MONTGOMERY WATSON

February 13, 2001

EPA Region 5 Records Ctr.
370023

Mr. Kevin Adler, RPM
Mail Code SR-J6
U.S. Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, IL 60604-3590

Re: September 2000 Residential Sampling Event Results
American Chemical Service NPL Site, Griffith, Indiana

Dear Kevin:

As you know, we supplied the data tables for the September 2000 residential sampling with the December 2000 Monthly Status Report. Subsequently at our meeting on January 25th, you requested clarification of several data validation markings on tabulated data. During our review, we discover an error in the table and have made corrections. The table we originally sent incorrectly stated that the "B" flags associated with the detections of thallium indicated that the compound was detected in the blank. However, "B" flags, when assigned for inorganic detections, indicate that the compound was detected at concentrations less than the Contract Required Detection Limit, but above the Instrument Detection Limit. The result is therefore considered an estimated concentration. We apologize for any confusion in this matter. The revised table along with backup laboratory sheets is attached to this letter.

We have also noted your request to supply the analytical results of the residential well sampling as soon as possible after we receive results from the laboratory. This will be done for all future residential well sampling events. Please do not hesitate to call if I can answer further questions or provide additional information.

Sincerely,

MONTGOMERY WATSON

Peter J. Vagt, Ph.D., CPG
Vice President

Cc: Sean Grady
Barbara Magel

Attachments: Table 11
Inorganic Laboratory Analytical Results for Residential Wells
Comparison of Current Results to Baseline Detections

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60555

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Table 11
Comparison of Private Well Detections to Maximum Contaminant Levels (MCLs) - September 2000
American Chemical Services NPL Site
Griffith, Indiana

	Sample Location and Concentration (ug/L)						
Analyte	PW-A	PW-B	PW-C	PW-D	PW-Y	MCL (ug/L)	Approx det. limit
Aluminum	--	--	--	--	--	NA	34.9
Antimony	--	2.6 B/	--	--	--	6	1.9
Arsenic	--	--	--	--	--	50	3.4
Barium	130 B/	123 B/	167 B/	150 B/	144 B/	2,000	
Beryllium	--	--	--	--	--	4	0.1
Cadmium	--	--	--	--	--	5	0.3
Calcium	87,300	88,700	92,900	95,000	86,100	NA	
Chromium	0.78 B/	0.51 B/	0.71 B/	1.5 B/	--	100	0.5
Cobalt	--	--	--	--	--	NA	0.5
Copper	2.3 B/	2.1 B/	1.8 B/	4 B/	1.8 B/	1,300	
Cyanide	--	--	--	--	--	200	
Iron	2,060	3,290	2,830	2,400	4,710	NA	
Lead	--	--	--	--	--	15	2.0
Magnesium	44,400	40,800	52,200	47,600	45,100	NA	
Manganese	35.4	60.3	35.2	36.3	42.9	NA	
Mercury	--	--	--	--	--	2	0.10
Nickel	--		--	--	--	NA	1.0
Potassium	2,340 BE/	1,660 BE/	2,620 BE/	2,400 BE/	2,520 BE/	NA	
Selenium	--	--	--	--	--	50	5.0
Silver	--	--	--	--	--	NA	0.6
Sodium	18,200	16,500	32,200	20,900	23,200	NA	
Thallium	--	**5.2 B/**	--	--	**5.4 B/**	2	4.9
Vanadium	--	--	--	--	--	NA	0.5
Zinc	11.1 B/	18 B/	16.7 B/	1.4 B/	25.8	NA	

Notes:

ug/L = micrograms per liter
-- = Analyte not detected
NA = MCL does not exist for this analyte
B = Compound was detected but at concentrations below the Contract Required Detection Limit. It is considered an estimated concentration.
E = Concentration is estimated due to chemical or physical interference effect during analysis.
Boxed and shaded cells indicate exceedance of MCL

EPA-CLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWPWA-14

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Y1201

Matrix (soil/water): WATER Lab Sample ID: Y1201-2

Level (low/med): LOW Date Received: 09/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.9	U		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	130	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	87300			P
7440-47-3	Chromium	0.78	B		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	2.3	B		P
7439-89-6	Iron	2060			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	44400			P
7439-96-5	Manganese	35.4			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	2340	B	E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	18200			P
7440-28-0	Thallium	4.9	U		P
7440-62-2	Vanadium	0.50	U		P
7440-66-6	Zinc	11.1	B		P
	Cyanide	0.80	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA-CLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWMWB-14

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: Y1201

Matrix (soil/water): WATER Lab Sample ID: Y1201-3

Level (low/med): LOW Date Received: 09/23/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.9	U		P
7440-36-0	Antimony	2.6	B		P
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	123	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	88700			P
7440-47-3	Chromium	0.51	B		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	2.1	B		P
7439-89-6	Iron	3290			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	40800			P
7439-96-5	Manganese	60.3			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	1660	B	E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	16500			P
7440-28-0	Thallium	5.2	B		P
7440-62-2	Vanadium	0.50	U		P
7440-66-6	Zinc	18.0	B		P
	Cyanide	0.80	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

EPA-CLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWPWC-14

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: Y1201

Matrix (soil/water): WATER Lab Sample ID: Y1201-4

Level (low/med): LOW Date Received: 09/23/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.9	U		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	167	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	92900			P
7440-47-3	Chromium	0.71	B		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	1.8	B		P
7439-89-6	Iron	2830			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	52200			P
7439-96-5	Manganese	35.2			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	2620	B	E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	23200			P
7440-28-0	Thallium	4.9	U		P
7440-62-2	Vanadium	0.50	U		P
7440-66-6	Zinc	16.7	B		P
	Cyanide	0.80	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

EPA-CLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWPWC-94

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: Y1201

Matrix (soil/water): WATER Lab Sample ID: Y1201-5

Level (low/med): LOW Date Received: 09/23/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.9	U		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	164	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	90100			P
7440-47-3	Chromium	0.50	U		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	2640			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	50800			P
7439-96-5	Manganese	33.9			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	2540	B	E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	22600			P
7440-28-0	Thallium	4.9	U		P
7440-62-2	Vanadium	0.50	U		P
7440-66-6	Zinc	17.8	B		P
	Cyanide	0.80	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

EPA-CLP METALS

I

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWPWD14

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: Y1201

Matrix (soil/water): WATER Lab Sample ID: Y1201-6

Level (low/med): LOW Date Received: 09/28/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.9	U		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	150	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	95000			P
7440-47-3	Chromium	1.5	B		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	4.0	B		P
7439-89-6	Iron	2400			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	47600			P
7439-96-5	Manganese	36.3			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	2400	B	E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	20900			P
7440-28-0	Thallium	4.9	U		P
7440-62-2	Vanadium	0.50	U		P
7440-66-6	Zinc	1.4	B		P
	Cyanide	0.80	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA-CLP METALS

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSGWPWY-14

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: Y1201

Matrix (soil/water): WATER Lab Sample ID: Y1201-1

Level (low/med): LOW Date Received: 09/21/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.9	U		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	3.4	U		P
7440-39-3	Barium	144	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	86100			P
7440-47-3	Chromium	0.50	U		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	1.8	B		P
7439-89-6	Iron	4710			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	45100			P
7439-96-5	Manganese	42.9			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	2520	B	E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	23200			P
7440-28-0	Thallium	5.4	B		P
7440-62-2	Vanadium	0.50	U		P
7440-66-6	Zinc	25.8			P
	Cyanide	0.80	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

Comparison of Current Results to Baseline Detections
September 2000
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
PW-A	Aluminum	UG/L	11		U		34.9
PW-A	Antimony	UG/L	1.0		U		1.9
PW-A	Arsenic	UG/L	2.0		U		3.4
PW-A	Barium	UG/L	119	**130**	B		200
PW-A	Beryllium	UG/L	1.0		U		0.1
PW-A	Cadmium	UG/L	1.0		U		0.3
PW-A	Calcium	UG/L	93,400	87,300			5,000
PW-A	Chromium (Total)	UG/L	1.0	0.78	B		10
PW-A	Cobalt	UG/L	1.0		U		0.5
PW-A	Copper	UG/L	4.8	2.3	B		25
PW-A	Cyanide (Total)	UG/L	10		U		0.8
PW-A	Iron	UG/L	2,870	2,060			100
PW-A	Lead	UG/L	1.0		U		2
PW-A	Magnesium	UG/L	43,500	**44,400**			5,000
PW-A	Manganese	UG/L	54	35.4			15
PW-A	Mercury	UG/L	0.20		U		0.1
PW-A	Nickel	UG/L	2.5		U		1
PW-A	Potassium	UG/L	1,860	**2,340**	BE		5,000
PW-A	Selenium	UG/L	2.0		U		5
PW-A	Silver	UG/L	1.0		U		0.6
PW-A	Sodium	UG/L	15,600	**18,200**			5,000
PW-A	Thallium	UG/L	3.0		U		4.9
PW-A	Vanadium	UG/L	1.0		U		0.5
PW-A	Zinc	UG/L	121	11.1	B		20
PW-B	Aluminum	UG/L	19		U		34.9
PW-B	Antimony	UG/L	1.0	**2.6**	B		60
PW-B	Arsenic	UG/L	2.0		U		3.4
PW-B	Barium	UG/L	121	**123**	B		200
PW-B	Beryllium	UG/L	1.0		U		0.1
PW-B	Cadmium	UG/L	1.0		U		0.3
PW-B	Calcium	UG/L	91,200	88,700			5,000
PW-B	Chromium (Total)	UG/L	1.0	0.51	B		10
PW-B	Cobalt	UG/L	1.0		U		0.5
PW-B	Copper	UG/L	2.3	2.1	B		25
PW-B	Cyanide (Total)	UG/L	10		U		0.8
PW-B	Iron	UG/L	2,170	**3,290**			100
PW-B	Lead	UG/L	1.0		U		2
PW-B	Magnesium	UG/L	42,700	40,800			5,000
PW-B	Manganese	UG/L	56	**60.3**			15
PW-B	Mercury	UG/L	0.20		U		0.1
PW-B	Nickel	UG/L	3.3		U		1
PW-B	Potassium	UG/L	1,760	1,660	BE		5,000
PW-B	Selenium	UG/L	2.0		U		5
PW-B	Silver	UG/L	1.0		U		0.6
PW-B	Sodium	UG/L	14,200	**16,500**			5,000

BOLD = Exceedance
NA = Not Applicable

CAS/cas
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2090603.030401

Comparison of Current Results to Baseline Detections
September 2000
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
PW-B	Thallium	UG/L	3.0	**5.2**	B		10
PW-B	Vanadium	UG/L	1.0		U		0.5
PW-B	Zinc	UG/L	9.6	**18**	B		20
PW-C	Aluminum	UG/L	25		U		34.9
PW-C	Antimony	UG/L	1.0		U		1.9
PW-C	Arsenic	UG/L	2.0		U		3.4
PW-C	Barium	UG/L	166	**167**	B		200
PW-C	Beryllium	UG/L	1.0		U		0.1
PW-C	Cadmium	UG/L	1.0		U		0.3
PW-C	Calcium	UG/L	93,200	92,900			5,000
PW-C	Chromium (Total)	UG/L	1.0	0.71	B		10
PW-C	Cobalt	UG/L	1.0		U		0.5
PW-C	Copper	UG/L	32	1.8	B		25
PW-C	Cyanide (Total)	UG/L	10		U		0.8
PW-C	Iron	UG/L	3,030	2,830			100
PW-C	Lead	UG/L	1.9		U		2
PW-C	Magnesium	UG/L	53,700	52,200			5,000
PW-C	Manganese	UG/L	35	35.2			15
PW-C	Mercury	UG/L	0.20		U		0.1
PW-C	Nickel	UG/L	1.0		U		1
PW-C	Potassium	UG/L	2,730	2,620	BE		5,000
PW-C	Selenium	UG/L	2.0		U		5
PW-C	Silver	UG/L	1.0		U		0.6
PW-C	Sodium	UG/L	23,300	23,200			5,000
PW-C	Thallium	UG/L	3.0		U		4.9
PW-C	Vanadium	UG/L	1.0		U		0.5
PW-C	Zinc	UG/L	79	16.7	B		20
PW-D	Aluminum	UG/L	125		U		34.9
PW-D	Antimony	UG/L	1.0		U		1.9
PW-D	Arsenic	UG/L	2.0		U		3.4
PW-D	Barium	UG/L	157	150	B		200
PW-D	Beryllium	UG/L	1.0		U		0.1
PW-D	Cadmium	UG/L	1.1		U		0.3
PW-D	Calcium	UG/L	96,800	95,000			5,000
PW-D	Chromium (Total)	UG/L	1.0	**1.5**	B		10
PW-D	Cobalt	UG/L	1.0		U		0.5
PW-D	Copper	UG/L	155	4	B		25
PW-D	Cyanide (Total)	UG/L	10		U		0.8
PW-D	Iron	UG/L	3,190	2,400			100
PW-D	Lead	UG/L	23		U		2
PW-D	Magnesium	UG/L	50,900	47,600			5,000
PW-D	Manganese	UG/L	48	36.3			15
PW-D	Mercury	UG/L	0.20		U		0.1
PW-D	Nickel	UG/L	4.3		U		1
PW-D	Potassium	UG/L	2,660	2,400	BE		5,000

BOLD = Exceedance
NA = Not Applicable

CAS/cas
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2090603.030401

Comparison of Current Results to Baseline Detections
September 2000
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	CurrentEvent			
				Result	LQ	DQ	Detect Limit
PW-D	Selenium	UG/L	2.0		U		5
PW-D	Silver	UG/L	1.0		U		0.6
PW-D	Sodium	UG/L	24,100	20,900			5,000
PW-D	Thallium	UG/L	3.0		U		4.9
PW-D	Vanadium	UG/L	1.0		U		0.5
PW-D	Zinc	UG/L	1,580	1.4	B		20
PW-Y	Aluminum	UG/L	10		U		34.9
PW-Y	Antimony	UG/L	1.0		U		1.9
PW-Y	Arsenic	UG/L	2.0		U		3.4
PW-Y	Barium	UG/L	132	**144**	B		200
PW-Y	Beryllium	UG/L	1.0		U		0.1
PW-Y	Cadmium	UG/L	1.0		U		0.3
PW-Y	Calcium	UG/L	81,750	**86,100**			5,000
PW-Y	Chromium (Total)	UG/L	2.4		U		0.5
PW-Y	Cobalt	UG/L	1.0		U		0.5
PW-Y	Copper	UG/L	2.0	1.8	B		25
PW-Y	Cyanide (Total)	UG/L	10		U		0.8
PW-Y	Iron	UG/L	2,550	**4,710**			100
PW-Y	Lead	UG/L	1.0		U		2
PW-Y	Magnesium	UG/L	43,100	**45,100**			5,000
PW-Y	Manganese	UG/L	29	**42.9**			15
PW-Y	Mercury	UG/L	0.20		U		0.1
PW-Y	Nickel	UG/L	3.4		U		1
PW-Y	Potassium	UG/L	2,765	2,520	BE		5,000
PW-Y	Selenium	UG/L	2.1		U		5
PW-Y	Silver	UG/L	1.0		U		0.6
PW-Y	Sodium	UG/L	23,300	23,200			5,000
PW-Y	Thallium	UG/L	2.3	**5.4**	B		10
PW-Y	Vanadium	UG/L	1.0		U		0.5
PW-Y	Zinc	UG/L	25	**25.8**			20

BOLD = Exceedance
NA = Not Applicable

CAS/cas
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