

US EPA ARCHIVE DOCUMENT

Appendix C

Data Chem Laboratory Reports

Sample Shipping Information

Samples were placed in an oversized, sturdy box with packing material to fill voids and protect the samples during shipping. The sampling personnel then signed the chain-of-custody forms, and placed them in the box with the samples. Samples were shipped via Federal Express to the laboratory.



ANALYTICAL REPORT

Form ARF-AL
Page 1 of 3
Part 1 of 1
03060316572135RX

Date MAR 07 2003
Laboratory Group Name 03I-0545-04
Account No. 07003

Booz Allen Hamilton
Attention: Steve Coffee
5299 DTC Blvd.
Suite 840
Greenwood Village, CO 80111

FAX (303) 694-7367
Telephone (303) 221-7559

E-mail _____

Sampling Collection and Shipment

Sampling Site _____ Date of Collection February 25, 2003
Date Samples Received at Laboratory March 03, 2003

Analysis

Method of Analysis NMAM 6009
Date(s) of Analysis March 06, 2003

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Mercury $\mu\text{g}/\text{sample}$	Mercury mg/m^3	Air Volume L				
BG-2/25-02	03I06658	TUBE	0.23	0.0039	58.94				
BG-2/25-04	03I06659	TUBE	0.27	0.0047	58.24				
A/A-2/26-06	03I06660	TUBE	0.19	0.012	15.30				
A/A-2/26-08	03I06661	TUBE	0.23	0.015	15.05				
A/A-2/26-10	03I06662	TUBE	0.066	0.0055	12.09				
A/A-2/26-12	03I06663	TUBE	0.15	0.010	15.00				
A/A-2/26-14	03I06664	TUBE	0.12	0.0095	12.56				
A/A-2/26-16	03I06665	TUBE	0.20	0.013	15.80				
A/A-2/26-18	03I06666	TUBE	0.059	0.019	3.07				
A/A-2/26-20	03I06667	TUBE	0.088	0.019	4.58				
BLANK2/26/03	03I06668	TUBE	0.040	**	0.00				
BLANK2/26-03	03I06669	TUBE	0.041	**	0.00				
R/A-2/27-22	03I06670	TUBE	0.21	0.012	17.19				

† See comment on last page.
ND Parameter not detected above LOD.
NR Parameter not requested.

** See comment on last page.
() Parameter between LOD and LOQ.

Analyst: Jason D. Kim

Reviewer: Neil A. Edwards

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
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ANALYTICAL REPORT

Form ARF-BL
Page 2 of 3
Part 1 of 1
03060316572135RX

Date MAR 07 2003
Laboratory Group Name 03I-0545-04

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Mercury $\mu\text{g}/\text{sample}$	Mercury mg/m^3	Air Volume L					
R/A-2/27-24	03I06671	TUBE	0.19	0.011	17.25					
R/A-2/27-26	03I06672	TUBE	0.22	0.013	16.97					
R/A-2/27-28	03I06673	TUBE	0.19	0.011	17.30					
R/A-2/27-30	03I06674	TUBE	0.048	0.0028	16.97					
R/A-2/27-32	03I06675	TUBE	0.19	0.011	17.19					
R/A-2/27-34	03I06676	TUBE	0.061	0.020	3.03					
BLANK2/27/03	03I06677	TUBE	0.041	**	0.00					
BLANK2/27/03	03I06678	TUBE	0.038	**	0.00					
H/A-2/27-36	03I06679	TUBE	0.34	0.040	8.42					
H/A-2/27-38	03I06680	TUBE	1.1	0.13	8.58					
H/A-2/27-40	03I06681	TUBE	4.9	0.58	8.33					
H/A-2/27-42	03I06682	TUBE	5.3	0.64	8.23					
H/A-2/27-44	03I06683	TUBE	2.7	0.33	8.28					
H/A-2/27-46	03I06684	TUBE	5.1	0.36	13.92					
H/A-2-27-48	03I06685	TUBE	0.17	0.19	0.92					
D/A-2/28-50	03I06686	TUBE	0.15	0.012	13.16					
D/A-2/28-52	03I06687	TUBE	0.17	0.013	12.99					
D/A-2/28-54	03I06688	TUBE	0.049	0.0039	12.47					
D/A-2/28-56	03I06689	TUBE	0.16	0.012	13.03					
D/A-2/28-58	03I06690	TUBE	0.16	0.012	13.20					
D/A-2/28-60	03I06691	TUBE	0.16	0.012	13.03					
D/A-2/28-62	03I06692	TUBE	0.082	0.025	3.29					
BLANK2/28/03	03I06693	TUBE	0.042	**	0.00					
BLANK2/28/03	03I06694	TUBE	0.040	**	0.00					
Reporting Limit			0.01							

† See comment on last page. ** See comment on last page.
 ND Parameter not detected above LOD. () Parameter between LOD and LOQ.

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ANALYTICAL REPORT

Form ARF-C
Page 3 of 3
03060316572135RX

Date MAR 07 2003
Laboratory Group Name Q3I-0545-04

General Set Comments

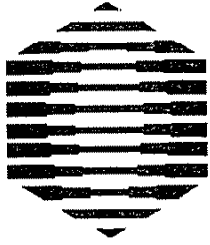
Method Reference: NIOSH Manual of Analytical Methods(NMAM), 4th ed., 08/15/94.
Results are not blank-corrected.
Results obtained for media blanks prepared from SKC Carulite tubes are typically found to have concentrations approximately 0.035-0.045 µg/sample above the reporting limit of 0.01 µg/sample.
Results cannot be reported in mg/m³ or ppm for samples with no air volume.

General Lab Comments

The results provided in this report relate only to the items tested.
This page is the concluding page of the report.

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DATA CHEM

LABORATORIES, INC.

ANALYTICAL REQUEST FORM

1. REGULAR Status 03I-0545-04
 RUSH Status Requested - ADDITIONAL CHARGE
 RESULTS REQUIRED BY _____ DATE _____
 CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 2/28/03 Purchase Order No. _____ 4. Quote No. _____
 3. Company Name Booz Allen Hamilton DCL Project Manager Rand Potter
 Address 5299 DTC Blvd. Suite 840
Greenwood Village, CO 80111 5. Sample Collection
 Person to Contact Steve Coffee Sampling Site _____
 Telephone (303) 221-7559 Industrial Process _____
 Fax Telephone (303) 694-7367 Date of Collection 2/25/03
 E-mail Address coffee_stephen@bah.com Time Collected _____
 Billing Address (if different) on file Date of Shipment 2/28/03
 Chain of Custody No. 01

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	<u>3705-BG-2/25-01</u>	<u>MCEF</u>	<u>58.94 L</u>	<u>HD-145 N9103 Hg</u>	<u>2</u>
<u>03IO6658</u>	<u>02</u>	<u>HYDRAR</u>	<u>58.94 L</u>	<u>HYDRAR NAM 6009 Hg</u>	<u>2</u>
	<u>03</u>	<u>MCEF</u>	<u>58.24 L</u>	<u>HD-145 NAM 6009 Hg</u>	<u>2</u>
<u>03IO6659</u>	<u>04</u>	<u>HYDRAR</u>	<u>58.24 L</u>	<u>HYDRAR NAM 6009 Hg</u>	<u>2</u>

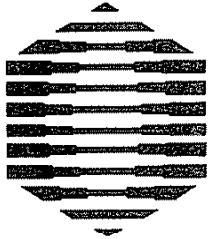
* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other
 ** 1 mg/sample 2. mg/m³ 3 ppm 4 % 5 _____ (other) Please indicate one or more units in the column entitled Units**
 Comments _____

Possible Contamination and/or Chemical Hazards _____

7. Chain of Custody (Optional)

Relinquished by <u>Steve Coffee</u>	Date/Time <u>2/25/03 1500</u>
Received by <u>Rand Potter</u>	Date/Time <u>3/3</u>
Relinquished by <u>Rand Potter</u>	Date/Time <u>3/3/03</u>
Received by _____	Date/Time _____

US EPA ARCHIVE DOCUMENT



DATA CHEM

LABORATORIES, INC.

ANALYTICAL REQUEST FORM

1. REGULAR Status

03I-0545-04

RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE _____

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 2/28/03 Purchase Order No _____ 4. Quote No _____
 3. Company Name Bacz Allen Hamilton DCL Project Manager Ronald Potter
 Address 5299 DTC Blvd, Suite 840
Greenwood Village, CO 80111
 Person to Contact Steve Coffee
 Telephone (303) 221-7559
 Fax Telephone (303) 694-7367
 E-mail Address coffee_stephen@bah.com
 Billing Address (if different) on file

5. Sample Collection
 Sampling Site _____
 Industrial Process _____
 Date of Collection 2/26/03
 Time Collected _____
 Date of Shipment 2/28/03
 Chain of Custody No. 03

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
03FC6660	3705-A/H-2/26-06	HYDRAR	15.30L	NAM 6009	2
61	" 08	HYDRAR	15.05L	NAM 6009	2
62	" 10	HYDRAR	12.09L	NAM 6009	2
63	" 12	HYDRAR	15.00L	NAM 6009	2
64	" 14	HYDRAR	12.56L	NAM 6009	2
65	" 16	HYDRAR	15.80L	NAM 6009	2
66	" 18	HYDRAR	3.07L	NAM 6009	2
67	" 20	HYDRAR	4.58L	NAM 6009	2
68	BLANK 2/26/03	HYDRAR		NAM 6009	2
69	BLANK 2/26/03	HYDRAR		NAM 6009	2

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

** 1 mg/sample 2 mg/m³ 3 ppm 4 % 5 _____ (other) Please indicate one or more units in the column entitled Units**

Comments _____

Possible Contamination and/or Chemical Hazards _____

7. Chain of Custody (Optional)

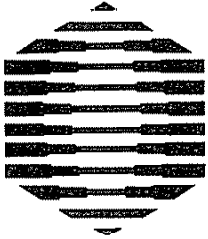
Relinquished by <u>Steve D. Coffey</u>	Date/Time <u>2/28/03 1500</u>
Received by <u>Ronald Potter</u>	Date/Time <u>3/3</u>
Relinquished by <u>Ronald Potter</u>	Date/Time <u>2/3/03</u>
Received by _____	Date/Time _____

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DATA CHEM

LABORATORIES, INC.

ANALYTICAL REQUEST FORM

1. REGULAR Status 03I-CS45-04
 RUSH Status Requested - ADDITIONAL CHARGE
 RESULTS REQUIRED BY _____ DATE _____
 CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 2/28/03 Purchase Order No _____ 4. Quote No _____
 3. Company Name Booz Allen Hamilton DCL Project Manager Rand Potter
 Address 5299 DTC Blvd., Suite 940
Greenwood Village, CO 80111
 Person to Contact Steve Coffee
 Telephone (303) 221-7559
 Fax Telephone (303) 694-7367
 E-mail Address coffee.stephen@bah.com
 Billing Address (if different) on file

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
13106670	3705-R/A-2/27-22	HYDRAR	17.19L	NAM 6009	2
71	"-24	HYDRAR	17.25L	NAM 6009	2
72	"-26	HYDRAR	16.97L	NAM 6009	2
73	"-28	HYDRAR	17.30L	NAM 6009	2
74	"-30	HYDRAR	16.97L	NAM 6009	2
75	"-32	HYDRAR	17.19L	NAM 6009	2
76	"-34	HYDRAR	3.03L	NAM 6009	2
77	Blank 2/27/03	HYDRAR		NAM 6009	2
78	Blank 2/27/03	HYDRAR		NAM 6009	2

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other
 ** 1. mg/sample 2 mg/m³ 3 ppm 4 % 5 _____ (other) Please indicate one or more units in the column entitled Units**

Comments _____

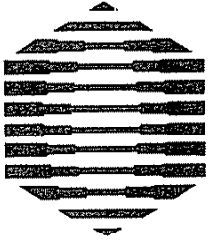
Possible Contamination and/or Chemical Hazards _____

7. Chain of Custody (Optional)

Relinquished by <u>Jordan Murphy</u>	Date/Time <u>2/28/03 1500</u>
Received by <u>Rand Potter</u>	Date/Time <u>3/3</u>
Relinquished by <u>Rand Potter</u>	Date/Time <u>3/3</u>
Received by _____	Date/Time _____

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**DATA
CHEM**
LABORATORIES, INC.

ANALYTICAL REQUEST FORM

1. REGULAR Status 03I-054504
 RUSH Status Requested - ADDITIONAL CHARGE
 RESULTS REQUIRED BY _____ DATE _____
 CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 2/28/03 Purchase Order No _____
 3. Company Name Booz Allen Hamilton DCL Project Manager Rand Potter
 Address 5299 DTC Blvd., Suite 940
Greenwood Village, CO 80111
 Person to Contact Steve Coffee
 Telephone (303) 221-7559
 Fax Telephone (303) 694-7367
 E-mail Address coffee.stephen@bah.com
 Billing Address (if different) on file

4. Quote No _____
 5. Sample Collection
 Sampling Site _____
 Industrial Process _____
 Date of Collection 2/27/03
 Time Collected _____
 Date of Shipment 2/28/03
 Chain of Custody No 19

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
03I06679	3705-H/A-2/27-36	HYDRAR	8.42L	NAM 6009	2
80	"-38	HYDRAR	8.58L	NAM 6009	2
81	"-40	HYDRAR	8.33L	NAM 6009	2
82	"-42	HYDRAR	8.23L	NAM 6009	2
83	"-44	HYDRAR	8.28L	NAM 6009	2
84	"-46	HYDRAR	13.92L	NAM 6009	2
85	"-48	HYDRAR	0.92L	NAM 6009	2

* Specify: Solid sorbent tube, e.g Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other
 ** 1 mg/sample 2 mg/m³ 3 ppm 4 % 5 ____ (other) Please indicate one or more units in the column entitled Units**
 Comments _____

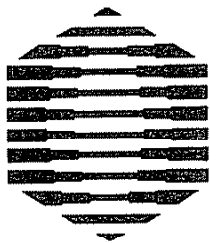
Possible Contamination and/or Chemical Hazards _____

7. Chain of Custody (Optional)

Relinquished by <u>Jordan Murphy</u>	Date/Time <u>2/28/03 1500</u>
Received by <u>Rand Potter</u>	Date/Time <u>3/3</u>
Relinquished by <u>Rand Potter</u>	Date/Time <u>3/3</u>
Received by _____	Date/Time _____

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 DATACHEM LABORATORIES, INC.

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DATA CHEM

LABORATORIES, INC.

ANALYTICAL REQUEST FORM

1. REGULAR Status

03I-0545-04

RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE _____

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 2/28/03 Purchase Order No _____

4. Quote No _____

3. Company Name Booz Allen Hamilton

DCL Project Manager Rand Potter

Address 5299 DTC Blvd., Suite 940
Greenwood Village, CO 80111

5. Sample Collection

Person to Contact Steve Coffee

Sampling Site _____

Telephone (303) 221-7559

Industrial Process _____

Fax Telephone (303) 694-7367

Date of Collection 2/28/03

E-mail Address Coffee Stephen@bah.com

Time Collected _____

Billing Address (if different) on file

Date of Shipment 2/28/03

Chain of Custody No 21

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
03I06686	3705-D/A-2/28-58	HYDRAC	13.16L	NAM 6009	2
87	"-52	HYDRAR	12.99L	NAM 6009	2
88	"-54	HYDRAR	12.47L	NAM 6009	2
89	"-56	HYDRAR	13.03L	NAM 6009	2
90	"-58	HYDRAR	13.20L	NAM 6009	2
91	"-60	HYDRAR	13.03L	NAM 6009	2
92	"-62	HYDRAR	3.29L	NAM 6009	2
93	Blank 2/28/03	HYDRAR	-	NAM 6009	2
94	Blank 2/28/03	HYDRAR	-	NAM 6009	2

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

** 1 mg/sample 2 mg/m³ 3 ppm 4 % 5 _____ (other) Please indicate one or more units in the column entitled Units**

Comments _____

Possible Contamination and/or Chemical Hazards _____

7. Chain of Custody (Optional)

Relinquished by <u>Jordan Murphy</u>	Date/Time <u>2/28/03 1500</u>
Received by <u>Rand Potter</u>	Date/Time <u>3/3</u>
Relinquished by <u>Rand Potter</u>	Date/Time <u>3/3/03</u>
Received by _____	Date/Time _____

960 West LeVoy Drive / Salt Lake City, UT 84123

800-356-9135 or 801-266-7700 / FAX: 801-268-9992

DATACHEM LABORATORIES, INC.