

104 Elden Street
Herndon, Virginia 22070



Phone: 703 • 471-4200
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HP ENVIRONMENTAL
INCORPORATED

Certificate of Laboratory Analysis

ET Environmental, Inc.
Attn: George Pineda
3424 Peachtree Road, Suite 200
Atlanta, GA 30326

Date Received 9/23/01 **Report Number** 014885
Date Reported 9/26/01 **Page 1 of 3**
Project Location Project 7600: World Trade Center, NY, NY

1. **Client Sample No.:** WTC-092301-01Pb **HPE Sample No:** 014885-01
Sample Matrix: Air (882 liters) **Date Collected:** 9/23/01
Sample Location: Turner's onsite office, entry ara

Test Requested: Lead • NIOSH 7082

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>POL</u>
Lead	<0.1	µg/m3	0.1

Date Analyzed: 9/25/01 **Analyst:** SunB. Cambron

2. **Client Sample No.:** WTC-092301-02Pb **HPE Sample No:** 014885-02
Sample Matrix: Air (865 liters) **Date Collected:** 9/23/01
Sample Location: On Piotr Chmielinski, during all day monitoring activities

Test Requested: Lead • NIOSH 7082

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>POL</u>
Lead	<0.1	µg/m3	0.1

Date Analyzed: 9/25/01 **Analyst:** SunB. Cambron

3. **Client Sample No.:** WTC-092301-03Pb **HPE Sample No:** 014885-03
Sample Matrix: Air (677 liters) **Date Collected:** 9/23/01
Sample Location: North side of Building 7, on crane's cabin

Test Requested: Lead • NIOSH 7082

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>POL</u>
Lead	4.8	µg/m3	0.1

Date Analyzed: 9/25/01 **Analyst:** SunB. Cambron

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SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

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Project Location Project 7600: World Trade Center, NY, NY

4. Client Sample No.: WTC-092301-04Pb **HPE Sample No:** 014885-04
Sample Matrix: Air (637 liters) **Date Collected:** 9/23/01
Sample Location: North side of Building 7, inside basket

Test Requested: TAL Metals • EPA 200.7

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>POL</u>
Aluminum	47	µg/m3	12
Antimony	<0.5	µg/m3	0.5
Arsenic	<0.5	µg/m3	0.5
Barium	<0.5	µg/m3	0.5
Beryllium	<0.5	µg/m3	0.5
Cadmium	<0.5	µg/m3	0.5
Calcium	51	µg/m3	30
Chromium	0.75	µg/m3	0.1
Cobalt	<0.5	µg/m3	0.5
Copper	22	µg/m3	6.0
Iron	39	µg/m3	6.0
Lead	15	µg/m3	0.5
Magnesium	7.5	µg/m3	30
Manganese	<0.5	µg/m3	0.5
Mercury	Pending	µg/m3	0.5
Nickel	<0.5	µg/m3	0.5
Potassium	2.3	µg/m3	1.0
Selenium	<0.5	µg/m3	0.5
Silver	<0.5	µg/m3	0.5
Sodium	260	µg/m3	30
Thallium	<0.5	µg/m3	0.5
Vanadium	4.5	µg/m3	3.0
Zinc	34	µg/m3	1.0
Bismuth	<0.5	µg/m3	0.5

Date Analyzed: 9/25/01 **Analyst:** SunB. Cambron

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Date Received 9/23/01 **Report Number** 014885
Date Reported 9/26/01 **Page 3 of 3**
Project Location Project 7600: World Trade Center, NY, NY

5. Client Sample No.: WTC-092301-05Pb **HPE Sample No:** 014885-05
Sample Matrix: Air (600 liters) **Date Collected:** 9/23/01
Sample Location: Northwest of Building 5, on post, 30' from work area
at Building 7
Test Requested: Lead • NIOSH 7082

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>POL</u>
Lead	1.5	µg/m3	0.1

Date Analyzed: 9/25/01 **Analyst:** SunB. Cambron

Reporting Notes:

R. Hugh Granger, Ph.D., CIH
Laboratory Director

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CITY_21MC100_003416379

WTC-Pb(Au)-#4/#7

T. 1417 (23 meters)

Rpt# Sample#	Pb (mg/L) Blank	(mg/L)	Client Pb (mg/L)	ET ENV. Dil (ml)	Air (Pb) Result (µg)	Ref# Volume (L)	34906 Volume (m3)	Result (µg/m3)	Final Result (µg/m3)
WTC 092301-01Pb	0.0245	0.0227	0	15	0.00	882	0.882	0.00	< 0.5
WTC 092301-02Pb	0.0245	0.0394	0.0149	15	0.22	865	0.865	0.26	< 0.5
WTC 092301-03Pb	0.0245	0.2432	0.2187	15	3.28	677	0.677	4.84	4.8
WTC 092301-04Pb	0.0245	0.6453	0.6208	15	9.31	636	0.636	14.65	15
WTC 092301-05Pb	0.0245	0.0852	0.0607	15	0.91	600	0.600	1.52	1.5
Sample#	Ag (µg/m3)	Al (µg/m3)	As (µg/m3)	Ba (µg/m3)	Be (µg/m3)	Bi (µg/m3)	Ca (µg/m3)	Cd (µg/m3)	Co (µg/m3)
WTC 092301-04	< 0.5	47	< 0.5	< 0.5	< 0.5	< 0.5	51	< 0.5	< 0.5
	Cr (µg/m3)	Cu (µg/m3)	Fe (µg/m3)	K (µg/m3)	Mg (µg/m3)	Mn (µg/m3)	Na (µg/m3)	Ni (µg/m3)	Pb (µg/m3)
	0.75	22	39	2.3	7.5	< 0.5	260	< 0.5	14
	Sb (µg/m3)	Se (µg/m3)	Tl (µg/m3)	V (µg/m3)	Zn (µg/m3)				
	< 0.5	< 0.5	< 0.5	4.5	34				
Sample#	Ag (µg/m3)	Al (µg/m3)	As (µg/m3)	Ba (µg/m3)	Be (µg/m3)	Bi (µg/m3)	Ca (µg/m3)	Cd (µg/m3)	Co (µg/m3)
WTC 092201-07	< 0.5	45	< 0.5	< 0.5	< 0.5	< 0.5	22	< 0.5	< 0.5
	Cr (µg/m3)	Cu (µg/m3)	Fe (µg/m3)	K (µg/m3)	Mg (µg/m3)	Mn (µg/m3)	Na (µg/m3)	Ni (µg/m3)	Pb (µg/m3)
	0.81	4.1	10	1.1	61	< 0.5	260	< 0.5	5.1
	Sb (µg/m3)	Se (µg/m3)	Tl (µg/m3)	V (µg/m3)	Zn (µg/m3)				
	< 0.5	< 0.5	< 0.5	0.56	120				

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