

Preston Engineering, Inc.

environmental consultants

Corporate Office
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www.prestonengineering.com

July 22, 2002

Ken Herstowski, Project Manager
Region VII
US Environmental Protection Agency
901 North 5th Street
Kansas City, KS 66101

CON 12-15
Doc #12383

REC'D
JUL 29 2002
RCAP

RE: RV Hopkins, Inc
EPA # IAD022096028
June 2002 Sampling Results

Dear Mr. Herstowski:

Enclosed are the sampling results for the June 26, 2002 event at RV Hopkins, Inc. Sampling was performed as part of the approved November 2000 Closure Plan for the facility. The procedures followed were in accordance to the Groundwater Sampling Plan submitted to the agency on June 13, 2001.

Purging activities were performed on June 25, 2002. At this time, pH, and temperature were measured to ensure that the wells were properly evacuated. A copy of the field notes and a typed summary are being submitted with this letter.

Prior to preserving the sample, turbidity was measured. If the turbidity was greater then 5 NTUs, the sample was field filtered. All samples were filtered in the field as the criteria set forth in the sampling plan was not met.

In the following table, the June 26, 2002 results are summarized.

Parameter	MCL (mg/L)	MW1 (mg/L)	MW2 (mg/L)	Duplicate (mg/L)	Relative % Difference	MW3 (mg/L)	MW5 (mg/L)
Arsenic	0.05	0.0049	0.0046	0.0048	4%	0.0050	0.0053
Barium	2	0.254	0.204	0.203	0.5%	0.231	0.241
Cadmium	0.005	<0.00014	<0.00014	<0.00014	0%	<0.00014	<0.00014
Chromium	0.1	<0.0032	<0.0032	<0.0032	0%	<0.0032	<0.0032
Lead	0.015	<0.00053	<0.00053	<0.00053	0%	<0.00053	0.0010
Mercury	0.002	0.000045	0.000046	0.000043	7%	0.000040	0.000046
Selenium	0.05	<0.00073	<0.00073	<0.00073	0%	<0.00073	<0.00073
Silver	NA	<0.0015	<0.0015	<0.0015	0%	<0.0015	<0.0015



R00401118

RCRA RECORDS CENTER

Regional Office
5650 N.W. Johnston Dr. Ste. G • Johnston, IA 50131
Ph. 515/727/9195 • Fax 515/727/9198

DATE STAMP

2002 NOV -1 A 11: 34
DEPT OF
NATURAL RESOURCES

The method detection limit for each parameter was used for the reporting limit. These concentrations are below the maximum contamination limit.

A duplicate sample was collected from monitoring well #2 (MW2) as part of quality assurance and quality control. The groundwater sampling plan indicated that a 20% relative percent difference between the duplicate and well sample is considered to be an unacceptable result. The results were all below 20% for all parameters. Holding times and preservation temperature were met according to the laboratory report. A quality assurance report performed by the laboratory has been included with the analytical report.

Mercury was detected at low concentrations in all samples and range from 0.040 to 0.046 $\mu\text{g/L}$. The laboratory reported that these concentrations might be due to the variability in noise of the instrument due to the low reporting concentration. According to the laboratory, the MDE for mercury is evaluated once per year as required by the State of Iowa. The MDL for any given parameter is not run specific, and does not take into account changes in the matrix or the instrument. Mercury is most likely not present in the ground water at RV Hopkins.

Arsenic and barium were detected in low concentrations. All concentrations were below the respective MCL. In addition, concentrations of arsenic at RV Hopkins is less than the proposed standard of 10 ppb. Lead was detected only in monitoring well #5 in very low concentrations, 0.0010 mg/l.

I have also enclosed a groundwater contour map. The contour map shows that the water is flowing to the south and southwest.

If you have any questions or comments regarding this matter, please don't hesitate to contact me.

Sincerely,



Jaci L.E. Moore, E.I.T.

Enclosures: Groundwater Analytical Report dated July 9, 2002
Field Notes
Groundwater Contour Map

cc: James Bentley, RV Hopkins, Inc- Davenport, Iowa

Monitoring Well #1

Purging:

June 25, 2002
Time Purged: ~11:00am
Depth of Well: 19.24'
Depth to Water: 3.69'
Column of Water: 15.55'
Amount to Purge: 7.78 gallons
Actual Purging Volume: 8 gallons

pH: 7.49
Temperature: 52.3°F
Specific Conductivity: NA μ mho

Sampling:

June 26, 2002 at ~9:00 am
Turbidity: 23.9 NTU
Sample was Field Filtered
Specific Conductivity: 748 μ mho

Monitoring Well #3

Purging:

June 25, 2002
Time Purged: ~12:30 pm
Depth of Well: 22.30'
Depth to Water: 5.65'
Column of Water: 16.65'
Amount to Purge: 8.33 gallons
Actual Purging Volume: 10 gallons

pH: 7.32
Temperature: 57.5°F
Specific Conductivity: NA μ mho

Sampling:

June 26, 2002 at ~9:40am
Turbidity: 38.9 NTU
Sample was field filtered
Specific Conductivity: 768 μ mho

Monitoring Well #2

Purging:

June 25, 2002
Time Purged: ~11:30am
Depth of Well: 18.90'
Depth to Water: 8.57'
Column of Water: 10.33'
Amount to Purge: 5.17 gallons
Actual Purging Volume: 6 gallons

pH: 7.326.80
Temperature: 57.5°F
Specific Conductivity: NA μ mho

Sampling:

June 26, 2002 at ~9:10 am
Turbidity: 10.5 NTU
Sample was field filtered
Specific Conductivity: 768 μ mho

Monitoring Well #5

Purging:

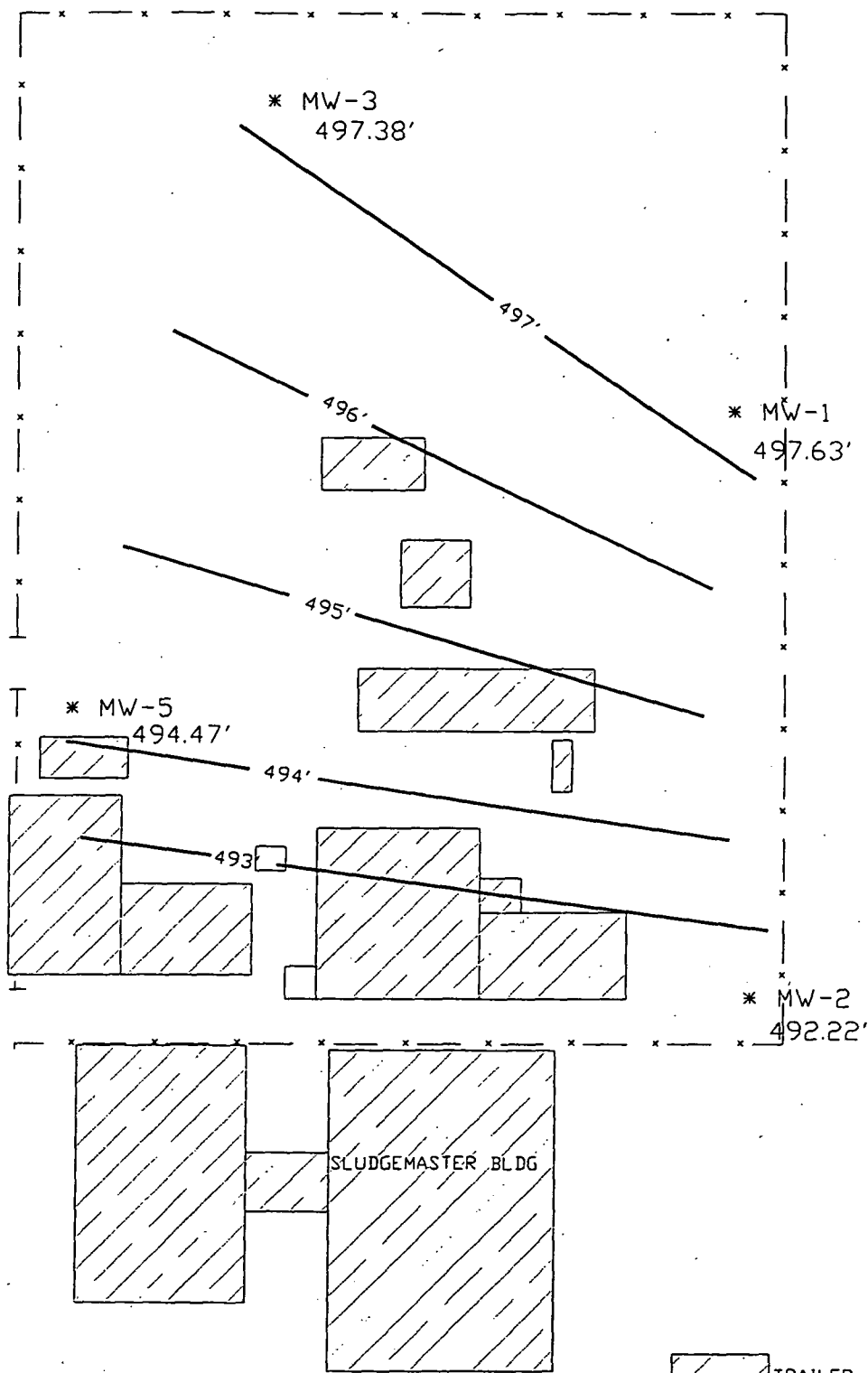
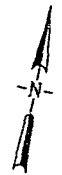
June 25, 2002
Time Purged: ~9:30 am
Depth of Well: 18.09'
Depth to Water: 7.51'
Column of Water: 10.58'
Amount to Purge: 5.29 gallons
Actual Purging Volume: 5.5 gallons

pH: 7.18
Temperature: 61.2°F
Specific Conductivity: NA μ mho

Sampling:

June 26, 2002 at ~8:40am
Turbidity: 12.3 NTU
Sample was field filtered
Specific Conductivity: 978 μ mho

SCHMIDT ROAD



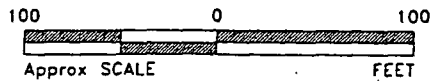
Groundwater Table 6/25/02

DRAWN BY: JEM	DATE: 9/1/00	REVISED:	REVISED:
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RV HOPKINS, INC

PRESTON ENGINEERING, INC.
CONSULTING ENVIRONMENTAL ENGINEERS

DRAWING NUMBER GWTable.dwg



ANALYTICAL AND QUALITY CONTROL REPORT

Jaci Moore
PRESTON ENGINEERING, INC.
Environmental Consultants
4436 N. Brady Street
Davenport, IA 52806

07/22/2002 Amended Report
Job Number: 02.07734

Enclosed is the Analytical and Quality Control reports for the following samples submitted to the Cedar Falls Division of TestAmerica, Inc. for analysis.

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date Taken</u>	<u>Date Received</u>
682739	MW5	06/26/2002	06/27/2002
682740	MW2	06/26/2002	06/27/2002
682741	MW1	06/26/2002	06/27/2002
682742	MW3	06/26/2002	06/27/2002
682743	Duplicate	06/26/2002	06/27/2002

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.

Kristin Clay
Project Manager

ANALYTICAL REPORT

Jaci Moore
 PRESTON ENGINEERING, INC.
 Environmental Consultants
 4436 N. Brady Street
 Davenport, IA 52806

07/22/2002

TestAmerica Job Number: 02.07734

Client Project ID: RV Hoplins 6-26-02

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Referen
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SAMPLE NO. 682739 SAMPLE DESCRIPTION MW5

DATE-TIME TAKEN
06/26/2002 08:40

Dissolved ICP Metals	COMPLETE					07/06/2002	heh		1181	
Barium, Diss (ICP) WT	0.241		mg/L	0.0011	0.0039	07/06/2002	heh		4610	SW 6010B
Chromium, diss (ICP) WT	<0.0032		mg/L	0.0032	0.0115	07/06/2002	heh		4629	SW 6010B
Silver, diss (ICP) WT	<0.0015		mg/L	0.0015	0.0054	07/06/2002	heh		4628	SW 6010B.
Arsenic, diss. GFAA WT	0.0053		mg/L	0.00021	0.00074	07/03/2002	llw		18	EPA 206.2
Cadmium, diss (GFAA) WT	<0.00014		mg/L	0.00014	0.00049	07/01/2002	lmc		11	EPA 213.2
Lead, diss GFAA WT	0.0010		mg/L	0.00053	0.00187	07/02/2002	llw		13	EPA 239.2
Mercury, diss WT	0.046		ug/L	0.012	0.041	07/08/2002	lmc		754	EPA 245.1
Selenium, diss GFAA WT	<0.00073		mg/L	0.00073	0.00261	07/08/2002	llw		13	EPA 270.2

SAMPLE NO. 682740 SAMPLE DESCRIPTION MW2

DATE-TIME TAKEN
06/26/2002 09:10

Dissolved ICP Metals	COMPLETE					07/06/2002	heh		1181	
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ANALYTICAL REPORT

Jaci Moore
 PRESTON ENGINEERING, INC.
 Environmental Consultants
 4436 N. Brady Street
 Davenport, IA 52806

07/22/2002 Amended Report

TestAmerica Job Number: 02.07734

Client Project ID: RV Hoplins 6-26-02

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Referen
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SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
682739	MW5	06/26/2002 08:40

Dissolved ICP Metals	COMPLETE					07/06/2002	heh		1181	
Barium, Diss (ICP) WT	0.241		mg/L	0.0011	0.0039	07/06/2002	heh		4610	SW 6010B
Chromium, diss (ICP) WT	<0.0032		mg/L	0.0032	0.0115	07/06/2002	heh		4629	SW 6010B
Silver, diss (ICP) WT	<0.0015		mg/L	0.0015	0.0054	07/06/2002	heh		4628	SW 6010B
Arsenic, diss. GFAA WT	0.0053		mg/L	0.00021	0.00074	07/03/2002	llw		18	EPA 206.2
Cadmium, diss (GFAA) WT	<0.00014		mg/L	0.00014	0.00049	07/01/2002	lmc		11	EPA 213.2
Lead, diss GFAA WT	0.0010		mg/L	0.00053	0.00187	07/02/2002	llw		13	EPA 239.2
Mercury, diss WT	0.046		ug/L	0.012	0.041	07/08/2002	lmc		754	EPA 245.1
Selenium, diss GFAA WT	<0.00073		mg/L	0.00073	0.00261	07/08/2002	llw		13	EPA 270.2

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
682740	MW2	06/26/2002 09:10

Dissolved ICP Metals	COMPLETE					07/06/2002	heh		1181	
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ANALYTICAL REPORT

Jaci Moore
 PRESTON ENGINEERING, INC.
 Environmental Consultants
 4436 N. Brady Street
 Davenport, IA 52806

07/22/2002

TestAmerica Job Number: 02.07734

Client Project ID: RV Hoplins 6-26-02

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep	Run	Method Referen
								Batch No.	Batch No.	
SAMPLE NO.			SAMPLE DESCRIPTION			DATE-TIME TAKEN				
682740			MW2			06/26/2002 09:10				
Barium, Diss (ICP) WT	0.204		mg/L	0.0011	0.0039	07/06/2002	heh		4610	SW 6010B
Chromium, diss (ICP) WT	<0.0032		mg/L	0.0032	0.0115	07/06/2002	heh		4629	SW 6010B
Silver, diss (ICP) WT	<0.0015		mg/L	0.0015	0.0054	07/06/2002	heh		4628	SW 6010B
Arsenic, diss. GFAA WT	0.0046		mg/L	0.00021	0.00074	07/03/2002	llw		18	EPA 206.2
Cadmium, diss (GFAA) WT	<0.00014		mg/L	0.00014	0.00049	07/01/2002	lmc		11	EPA 213.2
Lead, diss GFAA WT	<0.00053		mg/L	0.00053	0.00187	07/02/2002	llw		13	EPA 239.2
Mercury, diss WT	0.046		ug/L	0.012	0.041	07/08/2002	lmc		754	EPA 245.1
Selenium, diss GFAA WT	<0.00073	N,S	mg/L	0.00073	0.00261	07/08/2002	llw		13	EPA 270.2

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
682741	MW1	06/26/2002 09:00
Dissolved ICP Metals	COMPLETE	07/06/2002 heh 1181
Barium, Diss (ICP) WT	0.254 mg/L	0.0011 0.0039 07/06/2002 heh 4610 SW 6010B

N - Spike recovery for this analyte is out of control
 S - Reported value determined by the method of standard additions

ANALYTICAL REPORT

Jaci Moore
 PRESTON ENGINEERING, INC.
 Environmental Consultants
 4436 N. Brady Street
 Davenport, IA 52806

07/22/2002

TestAmerica Job Number: 02.07734

Client Project ID: RV Hoplins 6-26-02

Analyte	Result	Flag	Units	MDL	LOQ	Date	Analyst	Prep	Run	Method Referen
						Analyzed	Initials	Batch	Batch	
						No.	No.	No.	No.	
SAMPLE NO.			SAMPLE DESCRIPTION			DATE-TIME TAKEN				
682741			MW1			06/26/2002 09:00				
Chromium, diss (ICP) WT	<0.0032		mg/L	0.0032	0.0115	07/06/2002	heh		4629	SW 6010B
Silver, diss (ICP) WT	<0.0015		mg/L	0.0015	0.0054	07/06/2002	heh		4628	SW 6010B
Arsenic, diss. GFAA WT	0.0049		mg/L	0.00021	0.00074	07/03/2002	llw		18	EPA 206.2
Cadmium, diss (GFAA) WT	<0.00014		mg/L	0.00014	0.00049	07/01/2002	lmc		11	EPA 213.2
Lead, diss GFAA WT	<0.00053		mg/L	0.00053	0.00187	07/02/2002	llw		13	EPA 239.2
Mercury, diss WT	0.045		ug/L	0.012	0.041	07/08/2002	lmc		754	EPA 245.1
Selenium, diss GFAA WT	<0.00073		mg/L	0.00073	0.00261	07/08/2002	llw		13	EPA 270.2

SAMPLE NO.			SAMPLE DESCRIPTION			DATE-TIME TAKEN				
682742			MW3			06/26/2002				
Dissolved ICP Metals	COMPLETE					07/06/2002	heh		1181	
Barium, Diss (ICP) WT	0.231		mg/L	0.0011	0.0039	07/06/2002	heh		4610	SW 6010B
Chromium, diss (ICP) WT	<0.0032		mg/L	0.0032	0.0115	07/06/2002	heh		4629	SW 6010B

ANALYTICAL REPORT

Jaci Moore
 PRESTON ENGINEERING, INC.
 Environmental Consultants
 4436 N. Brady Street
 Davenport, IA 52806

07/22/2002

TestAmerica Job Number: 02.07734

Client Project ID: RV Hoplins 6-26-02

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Referen
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SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
682742	MW3	06/26/2002

Silver, diss (ICP) WT	<0.0015		mg/L	0.0015	0.0054	07/06/2002	heh		4628	SW 6010B
Arsenic, diss. GFAA WT	0.0050		mg/L	0.00021	0.00074	07/03/2002	llw		18	EPA 206.2
Cadmium, diss (GFAA) WT	<0.00014		mg/L	0.00014	0.00049	07/01/2002	lmc		11	EPA 213.2
Lead, diss GFAA WT	<0.00053		mg/L	0.00053	0.00187	07/02/2002	llw		13	EPA 239.2
Mercury, diss WT	0.040		ug/L	0.012	0.041	07/08/2002	lmc		754	EPA 245.1
Selenium, diss GFAA WT	<0.00073		mg/L	0.00073	0.00261	07/08/2002	llw		13	EPA 270.2

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
682743	Duplicate	06/26/2002

Dissolved ICP Metals	COMPLETE					07/06/2002	heh		1181	
Barium, Diss (ICP) WT	0.203		mg/L	0.0011	0.0039	07/06/2002	heh		4610	SW 6010B
Chromium, diss (ICP) WT	<0.0032		mg/L	0.0032	0.0115	07/06/2002	heh		4629	SW 6010B
Silver, diss (ICP) WT	<0.0015		mg/L	0.0015	0.0054	07/06/2002	heh		4628	SW 6010B

ANALYTICAL REPORT

Jaci Moore
 PRESTON ENGINEERING, INC.
 Environmental Consultants
 4436 N. Brady Street
 Davenport, IA 52806

07/22/2002

TestAmerica Job Number: 02.07734

Client Project ID: RV Hoplins 6-26-02

Analyte	Result	Flag	Units	MDL	LOQ	Date Analyzed	Analyst Initials	Prep	Run	Method Referen
								Batch No.	Batch No.	

SAMPLE NO.	SAMPLE DESCRIPTION	DATE-TIME TAKEN
682743	Duplicate	06/26/2002

Arsenic, diss. GFAA WT	0.0048	mg/L	0.00021	0.00074	07/03/2002	llw		18	EPA 206.2
Cadmium, diss (GFAA) WT	<0.00014	mg/L	0.00014	0.00049	07/01/2002	lmc		11	EPA 213.2
Lead, diss GFAA WT	<0.00053	mg/L	0.00053	0.00187	07/02/2002	llw		13	EPA 239.2
Mercury, diss WT	0.043	ug/L	0.012	0.041	07/08/2002	lmc		754	EPA 245.1
Selenium, diss GFAA WT	<0.00073	mg/L	0.00073	0.00261	07/08/2002	llw		13	EPA 270.2

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Jaci Moore
PRESTON ENGINEERING, INC.
Environmental Consultants
4436 N. Brady Street
Davenport, IA 52806

07/22/2002

Job Number: 02.07734

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	Units	CCV Conc Found	CCV % Rec	Date Flag Analyzed
Dissolved ICP Metals		1181			COMPLETE		07/06/2002
Barium, Diss (ICP) WT		4610	5.00	ppm	5.20	104	07/06/2002
Barium, Diss (ICP) WT		4610	5.00	ppm	4.97	99	07/06/2002
Barium, Diss (ICP) WT		4610	5.00	ppm	4.96	99	07/06/2002
Chromium, diss (ICP) WT		4629	5.00	ppm	5.04	101	07/06/2002
Chromium, diss (ICP) WT		4629	5.00	ppm	5.04	101	07/06/2002
Silver, diss (ICP) WT		4628	1.00	ppm	1.04	104	07/06/2002
Silver, diss (ICP) WT		4628	1.00	ppm	1.04	104	07/06/2002
Arsenic, diss. GFAA WT		18	0.0250	mg/L	0.0249	100	07/03/2002
Cadmium, diss (GFAA) WT		11	0.0010	mg/L	0.00097	97	07/01/2002
Cadmium, diss (GFAA) WT		11	0.0010	mg/L	0.00105	105	07/01/2002
Lead, diss GFAA WT		13	0.0250	mg/L	0.0260	104	07/02/2002
Mercury, diss WT		754	1.00	ppb	0.95	95	07/08/2002
Selenium, diss GFAA WT		13	0.0375	mg/L	0.0371	99	07/08/2002
Selenium, diss GFAA WT		13	0.0375	mg/L	0.0392	104	07/08/2002

QUALITY CONTROL REPORT BLANKS

Jaci Moore
 PRESTON ENGINEERING, INC.
 Environmental Consultants
 4436 N. Brady Street
 Davenport, IA 52806

07/22/2002

Page 8 of 14

TestAmerica Job Number: 02.07734

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	MDL	LOQ	Date Analyzed
Dissolved ICP Metals		1181	COMPLETE					07/06/2002
Barium, Diss (ICP) WT		4610	<0.0011		mg/L	0.0011	0.0039	07/06/2002
Chromium, diss (ICP) WT		4629	<0.0032		mg/L	0.0032	0.0115	07/06/2002
Silver, diss (ICP) WT		4628	<0.0015		mg/L	0.0015	0.0054	07/06/2002
Arsenic, diss. GFAA WT		18	<0.00021		mg/L	0.00021	0.00074	07/03/2002
Cadmium, diss (GFAA) WT		11	<0.00014		mg/L	0.00014	0.00049	07/01/2002
Lead, diss GFAA WT		13	<0.00053		mg/L	0.00053	0.00187	07/02/2002
Mercury, diss WT		754	<0.012		ug/L	0.012	0.041	07/08/2002
Selenium, diss GFAA WT		13	<0.00073		mg/L	0.00073	0.00261	07/08/2002

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Jaci Moore
PRESTON ENGINEERING, INC.
Environmental Consultants
4436 N. Brady Street
Davenport, IA 52806

07/22/2002

Job Number: 02.07734

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	Units	LCS Conc Found	LCS % Rec.	Flag	Date Analyzed
Mercury, diss WT		754	1.667	ug/L	1.65	99		07/08/2002

QUALITY CONTROL REPORT MATRIX SPIKE

Jaci Moore
 PRESTON ENGINEERING, INC.
 Environmental Consultants
 4436 N. Brady Street
 Davenport, IA 52806

07/22/2002

Job Number: 02.07734

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Units	Sample Result	Conc. MS Result	MS # Rec.	Flag	Date Analyzed
Dissolved ICP Metals		1181			COMPLETE	COMPLETE			07/06/2002
Barium, Diss (ICP) WT		4610	0.96	mg/L	0.164	1.13	101		07/06/2002
Chromium, diss (ICP) WT		4629	0.96	mg/L	<0.0032	0.99	103		07/06/2002
Silver, diss (ICP) WT		4628	0.98	mg/L	<0.0015	0.88	90		07/06/2002
Arsenic, diss. GFAA WT		18	0.0227	mg/L	0.0046	0.0294	109		07/03/2002
Cadmium, diss (GFAA) WT		11	0.00119	mg/L	<0.00014	0.00100	84		07/01/2002
Lead, diss GFAA WT		13	0.0227	mg/L	<0.00053	0.0218	96		07/02/2002
Selenium, diss GFAA WT		13	0.0238	mg/L	<0.00073	0.0177	74	N,S	07/08/2002

N - Spike recovery for this analyte is out of control
 S - Reported value determined by the method of standard additions

QUALITY CONTROL REPORT DUPLICATES

Jaci Moore
 PRESTON ENGINEERING, INC.
 Environmental Consultants
 4436 N. Brady Street
 Davenport, IA 52806

07/22/2002

Job Number: 02.07734

Analyte	Prep Batch No.	Run Batch No.	Sample Result	Duplicate Sample Result	Units	RPD	Flag	Date Analyzed
Dissolved ICP Metals		1181	COMPLETE					07/06/2002
Barium, Diss (ICP) WT		4610	0.166	0.164	mg/L	1.2		07/06/2002
Chromium, diss (ICP) WT		4629	<0.0032	<0.0032	mg/L			07/06/2002
Silver, diss (ICP) WT		4628	<0.0015	<0.0015	mg/L			07/06/2002
Arsenic, diss. GFAA WT		18	0.0053	0.0056	mg/L	5.5		07/03/2002
Cadmium, diss (GFAA) WT		11	<0.00014	<0.00014	mg/L			07/01/2002
Lead, diss GFAA WT		13	0.0010	0.0012	mg/L	18.2		07/02/2002
Selenium, diss GFAA WT		13	<0.00073	<0.00073	mg/L			07/08/2002

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

PRESTON ENGINEERING, INC.
Environmental Consultants
4436 N. Brady Street
Davenport, IA 52806
Jaci Moore

07/22/2002

Job Number: 02.07734

Analyte	Prep	Run	Matrix	Sample	Spike	Percent	MSD	MSD		Percent	MS/MSD	
	Batch	Batch	Spike					Spike	Units			Recovery
Mercury, diss WT		754	1.85	0.737	1.667	ug/L	66.8	1.86	1.667	ug/L	67.4	0.5

NOTE: Matrix Spike Samples may not be samples from this job.

RPD = Relative Percent Difference

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

07/22/2002

Jaci Moore
PRESTON ENGINEERING, INC.
Environmental Consultants
4436 N. Brady Street
Davenport, IA 52806

Job No: 02.07734

Analyte	Prep Batch Number	Run Batch Number	LCS Amount	Units	LCS Result	LCSD Result	LCS Percent Recovery	LCSD Percent Recovery	Control Limits	Relative Percent Difference
Mercury, diss WT		754	1.667	ug/L	1.65		99.0		.80 - 120	

TestAmerica Job Number: 02.07734

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

For questions regarding this report, please contact the individual who signed the analytical report.

Sample Receipt and Temperature Log Form

Client: Preston ENG. Project: _____

City: ACCSC

Date: 6-27-02 Receiver's Initials CH Time (if Applicable): _____

Temperature Record

Cooler #1: 4° C / On Ice
 Temp. Blank

Cooler #2: _____ ° C / On Ice
 Temp. Blank

Cooler #3: _____ ° C / On Ice
 Temp. Blank

Cooler #4: _____ ° C / On Ice
 Temp. Blank

Couriers

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input checked="" type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svs
<input type="checkbox"/> FedEx	<input type="checkbox"/> Client
<input type="checkbox"/> DHL	<input type="checkbox"/> Other
<input type="checkbox"/> US Postal	<input type="checkbox"/> Other

Thermometer:

IR-905085 CF07-03-T1
 IR-809065 CF07-03-T2

<input type="checkbox"/>	Samples Not Received in a Cooler
<input type="checkbox"/>	Temperature Not Taken
<input type="checkbox"/>	Samples Received Within 6 hrs of sampling

COC Completed Correctly? Yes No
(Cite inconsistencies below)

Custody Seals Intact? Yes No
(If Applicable)

Cooler Checklist (Check indicates conformance failure)

	Received Broken		Improper Container		Temperature*
	Improperly Preserved		Missing Sample		Extra Sample
	Missing Label		Sample Past Hold Date		Improper Label
	Insufficient Sample Volume		Other:		

Client Sample IDs: _____ Remarks/Action Taken: _____
 Initial/Date: _____

Log-In By:
 NF MF EM
 OT _____

*Refer to SOP CF01-01 for Temperature Criteria

