NYC 9/11 Public Portal Document

PEDNEAULT ASSOCIATES, INC.

1615 NINTH AVENUE, BOX 205
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AMERICA'S TEST LAB!

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: 01090365

PROJECT ID : WORLD TRADE CENTER-5 Boro Sampling

DATE RECEIVED	RELEASE DATE	REPORT DATE
9/28/01	10/1/01	10/1/01

COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:
9/27/01 4:54 PM	01090365-001	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	1.34	mg/m3
Arsenic (As)	OSHA ID 121/125G	0.34	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	0.39	mg/m3
Chromium (Cr)	OSHA ID 121/125G	0.02	mg/m3
Copper (Cu)	OSHA ID 121/125G	0.04	mg/m3
Iron (Fe)	OSHA ID 121/125G	0.12	mg/m3
Lead (Pb)	OSHA ID 121/125G	0.16	mg/m3
Magnesium (Mg)	OSHA ID 121/125G	0.12	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	0.39	mg/m3
Silver (Ag)	OSHA ID 121/125G	<0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G	0.22	mg/m3
Thallium (Tl)	OSHA ID 121/125G	0.04	mg/m3
Zinc (Zn)	OSHA ID 121/125G	<0.01	mg/m3

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

John Pedneault
Lab Director

NYS ELAP #10224
MWBE #46075

CITY_21MC100_002952651

NYC-WTC_000286901

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96-05 Horace Harding Expressway
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MR. M. FAWZY, DIRECTOR

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

LAB NUMBER: 01090365

PROJECT ID : WORLD TRADE CENTER-5 Boro Sampling

DATE RECEIVED	RELEASE DATE	REPORT DATE
9/28/01	10/1/01	10/1/01

COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:
9/27/01 5:40 PM	01090365-002	AIR\GAS	138th St. & 3rd AVENUE, BRONX

PARAMETER	METHOD	RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G	<0.01	mg/m3
Antimony (Sb)	OSHA ID 121/125G	0.36	mg/m3
Arsenic (As)	OSHA ID 121/125G	0.07	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	0.95	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	<0.01	mg/m3
Lead (Pb)	OSHA ID 121/125G	0.02	mg/m3
Magnesium (Mg)	OSHA ID 121/125G	0.32	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	0.11	mg/m3
Silver (Ag)	OSHA ID 121/125G	<0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G	16.8	mg/m3
Thallium (Tl)	OSHA ID 121/125G	0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G	<0.01	mg/m3

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

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CITY_21MC100_002952652

NYC-WTC_000286902

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NYCDEP-Emergency Response & Tech Assmt.	*1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716*
96-05 Horace Harding Expressway	**LAB NUMBER:** 01090365
Corona , NY 11368	**PROJECT ID :** WORLD TRADE CENTER-5 Boro Sampling
(718) 595-4650	
MR. M. FAWZY, DIRECTOR	

DATE RECEIVED	**RELEASE DATE**	**REPORT DATE**
9/28/01	10/1/01	10/1/01

COLLECT DATE:	**SAMPLE ID#:**	**MATRIX:**	**SAMPLE ORIGIN:**
9/27/01 6:15 PM	01090365-003	AIR\GAS	CENTAL PARK N. & LENOX , MANHATTAN

PARAMETER	**METHOD**	**RESULT**	**UNITS**
Aluminum (Al)	OSHA ID 121/125G	<0.01	mg/m3
Antimony (Sb)	OSHA ID 121/125G	0.22	mg/m3
Arsenic (As)	OSHA ID 121/125G	0.06	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	<0.01	mg/m3
Lead (Pb)	OSHA ID 121/125G	0.01	mg/m3
Magnesium (Mg)	OSHA ID 121/125G	0.07	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	0.07	mg/m3
Silver (Ag)	OSHA ID 121/125G	<0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G	4.13	mg/m3
Thallium (Tl)	OSHA ID 121/125G	<0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G	<0.01	mg/m3

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

John Pedneault
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MWBE #46075

CITY_21MC100_002952653

NYC-WTC_000286903

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NYCDEP-Emergency Response & Tech Assmt.	1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716
96-05 Horace Harding Expressway	**LAB NUMBER:** 01090365
Corona , NY 11368	**PROJECT ID :** WORLD TRADE CENTER-5 Boro Sampling
(718) 595-4650	
MR. M. FAWZY, DIRECTOR	

DATE RECEIVED	RELEASE DATE	REPORT DATE
9/28/01	10/1/01	10/1/01

COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:
9/27/01 7:25 PM	01090365-004	AIR\GAS	BERRY ST. & NORTH 11th ST, BROOKLYN

PARAMETER	METHOD	RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G	<0.01	mg/m3
Antimony (Sb)	OSHA ID 121/125G	0.16	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	<0.01	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	0.03	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	0.04	mg/m3
Silver (Ag)	OSHA ID 121/125G	<0.01	mg/m3
Sodium (Na)	OSHA ID 121/125G	0.12	mg/m3
Thallium (Tl)	OSHA ID 121/125G	0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G	<0.01	mg/m3

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

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CITY_21MC100_002952654

NYC-WTC_000286904

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NYCDEP-Emergency Response & Tech Assmt.	*1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716*
96-05 Horace Harding Expressway	**LAB NUMBER:** 01090365
Corona , NY 11368	**PROJECT ID :** WORLD TRADE CENTER-5 Boro Sampling
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MR. M. FAWZY, DIRECTOR	

DATE RECEIVED		**RELEASE DATE**	**REPORT DATE**
9/28/01		10/1/01	10/1/01
COLLECT DATE:	**SAMPLE ID#:**	**MATRIX:**	**SAMPLE ORIGIN:**
9/27/01 8:05 PM	01090365-005	AIR\GAS	ATLANTIC AVE. & SMITH ST., BROOKLYN

PARAMETER	METHOD	RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G	<0.01	mg/m3
Antimony (Sb)	OSHA ID 121/125G	0.11	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	<0.01	mg/m3
Lead (Pb)	OSHA ID 121/125G	<0.01	mg/m3
Magnesium (Mg)	OSHA ID 121/125G	0.10	mg/m3
Manganese (Mn)	OSHA ID 121/125G	0.02	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	5.82	mg/m3
Thallium (Tl)	OSHA ID 121/125G	<0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G	<0.01	mg/m3

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

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CITY_21MC100_002952655

NYC-WTC_000286905

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

LAB NUMBER: 01090365

PROJECT ID : WORLD TRADE CENTER-5 Boro Sampling

DATE RECEIVED	RELEASE DATE	REPORT DATE
9/28/01	10/1/01	10/1/01

COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:
9/27/01 8:50 PM	01090365-006	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	0.10	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	<0.01	mg/m3
Lead (Pb)	OSHA ID 121/125G	<0.01	mg/m3
Magnesium (Mg)	OSHA ID 121/125G	0.10	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	8.06	mg/m3
Thallium (Tl)	OSHA ID 121/125G	<0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G	<0.01	mg/m3

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

John Pedneault
Lab Director

NYS ELAP #10224
MWBE #46075

CITY_21MC100_002952656

NYC-WTC_000286906

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96-05 Horace Harding Expressway	**LAB NUMBER:** 01090365
Corona , NY 11368	**PROJECT ID :** WORLD TRADE CENTER-5 Boro Sampling
(718) 595-4650	
MR. M. FAWZY, DIRECTOR	

DATE RECEIVED	RELEASE DATE	REPORT DATE
9/28/01	10/1/01	10/1/01

COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:
9/27/01 4:00 PM	01090365-007	AIR\GAS	TRIP BLANKS

PARAMETER	METHOD	RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G	<0.01	mg/m3
Antimony (Sb)	OSHA ID 121/125G	0.10	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	0.02	mg/m3
Copper (Cu)	OSHA ID 121/125G	<0.01	mg/m3
Iron (Fe)	OSHA ID 121/125G	0.26	mg/m3
Lead (Pb)	OSHA ID 121/125G	<0.01	mg/m3
Magnesium (Mg)	OSHA ID 121/125G	0.13	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	6.79	mg/m3
Thallium (Tl)	OSHA ID 121/125G	<0.01	mg/m3
Zinc (Zn)	OSHA ID 121/125G	<0.01	mg/m3

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

John Pedneault
Lab Director

NYS ELAP #10224
MWBE #46075

CITY_21MC100_002952657

NYC-WTC_000286907