

Prepared Exclusively For:

NYCDEP-Emergency Response & Tech Assmt.

96-05 Horace Harding Expressway

Corona, NY 11368

(718) 595-4650

MR. M. FAWZY, DIRECTOR

PEDNEAULT ASSOCIATES, INC.

1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716

LAB NUMBER: 01100280**PROJECT ID : WORLD TRADE CENTER-5 Boro Sampling**

DATE RECEIVED		RELEASE DATE		REPORT DATE
10/13/01		10/15/01		10/15/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
10/13/01 6:05 PM	01100280-001	AIR\GAS	BROADWAY AVE & 31st ST., QUEENS	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G		<0.01	mg/m3
Antimony (Sb)	OSHA ID 121/125G		0.27	mg/m3
Arsenic (As)	OSHA ID 121/125G		0.08	mg/m3
Barium (Ba)	OSHA ID 121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID 121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID 121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID 121/125G		<0.01	mg/m3
Chromium (Cr)	OSHA ID 121/125G		0.04	mg/m3
Copper (Cu)	OSHA ID 121/125G		0.01	mg/m3
Iron (Fe)	OSHA ID 121/125G		0.42	mg/m3
Lead (Pb)	OSHA ID 121/125G		0.02	mg/m3
Magnesium (Mg)	OSHA ID 121/125G		<0.01	mg/m3
Manganese (Mn)	OSHA ID 121/125G		<0.01	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID 121/125G		0.04	mg/m3
Potassium (K)	OSHA ID 121/125G		0.77	mg/m3
Selenium (Se)	OSHA ID 121/125G		0.06	mg/m3
Silver (Ag)	OSHA ID 121/125G		<0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID 121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G		0.16	mg/m3

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

Page 89 of 240
NYS ELAP #10224
MWBE #46075**SUPPLEMENTAL II**

CITY_21MC100_002851002

PEDNEAULT ASSOCIATES, INC.
631-467-8477

NYCDEP - WTC
5-BORO SAMPLING
METALS IN AIR

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)
B=Concentration of Blank in sample solution (µg/ml) or (mg/L)
SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume
BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume
RAB= Reagent Blank Concentration (µg/ml) or (mg/L)
RABSV= Reagent Blank Sample Volume
D= Dilution Factor (NONE)
NO GRAVIMETRIC FACTORS
AV= Air Volume Sampled
AR=Analytical Result
ARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:
 $AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV - BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.071	100	7.1	0.069	100	6.9	0.2	30	0.0066667	Aluminum-Al	<0.01
0.105	100	10.5	0.025	100	2.5	8	30	0.2666667	Antimony-Sb	0.27
0.01	100	1	-0.015	100	-1.5	2.5	30	0.0833333	Arsenic-As	0.08
0.003	100	0.3	0.003	100	0.3	0	30	0	Barium-Ba	<0.01
-0.01	100	-1	-0.011	100	-1.1	0.1	30	0.0033333	Beryllium-Be	<0.01
-0.02	100	-2	-0.021	100	-2.1	0.1	30	0.0033333	Cadmium-Cd	<0.01
1.094	100	109.4	1.368	100	136.8	-27.4	30	-0.9133333	Calcium-Ca	<0.01
0.018	100	1.8	0.006	100	0.6	1.2	30	0.04	Chromium-Cr	0.04
-0.046	100	-4.6	-0.05	100	-5	0.4	30	0.0133333	Copper-Cu	0.01
0.166	100	16.6	0.041	100	4.1	12.5	30	0.4166667	Iron-Fe	0.42
-0.006	100	-0.6	-0.013	100	-1.3	0.7	30	0.0233333	Lead-Pb	0.02
0.196	100	19.6	0.221	100	22.1	-2.5	30	-0.0833333	Magnesium-Mg	<0.01
0.0175	100	1.75	0.088	100	8.8	-7.05	30	-0.235	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	<0.01
0.015	100	1.5	0.002	100	0.2	1.3	30	0.0433333	Nickel-Ni	0.04
0.893	100	89.3	0.661	100	66.1	23.2	30	0.7733333	Potassium-K	0.77
0.034	100	3.4	0.015	100	1.5	1.9	30	0.0633333	Selenium-Se	0.06
-0.089	100	-8.9	-0.09	100	-9	0.1	30	0.0033333	Silver-Ag	<0.01
2.962	100	296.2	4.173	100	417.3	-121.1	30	-4.0366667	Sodium-Na	<0.01
-0.004	100	-0.4	-0.003	100	-0.3	-0.1	30	-0.0033333	Thallium-Tl	<0.01
0.079	100	7.9	0.03	100	3	4.9	30	0.1633333	Zinc-Zn	0.16

LAB ID #01100280-001

NYCDEP - BROADWAY & 31ST QUEENS

c:/JEM FILES/NYCDEP-HAZMAT/m01100280.xls

Prepared Exclusively For:
 NYCDEP-Emergency Response & Tech Assmt.
 96-05 Horace Harding Expressway
 Corona, NY 11368
 (718) 595-4650
MR. M. FAWZY, DIRECTOR

PEDNEAULT ASSOCIATES, INC.
 1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716
LAB NUMBER: 01100280
PROJECT ID : WORLD TRADE CENTER-5 Boro Sampling

DATE RECEIVED		RELEASE DATE		REPORT DATE
10/13/01		10/15/01		10/15/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
10/13/01 6:50 PM	01100280-002	AIR/GAS	138th St. & 3rd AVENUE, BRONX	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G		0.04	mg/m3
Antimony (Sb)	OSHA ID 121/125G		0.27	mg/m3
Arsenic (As)	OSHA ID 121/125G		0.04	mg/m3
Barium (Ba)	OSHA ID 121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID 121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID 121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID 121/125G		<0.01	mg/m3
Chromium (Cr)	OSHA ID 121/125G		0.01	mg/m3
Copper (Cu)	OSHA ID 121/125G		<0.01	mg/m3
Iron (Fe)	OSHA ID 121/125G		0.13	mg/m3
Lead (Pb)	OSHA ID 121/125G		<0.01	mg/m3
Magnesium (Mg)	OSHA ID 121/125G		0.02	mg/m3
Manganese (Mn)	OSHA ID 121/125G		0.04	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID 121/125G		<0.01	mg/m3
Potassium (K)	OSHA ID 121/125G		0.32	mg/m3
Selenium (Se)	OSHA ID 121/125G		0.03	mg/m3
Silver (Ag)	OSHA ID 121/125G		<0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID 121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G		0.01	mg/m3

John Pedneault
 Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

SUPPLEMENTAL II

Page 90 of 240
 NYS ELAP #10224
 MWBE #46075

PEDNEAULT ASSOCIATES, INC.
631-467-8477

NYCDEP - WTC
5-BORO SAMPLING
METALS IN AIR

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)
B=Concentration of Blank in sample solution (µg/ml) or (mg/L)
SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume
BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume
RAB= Reagent Blank Concentration (µg/ml) or (mg/L)
RABSV= Reagent Blank Sample Volume
D= Dilution Factor (NONE)
NO GRAVIMETRIC FACTORS
AV= Air Volume Sampled
AR=Analytical Result
IARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV - BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.08	100	8	0.069	100	6.9	1.1	30	0.0366667	Aluminum-Al	0.04
0.106	100	10.6	0.025	100	2.5	8.1	30	0.27	Antimony-Sb	0.27
-0.003	100	-0.3	-0.015	100	-1.5	1.2	30	0.04	Arsenic-As	0.04
0.003	100	0.3	0.003	100	0.3	0	30	0	Barium-Ba	<0.01
-0.01	100	-1	-0.011	100	-1.1	0.1	30	0.00333333	Beryllium-Be	<0.01
-0.02	100	-2	-0.021	100	-2.1	0.1	30	0.00333333	Cadmium-Cd	<0.01
1.111	100	111.1	1.368	100	136.8	-25.7	30	-0.8566667	Calcium-Ca	<0.01
0.009	100	0.9	0.006	100	0.6	0.3	30	0.01	Chromium-Cr	0.01
-0.054	100	-5.4	-0.05	100	-5	-0.4	30	-0.0133333	Copper-Cu	<0.01
0.079	100	7.9	0.041	100	4.1	3.8	30	0.1266667	Iron-Fe	0.13
-0.013	100	-1.3	-0.013	100	-1.3	0	30	0	Lead-Pb	<0.01
0.227	100	22.7	0.221	100	22.1	0.6	30	0.02	Magnesium-Mg	0.02
0.101	100	10.1	0.088	100	8.8	1.3	30	0.0433333	Manganese-Mn	0.04
	100			100			30		Mercury-Hg	<0.01
0.003	100	0.3	0.002	100	0.2	0.1	30	0.00333333	Nickel-Ni	<0.01
0.757	100	75.7	0.661	100	66.1	9.6	30	0.32	Potassium-K	0.32
0.023	100	2.3	0.015	100	1.5	0.8	30	0.0266667	Selenium-Se	0.03
-0.09	100	-9	-0.09	100	-9	0	30	0	Silver-Ag	<0.01
3.09	100	309	4.173	100	417.3	-108.3	30	-3.61	Sodium-Na	<0.01
-0.007	100	-0.7	-0.003	100	-0.3	-0.4	30	-0.0133333	Thallium-Tl	<0.01
0.033	100	3.3	0.03	100	3	0.3	30	0.01	Zinc-Zn	0.01

LAB ID #01100280-002

NYCDEP - 138TH & 3RD AVENUE BRONX

C:\IEM FILES\NYCDEP\HAZMAT\m01100280.xls

Prepared Exclusively For:
 NYCDEP-Emergency Response & Tech Assmt.
 96-05 Horace Harding Expressway
 Corona, NY 11368
 (718) 595-4650
MR. M. FAWZY, DIRECTOR

PEDNEAULT ASSOCIATES, INC.
 1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716

LAB NUMBER: 01100280

PROJECT ID : WORLD TRADE CENTER-5 Boro Sampling

DATE RECEIVED		RELEASE DATE		REPORT DATE
10/13/01		10/15/01		10/15/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
10/13/01 7:25 PM	01100280-003	AIR\GAS	CENTAL PARK N. & LENOX, MANHATTAN	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G		0.04	mg/m3
Antimony (Sb)	OSHA ID 121/125G		0.09	mg/m3
Arsenic (As)	OSHA ID 121/125G		0.03	mg/m3
Barium (Ba)	OSHA ID 121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID 121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID 121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID 121/125G		<0.01	mg/m3
Chromium (Cr)	OSHA ID 121/125G		0.01	mg/m3
Copper (Cu)	OSHA ID 121/125G		<0.01	mg/m3
Iron (Fe)	OSHA ID 121/125G		0.06	mg/m3
Lead (Pb)	OSHA ID 121/125G		0.01	mg/m3
Magnesium (Mg)	OSHA ID 121/125G		<0.01	mg/m3
Manganese (Mn)	OSHA ID 121/125G		<0.01	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID 121/125G		0.01	mg/m3
Potassium (K)	OSHA ID 121/125G		0.18	mg/m3
Selenium (Se)	OSHA ID 121/125G		<0.01	mg/m3
Silver (Ag)	OSHA ID 121/125G		<0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID 121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G		0.03	mg/m3

John Pedneault
 Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

Page 91 of 240
 NYS ELAP #10224
 MWBE #46075

SUPPLEMENTAL II

CITY_21MC100_002851006

PEDNEAULT ASSOCIATES, INC.
631-467-8477

NYCDEP - WTC
5-BORO SAMPLING
METALS IN AIR

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)
B=Concentration of Blank in sample solution (µg/ml) or (mg/L)
SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume
BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume
RAB= Reagent Blank Concentration (µg/ml) or (mg/L)
RABSV= Reagent Blank Sample Volume
D= Dilution Factor (NONE)
NO GRAVIMETRIC FACTORS
AV= Air Volume Sampled
AR=Analytical Result
ARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV-BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.08	100	8	0.069	100	6.9	1.1	30	0.0366667	Aluminum-Al	0.04
0.053	100	5.3	0.025	100	2.5	2.8	30	0.0933333	Antimony-Sb	0.09
-0.007	100	-0.7	-0.015	100	-1.5	0.8	30	0.0266667	Arsenic-As	0.03
0.003	100	0.3	0.003	100	0.3	0	30	0	Barium-Ba	<0.01
-0.01	100	-1	-0.011	100	-1.1	0.1	30	0.0033333	Beryllium-Be	<0.01
-0.021	100	-2.1	-0.021	100	-2.1	0	30	0	Cadmium-Cd	<0.01
1.02	100	102	1.368	100	136.8	-34.8	30	-1.16	Calcium-Ca	<0.01
0.01	100	1	0.006	100	0.6	0.4	30	0.0133333	Chromium-Cr	0.01
-0.055	100	-5.5	-0.05	100	-5	-0.5	30	-0.0166667	Copper-Cu	<0.01
0.06	100	6	0.041	100	4.1	1.9	30	0.0633333	Iron-Fe	0.06
-0.009	100	-0.9	-0.013	100	-1.3	0.4	30	0.0133333	Lead-Pb	0.01
0.192	100	19.2	0.221	100	22.1	-2.9	30	-0.0966667	Magnesium-Mg	<0.01
0.098	100	9.8	0.088	100	8.8	1	30	0.0333333	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	<0.01
0.006	100	0.6	0.002	100	0.2	0.4	30	0.0133333	Nickel-Ni	0.01
0.715	100	71.5	0.661	100	66.1	5.4	30	0.18	Potassium-K	0.18
0.016	100	1.6	0.015	100	1.5	0.1	30	0.0033333	Selenium-Se	<0.01
-0.09	100	-9	-0.09	100	-9	0	30	0	Silver-Ag	<0.01
2.644	100	264.4	4.173	100	417.3	-152.9	30	-5.0966667	Sodium-Na	<0.01
-0.007	100	-0.7	-0.003	100	-0.3	-0.4	30	-0.0133333	Thallium-Tl	<0.01
0.04	100	4	0.03	100	3	1	30	0.0333333	Zinc-Zn	0.03

LAB ID #01100280-003

NYCDEP - CENTRAL PK NO & LENOX-NYC

\\NYCDEP\FILES\NYCDEP\HAZMAT\001100280-003

Prepared Exclusively For:
 NYCDEP-Emergency Response & Tech Assmt.
 96-05 Horace Harding Expressway
 Corona, NY 11368
 (718) 595-4650
MR. M. FAWZY, DIRECTOR

PEDNEAULT ASSOCIATES, INC.
 1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716

LAB NUMBER: 01100280
PROJECT ID : WORLD TRADE CENTER-5 Boro Sampling

DATE RECEIVED		RELEASE DATE		REPORT DATE
10/13/01		10/15/01		10/15/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
10/13/01 8:30 PM	01100280-004	AIR\GAS	BERRY ST. & NORTH 11th ST, BROOKLYN	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G		0.07	mg/m3
Antimony (Sb)	OSHA ID 121/125G		0.03	mg/m3
Arsenic (As)	OSHA ID 121/125G		0.02	mg/m3
Barium (Ba)	OSHA ID 121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID 121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID 121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID 121/125G		1.22	mg/m3
Chromium (Cr)	OSHA ID 121/125G		0.02	mg/m3
Copper (Cu)	OSHA ID 121/125G		<0.01	mg/m3
Iron (Fe)	OSHA ID 121/125G		0.43	mg/m3
Lead (Pb)	OSHA ID 121/125G		<0.01	mg/m3
Magnesium (Mg)	OSHA ID 121/125G		0.08	mg/m3
Manganese (Mn)	OSHA ID 121/125G		0.05	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID 121/125G		0.01	mg/m3
Potassium (K)	OSHA ID 121/125G		0.10	mg/m3
Selenium (Se)	OSHA ID 121/125G		<0.01	mg/m3
Silver (Ag)	OSHA ID 121/125G		<0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID 121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G		0.19	mg/m3

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

SUPPLEMENTAL II

Page 92 of 240
 NYS ELAP #10224
 MWBE #46075

CITY_21MC100_002851008

PEDNEAULT ASSOCIATES, INC.
631-467-8477

NYCDEP - WTC
5-BORO SAMPLING
METALS IN AIR

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)
 B=Concentration of Blank in sample solution (µg/ml) or (mg/L)
 SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume
 BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume
 RAB= Reagent Blank Concentration (µg/ml) or (mg/L)
 RABSV= Reagent Blank Sample Volume
 D= Dilution Factor (NONE)
 NO GRAVIMETRIC FACTORS
 AV= Air Volume Sampled
 IAR=Analytical Result
 IARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV - BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.09	100	9	0.069	100	6.9	2.1	30	0.07	Aluminum-Al	0.07
0.034	100	3.4	0.025	100	2.5	0.9	30	0.03	Antimony-Sb	0.03
-0.009	100	-0.9	-0.015	100	-1.5	0.6	30	0.02	Arsenic-As	0.02
0.003	100	0.3	0.003	100	0.3	0	30	0	Barium-Ba	<0.01
-0.01	100	-1	-0.011	100	-1.1	0.1	30	0.0033333	Beryllium-Be	<0.01
-0.021	100	-2.1	-0.021	100	-2.1	0	30	0	Cadmium-Cd	<0.01
1.734	100	173.4	1.368	100	136.8	36.6	30	1.22	Calcium-Ca	1.22
0.012	100	1.2	0.006	100	0.6	0.6	30	0.02	Chromium-Cr	0.02
-0.053	100	-5.3	-0.05	100	-5	-0.3	30	-0.01	Copper-Cu	<0.01
0.169	100	16.9	0.041	100	4.1	12.8	30	0.4266667	Iron-Fe	0.43
-0.012	100	-1.2	-0.013	100	-1.3	0.1	30	0.0033333	Lead-Pb	<0.01
0.244	100	24.4	0.221	100	22.1	2.3	30	0.0766667	Magnesium-Mg	0.08
0.102	100	10.2	0.088	100	8.8	1.4	30	0.0466667	Manganese-Mn	0.05
	100			100			30		Mercury-Hg	<0.01
0.005	100	0.5	0.002	100	0.2	0.3	30	0.01	Nickel-Ni	0.01
0.692	100	69.2	0.661	100	66.1	3.1	30	0.1033333	Potassium-K	0.1
0.015	100	1.5	0.015	100	1.5	0	30	0	Selenium-Se	<0.01
-0.09	100	-9	-0.09	100	-9	0	30	0	Silver-Ag	<0.01
3.555	100	355.5	4.173	100	417.3	-61.8	30	-2.06	Sodium-Na	<0.01
-0.002	100	-0.2	-0.003	100	-0.3	0.1	30	0.0033333	Thallium-Tl	<0.01
0.086	100	8.6	0.03	100	3	5.6	30	0.1866667	Zinc-Zn	0.19

LAB ID #01100280-004

NYCDEP - BERRY & NORTH BROOKLYN

c:\JFM FILES\NYCDEP-HA7MAT\m01100280.xls

Prepared Exclusively For:
 NYCDEP-Emergency Response & Tech Assmt.
 96-05 Horace Harding Expressway
 Corona, NY 11368
 (718) 595-4650
MR. M. FAWZY, DIRECTOR

PEDNEAULT ASSOCIATES, INC.
 1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716

LAB NUMBER: 01100280

PROJECT ID : WORLD TRADE CENTER-5 Boro Sampling

DATE RECEIVED		RELEASE DATE		REPORT DATE
10/13/01		10/15/01		10/15/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
10/13/01 9:05 PM	01100280-005	AIR\GAS	ATLANTIC AVE. & SMITH ST., BROOKLYN	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G		0.50	mg/m3
Antimony (Sb)	OSHA ID 121/125G		0.05	mg/m3
Arsenic (As)	OSHA ID 121/125G		0.01	mg/m3
Barium (Ba)	OSHA ID 121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID 121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID 121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID 121/125G		0.45	mg/m3
Chromium (Cr)	OSHA ID 121/125G		<0.01	mg/m3
Copper (Cu)	OSHA ID 121/125G		<0.01	mg/m3
Iron (Fe)	OSHA ID 121/125G		0.22	mg/m3
Lead (Pb)	OSHA ID 121/125G		<0.01	mg/m3
Magnesium (Mg)	OSHA ID 121/125G		<0.01	mg/m3
Manganese (Mn)	OSHA ID 121/125G		<0.01	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID 121/125G		<0.01	mg/m3
Potassium (K)	OSHA ID 121/125G		<0.01	mg/m3
Selenium (Se)	OSHA ID 121/125G		<0.01	mg/m3
Silver (Ag)	OSHA ID 121/125G		<0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID 121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G		0.07	mg/m3

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

Page 93 of 240
 NYS ELAP #10224
 MWBE #46075

SUPPLEMENTAL II

CITY_21MC100_002851010

PEDNEAULT ASSOCIATES, INC.
631-467-8477

NYCDEP - WTC
5-BORO SAMPLING
METALS IN AIR

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)
B=Concentration of Blank in sample solution (µg/ml) or (mg/L)
SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume
BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume
RAB= Reagent Blank Concentration (µg/ml) or (mg/L)
RABSV= Reagent Blank Sample Volume
D= Dilution Factor (NONE)
NO GRAVIMETRIC FACTORS
AV= Air Volume Sampled
AR=Analytical Result
ARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV - BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.083	100	8.3	0.069	100	6.9	1.4	30	0.0466667	Aluminum-Al	0.05
0.039	100	3.9	0.025	100	2.5	1.4	30	0.0466667	Antimony-Sb	0.05
-0.011	100	-1.1	-0.015	100	-1.5	0.4	30	0.0133333	Arsenic-As	0.01
0.005	100	0.5	0.003	100	0.3	0.2	30	0.0066667	Barium-Ba	<0.01
-0.011	100	-1.1	-0.011	100	-1.1	0	30	0	Beryllium-Be	<0.01
-0.021	100	-2.1	-0.021	100	-2.1	0	30	0	Cadmium-Cd	<0.01
1.503	100	150.3	1.368	100	136.8	13.5	30	0.45	Calcium-Ca	0.45
0.007	100	0.7	0.006	100	0.6	0.1	30	0.0033333	Chromium-Cr	<0.01
-0.055	100	-5.5	-0.05	100	-5	-0.5	30	-0.0166667	Copper-Cu	<0.01
0.106	100	10.6	0.041	100	4.1	6.5	30	0.2166667	Iron-Fe	0.22
-0.011	100	-1.1	-0.013	100	-1.3	0.2	30	0.0066667	Lead-Pb	<0.01
0.225	100	22.5	0.221	100	22.1	0.4	30	0.0133333	Magnesium-Mg	<0.01
0.083	100	8.3	0.088	100	8.8	-0.5	30	-0.0166667	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	<0.01
0.003	100	0.3	0.002	100	0.2	0.1	30	0.0033333	Nickel-Ni	<0.01
0.662	100	66.2	0.661	100	66.1	0.1	30	0.0033333	Potassium-K	<0.01
0.014	100	1.4	0.015	100	1.5	-0.1	30	-0.0033333	Selenium-Se	<0.01
-0.09	100	-9	-0.09	100	-9	0	30	0	Silver-Ag	<0.01
3.648	100	364.8	4.173	100	417.3	-52.5	30	-1.75	Sodium-Na	<0.01
-0.001	100	-0.1	-0.003	100	-0.3	0.2	30	0.0066667	Thallium-Tl	<0.01
0.05	100	5	0.03	100	3	2	30	0.0666667	Zinc-Zn	0.07

LAB ID #01100280-005

NYCDEP -ATLANTIC AV & SMITH STR. BROOKLYN

C:\IEM FILES\NYCDEP\HAZMAT\m01100280.xls

Prepared Exclusively For:

NYCDEP-Emergency Response & Tech Assmt.

96-05 Horace Harding Expressway

Corona, NY 11368

(718) 595-4650

MR. M. FAWZY, DIRECTOR

PEDNEAULT ASSOCIATES, INC.

1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716

LAB NUMBER: 01100280

PROJECT ID : WORLD TRADE CENTER-5 Boro Sampling

DATE RECEIVED		RELEASE DATE		REPORT DATE
10/13/01		10/15/01		10/15/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
10/13/01 9:55 PM	01100280-006	AIR\GAS	BAY ST & VICTORY BLVD., STATEN ISLAND	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G		<0.01	mg/m3
Antimony (Sb)	OSHA ID 121/125G		0.01	mg/m3
Arsenic (As)	OSHA ID 121/125G		0.01	mg/m3
Barium (Ba)	OSHA ID 121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID 121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID 121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID 121/125G		<0.01	mg/m3
Chromium (Cr)	OSHA ID 121/125G		<0.01	mg/m3
Copper (Cu)	OSHA ID 121/125G		<0.01	mg/m3
Iron (Fe)	OSHA ID 121/125G		0.04	mg/m3
Lead (Pb)	OSHA ID 121/125G		<0.01	mg/m3
Magnesium (Mg)	OSHA ID 121/125G		<0.01	mg/m3
Manganese (Mn)	OSHA ID 121/125G		<0.01	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID 121/125G		<0.01	mg/m3
Potassium (K)	OSHA ID 121/125G		<0.01	mg/m3
Selenium (Se)	OSHA ID 121/125G		0.03	mg/m3
Silver (Ag)	OSHA ID 121/125G		<0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID 121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G		<0.01	mg/m3

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

Page 94 of 240
NYS ELAP #10224
MWBE #46075

SUPPLEMENTAL II

CITY_21MC100_002851012

PEDNEAULT ASSOCIATES, INC.
631-467-8477

NYCDEP - WTC
5-BORO SAMPLING
METALS IN AIR

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)
B=Concentration of Blank in sample solution (µg/ml) or (mg/L)
SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume
BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume
RAB= Reagent Blank Concentration (µg/ml) or (mg/L)
RABSV= Reagent Blank Sample Volume
D= Dilution Factor (NONE)
NO GRAVIMETRIC FACTORS
AV= Air Volume Sampled
AR=Analytical Result
ARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV - BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.059	100	5.9	0.069	100	6.9	-1	30	-0.0333333	Aluminum-Al	<0.01
0.029	100	2.9	0.025	100	2.5	0.4	30	0.0133333	Antimony-Sb	0.01
-0.011	100	-1.1	-0.015	100	-1.5	0.4	30	0.0133333	Arsenic-As	0.01
0.003	100	0.3	0.003	100	0.3	0	30	0	Barium-Ba	<0.01
-0.011	100	-1.1	-0.011	100	-1.1	0	30	0	Beryllium-Be	<0.01
-0.021	100	-2.1	-0.021	100	-2.1	0	30	0	Cadmium-Cd	<0.01
1.191	100	119.1	1.368	100	136.8	-17.7	30	-0.59	Calcium-Ca	<0.01
0.004	100	0.4	0.006	100	0.6	-0.2	30	-0.0066667	Chromium-Cr	<0.01
-0.059	100	-5.9	-0.05	100	-5	-0.9	30	-0.03	Copper-Cu	<0.01
0.054	100	5.4	0.041	100	4.1	1.3	30	0.0433333	Iron-Fe	0.04
-0.015	100	-1.5	-0.013	100	-1.3	-0.2	30	-0.0066667	Lead-Pb	<0.01
0.208	100	20.8	0.221	100	22.1	-1.3	30	-0.0433333	Magnesium-Mg	<0.01
0.057	100	5.7	0.088	100	8.8	-3.1	30	-0.1033333	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	<0.01
0.002	100	0.2	0.002	100	0.2	0	30	0	Nickel-Ni	<0.01
0.461	100	46.1	0.661	100	66.1	-20	30	-0.6666667	Potassium-K	<0.01
-0.002	100	-0.2	0.015	100	1.5	-1.7	30	-0.0566667	Selenium-Se	0.03
-0.09	100	-9	-0.09	100	-9	0	30	0	Silver-Ag	<0.01
3.457	100	345.7	4.173	100	417.3	-71.6	30	-2.3866667	Sodium-Na	<0.01
-0.011	100	-1.1	-0.003	100	-0.3	-0.8	30	-0.0266667	Thallium-Tl	<0.01
0.026	100	2.6	0.03	100	3	-0.4	30	-0.0133333	Zinc-Zn	<0.01

LAB ID #01100280-006

NYCDEP - BAY STR & VICTORY BLVD. SI

C:\MEMFILES\NYCDEP\HAZMAT\001100280.xls

Prepared Exclusively For:
 NYCDEP-Emergency Response & Tech Assmt.
 96-05 Horace Harding Expressway
 Corona, NY 11368
 (718) 595-4650
MR. M. FAWZY, DIRECTOR

PEDNEAULT ASSOCIATES, INC.
 1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716

LAB NUMBER: 01100280

PROJECT ID : WORLD TRADE CENTER-5 Boro Sampling

DATE RECEIVED		RELEASE DATE		REPORT DATE
10/13/01		10/15/01		10/15/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
10/13/01 5:00 PM	01100280-007	AIR\GAS	TRIP BLANKS	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G		0.02	mg/m3
Antimony (Sb)	OSHA ID 121/125G		0.02	mg/m3
Arsenic (As)	OSHA ID 121/125G		<0.01	mg/m3
Barium (Ba)	OSHA ID 121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID 121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID 121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID 121/125G		1.66	mg/m3
Chromium (Cr)	OSHA ID 121/125G		<0.01	mg/m3
Copper (Cu)	OSHA ID 121/125G		0.02	mg/m3
Iron (Fe)	OSHA ID 121/125G		0.09	mg/m3
Lead (Pb)	OSHA ID 121/125G		<0.01	mg/m3
Magnesium (Mg)	OSHA ID 121/125G		0.09	mg/m3
Manganese (Mn)	OSHA ID 121/125G		0.10	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID 121/125G		<0.01	mg/m3
Potassium (K)	OSHA ID 121/125G		0.34	mg/m3
Selenium (Se)	OSHA ID 121/125G		0.09	mg/m3
Silver (Ag)	OSHA ID 121/125G		<0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G		5.75	mg/m3
Thallium (Tl)	OSHA ID 121/125G		0.02	mg/m3
Zinc (Zn)	OSHA ID 121/125G		0.02	mg/m3

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

Page 95 of 240
 NYS ELAP #10224
 MWBE #46075

SUPPLEMENTAL II

CITY_21MC100_002851014

PEDNEAULT ASSOCIATES, INC.
631-467-8477

NYCDEP - WTC
5-BORO SAMPLING
METALS IN AIR

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)
B=Concentration of Blank in sample solution (µg/ml) or (mg/L)
SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume
BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume
RAB= Reagent Blank Concentration (µg/ml) or (mg/L)
RABSV= Reagent Blank Sample Volume
D= Dilution Factor (NONE)
NO GRAVIMETRIC FACTORS TB= TRIP/FIELD BLANK
AV= Air Volume Sampled
AR=Analytical Result
ARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:
$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

TB (mg/L)	BSV (mL)	TB x TBSV = BBSV	RAB (mg/L)	RABSV (mL)	RAB x RABSV = RABBSV	TB-RAB = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.069	100	6.9	0.063	100	6.3	0.6	30	0.02	Aluminum- Al	0.02
0.025	100	2.5	0.02	100	2	0.5	30	0.0166667	Antimony-Sb	0.02
-0.015	100	-1.5	-0.017	100	-1.7	0.2	30	0.0066667	Arsenic-As	<0.01
0.003	100	0.3	0.002	100	0.2	0.1	30	0.0033333	Barium-Ba	<0.01
-0.011	100	-1.1	-0.011	100	-1.1	0	30	0	Beryllium-Be	<0.01
-0.021	100	-2.1	-0.022	100	-2.2	0.1	30	0.0033333	Cadmium-Cd	<0.01
1.368	100	136.8	0.869	100	86.9	49.9	30	1.6633333	Calcium-Ca	1.66
0.006	100	0.6	0.005	100	0.5	0.1	30	0.0033333	Chromium-Cr	<0.01
-0.05	100	-5	-0.056	100	-5.6	0.6	30	0.02	Copper-Cu	0.02
0.041	100	4.1	0.015	100	1.5	2.6	30	0.0866667	Iron-Fe	0.09
-0.013	100	-1.3	-0.011	100	-1.1	-0.2	30	-0.0066667	Lead-Pb	<0.01
0.221	100	22.1	0.195	100	19.5	2.6	30	0.0866667	Magnesium-Mg	0.09
0.088	100	8.8	0.059	100	5.9	2.9	30	0.0966667	Manganese-Mn	0.1
	100			100			30		Mercury-Hg	<0.01
0.002	100	0.2	0.002	100	0.2	0	30	0	Nickel-Ni	<0.01
0.661	100	66.1	0.56	100	56	10.1	30	0.3366667	Potassium-K	0.34
0.015	100	1.5	-0.011	100	-1.1	2.6	30	0.0866667	Selenium-Se	0.09
-0.09	100	-9	-0.09	100	-9	0	30	0	Silver-Ag	<0.01
4.173	100	417.3	2.449	100	244.9	172.4	30	5.7466667	Sodium-Na	5.75
-0.003	100	-0.3	-0.008	100	-0.8	0.5	30	0.0166667	Thallium-Tl	0.02
0.03	100	3	0.025	100	2.5	0.5	30	0.0166667	Zinc-Zn	0.02

LAB ID #01100280-007

NYCDEP - TRIP/FIELD BLANK

C:\IEM FILES\NYCDEP-HAZMAT\m01100280.xls

CITY_21MC100_002851015

Prepared Exclusively For:
 NYCDEP-Emergency Response & Tech Assmt.
 96-05 Horace Harding Expressway
 Corona, NY 11368
 (718) 595-4650
MR. M. FAWZY, DIRECTOR

PEDNEAULT ASSOCIATES, INC.
 1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716

LAB NUMBER: 01100280

PROJECT ID : WORLD TRADE CENTER-5 Boro Sampling

DATE RECEIVED		RELEASE DATE		REPORT DATE
10/13/01		10/15/01		10/15/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
10/13/01 6:50 PM	01100280-008	AIR\GAS	DUP/138th St. & 3rd AVENUE, BRONX	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G		0.10	mg/m3
Antimony (Sb)	OSHA ID 121/125G		<0.01	mg/m3
Arsenic (As)	OSHA ID 121/125G		0.02	mg/m3
Barium (Ba)	OSHA ID 121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID 121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID 121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID 121/125G		<0.01	mg/m3
Chromium (Cr)	OSHA ID 121/125G		<0.01	mg/m3
Copper (Cu)	OSHA ID 121/125G		<0.01	mg/m3
Iron (Fe)	OSHA ID 121/125G		0.05	mg/m3
Lead (Pb)	OSHA ID 121/125G		<0.01	mg/m3
Magnesium (Mg)	OSHA ID 121/125G		0.08	mg/m3
Manganese (Mn)	OSHA ID 121/125G		<0.01	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID 121/125G		<0.01	mg/m3
Potassium (K)	OSHA ID 121/125G		<0.01	mg/m3
Selenium (Se)	OSHA ID 121/125G		<0.01	mg/m3
Silver (Ag)	OSHA ID 121/125G		0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID 121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G		<0.01	mg/m3

John Pedneault
 Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

Page 96 of 240
 NYS ELAP #10224
 MWBE #46075

SUPPLEMENTAL II

CITY_21MC100_002851016

PEDNEAULT ASSOCIATES, INC.
631-467-8477

NYCDEP - WTC
5-BORO SAMPLING
METALS IN AIR

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)
B=Concentration of Blank in sample solution (µg/ml) or (mg/L)
SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume
BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume
RAB= Reagent Blank Concentration (µg/ml) or (mg/L)
RABSV= Reagent Blank Sample Volume
D= Dilution Factor (NONE)
NO GRAVIMETRIC FACTORS TB= TRIP/FIELD BLANK
AV= Air Volume Sampled
AR=Analytical Result
IARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV - BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.098	100	9.8	0.069	100	6.9	2.9	30	0.0966667	Aluminum-Al	0.1
0.016	100	1.6	0.025	100	2.5	-0.9	30	-0.03	Antimony-Sb	<0.01
-0.01	100	-1	-0.015	100	-1.5	0.5	30	0.0166667	Arsenic-As	0.02
0.004	100	0.4	0.003	100	0.3	0.1	30	0.0033333	Barium-Ba	<0.01
-0.011	100	-1.1	-0.011	100	-1.1	0	30	0	Beryllium-Be	<0.01
-0.021	100	-2.1	-0.021	100	-2.1	0	30	0	Cadmium-Cd	<0.01
1.338	100	133.8	1.368	100	136.8	-3	30	-0.1	Calcium-Ca	<0.01
0.005	100	0.5	0.006	100	0.6	-0.1	30	-0.0033333	Chromium-Cr	<0.01
-0.052	100	-5.2	-0.05	100	-5	-0.2	30	-0.0066667	Copper-Cu	<0.01
0.057	100	5.7	0.041	100	4.1	1.6	30	0.0533333	Iron-Fe	0.05
-0.011	100	-1.1	-0.013	100	-1.3	0.2	30	0.0066667	Lead-Pb	<0.01
0.246	100	24.6	0.221	100	22.1	2.5	30	0.0833333	Magnesium-Mg	0.08
0.073	100	7.3	0.088	100	8.8	-1.5	30	-0.05	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	<0.01
0.003	100	0.3	0.002	100	0.2	0.1	30	0.0033333	Nickel-Ni	<0.01
0.641	100	64.1	0.661	100	66.1	-2	30	-0.0666667	Potassium-K	<0.01
-0.001	100	-0.1	0.015	100	1.5	-1.6	30	-0.0533333	Selenium-Se	<0.01
-0.087	100	-8.7	-0.09	100	-9	0.3	30	0.01	Silver-Ag	0.01
3.964	100	396.4	4.173	100	417.3	-20.9	30	-0.6966667	Sodium-Na	<0.01
-0.006	100	-0.6	-0.003	100	-0.3	-0.3	30	-0.01	Thallium-Tl	<0.01
0.027	100	2.7	0.03	100	3	-0.3	30	-0.01	Zinc-Zn	<0.01

LAB ID #01100280-008

NYCDEP - DUPLICATE OF #01100280-002

c:\IEM FILE\NYCDEP-HA7MAT\m01100280.xls