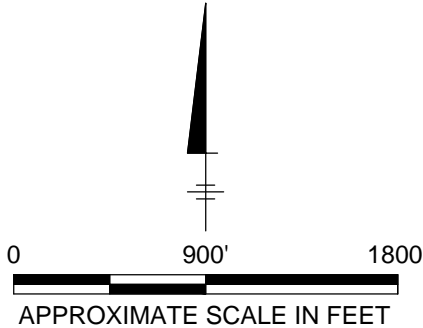
1. Results are not validated.
 2. Samples analyzed for the TCL VOCs using USEPA Method 8260.
 3. TVOCs represent sum of VOCs.
- | | |
|-------|---|
| TOGS | Technical & Operational Guidance Series |
| USEPA | United States Environmental Protection Agency |
| TCL | Target compound list |
| VOCs | Volatile organic compounds |
| ug/L | Micrograms per liter |
| TVOCs | Total volatile organic compounds |
| -- | Not established |
| J | Value is estimated |
| D | Value from a secondary dilution |
| B | Compound detected in associated blank sample |
| <10.0 | Compound not detected above its laboratory quantification limit |

XREFS: IMAGES: PROJECTNAME: ----
 Xr1052X01



LEGEND:

-  PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE CORPORATION SITE
-  LONG ISLAND RAILROAD
-  RECHARGE BASIN
-  STUDY AREA PUBLIC SUPPLY WELL
-  EXISTING OU2 REMEDIAL WELL
-  VERTICAL PROFILE BORING AND MONITORING WELL INSTALLED FOR RW-21 PROJECT AREA PROGRAM (OTHER WELLS OWNED BY NAVY, NORTHROP GRUMMAN OR OTHERS SHOWN IN GRAY FOR REFERENCE ONLY)
-  BWD BETHPAGE WATER DISTRICT
-  RW-21 PROJECT AREA REMEDIAL WELL



NORTHROP GRUMMAN SYSTEMS CORPORATION
 OPERABLE UNIT 3 (FORMER GRUMMAN SETTLING PONDS)
 BETHPAGE, NEW YORK

WELL LOCATIONS

