Nixon, Hargrave, Devans & Doyle

Attorneys and Counselors at Law

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November 27, 1985

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DEC

Manmohan Mehta
Sanitary Engineer
Division of Solid and Hazardous Waste
New York State Department of
Environmental Conservation
6274 East Lima Road
Avon, New York 14414

Dear Mr. Mehta:

Enclosed please find the third quarter analytical results from General Testing and Lozier Laboratories for Taylor Instrument monitoring wells. The letter prepared by Mark McClements of Taylor outlines the sampling protocol used by both labs for collecting and preparing the samples prior to analysis.

The most recent results cast serious doubts in our mind as to the validity of the test results of samples taken from well 0-0 in September 1984, December 1984, and March 1985. For the next quarter, we shall continue to send split samples to two independent testing laboratories.

If you require additional assistance in this matter, please do not hesitate to contact me.

Sincerely,

G. Robert Witmer, Jr.

G. Robert Witmer, Jr., P.C.

GRW:gk
Enclosure
cc: Mark McClements

Taylor Instrument
A Division of COMBUSTION ENGINEERING

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NOV 1985
SOLID WASTE
D.E.C. REG. #8

October 31, 1985

Mr. Larry Blue
Nixon, Hargrave, Devans & Doyle
Lincoln First Tower
Post Office Box 1051
Rochester, New York 14603

Dear Larry:

On October 1, 1985, the quarterly well water samples were collected at Taylor Instrument's Ames Street plant. A split sample for each site was sent to Lozier Laboratories and General Testing Corporation to be independently analyzed for mercury. The seven locations sampled were LY-1, LY-2, LY-3, LY-4, W-5, O-O, and D-O.

Each of the wells was purged the day before sampling. In addition, the following protocol was carefully followed to ensure accuracy of the results:

1. One large sample was collected for each location, shaken to mix, and transferred to clean plastic containers to be taken to each laboratory.

2. The samples were submitted to both laboratories on the same day.

3. Personnel at both laboratories were instructed to add nitric acid as a preservative to all sample bottles upon receipt, refrigerate the samples prior to analysis, not filter samples before analysis, follow the total mercury method. (EPA method number 245.1 - cold vapor analytical technique), and analyze the samples within the time period specified in the method.

The analytical results are shown in Table I. Duplicate determinations for each well were performed if sufficient sample were available. Intralaboratory duplicate determinations gave good precision. The correlation for interlaboratory results was also good. This is due, in part, to strict adherence to the sampling protocol.

Four of the seven samples showed levels of mercury below the detectability limit of the analytical method. As in the past, LY-4 had no sample in it after purging. LY-1 and O-O showed low, but detectable, concentrations. These two sites have historically shown detectable concentrations of mercury.

October 31, 1985

Mr. Larry Blue
Nixon, Hargrave, Devans & Doyle

If you have any questions about this project, please contact the writer at (716) 235-5000, extension 3607.

Sincerely yours,

Mark J. McClements

Mark J. McClements
Facilities Environmental Engineer

jw

c: Robert Halton
Kevin Hylton - Combustion Engineering

enclosure

MJM - 10/31/85

TABLE I

MERCURY RESULTS FOR QUARTERLY WELL WATER SAMPLES (ppb - parts per billion)

	GENERAL TESTING RESULTS		LOZIER RESULTS	
WELL SITE	SAMPLE #1	SAMPLE #2	SAMPLE #1	SAMPLE #2
LY-1	2.6	2.5	2.2	2.5
LY-2	<0.7	*	<0.5	*
LY-3	<0.5	*	<0.5	<0.5
LY-4	*	*	*	*
W-5	<0.5	<0.5	<0.5	<0.5
D-0	<0.5	<0.5	<0.5	<0.5
O-0	1.4	1.2	1.4	1.5

* = INSUFFICIENT SAMPLE

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NOV 1985

water and wastewater testing specialists

general testing corporation

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

LABORATORY REPORT

Job No. R51927 Date 10/16/85

Client

Mr. Mark McClements
Taylor Instruments
95 Ames Street
Rochester, NY 14611

Sample(s) Reference

Water Samples

Date Samples (X) received ( ) collected by General Testing 10/01/85

P.O. # _____

ANALYTICAL RESULTS

(mg/l unless stated otherwise)

Sample Description		
TAYLOR INSTRUMENTS	Mercury	Mercury Duplicates
Date(s)	10/1/85	
Time(s)	am	
LY1	0.0026	0.0025
LY2	<0.0007	-
LY3	<0.0005	-
LY4	*	
W-5	<0.0005	<0.0005
D-0	<0.0005	<0.0005
0-0	0.0014	0.0012

Received
10/21/85 MJM

* No sample received

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 15th Edition and Methods for Chemical Analysis of Water and Wastes, EPA. (<) indicates lowest detectable concentration with procedure used. Data on quality control performed with above sample(s) is available upon request.

Michael K. Perry
Laboratory Director

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street 85 Trinity Place
Rochester, NY 14608 Hackensack, NJ 07601

GTC Job No. 51927
Client Project No. _____

Sample Origination & Shipping Information

Collection Site TAYLOR INSTRUMENTS

Address _____
Street City State Zip

Collector LOZIER
Print Signature

Bottles Prepared by _____ Rec'd by _____
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:		Received by:		Date/Time
1.	Sign Mark J. McClements	1.	Sign	10/1/85
	for Taylor Instrument		for	10:45
2.	Sign 1045 a.m. 10/1/85	2.	Sign	/ /
	for		for	:
3.	Sign	3.	Sign	/ /
	for		for	:

Sample(s) Received in Laboratory by Linda P. Murphy 10/1/85 @ 10:45

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)	Rec at G
1		LY1	W	Hg					6	
		10/1/85 : AM								
2		LY2		Hg					6	
		10/1/85 : AM								
3		LY3		Hg					6	
		10/1/85 : AM								
4		LY4		NO SAMPLE					6	
		10/1/85 : AM								
5		W-5		Hg					6	
		10/1/85 : AM								

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each						1					

Additional Analytes _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H)
River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street Rochester, NY 14608
85 Trinity Place Hackensack, NJ 07601

GTC Job No. 51927
Client Project No. _____

Sample Origination & Shipping Information

Collection Site TAYLOR INSTRUMENTS

Address _____ (Street / City / State / Zip)

Collector LOZIER (Print / Signature)

Bottles Prepared by _____ Rec'd by _____

Bottles Shipped to Client via _____ Seal/Shipping # _____

Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:	Received by:	Date/Time
1. Sign Mark J. McClements	1. Sign	/ /
for Taylor Instrument	for	:
2. Sign 10:45 a.m. 10/1/85	2. Sign	/ /
for	for	:
3. Sign	3. Sign	/ /
for	for	:

Sample(s) Received in Laboratory by Kathy P. Murphy 10/1/85 @ 10:4[illegible]

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)	Rec at G
1		D-Ø 10/1/85 : AM	W	Hg					6	
2		Ø-Ø 10/1/85 : AM	W	Hg					6	
3		/ / :								
4		/ / :								
5		/ / :								

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each						1					

Additional Analytes _____

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

JOB SPECIFIC QUALITY CONTROL REPORT

Customer: Taylor Instruments Job Number: 51927 Date Received: 10/1/85

Parameter	Sample	Precision			Spiked Recovery					EPA Recovery		
		Dilution	Analytical Value #1	Analytical Value #2	Dilution	Analytical Value	Spike Added	Spiked Value	% Recovery	Known	Recovery	%Recovery
Hg	E		<0.0005	<0.0005		<0.0005	0.200	0.230	115	0.0014	0.0014	100
Hg										0.0087	0.0093	107

Michael K. Perry

LOZIER LABORATORIES

23 N. MAIN STREET • FAIRPORT, NEW YORK 14450 • 716-425-2210

ALAN J. LAFFIN, LABORATORY DIRECTOR
DAVID M. SKINNER, LABORATORY MANAGER

RICHARD F. SCHERBERGER, M.S., C.I.H
CONSULTANT

October 30, 1985

Mr. Mark McClements
Taylor Instruments
95 Ames Street
Rochester, New York 14601

Re: Project No.: 85-09-439
Date Rec'd : 10-01-85

Dear Mr. McClements;

Enclosed you will find the analytical results on the above project.

If you have any questions, please do not hesitate to contact me.

Very truly yours,

Alan J. Laffin
Director, Analytical services

AJL/tgn
Enclosure: As noted.

LOZIER LABORATORIES
23 N. Main Street-Fairport, New York 14450 - 716/425-2210

Page ___ of ___

Client:

Taylor Instruments
95 Ames Street
Rochester, New York 14601

Attn: Mark McClements
Staff Engineer

Date Received : 10-1-85
Laboratory No. : 85-09-439
Purchase Order No.:
Report Date : 10-25-85
Auth. Signature :
Lab Director : Alan J. Laffin

Sample Identification:

A. Ly-1
B. Ly-2
C. Ly-3
D. Ly-4
E.
F. W-5
G. D-0
H. 0-0
I.
J.

Comments:

Parameters	A	B	C	D	E	F	G	H	I	J
Mercury, Hg.	0.0022	< 0.0005	< 0.0005	I.S.		<0.0005	< 0.0005	0.0014		
9/30 Depth to Water	N.A.	N.A.	N.A.	N.A.		8.45'	7.50'	10.40 '		
10/1 Depth to Water	N.A.	N.A.	N.A.	N.A.		8.15'	7.50'	10.30 '		
Duplicate Analysis	0.0025	I.S.	< 0.0005	I.S.		<0.0005	< 0.0005	0.0015		

Note: All results expressed in Mg/L unless noted otherwise.

Analysis Comments: I.S. : Insufficient Sample N.A. : Not Applicable

All depth to water measurements are reported in feet.

[2504z 6-27-84]

QUALITY CONTROL REPORT

Taylor Mercury Analysis

10-21-85

External Q.C.

Sample	Lozier Value	True Value	95 % Confidence Limits
WS 378 (2)	0.95	1.8	1.4 - 2.2
WS 378 (13)	1.6	1.4	1.0 - 1.7
WP 284 (1)	0.72	0.67	0.3 - 1.1

Internal Q.C.

Sample	Lozier Value	Duplicate Analysis	Spike Recovery
Ly - 1	2.2	2.5	N.A.
Ly - 3	< 0.5	< 0.5	N.A.
W - 5	< 0.5	< 0.5	N.A.
D - O	< 0.5	< 0.5	N.A.
O - O	1.4	1.5	N.A.

N.A. = Not Analyzed

All above results reported in ug/l, ppb.

LOZIER LABORATORIES

CHAIN OF CUSTODY RECORD

PROJECT NAME: Taylor Inst.

PROJECT NUMBER: _____

FIELD BOOK NUMBER: #1

SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSIS: EXTR ORG	ANALYSIS: VOA	ANALYSIS: PEST/PCB	ANALYSIS: TRCE MTL	ANALYSIS	ANALYSIS	ANALYSIS	NUMBER OF CONTAINERS	FIELD BOOK PG. NO.	REMARK
85 10 439 A	10-1-85	Am	LY-1	Well H_2O				Hg				One		
85 10 439 B	"	"	LY-2	"				"				"		≈ 40 m/s
85 10 439 C	"	"	LY-3	"				"				"		
85 10 439 D	"	"	LY-4	"				"				"		No Sample
85 10 439 F	"	"	W-5	"				"				"		
85 10 439 G	"	"	D-Ø	"				"				"		
85 10 439 H	"	"	Ø-Ø	"				"				"		

SAMPLED BY: RLD RLf + Mark J. McClements
SIGN

	1	2	3	4
RELINQUISHED BY:	Mark J. McClements SIGN 10/1/85 10:15 a.m. DATE TIME	SIGN DATE TIME	SIGN DATE TIME	SIGN DATE TIME
RECEIVED BY:	RLD RLf SIGN 10-1-85 10:15 Am DATE TIME	SIGN DATE TIME	SIGN DATE TIME	SIGN DATE TIME

METHOD OF SHIPMENT: _____

SIGN _____

RECEIVED FOR LABORATORY BY: Allen J. Lyle 10/1/85 11:45 a.m.
SIGN DATE TIME

Nixon, Hargrave, Devans & Doyle
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REYNOLDS PLAZA
1061 EAST INDIANTOWN ROAD
JUPITER, FLORIDA 33458
(305) 746-1002
(305) 283-5004 (MARTIN COUNTY)

February 4, 1985

Paul F. Schmied, P.E.
Regional Engineer
New York State Department of
Environmental Conservation
Region 8
6274 East Avon-Lima Road
Avon, New York 14414

Re: Results of Fourth Quarter Sampling -
Taylor Instrument

Dear Paul:

On January 25 we sent to you the fourth-quarter report by Lozier Laboratories dated January 9, 1985. Page 1 of that report indicated that Sample H would be quantified. That has been done, and I enclose the revised two page report of Lozier Laboratories dated January 9, which should be substituted for the report previously submitted.

The comments in my January letter regarding the sample taken at Well 0-0 are still relevant. If you would like to discuss these results, please do not hesitate to contact either Libby Ford or me.

Very truly yours,

Bob Witmer

G. Robert Witmer, Jr., P.C.

GRW:gk
Enclosure
cc: Larry Blue

LOZIER LABORATORIES
23 N. Main Street-Fairport, New York 14450 - 716 / 425 - 2210

Sample Identification:

A. LY - 1
B. LY - 2
C. LY - 3
D. LY - 4
E. Well - 2
F. Well - 5
G. Well - D-O
H. Well - O-O
I. PZ - 2 Shallow
J. PZ - 2 Deep

Comments:

Client: Taylor Instrument
95 Ames Street
Rochester, New York 14601

Attn : Mr. Larry Blue

Date Received : 12-18-85
Laboratory No. : 84-12-545
Purchase Order No.:
Report Date : 1-9-85 (revised)
Auth. Signature : Alan J. Laffin
Lab Director : Alan J. Laffin

Parameters	A	B	C	D	E	F	G	H	I	J
Mercury, Hg	0.003	< 0.002	< 0.002	N. S.	< 0.002	< 0.002	< 0.002	0.042	< 0.002	< 0.002
Depth of Water										
Before Purge12/17	- - -	- - -	- - -	- - -	8.90'	7.91'	7.12'	10.17'	8.71'	11.86'
After Sample12/18	- - -	- - -	- - -	- - -	8.86'	8.11'	7.17'	10.13'	8.76'	13.27'

Note: All results expressed in Mg/L unless noted otherwise.

Analysis Comments: N. S. = No Sample

[2504z 6-27-84]

LOZIER LABORATORIES
23 N. Main Street-Fairport, New York 14450 - 716 / 425 - 2210

Sample Identification:

A. Field Blank
B. Wash before Well 0-0
C.
D.
E.
F.
G.
H.
I.
J.

Comments:

Client: Taylor Instrument

Attn: Mr. Larry Blue

Date Received : 12-18-84
Laboratory No. : 84-12-545
Purchase Order No.:
Report Date : 1-9-85 (revised)
Auth. Signature :
Lab Director : Alan I. Laffin

Parameters	A	B	C	D	E	F	G	H	I	J
Mercury, Hg	<0.002	< 0.002								

Note: All results expressed in Mg/L unless noted otherwise.

Analysis Comments:

[2504z 6-27-84]

Nixon, Hargrave, Devans & Doyle
Attorneys and Counselors at Law
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(202) 223-7200

REYNOLDS PLAZA
1061 EAST INDIANTOWN ROAD
JUPITER, FLORIDA 33458
(305) 746-1002
(305) 283-5004 (MARTIN COUNTY)

August 26, 1985

Paul Schmied
Regional Engineer
New York State
Department of Environmental Conservation
Region 8
6274 East Avon-Lima Road
Avon, New York 14414

Re: Results of Second Quarter Sampling - Taylor Instruments - Proposal for Extending Monitoring Period

Dear Paul:

Enclosed please find the results of the second quarter sampling for 1985 for Taylor Instrument's ("Taylor") Ames Street facility in Rochester. As indicated in my letter dated May 6, 1985, Taylor split samples between Lozier Laboratories and General Testing in an attempt to resolve the questions raised from the first quarter results. Once again both sets of analytical data are similar in that low, but detectable levels of mercury were found in wells Ly-1 and 0-0. In addition, Lozier found levels of mercury in well D-O which were below General Testing's detectable limits.

Also enclosed are the QA/QC data for each laboratory. As can be seen from the results both labs were relatively close to the 95% Confidence Interval, although Lozier had to perform their QA/QC twice due to some of the first results being below the 95% Confidence Interval. Please note that General Testing results for well O-O in the last two sampling periods are relatively

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REG. 8

consistent, while Lozier's results dropped sharply between the first quarter and the second quarter to levels consistent with General Testing.

It is now thought that the apparent first quarter analytical discrepancies were largely due to sampling and sample handling techniques.

Taylor Instrument has completed the two years of sampling and analysis called for in the April 1983 report */ it submitted to DEC on the mercury problem. The data indicates that the paving of the area of suspected contamination has generally led to lower groundwater levels. While the analytical results have not been as consistent as we would have hoped, the majority of the samples collected during the last two years have contained no measurable amount of mercury. Taylor feels that data collected to date does not provide a basis for sound management decisions. Therefore, Taylor is proposing to continue sampling at the site for another four quarters. However, since monitoring well W-2 has not showed signs of mercury throughout the two year monitoring period, Taylor is planning to drop this well from its quarterly sampling. Similarly since mercury has only been detected (at very low levels) two times at the shallow piezometer PZ-2 locations, Taylor Instrument is planning to also drop both shallow and deep PZ-2 sampling locations. Taylor Instrument will continue to sample the remaining seven locations (O-O, D-O, LY-1, LY-2, LY-3, LY-4 and W-5) and to report both water levels and mercury concentrations to DEC following each sampling event.

Taylor believes extending sampling for another four quarters will provide sufficient data for it, and DEC, to conclude that no further remedial work is necessary at the site. It would welcome the chance to meet with DEC, if you feel it is necessary, to discuss in more detail the results of its monitoring efforts to date.

On behalf of Taylor Instrument, I would appreciate receiving the Department's approval of Taylor Instrument's plan to extend its quarterly sampling at its

---

*/ Entitled Phase 1, Mercury Contamination.

Ames Street facility. As always, it continues to be a pleasure working with the Department on this project. I know I speak for Taylor Instrument as well as myself when I say that I appreciate your and the Department's cooperativeness in working with Taylor Instrument on this matter.

Very truly yours,

G. Robert Witmer, Jr., P.C.

GRW:sl
Enclosure
cc: Wade Hall
Mark McClements
Kevin Hylton
Thomas Lawson

LOZIER

LABORATORIES 23 N. MAIN STREET • FAIRPORT, NEW YORK 14450 • 716-425-2210

ALAN J. LAFFIN LABORATORY DIRECTOR
DAVID M. SKINNER LABORATORY MANAGER

RICHARD C. SCHERBERGER M.S. C.I.H.
CONSULTANT

July 24, 1985

Taylor Instruments
95 Ames Street
Rochester, NY 14601

Attention: Wade Hall

Re: Project No.: 85-06-235
Date Rec'd : 6-20-85

Dear Mr. Hall:

Enclosed you will find the analytical results on the above project.

There are two reports enclosed. The first report dated 7-12-85 was rejected due to poor external quality control results. The second report, dated 7-24-85, was accepted, both internal and external quality control results were within 95% Confidence limits.

Please note that the mercury results from the wells did not change significantly between the two reports.

Each report contains the data sheet, a quality control report and the in-house chain of custody sheet.

If you have any questions concerning any part of this report, please do not hesitate to contact me.

Very truly yours,

Alan J. Laffin
Director, Analytical Services

AJL/mem
Enclosure: As noted.

xc: Mr. Larry Blue, Nixon, Hargraves, Devans & Doyle

LOZIER LABORATORIES

CHAIN OF CUSTODY RECORD

PROJECT NAME: [illegible]

PROJECT NUMBER:

FIELD BOOK NUMBER: #1

SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSIS: EXTR ORG	VOA	PEST/PCB	TRCE MTL					NUMBER OF CONTAINERS	FIELD BOOK PG No	REMARK
	6-20-85	2:10pm	D-2	water				Hg					2-[illegible]		Split w/ [illegible]
		2:20pm	P3-S												TESTING [illegible]
		2:20pm?	P7-D												
		2:50pm	W-5												
		3:05pm?	D-Ø												
		3:30pm?	Ø-Ø												
		3:55pm	Ly-1												
		4:00pm	Ly-2												
		3:40pm	Ly-3												
		3:45pm	Ly-4												[illegible]
		4:[illegible]pm	Field BLK												[illegible]

SAMPLED BY: R.L.T. D.R.L.C.
SIGN

	1	2	3	4
RELINQUISHED BY:	SIGN: R.L.T. D.R.L.C. DATE: 6-20-85 TIME: 4:40pm	SIGN: DATE: TIME:	SIGN: DATE: TIME:	SIGN: DATE: TIME:
RECEIVED BY:	SIGN: Brian M. Robinson DATE: 6/20/85 TIME: 4:45pm	SIGN: DATE: TIME:	SIGN: DATE: TIME:	SIGN: DATE: TIME:

METHOD OF SHIPMENT: Auto

SIGN: Brian M. Robinson

RECEIVED FOR LABORATORY BY:

SIGN DATE TIME

LOZIER LABORATORIES

CHAIN OF CUSTODY RECORD

PROJECT NAME: Taylor Inst.

PROJECT NUMBER:

FIELD BOOK NUMBER: #1

SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	EXTR ORG	VOA	PEST/PCB	TRCE MTL	ANALYSIS			NUMBER OF CONTAINERS	FIELD BOOK PG. No	REMARK
85-06-235 E	6-20-85	3:0 pm	WB-2	water				Hg				2-500 ml		Split [illegible]
85-06-235 I	|	[illegible]	PE-S	|				|						
85-06-235 J	|	[illegible]	PE-D	|				|				|		
85-06-235 F	|	[illegible]	[illegible]-5	|				|				|		
85-06-235 G	|	3:5 pm	[illegible]-2	|				|				|		
85-06-235 H	|	[illegible]	[illegible]-2									|		
85-06-235 A		[illegible]	[illegible]									|		
85-06-235 B		[illegible]	[illegible]-3									|		
85-06-235 C		[illegible]	[illegible]									|		↓
85-06-235 ⇒ No sample	↓	[illegible]	[illegible]	↓				↓				↓		No sample
85-06-235 D	↓	[illegible] pm	Field Blk	↓				↓				↓		↓ Split

SAMPLED BY: [illegible signature]
SIGN

	1	2	3	4
RELINQUISHED BY:	SIGN: [illegible signature] DATE: 6-20-85 TIME: 4:35 pm	SIGN: Brian M Robinson DATE: 6/20/85 TIME: 4:43 pm	SIGN: DATE: TIME:	SIGN: DATE: TIME:
RECEIVED BY:	SIGN: Brian M Robinson DATE: 6/20/85 TIME: 4:35 pm	SIGN: [illegible signature] DATE: [illegible] TIME: 4:43 pm	SIGN: DATE: TIME:	SIGN: DATE: TIME:

METHOD OF SHIPMENT: Auto

SIGN: [illegible signature]

RECEIVED FOR LABORATORY BY:

SIGN: Mary Ellen McDonald DATE: 6-20-85 TIME: 5:25 pm

LOZIER LABORATORIES

CHAIN OF CUSTODY RECORD

PROJECT NAME: Taylor Instruments

PROJECT NUMBER: 85-06-235

FIELD BOOK NUMBER: _____

SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	EXTR ORG	VOA	PEST/PCB	TRCE MTL	ANALYSIS Hg	ANALYSIS ml of sample	NUMBER OF CONTAINERS	FIELD BOOK PG. No.	REMARK
85-06-235 A	7-17-85	8:30	Ly-1	Water					100		1		
85-06-235 C	7-17-85	8:30	Ly-3	Water					34		1		
85-06-235 D	7-17-85	8:30	Field Blank	Water					100		1		
85-06-235 E	7-17-85	8:30	W-2	Water					100		1		
85-06-235 F	7-17-85	8:30	W-5	Water					100		1		
85-06-235 G	7-17-85	8:30	D-Ø	Water					100		1		
85-06-235 H	7-17-85	8:30	Ø-Ø	Water					100		1		
85-06-235 I	7-17-85	8:30	Pz-2 shallow	Water					100		1		
85-06-235 J	7-17-85	8:30	Pz-2 deep	Water					100		1		

SAMPLED BY: Mary Ellen McDonald 7-17-85
SIGN

	1	2	3	4
RELINQUISHED BY:	SIGN DATE TIME	SIGN DATE TIME	SIGN DATE TIME	SIGN DATE TIME
RECEIVED BY:	SIGN DATE TIME	SIGN DATE TIME	SIGN DATE TIME	SIGN DATE TIME

METHOD OF SHIPMENT: _____ SIGN _____

RECEIVED FOR LABORATORY BY: SIGN _____ DATE _____ TIME _____

LOZIER LABORATORIES

CHAIN OF CUSTODY RECORD

PROJECT NAME: Taylor Instruments

PROJECT NUMBER: 85-06-235

FIELD BOOK NUMBER: _____

SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSIS: EXTR ORG	VOA	PEST/PCB	TDS	Hg's			NUMBER OF CONTAINERS	FIELD BOOK PG No	REMARK
85-06-235 A	7-8-85	1:00	Ky-1					100						
" B	7-8-85	1.00	Ky-2					100						
" C	7-8-85	1.00	Ky-3					100						
" D	7-8-85	1.00	Field Blank					100						
" E	7-8-85	1.00	D-2					100						
" F	7-8-85	1.00	W-5					100						
" G	7-8-85	1.00	D-0					100						
" H	7-8-85	1.00	D-D					100						
" I	7-8-85	1.00	Pz-2-shallow					100						
" J	7-8-85	1.00	Pz-2-deep					100						
	7-8-85	1.00												

SAMPLED BY: MaryEllen McDonald 7-8-85
SIGN

	1	2	3	4
RELINQUISHED BY:	SIGN _____ DATE _____ TIME _____	SIGN _____ DATE _____ TIME _____	SIGN _____ DATE _____ TIME _____	SIGN _____ DATE _____ TIME _____
RECEIVED BY:	SIGN _____ DATE _____ TIME _____	SIGN _____ DATE _____ TIME _____	SIGN _____ DATE _____ TIME _____	SIGN _____ DATE _____ TIME _____

METHOD OF SHIPMENT: _____ SIGN _____

RECEIVED FOR LABORATORY BY: SIGN _____ DATE _____ TIME _____

QUALITY CONTROL REPORT

Taylor Mercury Analysis

7-19-85

External Q.C.

Sample	Lozier Value	True Value	95% Confidence Interval
WS 378 [#2]	1.1	1.8	1.4 - 2.2
WS 378 [#3]	1.5	1.4	1.0 - 1.7
WP 481 [#2]	6.2	8.7	5.9 - 11.1
WP 284 [#3]	0.81	0.67	0.3 - 1.1
WP 284 [#4]	8.90	8.73	5.9 - 11.1
WP 475 [#5]	1.25	3.6	1.6 - 5.0
WP 475 [#6]	5.66	8.0	4.0 - 11.0

Internal Q.C.

Sample	Lozier Value	Duplicate Value	Spike Recovery
W-5	<0.2	<0.2	120%
Well 0-0	0.8	1.5	110%

Note: All results are reported in ug/l, ppb.

QUALITY CONTROL REPORT

Taylor Mercury Analysis

7-12-85

External Q.C.

Sample	Lozier Value	True Value	95% Confidence Interval
WP 481 [#2]	3.8	8.7	5.9 - 11.1
WP 475 [#5]	0.84	3.6	1.6 - 5.0
WP 475 [#6]	4.9	8.0	4.0 - 11.0
EP Tox [#1]	8	50	
EP Tox [#2]	75	300	

Internal Q.C.

Sample	Lozier Value	Duplicate	Spike Recovery
Ly-3	0.3	0.2	95.4%
Well D-0	0.5	0.4	101%

Note: All results are reported in ug/l, ppb.

LOZIER LABORATORIES
23 N. Main Street-Fairport, New York 14450 - 716/425-2210

Client: Taylor Instruments
95 Ames Street
Rochester, NY 14601

Date Received : 6-20-85
Laboratory No. : 85-06-235
Purchase Order No.:
Report Date : 7-12-85
Auth. Signature :
Lab Director : Alan J. Laffin

Sample Identification:

A. Ly-1
B. Ly-2
C. Ly-3
D. Field Blank
E. W-2
F. W-5
G. D-0
H. O-0
I. Pz-2 shallow
J. Pz-2 deep

Comments:

Parameters	A	B	C	D	E	F	G	H	I	J
Mercury, Hg	0.0038	0.0004	0.0003	<0.0002	<0.0002	0.0003	0.0005	0.0019	<0.0002	<0.0002
Depth to Water	NA	NA	NA	NA	9.06	6.76	6.03	8.72	6.97	10.88
Before sampling	NA	NA	NA	NA	9.15	7.00	6.12	9.11	7.32	10.10
Duplicate analysis			0.0002				0.0004			
Spike recovery			95.4%				101%			

Note: All results expressed in Mg/L unless noted otherwise.

Analysis Comments: Ly-4: Insufficient sample

NA : Not applicable

[2504z 6-27-84]

LOZIER LABORATORIES
23 N. Main Street-Fairport, New York 14450 - 716/425-2210

Client: Taylor Instruments
95 Ames Street
Rochester, NY 14601

Date Received : 6-20-85
Laboratory No. : 85-06-235
Purchase Order No.:
Report Date : 7-24-85
Auth. Signature :
Lab Director : Alan J. Laffin

Sample Identification:

A. Ly-1
B. Ly-2
C. Ly-3
D. Field Blank
E. W-2
F. W-5
G. D-0
H. O-0
I. Pz-2 shallow
J. Pz-2 deep

Comments:

Parameters	A	B	C	D	E	F	G	H	I	J
Mercury, Hg	0.0032	+	<0.0006*	<0.0002	<0.0002	<0.0002	0.0004	0.0008	<0.0002	<0.0002
Depth to water(ft)	NA	NA	NA	NA	9.06	6.76	6.03	8.72	6.97	10.88
Before sampling	NA	NA	NA	NA	9.15	7.00	6.12	9.11	7.32	10.10
Duplicate analysis						<0.0002		0.0015		
Spike recovery						120%		110%		

Note: All results expressed in Mg/L unless noted otherwise.

Analysis Comments: Ly-4: Insufficient sample NA: Not applicable

\+ : Insufficient sample on second analysis

* : Used only 34 ml for the second analysis

[2504z 6-27-84]

general testing corporation

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

July 8, 1985

Ms. Carrie Overholt
Nixon, Hargrave, Devans & Doyle
Lincoln First Tower
Rochester, NY 14603

Dear Carrie:

Enclosed is our results on 11 samples received June 20, 1985 for Mercury analysis. Due to the sensitive nature of the results, we performed the analysis in duplicate where possible. You will be charged for only one analysis. The internal quality control data is also attached.

The samples were received unpreserved. We added nitric acid to the samples in the laboratory. The samples were refrigerated until analysis. The samples were analyzed by the cold vapor procedure, Method 303F. Our chain of custody is attached.

Thank you for allowing us to participate in this quality assurance check. Please do not hesitate to call if you have any questions.

Sincerely,

GENERAL TESTING CORPORATION

Walter H. Scheible
Environmental Engineer

WHS/jmj

cc: Mr. Brian Robinson
Taylor Instruments

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street 85 Trinity Place
Rochester, NY 14608 Hackensack, NJ 07601

GTC Job No. 51139
Client Project No. _____

Sample Origination & Shipping Information

Collection Site TAYLOR PLANT
Address 95 AMES ST ROCHESTER NY 14607
Street City State Zip
Collector RICK (LOZIER)
Print Signature

Bottles Prepared by LOZIER Rec'd by BRIAN ROBINSON
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via B ROBINSON Seal/Shipping # _____

Sample(s) Relinquished by:		Received by:		Date/Time
1. Sign	Brian M Robinson	1. Sign	Walt Arbuthnot	6/20/85
for	Taylor	for	GTC	5:10
2. Sign		2. Sign		/ /
for		for		:
3. Sign		3. Sign		/ /
for		for		:

Sample(s) Received in Laboratory by Walt Arbuthnot 6/20/85 @ 5:10

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Sample Prep Preserved N	Sample Prep Filtered Y	Sample Prep Filtered N	Bottle Set(s) (see below)	Rec'd at GTC
1	D 2 / A	6/20/85 :	W	Hg					6	
2	PZ-5 / B	/ / :								
3	PZ-D / C	/ / :								
4	W-5 / D	/ / :								
5	DO / E	/ / :								

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each						1					

Additional Analytes _____

Note: Samples taken by Lozier

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

Page 2

710 Exchange Street 85 Trinity Place
Rochester, NY 14608 Hackensack, NJ 07601

GTC Job No. 51139
Client Project No. _____

Sample Origination & Shipping Information

Collection Site Taylor Austin

Address _____
Street City State Zip

Collector _____
Print Signature

Bottles Prepared by _____ Rec'd by _____
Bottles Shipped to Client via _____ Seal/Shipping # _____
Samples Shipped via _____ Seal/Shipping # _____

Sample(s) Relinquished by:		Received by:		Date/Time
1. Sign	Brian M Robinson	1. Sign	Walt Arbuckle	6/20/95
for	Taylor	for	GTC	5:10
2. Sign		2. Sign		/ /
for		for		:
3. Sign		3. Sign		/ /
for		for		:

Sample(s) Received in Laboratory by _____ / / @ :

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)	Rec'd at GTC
1	O-O / F	Well / 6/20/95 :	W	Hg					6	
2	LY-1 / G	/ / :								
3	LY-2 / H	/ / :								
4	LY-3 / I	/ / :								
5	LY-4 / J	/ / :								

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each						1					

Additional Analytes Note; Samples taken by Lozuk

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), _____(X), _____(Y).

GENERAL TESTING CORPORATION/CHAIN-OF-CUSTODY RECORD

710 Exchange Street
Rochester, NY 14608

85 Trinity Place
Hackensack, NJ 07601

GTC Job No. 51139
Client Project No. ______

Sample Origination & Shipping Information
Collection Site Taylor Austin page 2.
Address ______ Street ______ City ______ State ______ Zip ______

Collector ______ Print ______ Signature ______

Bottles Prepared by ______
Bottles Shipped to Client via ______
Samples Shipped via ______

Rec'd by ______
Seal/Shipping # ______
Seal/Shipping # ______

Sample(s) Relinquished by:		Received by:		Date/Time
1. Sign	Brian M. [illegible]	1. Sign	Walt Ashcroft	6/20/85
for	Taylor	for	GTC	5:10
2. Sign		2. Sign		/ /
for		for		:
3. Sign		3. Sign		/ /
for		for		:

Sample(s) Received in Laboratory by ______ / / @ :

	Client I.D.# / Lab#	Sample Location / Date/Time	*	Analyte or Analyte Group(s) Required (see below for additional)	Sample Prep Preserved Y	Preserved N	Filtered Y	Filtered N	Bottle Set(s) (see below)	Rec'd at GTC
1	FIELD BLANK / K	6/20/85 :	W	Hg					6	
2		/ / :								
3		/ / :								
4		/ / :								
5		/ / :								

Use Bottle No. for indicating type bottles used in each bottle set and fill in box with # of bottles used for each type.

Bottle No.	1	2	3	4	5	6	7	8	9	10	11
Bottle Type	40 ml Vial	Pint Glass	Qt. Glass	4 oz. Plastic	8 oz. Plastic	16 oz. Plastic	Qt. Pl.	Gal. Pl.	Steril. Pl.		
# of each						1					

Additional Analytes ______
Note: Samples Taken by Lozier

Shaded area for Lab use only; bottom copy for client; maximum of 5 samples per page.

* Source Codes: Monitoring Well (W), Soil (S), Treatment Plant (T), Drinking Water (D), Leachate (L), Hazardous Waste (H), River or Stream (R), Pond (P), Industrial Discharge (I), ______(X), ______(Y).

water and wastewater testing specialists

general testing corporation

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

LABORATORY REPORT

Job No. R51139 Date 07/08/85

Client

Ms. Carrie Overholt
Nixon, Hargrave, Devans & Doyle
Lincoln First Tower
Rochester, NY 14603

Sample(s) Reference

Taylor Instruments
Monitoring Wells

Date Samples (X) received ( ) collected by General Testing 6/20/85

P.O. # _____

ANALYTICAL RESULTS

(mg/l unless stated otherwise)

Sample Description	Mercury	Mercury Duplicate
TAYLOR INSTRUMENTS		
Date(s)	6/20/85	
Time(s)	-	
Well D-0	<.0005	<.0005
Well D-2 W-2	<.0005	<.0005
LY-1	0.0040	0.0042
LY-2	<.0008	*
LY-3	<.0005	<.0005
0-0	0.0016	0.0014
P-Z Shallow	<.0005	<.0005
P-Z Deep	<.0005	<.0005
Well W-5	<.0005	<.0005
Field Blank	<.0005	-

* Insufficient sample for duplicate analysis

cc: Mr. Brian Robinson
Taylor Instruments

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 15th Edition and Methods for Chemical Analysis of Water and Wastes, EPA. (<) indicates lowest detectable concentration with procedure used. Data on quality control performed with above sample(s) is available upon request.

Michael K Perry
Laboratory Director

general testing corporation

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

LABORATORY REPORT

Job No. 51139 Date 7/8/85

Client

Ms. Carrie Overholt
Nixon, Hargrave, Devans & Doyle
Lincoln First Tower
Rochester, NY 14603

Sample(s) Reference

Taylor Instruments
Monitoring Wells
QC Data

Date Samples (X) received ( ) collected by General Testing 6/20/85

P.O. # _____

ANALYTICAL RESULTS

(mg/l unless stated otherwise)

Sample Description	Duplicate	Spiked Recovery Amount Added	Spiked Recovery % Recovery	EPA Ref. % Recovery
Date(s)	6/20/85			
Time(s)	-			
Well D-2				
Mercury	<.0005	0.002	96%	98%
Well W-5				
Mercury	<.0005	0.002	100%	103%

cc: Mr. Brian Robinson
Taylor Instruments

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 15th Edition and Methods for Chemical Analysis of Water and Wastes, EPA. (<) indicates lowest detectable concentration with procedure used. Data on quality control performed with above sample(s) is available upon request.

Laboratory Director

Nixon, Hargrave, Devans & Doyle
Attorneys and Counselors at Law
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

30 ROCKEFELLER PLAZA
NEW YORK, NEW YORK 10112
(212) 586-4100
CABLE: NIXONHARG NEW YORK
TELEX 66521

LINCOLN FIRST TOWER
POST OFFICE BOX 1051
ROCHESTER, NEW YORK 14603
(716) 546-8000
CABLE: NIXONHARG ROCHESTER
TELEX: 978450

SUITE 1200
1090 VERMONT AVENUE, N.W.
WASHINGTON, D.C. 20005
(202) 842-3600

REYNOLDS PLAZA
1061 EAST INDIANTOWN ROAD
JUPITER, FLORIDA 33458
(305) 746-1002
(305) 283-5004 (MARTIN COUNTY)

May 6, 1985

Paul Schmied
Regional Engineer
Department of Environmental
Conservation
6274 East Avon-Lima Road
Avon, New York 14414

Re: Taylor Instrument - Ames Street site, QA/AC Data on First Quarter Sampling

Dear Paul:

Enclosed, as a follow-up to my letter of April 25, 1985, (enclosing the results of the first quarter sampling of the monitoring wells at the above site) are the QC/QA results for both laboratories involved in those analyses. As I indicated to you in that letter, the samples were split between two laboraboties and those laboratories reported very different results. Because of the apparent discrepency, Taylor Instrument asked both laboratories to review their analytical methodologies and to submit any relevant QA/QC data. Both laboraboties were able to supply the enclosed QA/QC data, including analyses of EPA standards. Each laboratory reported results which were relatively close to the 95% Confidence Interval. Since neither lab has any explanation for the extreme difference in the sampling results, Taylor plans to split samples once again between the two labs during the second quarter sampling, and once again we will submit both results to DEC.

If you would like to discuss the enclosed data, please do not hesitate to call either Libby Ford or myself.

Very truly yours,

G. Robert Witmer, Jr., P.C.

GRW/ema
Enclosure
cc: Larry A. Blue

Taylor Instrument
A Division of COMBUSTION ENGINEERING

N.H.D. & D.
MAY 06 1985
RECEIVED

May 2, 1985

Mary Elizabeth Ford
Environmental Health Engineer
Nixon, Hargrave, Devans & Doyle
Lincoln First Tower
P.O. Box 1951
Rochester, New York 14603

Dear Libby:

Enclosed please find the analytical results and quality control work performed by both General Testing and Lozier Laboraties. As can be seen from the QC reports, both laboratories are relatively close to the 95% Confidence Interval. Neither lab has any explanation for the extreme difference in the results. I would like to split samples with both labs at the next sampling quarter in attempt to determine which laboratory is at error.

Please forward this information to the DEC for their information. If you are able to determine any information as to how this happened, please contact me.

Very truly yours,

Larry A. Blue

Larry A. Blue
Facilities Environmental Engineer
Plant Engineering Department

LAB/jed
Encls.

xc: Wade Hall

LOZIER LABORATORIES
23 N. MAIN STREET • FAIRPORT, NEW YORK 14450 • 716-425-2210

May 1, 1985

Mr. Larry Blue
Taylor Instrument
95 Ames Street
Rochester, New York 14601

Re : Quality Control Report for Mercury Analysis on March 26, 1985

Dear Mr. Blue :

Enclosed you will find a quality control report for mercury analysis that was conducted at Lozier Laboratories on March 26, 1985. The Lozier analysis of two Taylor wells , a rinsing of Well 0-0 and one other sample that was analyzed just prior to the Taylor samples is also included.

As the results show the Lozier reported values for mercury for all the WP and EP TOX Q.C. samples are just under the reported 95 % confidence interval for those samples. After investigating these Q.C. results I found the the samples, WP and EP TOX Q.C., were made up some six to seven months prior to this analyses, which can explain the low mercury levels. These results do show that our laboratory can distinguish between low level mercury and high level mercury in water samples.

The method that Lozier Laboratories uses for mercury analysis is the Manual Cold Vapor Technique which can be found in the 1985 DEC Methods Manual Attachment 5 page D-61.

I am also enclosing copies of the WP and EP TOX Q.C. report sheets for your own information.

I would be willing to sit down with you and discuss our sampling and analytical procedures at Taylor Instrument at your convenience. I hope we can resolve this problem in the near future.

Very truly yours,

Alan J. Laffin
Director, Analytical Services

LOZIER LABORATORIES
23 N. Main Street-Fairport, New York 14450 - 716/425-2210

Client: Taylor Instruments
95 Ames Street
Rochester, New York 14601

Attn: Larry Blue
Environmental Eng.

Date Received : 3-13-85
Laboratory No. : 85-03-096
Purchase Order No.:
Report Date : 3-29-85
Auth. Signature :
Lab Director : Alan J. Laffin

Sample Identification:

A. Ly-1
B. Ly-2
C. Ly-3
D. Ly-4
E. W-2
F. W-5
G. D-0
H. O-0
I. Pz-2-shallow
J. Pz-2-deep

Comments:

Parameters	A	B	C	D	E	F	G	H	I	J
Hg	0.0016	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0326	<0.0002	<0.0002
fore Pur 3-12 Depth to Water	---	---	---	---	6.52'	5.89'	5.51'	7.98'	5.85'	9.62'
" Sampl. 3-13 Depth to Water	---	---	---	---	6.60'	5.83'	5.67'	8.08'	5.84'	9.65'

Note: All results expressed in Mg/L unless noted otherwise.

Analysis Comments:

LOZIER LABORATORIES
23 N. Main Street-Fairport, New York 14450 - 716/425-2210

Client: Taylor Instrument

Page 2 (Cont'd)

Date Received : 3-13-85
Laboratory No. : 85-03-096
Purchase Order No.:
Report Date : 3-29-85
Auth. Signature :
Lab Director : Alan J. Laffin

Sample Identification:

K. Field BLK
L. Rinse Water after 0-0
M.
N.
O.
P.
Q.
R.
S.
T.

Comments:

Parameters	K.	L.	M.	N.	O.	P.	Q.	R.	S.	T.
Hg	<0.0002	<0.0002	---							

Note: All results expressed in Mg/L unless noted otherwise.

Analysis Comments:

Mercury Analysis

3-26-85

Quality Control Report

Sample I.D.	True Value	95 % Confidence Interval	Lozier Value
WP 1178 # 1	0.7	0.3 - 1.1	< 0.2
WP 481 # 2	8.7	5.9 - 11.1	5.6
WP 475 # 5	3.5	1.6 - 5.0	1.0
WP 475 # 6	8.0	4.0 - 11.0	N.D.
EP TOX 283 # 1	50		38
EP TOX 283 # 2	300		250

Taylor Sample	Lozier Analysis	Duplicate	Triplicate	Reorted	Spike Recovery
* Well 0-0	27	24	49	32	
Rinse After Well 0-0	0.2	0.2		0.2	115 %
Well 2	0.2	0.2		0.2	114 %
Sample 062	20	21		20	81 %

N.D. = Not Calculated.

* = Sediment present in sample

All results are reported in ppb, ug/l

U.S. Environmental Protection Agency
Envrironmental Monitoring and Support Laboratory - Cincinnati

WATER POLLUTION QUALITY CONTROL CHECK SAMPLES

True Values for TRACE METALS I

When diluted to volume according to instructions, the samples contain the following compounds at concentrations expressed as ug/liter. The mean recovery ($\bar{X}$) and the standard deviation (S) are listed below along with the true value and the 95% confidence interval. The true value represents the actual weighing and subsequent dilutions. The 95% confidence interval represents the mean recovery plus or minus two standard deviations ($\bar{X} \pm 2S$) and was developed from regression equations from Performance Evaluation Studies.

Parameter	Sample	True Value	$\bar{X}$	S	95% Confidence Interval
Al	1	106	134	23.2	87.6 - 180
	2	730	746	63.6	619 - 873
As	1	27	27.0	3.58	19.8 - 34.2
	2	235	234	25.9	182 - 286
Be	1	29	29.3	2.39	24.5 - 34.1
	2	235	232	12.5	207 - 257
Cd	1	9.1	8.75	1.02	6.7 - 10.8
	2	39	36.9	2.94	31.0 - 42.8
Cr	1	7.1	7.27	1.15	5.0 - 9.6
	2	261	258	24.2	210 - 306
Co	1	43	42.7	3.13	36.4 - 49.0
	2	261	259	15.0	229 - 289
Cu	1	8.9	9.60	1.76	6.1 - 13.1
	2	339	335	16.7	302 - 368
Fe	1	22	23.3	5.0	13.3 - 33.3
	2	796	788	46.7	695 - 881
Pb	1	43	44.0	5.0	34.0 - 54.0
	2	435	430	30.6	359 - 491
Mn	1	13	12.8	2.2	8.4 - 17.2
	2	348	346	20.6	305 - 387
Hg	1	0.7	0.72	0.19	0.3 - 1.1
	2	8.7	8.47	1.29	5.9 - 11.1
Ni	1	17	17.2	2.9	11.4 - 23.0
	2	207	206	14.5	177 - 235
Se	1	11	10.3	1.9	6.5 - 14.1
	2	50	46.7	7.7	31.3 - 62.1
V	1	130	131	15.1	101 - 161
	2	846	864	68.9	726 - 984
Zn	1	10	10.9	3.6	3.7 - 18.1
	2	418	415	17.2	381 - 449

WP
1178/481

U.S. Environmental Protection Agency
Environmental Monitoring and Support Laboratory - Cincinnati

WATER POLLUTION QUALITY CONTROL SAMPLES

True Values for TRACE METALS

When diluted to volume according to instructions, the samples contain the following compounds at concentrations expressed as µg/liter. The mean recovery ($\bar{X}$) and the standard deviation (S) are listed below along with the true value and the 95% confidence interval. The true value represents the actual weighting and all subsequent dilutions. The 95% confidence interval represents the mean recovery plus or minus two standard deviations ($\bar{X}$ + 2S) and was developed from regression equations from Method Validation Studies.

Parameter	Sample	True Value	$\bar{X}$	S	95% Confidence Interval
Al	4	60	83.9	19.1	45.7 - 122
	5	450	460	59.3	341 - 579
	6	800	819	68.6	682 - 956
As	4	22	23.1	2.2	18.7 - 27.5
	5	60	56.6	9.8	37.0 - 76.2
	6	300	300	46.5	207 - 393
Be	4	20	20.5	2.2	16.1 - 24.9
	5	250	249	16.3	216 - 282
	6	900	894	42.2	810 - 978
Cd	4	~~250~~ 25	~~238~~	~~17.4~~	~~203 - 273~~
	5	13	12.3	1.4	9.5 - 15.1
	6	70	65.6	5.6	54.4 - 76.8
Cr	4	10	10.2	1.1	8.0 - 12.4
	5	80	78.0	8.9	60.2 - 95.8
	6	250	242	23.0	196 - 288
Co	4	20	20.3	2.4	15.5 - 25.1
	5	80	80.7	3.0	74.7 - 86.7
	6	600	599	33.2	533 - 665
Cu	4	11	11.3	2.6	6.1 - 16.5
	5	50	49.4	3.5	42.4 - 56.4
	6	350	346	17.7	311 - 381
Fe	4	20	21.8	3.7	14.4 - 29.2
	5	80	79.6	11.1	57.4 - 102
	6	900	899	37.1	825 - 973
Pb	4	24	24.7	3.7	17.3 - 32.1
	5	120	122	14.8	92.4 - 152
	6	400	399	27.2	345 - 453
Mn	4	15	15.5	4.4	6.7 - 24.3
	5	75	73.9	7.4	59.1 - 88.7
	6	500	495	35.2	425 - 565
Hg	4	~~0.76~~	~~0.78~~	~~0.22~~	~~0.32 - 1.2~~
	5	3.5	3.3	0.87	1.6 - 5.0
	6	8.0	7.5	1.7	4.0 - 11.0
Ni	4	30	29.9	6.1	17.7 - 42.1
	5	80	~~77.7~~	6.7	64.3 - 91.1
	6	300	301	26.7	248 - 354
Se	4	6.0	5.6	1.4	2.8 - 8.4
	5	30	29.3	3.0	22.3 - 35.3
	6	50	48.0	8.2	31.6 - 64.4
V	4	70	67.4	8.2	51.0 - 83.8
	5	250	235	48.9	155 - 351
	6	850	844	65.8	712 - 976
Zn	4	16	17.1	3.7	9.7 - 24.5
	5	80	78.3	6.7	64.9 - 91.7
	6	400	396	22.2	352 - 440

WP475

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U.S. Environmental Protection Agency
Environmental Monitoring and Support Laboratory - Cincinnati

EP EXTRACT METALS - Quality Control Samples

TRUE VALUES

When diluted to volume according to the instructions, the samples contain the following elements expressed as mg/liter. The True Value represents the actual weighings and all subsequent dilutions.

Element	Concentrate #	True Value
Ba	1	40.0 mg/liter
	2	119.6
Cd	1	0.70
	2	1.30
Cr	1	1.25
	2	6.50
Pb	1	2.00
	2	8.00
Hg	1	0.05
	2	0.30
Ag	1	1.00
	2	6.00
As	3	1.00
	4	7.00
Se	3	0.50
	4	1.50

WP
283

general testing corporation

water and wastewater testing specialists

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

LABORATORY REPORT

Job No. R50494 Date 04/15/85

Client

Mr. Larry Blue
Taylor Instrument
95 Ames Street
Rochester, NY 14611

Sample(s) Reference

Well Water

Date Samples (X) received ( ) collected by General Testing 3/29/85

P.O. # _____

ANALYTICAL RESULTS

(mg/l unless stated otherwise)

Sample Description TAYLOR INSTRUMENT	Mercury		Known Value	% Recovery
Date(s)	-			
Time(s)	-			
	(ppm)			
LY-1	0.00063			
LY-2	*			
LY-3	<.0005			
LY-4	<.0005			
D-O	<.0005			
O-O	0.00348			
PZ-2D	<.0005			
PZ-2S	<.0005			
W2	<.0005			
W5	<.0005			
QC Performed with this Run:				
EPA Standard #2			0.0087	110%
EPA Standard #1			0.0014	107%
Duplicate Analysis LY-1	0.00063			
Matrix Spike LY-3			0.0051	102%
Blank Spike			0.0051	93%

* No sample, container empty.

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 15th Edition and Methods for Chemical Analysis of Water and Wastes, EPA. (<) indicates lowest detectable concentration with procedure used. Data on quality control performed with above sample(s) is available upon request.

Laboratory Director

Nixon, Hargrave, Devans & Doyle
Attorneys and Counselors at Law
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REYNOLDS PLAZA
1061 EAST INDIANTOWN ROAD
JUPITER, FLORIDA 33458
(305) 746-1002
(305) 283-5004 (MARTIN COUNTY)

April 25, 1985

Paul Schmied
Regional Engineer
New York State Department
of Environmental Conservation
Region 8
6274 East Avon-Lima Road
Avon, New York 14414

Re: Results of First Quarter Sampling -- Taylor Instrument

Dear Paul:

Enclosed please find the results of the first quarter sampling for 1985 for Taylor Instrument's Ames Street in Rochester. The data is consistent with the fourth quarter sampling results for 1984 in that mercury was detected in only two wells. However, as a spot check on the precision of the analytical results, a split-sample was sent to a second laboratory, General Testing, for analysis. Both the sets of analytical data are included. The reports from the two laboratories are similar in that both laboratories detected mercury in only two wells. However, General Testing reported mercury levels lower than that reported by Lozier's laboratory. The difference is particularly significant at Well 0-0 (the presumed center of contamination) for which General Testing reported mercury levels a full order of magnitude lower than that reported by Lozier's. As you may remember, Well 0-0 is the well where, during the last year, mercury levels had been reported to range from non-detectible to approximately 40 parts per million. In lieu of these results, we have asked both Lozier and General Testing to review their laboratory practices with regards to mercury analysis to insure that the correct analytical procedures are being strictly adhered to.

As always, if you have any questions on the enclosed results, please do not hesitate to contact either Libby Ford or myself.

Very truly yours,

G. Robert Witmer, Jr., P.C.

GRW/ema
Enclosure
cc: Larry Blue

water and wastewater testing specialists

general testing corporation

710 Exchange Street
Rochester, NY 14608
(716) 454-3760

85 Trinity Place
Hackensack, NJ 07601
(201) 488-5242

LABORATORY REPORT

Job No. R50494 Date 04/15/85

Client
Mr. Larry Blue
Taylor Instrument
95 Ames Street
Rochester, NY 14611

Sample(s) Reference
Well Water

Date Samples (x) received ( ) collected by General Testing 3/29/85

P.O #

ANALYTICAL RESULTS
(mg/l unless stated otherwise)

Sample Description

TAYLOR INSTRUMENT	Mercury
Date(s)	-
Time(s)	-
	(ppm)
LY-1	0.00063
LY-2	*
LY-3	<.0005
LY-4	<.0005
D-O	<.0005
O-O	0.00348
PZ-2D	<.0005
FZ-2S	<.0005
W2	<.0005
W5	<.0005

* No sample, container empty.

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 15th Edition and Methods for Chemical Analysis of Water and Wastes, EPA. (<) indicates lowest detectable concentration with procedure used. Data on quality control performed with above sample(s) is available upon request.

Laboratory Director

1/84

LOZIER LABORATORIES
23 N. Main Street-Fairport, New York 14450 - 716 / 425 - 2210

Sample Identification:

A. Ly-1
B. Ly-2
C. Ly-3
D. Ly-4
E. W-2
F. W-5
G. D-0
H. 0-0
I. Pz-2-shallow
J. Pz-2-deep

Comments:

Client: Taylor Instruments
95 Ames Street
Rochester, New York 14601

Attn: Larry Blue
Environmental Eng.

Date Received : 3-13-85
Laboratory No. : 85-03-096
Purchase Order No.:
Report Date : 3-29-85
Auth. Signature :
Lab Director : Alan J. Laffin

Parameters	A	B	C	D	E	F	G	H	I	J
Hg	0.0016	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0326	<0.0002	<0.0002
efore Pur 3-12 Depth to Water	---	---	---	---	6.52'	5.89'	5.51'	7.98'	5.85'	9.62'
" Sampl. 3-13 Depth to Water	---	---	---	---	6.60'	5.83'	5.67'	8.08'	5.84'	9.65'

Note: All results expressed in Mg/L unless noted otherwise.

Analysis Comments:

LOZIER LABORATORIES
23 N. Main Street-Fairport, New York 14450 - 716 / 425 - 2210

Client: Taylor Instrument

Page 2 (Cont'd)

Date Received : 3-13-85
Laboratory No. : 85-03-096
Purchase Order No.:
Report Date : 3-29-85
Auth. Signature :
Lab Director : Alan J. Laffin

Sample Identification:

K. Field BLK
L. Rinse Water after 0-0
M.
N.
O.
P.
Q.
R.
S.
T.

Comments:

Parameters	K.	L.	M.	N.	O.	P.	Q.	R.	S.	T.
Hg	<0.0002	<0.0002	---							

Note: All results expressed in Mg/L unless noted otherwise.

Analysis Comments:

Nixon, Hargrave, Devans & Doyle
Attorneys and Counselors at Law
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS
LINCOLN FIRST TOWER
POST OFFICE BOX 1051
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(202) 842-3600

SUITE 510
FIRST NATIONAL BANK OF PALM BEACH BUILDING
1001 U.S. HIGHWAY ONE
JUPITER, FLORIDA 33458
(305) 746-1002

January 25, 1985

Paul Schmied
Regional Engineer
New York State Department
of Environmental Conservation
Region 8
6274 East Avon-Lima Road
Avon, New York 14414

Re: Results of Fourth Quarter
Sampling - Taylor Instrument

Dear Paul:

Enclosed please find the results of the fourth quarter groundwater sampling for 1984 for Taylor Instrument's Ames Street site in Rochester. This data is relatively consistent with past data on mercury levels at the site although the mercury level at Well 0-0 is once again high. Since this is the presumed center of the contamination, the high levels are not unexpected since the remedial plan has significantly cut down on the amount of infiltration entering the ground which, in turn, would tend to dilute mercury levels. As I indicated in my December 19, 1984 letter to you, the laboratory included quality assurance/quality control data with its report.

If you would like to discuss the enclosed results, please do not hesitate to contact either Libby Ford or myself.

Very truly yours,

G. Robert Witmer, Jr., P.C.

GRW/jc
cc: Larry Blue

Groundwater std. .002 mg/l

LOZIER LABORATORIES
23 N. Main Street-Fairport, New York 14450 - 716 / 425 - 2210

Sample Identification:

A. LY - 1
B. LY - 2
C. LY - 3
D. LY - 4
E. Well - 2
F. Well - 5
G. Well - D-0
H. Well - 0-0
I. PZ - 2 Shallow
J. PZ - 2 Deep

Comments:

Client: Taylor Instrument
95 Ames Street
Rochester, New York 14601

Attn : Larry Blue

Date Received : 12-18-84
Laboratory No. : 84-12-545
Purchase Order No.:
Report Date : 1-9-85
Auth. Signature : Alan J. Laffin
Lab Director : Alan J. Laffin

Parameters	A	B	C	D	E	F	G	H	I	J
Mercury , Hg	0.003	< 0.002	< 0.002	N.S.	< 0.002	< 0.002	< 0.002	> 0.038	<0.002	< 0.002
Depth of Water										
Before Purge 12/17	- - -	- - -	- - -	- - -	8.90'	7.91'	7.12'	10.17'	8.71'	11.86'
After Sample12/18	- - -	- - -	- - -	- - -	8.86'	8.11'	7.17'	10.13'	8.76'	13.27'

Note: **All results expressed in Mg/L unless noted otherwise.**

Analysis Comments: N.S. = no sample

Sample H " Well 0-0 " will be quantified

LOZIER LABORATORIES
23 N. Main Street-Fairport, New York 14450 - 716/425-2210

Sample Identification:

A. Field Blank
B. Wash Before Well 0-0
C.
D.
E.
F.
G.
H.
I.
J.

Comments:

Client:
Taylor Instrument

Attn : Larry Blue

Date Received : 12-18-84
Laboratory No. : 84-12-545
Purchase Order No.:
Report Date : 1-9-85
Auth. Signature :
Lab Director : Alan J. Laffin

Parameters	A	B	C	D	E	F	G	H	I	J
Mercury, Hg	<0.002	< 0.002								

Note: All results expressed in Mg/L unless noted otherwise.

Analysis Comments:

[2504z 6-27-84]

LOZIER
LABORATORIES
23 N. MAIN STREET • FAIRPORT, NEW YORK 14450 • 716-425-2210

Mercury Analysis

1-9-85

Quality Control Report

Sample I.D.	True Value	95 % Confidence Interval	Lozier Value
WS # 13	1.4	1.0 - 1.7	< 2.0
WP # 1	0.7	0.3 - 1.1	< 2.0
WP # 2	8.7	5.9 -11.1	10.4
WP # 5	3.5	1.6 - 5.0	< 2.0
WP # 6	8.0	4.0 -11.0	6.6
EP TOX #1	50.0	80 % Recovery	40.6
EP TOX #2	300	97 % Recovery	290

Taylor Sample	Lozier Analysis	Duplicate Analysis	Spike Recovery
PZ - 2S	< 2.0	< 2.0	98.6 %
LY - 3	< 2.0	< 2.0	95.3 %

All results are reported in ppb, ug/l

Affiliated with:
LOZIER ARCHITECTS/ENGINEERS • 600 PERINTON HILLS • FAIRPORT, NEW YORK 14450 • 716-223-7610