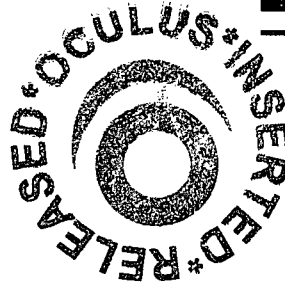




September 6, 1995

Philip A. Barbaccia
Environmental Administrator
Department of Environmental Protection
2295 Victoria Avenue, Suite 364
Fort Myers, Florida 33901



3040 William Pitt Way
Pittsburgh, PA 15238
(412) 826-3340
FAX (412) 826-3409

**Re: Robbins Manufacturing Company, Ft. Myers: Groundwater Monitoring
Summary for Samples Collected on March 1, 1995**

Dear Mr Barbaccia:

This letter contains the results of groundwater monitoring from four monitoring wells (MW-2, MW-3, MW-5A and MW-8A) located at the Robbins Manufacturing Company (Robbins), Ft. Myers, Florida wood treating facility. Groundwater levels were measured from all 14 wells. The analytical program for the March, 1995 sample collection event consisted of arsenic and chromium. Remediation Technologies, Inc. (RETEC) has prepared this report for Robbins. The laboratory analytical reports are attached to this letter. Changes to the program for 1995 were listed in the bi-monthly report for the January, 1995 sampling event.

Pumping Rates

The following pumping rates were recorded for each of the pumping wells:

- MW-2 1 gal./28 sec. or 2.14 gal./min.
- MW-5A 1 gal./2 min., 24 sec. or 0.42 gal./min.
- MW-8A 1 gal./40 sec. or 1.5 gal./min.

RECEIVED
SEP 07 1995
D.E.P. South District

Groundwater Levels

Groundwater levels were measured in 14 monitoring wells, 11 from the shallow aquifer and three from the deep aquifer. Table 1 shows the calculated groundwater elevations. Robbins reported that 1.15 inches of rain fell during the month of February. No rainfall was recorded for the eight days prior to sample collection. The ditch located along the north side of the site had 6 inches of





Philip A. Barbaccia
September 6, 1995
Page 2

standing water. No water was observed in the ditch adjacent to monitoring well MW-5A. Additionally, the salvage yard located south of the Robbins plant removed brush from the south fence line. This action has disturbed the topsoil at this location.

Groundwater Quality

The monitoring wells sampled on March 1, 1995 were MW-2, MW-3, MW-5A and MW-8A. Table 2 shows the results of analyses for the four wells. Arsenic was detected in all four wells at levels that ranged from a low of 22 $\mu\text{g/L}$ at MW-2 to a high of 790 $\mu\text{g/L}$ at MW-8A. Arsenic levels increased from January levels in MW-2, MW-3, and MW-8A. In well MW-5A, the arsenic level decreased from January levels. No chromium was detected in these four wells in March.

If you have any questions concerning any of the data presented in this letter, please do not hesitate to call me at (412) 826-3340 or Mike Provenza at Robbins.

Very truly yours,

Al Quagliotti / psb
John A. Quagliotti, Jr.
Senior Project Hydrogeologist

Pamela S. Billman
Pamela S. Billman
Project Geologist

pb:JAQ/PSB

Attachment

cc: Michael E. Provenza - Robbins Manufacturing Company
Greg Hays - Robbins Manufacturing Company
File: 3-2084-000

TABLE 1
GROUNDWATER ELEVATIONS
MARCH 1, 1995
ROBBINS MANUFACTURING COMPANY
FORT MYERS, FLORIDA

Well	TOC Elevation (ft. above MSL)	Depth to Water (ft. below TOC)	Groundwater Elevation (ft. above MSL)
MW-2	19.31	9.58	9.73
MW-3	20.16	6.25	13.91
MW-4	20.29	6.33	13.96
MW-5A	19.86	10.67	9.19
MW-5B	19.60	5.83	13.77
MW-6	19.70	6.08	13.62
MW-8A	19.17	10.58	8.59
MW-8B	18.09	3.67	14.42
MW-9	19.36	5.33	14.03
MW-11A	18.99	5.42	13.57
MW-11B	19.18	5.67	13.51
MW-12	20.36	7.42	12.94
MW-13	19.98	6.83	13.15
MW-14	21.37	8.17	13.20

Notes:

TOC Top of casing
MSL Mean sea level

TABLE 2
ARSENIC AND CHROMIUM CONCENTRATIONS
MARCH 1, 1995
ROBBINS MANUFACTURING COMPANY
FORT MYERS, FLORIDA

Well	Arsenic (ug/L)	Chromium (mg/L)
MW-2	22	BDL (0.05)
MW-3	130	BDL (0.05)
MW-5A	92	BDL (0.05)
MW-8A	790	BDL (0.05)

Notes:
BDL Below detection limits. The associated value is the detection limit.



REPORT OF LABORATORY ANALYSIS

March 08, 1995

Mr. Michael Provenza
Robbins Manufacturing Company
P.O. Box 17937
Tampa, FL 33682-7939

RE: PACE Project No. 250228.573
Client Reference: MAR '95

Dear Mr. Provenza:

Enclosed is the report of laboratory analyses for samples received March 02, 1995.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script that reads "Rhonda M. Rasmussen".

Rhonda M. Rasmussen
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

Robbins Manufacturing Company
P.O. Box 17937
Tampa, FL 33682-7939

March 08, 1995
PACE Project Number: 250228573

Attn: Mr. Michael Provenza

Client Reference: MAR '95

PACE Sample Number: 90 0585454
Date Collected: 03/01/95
Date Received: 03/02/95
Client Sample ID: MW-2

Parameter Units PRI DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Arsenic EPA 206.2	ug/L	10	22	03/07/95
Chromium ICP	mg/L	0.05	ND	03/05/95

PACE Sample Number: 90 0585462
Date Collected: 03/01/95
Date Received: 03/02/95
Client Sample ID: MW-3

Parameter Units PRI DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Arsenic EPA 206.2	ug/L	10	130	03/07/95
Chromium ICP	mg/L	0.05	ND	03/05/95



REPORT OF LABORATORY ANALYSIS

Mr. Michael Provenza
Page 2

March 08, 1995
PACE Project Number: 250228573

Client Reference: MAR '95

PACE Sample Number: 90 0585470
Date Collected: 03/01/95
Date Received: 03/02/95
Client Sample ID: MW-5A

Parameter Units PRI DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Arsenic EPA 206.2	ug/L	10	92	03/07/95
Chromium ICP	mg/L	0.05	ND	03/05/95

PACE Sample Number: 90 0585489
Date Collected: 03/01/95
Date Received: 03/02/95
Client Sample ID: MW-8A

Parameter Units PRI DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Arsenic EPA 206.2	ug/L	10	790	03/07/95
Chromium ICP	mg/L	0.05	ND	03/05/95

These data have been reviewed and are approved for release.

Michael F. Valder
Manager, Inorganic Chemistry



REPORT OF LABORATORY ANALYSIS

Mr. Michael Provenza
Page 3

FOOTNOTES
for pages 1 through 2

March 08, 1995
PACE Project Number: 250228573

Client Reference: MAR '95

ND Not detected at or above the PRL.
PRL PACE Reporting Limit



REPORT OF LABORATORY ANALYSIS

Mr. Michael Provenza
Page 4

QUALITY CONTROL DATA

March 08, 1995
PACE Project Number: 250228573

Client Reference: MAR '95

Arsenic EPA 206.2
Batch: 90 59029
Samples: 90 0585454, 90 0585462, 90 0585470, 90 0585489

METHOD BLANK:

Parameter	Units	PRI	Method Blank
Arsenic EPA 206.2	ug/L	10	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRI	900585462 MW-3	Spike	Spike Recv	Spike Dupl Recv	RPD
Arsenic EPA 206.2	ug/L	10	130	40	95%	83%	13%

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRI	Reference Value	Recv
Arsenic EPA 206.2	ug/L	10	40	100%



REPORT OF LABORATORY ANALYSIS

Mr. Michael Provenza
Page 5

QUALITY CONTROL DATA

March 08, 1995
PACE Project Number: 250228573

Client Reference: MAR '95

Chromium ICP
Batch: 90 58999
Samples: 90 0585454, 90 0585462, 90 0585470, 90 0585489

METHOD BLANK:

Parameter	Units	PRL	Method Blank
Barium ICP	mg/L	0.3	ND
Cadmium ICP	mg/L	0.005	ND
Chromium ICP	mg/L	0.05	ND
Silver ICP	mg/L	0.02	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	900585454		Spike		RPD
			MW-2	Spike	Recv	Dupl Recv	
Barium ICP	mg/L	0.3	ND	0.6	103%	103%	0%
Cadmium ICP	mg/L	0.005	ND	0.6	93%	92%	1%
Chromium ICP	mg/L	0.05	ND	0.6	93%	93%	0%
Silver ICP	mg/L	0.02	ND	0.6	97%	97%	0%

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference	
			Value	Recv
Barium ICP	mg/L	0.3	1	92%
Cadmium ICP	mg/L	0.005	1	83%
Chromium ICP	mg/L	0.05	1	88%
Silver ICP	mg/L	0.02	1	91%



REPORT OF LABORATORY ANALYSIS

Mr. Michael Provenza
Page 6

FOOTNOTES
for pages 4 through 5

March 08, 1995
PACE Project Number: 250228573

Client Reference: MAR '95

ND Not detected at or above the PRL.
PRL PACE Reporting Limit
RPD Relative Percent Difference



330825.107

217240

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Robbins Manu
Address _____
Phone _____

Report To: M. KC. PROVENZA
Bill To: _____
P.O. # / Billing Reference _____
Project Name / No. M.M.C. '95

Pace Client No. 923004
Pace Project Manager KMK
Pace Project No. 50 sub. 59
*Requested Due Date: _____

Sampled By (PRINT): _____
Sampler Signature _____ Date Sampled 3/11/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST	REMARKS	
						UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA			
1	MW 2	14.1			1					✓✓	58545.4	
2	MW 3	14.3			1					✓✓	58546.2	
3	MW 5A	14.1			1					✓✓	58547.0	
4	MW 8A	14.1			1					✓✓	58548.9	
5												
6												
7												
8												

COOLER NOS.	BAILERS	SHIPMENT METHOD	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
			1-4	Jackie Gade M.M.C.	M.K.C. Provenza	3-11-95	1500

SEE REVERSE SIDE FOR INSTRUCTIONS