

Liberty Mutual / ATC Measurement Data for 3/4/02 to 3/8/02

Sample ID	Zone	Job Description	Begin Time	End Time	Worker	Respirator	Analyte	Results	OEL	Shift Adj. OEL	% OEL	% Shift Adj OEL
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Aluminum	<0.0024 mg/cu m	5	5		
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Antimony	<0.0029 mg/cu m	0.5	0.024		
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Arsenic	<0.00061 mg/cu m	0.01	0.0048		
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Beryllium	0.0000012 mg/cu m	0.002	0.001	0.06%	0.12%
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Cadmium	<0.000025 mg/cu m	0.01	0.005		
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Calcium	0.013 mg/cu m	2	2	0.66%	0.66%
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Chromium	<0.00043 mg/cu m	0.5	0.024		
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Cobalt	<0.00029 mg/cu m	0.02	0.01		
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Copper	0.00067 mg/cu m	0.2	0.134	0.44%	0.65%
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Iron	0.058 mg/cu m	5	2.4	1.16%	2.41%
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Lead	0.00056 mg/cu m	0.05	0.024	1.12%	2.34%
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Magnesium	0.0020 mg/cu m	10	6.7	0.02%	0.03%
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Manganese	0.00061 mg/cu m	0.2	0.134	0.30%	0.45%
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Nickel	0.00017 mg/cu m	1.5	0.72	0.01%	0.02%

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WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Selenium	<0.0023 mg/cu m	0.2	0.134		
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Thallium	<0.0023 mg/cu m	0.1	0.048		
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Tin	<0.0025 mg/cu m	2	0.96		
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Titanium	0.00015 mg/cu m	10	10	0.00%	0.00%
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Total Dust	0.35 mg/cu m	10	10	3.54%	3.54%
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Vanadium	<0.0004 mg/cu m	0.05	0.05		
WTC-TU-CJ-M-020302-02	TU	Torch Cutter on Surface 5WTC	3/2/2002 7:27:00 AM	3/2/2002 3:21:00 PM	George Fontomelle	Yes	Zinc	0.027 mg/cu m	5	3.4	0.54%	0.80%
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Aluminum	0.0030 mg/cu m	5	5	0.06%	0.06%
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Antimony	<0.0033 mg/cu m	0.5	0.024		
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Arsenic	<0.00069 mg/cu m	0.01	0.0048		
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Beryllium	<0.0000013 mg/cu m	0.002	0.001		
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Cadmium	0.000049 mg/cu m	0.01	0.005	0.49%	0.98%
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Calcium	0.029 mg/cu m	2	2	1.44%	1.44%
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Chromium	<0.00048 mg/cu m	0.5	0.024		

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WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Cobalt	<0.00033 mg/cu m	0.02	0.01		
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Copper	0.00014 mg/cu m	0.2	0.134	0.07%	0.10%
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Iron	0.0077 mg/cu m	5	2.4	0.15%	0.32%
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Lead	<0.00028 mg/cu m	0.05	0.024		
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Magnesium	0.0037 mg/cu m	10	6.7	0.04%	0.06%
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Manganese	0.00014 mg/cu m	0.2	0.134	0.07%	0.11%
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Nickel	<0.00014 mg/cu m	1.5	0.72		
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Selenium	<0.0026 mg/cu m	0.2	0.134		
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Thallium	<0.0026 mg/cu m	0.1	0.048		
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Tin	<0.0028 mg/cu m	2	0.96		
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Titanium	0.00019 mg/cu m	10	10	0.00%	0.00%
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Total Dust	0.71 mg/cu m	10	10	7.14%	7.14%
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Vanadium	<0.00044 mg/cu m	0.05	0.05		
WTC-TU-MA-M-020222-02	TU	Operator in Depression 5WTC	2/22/2002 7:40:00 PM	2/23/2002 2:47:00 AM	Edward Denitowski	Yes	Zinc	0.00073 mg/cu m	5	3.4	0.01%	0.02%

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Sample ID	Zone	Job Description	Begin Time	End Time	Worker	Respirator	Analyte	Results	OEL	Shift Adj. OEL	% OEL	% Shift Adj OEL
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Aluminum	<0.0026 mg/cu m	5	5		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Antimony	<0.0032 mg/cu m	0.5	0.024		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Arsenic	<0.00068 mg/cu m	0.01	0.0048		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Beryllium	<0.0000013 mg/cu m	0.002	0.001		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Cadmium	<0.000028 mg/cu m	0.01	0.005		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Calcium	0.0094 mg/cu m	2	2	0.47%	0.47%
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Chromium	<0.00047 mg/cu m	0.5	0.024		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Cobalt	<0.00032 mg/cu m	0.02	0.01		

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WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Copper	<0.000077 mg/cu m	0.2	0.134		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Iron	0.0021 mg/cu m	5	2.4	0.04%	0.09%
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Lead	<0.00028 mg/cu m	0.05	0.024		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Magnesium	0.0023 mg/cu m	10	6.7	0.02%	0.03%
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Manganese	<0.000072 mg/cu m	0.2	0.134		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Nickel	<0.00014 mg/cu m	1.5	0.72		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Selenium	<0.0025 mg/cu m	0.2	0.134		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Thallium	<0.0025 mg/cu m	0.1	0.048		

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WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Tin	<0.0028 mg/cu m	2	0.96		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Titanium	0.000079 mg/cu m	10	10	0.00%	0.00%
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Total Dust	0.12 mg/cu m	10	10	1.25%	1.25%
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Vanadium	<0.00044 mg/cu m	0.05	0.05		
WTC-TU-MA-M-020226-02	TU	Fmt End Loader Operator on Surface Pier 25	2/26/2002 7:40:00 PM	2/27/2002 2:48:00 AM	Robert Martinez	Yes	Zinc	0.00023 mg/cu m	5	3.4	0.00%	0.01%
WTC-TU-MK-H-020302-02	TU	Banker Trust on Liberty St	3/2/2002 7:38:00 AM	3/2/2002 3:33:00 PM			Hydrogen Sulfide	<0.054 ppm	10	10		
WTC-TU-MK-H-020302-02	TU	Banker Trust on Liberty St	3/2/2002 7:38:00 AM	3/2/2002 3:33:00 PM			Sulfur Dioxide	<0.010 ppm	2	2		
WTC-TU-MK-S-020228-02	TU	Grappler Operator East Slurry Wall	2/28/2002 7:30:00 AM	2/28/2002 3:23:00 PM	Sebastian Santolw	Yes	Cristobalite	<0.011 mg/cu m	0.05	0.024		
WTC-TU-MK-S-020228-02	TU	Grappler Operator East Slurry Wall	2/28/2002 7:30:00 AM	2/28/2002 3:23:00 PM	Sebastian Santolw	Yes	Quartz	<0.011 mg/cu m	0.05	0.024		
WTC-TU-MK-S-020228-02	TU	Grappler Operator East Slurry Wall	2/28/2002 7:30:00 AM	2/28/2002 3:23:00 PM	Sebastian Santolw	Yes	Respirable Dust	0.11 mg/cu m	3	3	3.75%	3.75%
WTC-TU-MK-S-020301-03	TU	Breaking Concrete W/Jack Hammer 6WTC Level B3	3/1/2002 7:31:00 AM	3/1/2002 3:30:00 PM	Jorge Sulvado	Yes	Cristobalite	<0.010 mg/cu m	0.05	0.024		

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WTC-TU-MK-S-020301-03	TU	Breaking Concrete W/Jack Hammer 6WTC Level B3	3/1/2002 7:31:00 AM	3/1/2002 3:30:00 PM	Jorge Sulvado	Yes	Quartz	0.30 mg/cu m	0.05	0.024	606.00%	1262.50%
WTC-TU-MK-S-020301-03	TU	Breaking Concrete W/Jack Hammer 6WTC Level B3	3/1/2002 7:31:00 AM	3/1/2002 3:30:00 PM	Jorge Sulvado	Yes	Respirable Dust	1.8 mg/cu m	3	3	59.46%	59.46%
WTC-TU-MK-S-020302-04	TU	Grappler Operator East Slurry Wall	3/2/2002 7:45:00 AM	3/2/2002 3:40:00 PM	Sebastian Santoro	Yes	Cristobalite	<0.011 mg/cu m	0.05	0.024		
WTC-TU-MK-S-020302-04	TU	Grappler Operator East Slurry Wall	3/2/2002 7:45:00 AM	3/2/2002 3:40:00 PM	Sebastian Santoro	Yes	Quartz	<0.011 mg/cu m	0.05	0.024		
WTC-TU-MK-S-020302-04	TU	Grappler Operator East Slurry Wall	3/2/2002 7:45:00 AM	3/2/2002 3:40:00 PM	Sebastian Santoro	Yes	Respirable Dust	0.060 mg/cu m	3	3	2.00%	2.00%
WTC-TU-PP-H-020305-02	TU	Banker Trust Bldg in the Pit	3/5/2002 8:12:00 AM	3/5/2002 3:18:00 PM			Hydrogen Sulfide	<0.059 ppm	10	10		
WTC-TU-PP-H-020305-02	TU	Banker Trust Bldg in the Pit	3/5/2002 8:12:00 AM	3/5/2002 3:18:00 PM			Sulfur Dioxide	<0.012 ppm	2	2		
WTC-TU-PP-S-020227-02	TU	spotter, cleaning debris WTC 6 Lvl B1	2/27/2002 7:46:00 AM	2/27/2002 3:02:00 PM	Efraim Portillo	yes	Cristobalite	<0.012 mg/cu m	0.05	0.024		
WTC-TU-PP-S-020227-02	TU	spotter, cleaning debris WTC 6 Lvl B1	2/27/2002 7:46:00 AM	2/27/2002 3:02:00 PM	Efraim Portillo	yes	Quartz	0.028 mg/cu m	0.05	0.024	56.00%	116.67%
WTC-TU-PP-S-020227-02	TU	spotter, cleaning debris WTC 6 Lvl B1	2/27/2002 7:46:00 AM	2/27/2002 3:02:00 PM	Efraim Portillo	yes	Respirable Dust	0.33 mg/cu m	3	3	10.95%	10.95%
WTC-TU-PP-Z-020304-02	TU	torch cutter on surface	3/4/2002 7:56:00 AM	3/4/2002 3:10:00 PM	John Montalvo	yes	Ozone	<0.0054 ppm	0.08	0.08		
WTC-TU-RF-S-020302-02	TU	Jack Hammering 6WTC NE Section	3/2/2002 7:53:00 AM	3/2/2002 3:44:00 PM	Carlos Escobar	Yes	Cristobalite	<0.011 mg/cu m	0.05	0.024		

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WTC-TU-RF-S-020302-02	TU	Jack Hammering 6WTC NE Section	3/2/2002 7:53:00 AM	3/2/2002 3:44:00 PM	Carlos Escobar	Yes	Quartz	0.82 mg/cu m	0.05	0.024	1648.00%	3433.33%
WTC-TU-RF-S-020302-02	TU	Jack Hammering 6WTC NE Section	3/2/2002 7:53:00 AM	3/2/2002 3:44:00 PM	Carlos Escobar	Yes	Respirable Dust	3.1 mg/cu m	3	3	103.10%	103.10%
WTC-TU-RF-S-020303-02	TU	Spotter 6WTC	3/3/2002 7:52:00 AM	3/3/2002 3:01:00 PM	Emmanuel Amilo	Yes	Cristobalite	<0.012 mg/cu m	0.05	0.024		
WTC-TU-RF-S-020303-02	TU	Spotter 6WTC	3/3/2002 7:52:00 AM	3/3/2002 3:01:00 PM	Emmanuel Amilo	Yes	Quartz	0.062 mg/cu m	0.05	0.024	124.00%	258.33%
WTC-TU-RF-S-020303-02	TU	Spotter 6WTC	3/3/2002 7:52:00 AM	3/3/2002 3:01:00 PM	Emmanuel Amilo	Yes	Respirable Dust	0.34 mg/cu m	3	3	11.50%	11.50%
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Aluminum	<0.0026 mg/cu m	5	5		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Antimony	<0.0032 mg/cu m	0.5	0.024		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Arsenic	<0.00067 mg/cu m	0.01	0.0048		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Beryllium	<0.0000012 mg/cu m	0.002	0.001		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Cadmium	<0.000027 mg/cu m	0.01	0.005		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Calcium	0.0033 mg/cu m	2	2	0.16%	0.16%
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Chromium	<0.00046 mg/cu m	0.5	0.024		

Liberty Mutual / ATC Measurment Data for 3/4/02 to 3/8/02

Sample ID	Zone	Job Description	Begin Time	End Time	Worker	Respirator	Analyte	Results	OEL	Shift Adj. OEL	% OEL	% Shift Adj OEL
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Cobalt	<0.00032 mg/cu m	0.02	0.01		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Copper	0.0011 mg/cu m	0.2	0.134	0.54%	0.80%
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Iron	0.0034 mg/cu m	5	2.4	0.07%	0.14%
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Lead	<0.00027 mg/cu m	0.05	0.024		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Magnesium	0.00046 mg/cu m	10	6.7	0.00%	0.01%
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Manganese	<0.000071 mg/cu m	0.2	0.134		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Nickel	<0.00014 mg/cu m	1.5	0.72		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Selenium	<0.0025 mg/cu m	0.2	0.134		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Thallium	<0.0025 mg/cu m	0.1	0.048		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Tin	<0.0027 mg/cu m	2	0.96		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Titanium	<0.000057 mg/cu m	10	10		

Liberty Mutual / ATC Measurment Data for 3/4/02 to 3/8/02

Sample ID	Zone	Job Description	Begin Time	End Time	Worker	Respirator	Analyte	Results	OEL	Shift Adj. OEL	% OEL	% Shift Adj OEL
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Total Dust	<0.057 mg/cu m	10	10		
WTC-TU-RM-M-020228-03	TU	Operator in Depression @ Courtlandt Station	2/28/2002 7:36:00 PM	3/1/2002 2:50:00 AM	Charlie Giglio	Yes	Vanadium	<0.00043 mg/cu m	0.05	0.05		
WTC-TU-RM-S-020301-02	TU	Spotter in Depression 1WTC	3/1/2002 7:36:00 PM	3/2/2002 2:50:00 AM	Lazaar Houssain	Yes	Cristobalite	<0.012 mg/cu m	0.05	0.024		
WTC-TU-RM-S-020301-02	TU	Spotter in Depression 1WTC	3/1/2002 7:36:00 PM	3/2/2002 2:50:00 AM	Lazaar Houssain	Yes	Quartz	0.015 mg/cu m	0.05	0.024	30.00%	62.50%
WTC-TU-RM-S-020301-02	TU	Spotter in Depression 1WTC	3/1/2002 7:36:00 PM	3/2/2002 2:50:00 AM	Lazaar Houssain	Yes	Respirable Dust	0.11 mg/cu m	3	3	3.73%	3.73%
WTC-TU-RM-S-020303-03	TU	Laborer @ 6WTC	3/3/2002 7:10:00 PM	3/4/2002 2:42:00 AM	Salvatore Gallina	Yes	Cristobalite	<0.012 mg/cu m	0.05	0.024		
WTC-TU-RM-S-020303-03	TU	Laborer @ 6WTC	3/3/2002 7:10:00 PM	3/4/2002 2:42:00 AM	Salvatore Gallina	Yes	Quartz	<0.012 mg/cu m	0.05	0.024		
WTC-TU-RM-S-020303-03	TU	Laborer @ 6WTC	3/3/2002 7:10:00 PM	3/4/2002 2:42:00 AM	Salvatore Gallina	Yes	Respirable Dust	0.11 mg/cu m	3	3	3.54%	3.54%
WTC-TU-RM-S-020303-04	TU	Laborer @ 6WTC	3/3/2002 7:12:00 PM	3/4/2002 2:45:00 AM	Salvatore Gallina	Yes	Cristobalite	<0.012 mg/cu m	0.05	0.024		
WTC-TU-RM-S-020303-04	TU	Laborer @ 6WTC	3/3/2002 7:12:00 PM	3/4/2002 2:45:00 AM	Salvatore Gallina	Yes	Quartz	<0.012 mg/cu m	0.05	0.024		
WTC-TU-RM-S-020303-04	TU	Laborer @ 6WTC	3/3/2002 7:12:00 PM	3/4/2002 2:45:00 AM	Salvatore Gallina	Yes	Respirable Dust	0.10 mg/cu m	3	3	3.37%	3.37%