

**MALCOLM
PIRNIE**

Copy 1

VOLUME 1

Appendices A, B.1 through B.4

**REMEDIAL ACTION
FINAL ENGINEERING REPORT**

**COLUMBUS McKINNON CORPORATION
TONAWANDA, NEW YORK**

AUGUST 1995

RECEIVED
SEP 06 1995
N.Y.S. DEPT. OF
ENVIRONMENTAL CONSERVATION
REGION 9

MALCOLM PIRNIE, INC.

**S-3515 Abbott Road
P. O. Box 1938
Buffalo, New York 14219**

**APPENDIX A
LIMITATIONS**

APPENDIX A

LIMITATIONS

1. This Construction Monitoring Report was prepared by Malcolm Pirnie, Inc., in connection with the referenced Order on Consent and its contract with Columbus McKinnon for the exclusive use of Columbus McKinnon, and applies specifically to the remedial site cleanup activities at the Tonawanda facility observed by Malcolm Pirnie personnel.
2. The observations and monitoring described in this report were made under the conditions stated. Conclusions made in this report were based on these observations and from data obtained from field and laboratory tests. Variations in soil or sediment properties between test locations may occur.
3. Topographic and property line survey measurements were made by the Contractor's surveyor. Malcolm Pirnie, Inc. did not verify the accuracy of this data.

APPENDIX B

LABORATORY TEST RESULTS

- Appendix B1 - Concrete**
- Appendix B2 - Soils**
- Appendix B3 - Coring Methodology and Sampling Results**
- Appendix B4 - Creek Sediment Sampling Results**
- Appendix B5 - Water Treatment System**
- Appendix B6 - Dewatering/Water Treatment System Secondary Containment System Primary Liner**
- Appendix B7 - Drum Sampling**

APPENDIX B1

CONCRETE

**General
Testing
Corporation**

A Full Service Environmental Laboratory

OCT. 5 1994

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Thomas Forbes

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 09/30/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger KB

Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

LABORATORY REPORT

Job No: R94/03621

Date: OCT. 5 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 09/29/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg

Sample:		-001	-002	-003				
Location:		RB7B	RB44	LAB				
				BLANK				
Date Collected:		09/28/94	09/28/94	--				
Time Collected:	PQL	10:10	10:10	--				
Date Extracted:		09/29/94	09/29/94	09/29/94				
Date Analyzed:		09/30/94	09/30/94	09/29/94				
Dilution:		1	1	1				
PCB 1016	250	250 U	250 U	250 U				
PCB 1221	250	250 U	250 U	250 U				
PCB 1232	250	250 U	250 U	250 U				
PCB 1242	250	250 U	250 U	250 U				
PCB 1248	250	250 U	250 U	250 U				
PCB 1254	250	500	250 U	250 U				
PCB 1260	250	250 U	250 U	250 U				
Surrogate Standard Recovery								
Tetrachloro-meta-xylene		100	102	121				
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael E. Perry
Laboratory Director

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03621 -002

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1254	2000	0	1500	75	29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1254	2000	1800	90	18	30	29-131

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

LABORATORY REPORT

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03621

Date: 5 OCT., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 09/29/94 Date Analyzed: 09/30/94			
PCB 1254	2000	80	8 - 127

Michael F. Perry
Laboratory Director

**General
Testing
Corporation**



A Full Service Environmental Laboratory

OCT. 5 1994

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Thomas Forbes

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 09/16/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger
Customer Service Representative

Enc.



Effective 10/1/91

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(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
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- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

LABORATORY REPORT

Job No: R94/03471

Date: OCT. 5 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 09/15/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg

Sample:		-001	-002						
Location:		CONCRETE	LAB						
		SLAB	BLANK						
Date Collected:		09/15/94	--						
Time Collected:	PQL	09:15	--						
Date Extracted:		09/16/94	09/16/94						
Date Analyzed:		09/16/94	09/16/94						
Dilution:		1	1						
PCB 1016	250	250 U	250 U						
PCB 1221	250	250 U	250 U						
PCB 1232	250	250 U	250 U						
PCB 1242	250	250 U	250 U						
PCB 1248	250	250 U	250 U						
PCB 1254	250	250 U	250 U						
PCB 1260	250	250 U	250 U						
Surrogate Standard Recovery									
Tetrachloro-meta-xylene		125	118						
(Acceptance Limits: 60-150%)									

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael A. Pirnie

Laboratory Director

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03471 -001

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC
PCB 1254	2000	0	2500	125	29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1254	2000	2500	125	0	30	29-131

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

LABORATORY REPORT

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03471

Date: 5 OCT., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

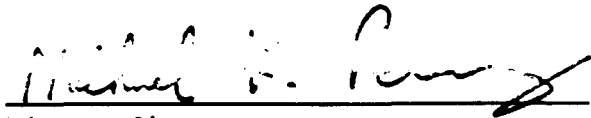
Date Extracted: 09/16/94
Date Analyzed: 09/16/94

PCB 1254

2000

120

29 - 131


Laboratory Director

APPENDIX B2

SOILS

APPENDIX B.2

COLUMBUS McKINNON
REMEDIAL SITE CLEANUP PROJECT

STUDY AREA SOIL SAMPLING ANALYSIS RESULTS (PPM)

Grid	Sample Series*						
	1	2	3	4	5	6	7
PUS-1	110						
PUS-2	2.3						
PUS-2	2.4						
PUS-2	1.7						
PUS-2A	42						
PUS-3	52						
L-1	3.2						
L-2	20	25	U				
L-3	U						
L-4	58	1.8					
L-5	2.3						
L-6	94	3.5					
L-7	1.5						
L-8	4						
L-9	23	88	493	<1.0			
L-10	U						
L-11	15	U					
L-12	150	7.6					
L-13	140	1.7					
L-14	180	36	U				
L-15	160	140	270	1.82			
L-16	U						
L-17	U						
L-18	3.1						
L-19	43	U					

APPENDIX B.2

COLUMBUS McKINNON
REMEDIAL SITE CLEANUP PROJECT

STUDY AREA SOIL SAMPLING ANALYSIS RESULTS (PPM)

Grid	Sample Series [*]						
	1	2	3	4	5	6	7
L-20	59	3.2					
L-21	36	U					
L-22	590	65	38	109	<1.0		
L-23	U						
L-24	3.2						
L-25	U						
L-26	65	U					
L-27	0.45						
L-28	6.2						
L-29	1600	6.7					
L-30	15	14.3	U				
L-31	U						
L-32	2.3						
L-33	36	1.4					
L-34	42	18	110	3.69			
L-35	120	43	1.9				
L-36	33	2.5					
L-37	U						
L-38	9.3						
L-39	U						
L-40	2.8						
L-41	5.7						
L-42	12	1.7					
L-43	26	2.8					
L-44	U						

APPENDIX B.2

COLUMBUS McKINNON
REMEDIAL SITE CLEANUP PROJECT

STUDY AREA SOIL SAMPLING ANALYSIS RESULTS (PPM)

Grid	Sample Series*						
	1	2	3	4	5	6	7
L-45	U						
L-46	U						
L-47	9.7						
L-48	4						
L-49	2.5						
L-50	U						
L-51	U						
L-52	17	7.2					
L-53	10	12	19	18.8	59.2	15.8	<1.0
L-54	U						
L-55	0.93						
L-56	2						
L-57	4.6						
L-58	121	144	23	14.6	4.1		
L-59	2.5						
L-60	3.98						
L-61	41.5	1.14					

*Notes:**U - undetected.**PUS - Possibly uncontaminated soils placed in soil bags, those less than 10 ppm used as general backfill, remainder transported off-site to landfill.**Clean up goal less than 1.0 mg/kg.*** Sample series represents sequential sampling of grid following re-excavation.*

**General
Testing
Corporation**

A Full Service Environmental Laboratory

OCT. 5 1994

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Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

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Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

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- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

LABORATORY REPORT

Job No: R94/03707

Date: OCT. 5 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 09/30/94

P.O. #:

ANALYTICAL UNITS - %

Sample:	-001								
Location:	PUS-3								
	AREA 3								
Date Collected:	09/30/94								
Time Collected:	10:30								

Date Analyzed:	09/30/94								
Solids, %	83.1								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael W. Perry
Laboratory Director

LABORATORY REPORT

Job No: R94/03707

Date: OCT. 5 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 09/30/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002						
Location:		PUS-3	LAB						
		AREA 3	BLANK						
Date Collected:		09/30/94	--						
Time Collected:	PQL	10:30	--						
Date Extracted:		09/30/94	09/30/94						
Date Analyzed:		10/03/94	10/01/94						
Dilution:		10	1						
PCB 1016	250	3000 U	250 U						
PCB 1221	250	3000 U	250 U						
PCB 1232	250	3000 U	250 U						
PCB 1242	250	3000 U	250 U						
PCB 1248	250	3000 U	250 U						
PCB 1254	250	52000	250 U						
PCB 1260	250	3000 U	250 U						
Surrogate Standard Recovery									
Tetrachloro-meta-xylene		126	104						
(Acceptance Limits: 60-150%)									

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03621 -002

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1254	2000	0	1500	75	29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1254	2000	1800	90	18	30	29-131

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

LABORATORY REPORT

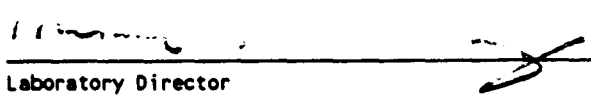
Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03707

Date: 5 OCT., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 09/29/94 Date Analyzed: 09/30/94			
PCB 1254	2000	80	8 - 127


Laboratory Director

**General
Testing
Corporation**

A Full Service Environmental Laboratory

OCT. 11 1994

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Thomas Forbes

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Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger /KB

Janice Jaeger
Customer Service Representative

Enc.



Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
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- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/03724

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples was extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene was within QC limits for all samples.

The PCB matrix spike/matrix spike duplicate recoveries on sample R94/03724-001 were flagged "NC" not calculated, since the amount of PCB 1254 detected in the sample was 20 times greater than the spiked amount. The Precision data was flagged with an "*" since the % RPD from the MS/MSD was outside of advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Sample R94/03724-001 was analyzed at a 1/10 dilution to bring target analytes within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

Michael K. _____
Laboratory Director

LABORATORY REPORT

Job No: R94/03724

Date: OCT. 11 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/03/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004			
Location:		S890-48	BH-34	PUS-2	LAB			
		S-1	S-1	061-070	BLANK			
Date Collected:		09/30/94	09/30/94	10/03/94	--			
Time Collected:	PQL	14:45	14:45	08:30	--			
Date Extracted:		10/03/94	10/03/94	10/03/94	10/03/94			
Date Analyzed:		10/03/94	10/03/94	10/03/94	10/03/94			
Dilution:		10	1	1	1			
PCB 1016	250	3100 U	300 U	300 U	250 U			
PCB 1221	250	3100 U	300 U	300 U	250 U			
PCB 1232	250	3100 U	300 U	300 U	250 U			
PCB 1242	250	3100 U	300 U	300 U	250 U			
PCB 1248	250	3100 U	300 U	300 U	250 U			
PCB 1254	250	38000	330	2300	250 U			
PCB 1260	250	3100 U	300 U	300 U	250 U			
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)		140	114	111	105			

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
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Michael K. Long

Laboratory Director

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03724 -001

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1254	2000	38000	42000	NC	29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1254	2000	23000	NC	58*	30 29-131

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 1 out of 1 outside limits

Spike Recovery: 0 out of 0 outside limits

COMMENTS: NA= NOT ADDED

LABORATORY REPORT

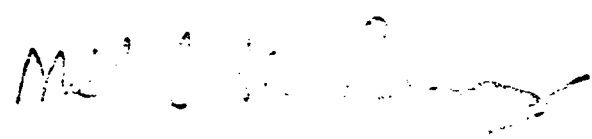
Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03724

Date: 11 OCT., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 10/03/94 Date Analyzed: 10/03/94			
PCB 1254	2000	105	8 - 127



Laboratory Director

CHAIN OF CUSTODY RECORD

1001
1002
1003

**General
Testing
Corporation**

A Full Service Environmental Laboratory

OCT. 11 1994

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Malcolm Pirnie, Inc.
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GENERAL TESTING CORPORATION

Janice Jaeger /KB

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Customer Service Representative

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- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
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- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/03748

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples was extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene was within QC limits for all samples.

The PCB matrix spike/matrix spike duplicate recoveries and the Precision data on sample R94/03748-001 were within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Sample R94/03748-003 was analyzed at a 1/10 dilution to bring target analytes within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.



LABORATORY REPORT

Date: OCT. 11 1994

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

P.O. #:

Laboratory Director

LABORATORY REPORT

Job No: R94/03748

Date: OCT. 11 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/04/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004				
Location:		PUS-2 BAGS	PUS-2 BAGS	PUS-2BAGS	LAB				
		071-080	081-089	090-094	BLANK				
Date Collected:		10/03/94	10/03/94	10/03/94	--				
Time Collected:	PQL	14:00	14:00	14:00	--				
Date Extracted:		10/04/94	10/04/94	10/04/94	10/04/94				
Date Analyzed:		10/04/94	10/05/94	10/04/94	10/04/94				
Dilution:		1	1	10	1				
PCB 1016	250	290 U	300 U	3200 U	250 U				
PCB 1221	250	290 U	300 U	3200 U	250 U				
PCB 1232	250	290 U	300 U	3200 U	250 U				
PCB 1242	250	290 U	300 U	3200 U	250 U				
PCB 1248	250	290 U	300 U	3200 U	250 U				
PCB 1254	250	2400	1700	42000	250 U				
PCB 1260	250	290 U	300 U	3200 U	250 U				
Surrogate Standard Recovery									
Tetrachloro-meta-xylene		112	106	131	113				
(Acceptance Limits: 60-150%)									

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801



Laboratory Director

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03748

Date: 11 OCT., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 10/04/94 Date Analyzed: 10/04/94			
PCB 1254	2000	95	8 - 127

Michael K. Perry

Laboratory Director

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03748 -001

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1254	2500	2400	3800	70	29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1254	2500	3500	55	8	30	29-131

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

PD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]

**General
Testing
Corporation**

A Full Service Environmental Laboratory

OCT. 14 1994

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Thomas Forbes

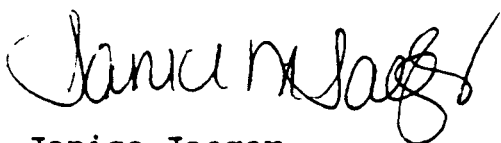
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/07/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected.
The sample quantitation limit must be corrected for
dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see
case narrative / cover letter.
- B - This flag is used when the analyte is found in the
associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed
the calibration range and reanalysis could not be
performed.
- A - This flag indicates that a TIC is a suspected aldol-
condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits.
(Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard
Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/03779

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene was within QC limits for all samples.

The PCB matrix spike/matrix spike duplicate recoveries on sample R94/03779-001 were flagged "NC" not calculated, since the amount of PCB 1254 detected in the sample was 6 times greater than the spiked amount. The Precision data was within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Samples R94/03779-001, 003, and 006 were analyzed at 1/10 dilutions to bring target analytes within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/03779

Date: OCT. 14 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 10/06/94

P.O. #:

ANALYTICAL UNITS - %

Sample:	-001	-002	-003	-004	-005	-006		
Location:	SB90-48	L-62	L-2	L-1	L-3	L-4		
Date Collected:	10/05/94	10/05/94	10/05/94	10/05/94	10/05/94	10/05/94		
Time Collected:	14:05	14:30	14:30	15:30	15:30	15:30		
Date Analyzed:	10/06/94	10/06/94	10/06/94	10/06/94	10/06/94	10/06/94		
Solids, %	92.9	75.5	81.2	86.0	82.4	74.6		

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry
Laboratory Director

LABORATORY REPORT

Job No: R94/03779

Date: OCT. 14 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/06/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		SB90-48	L-62	L-2	L-1	L-3	L-4	LAB
Date Collected:		10/05/94	10/05/94	10/05/94	10/05/94	10/05/94	10/05/94	--
Time Collected:	PQL	14:05	14:30	14:30	15:30	15:30	15:30	--
Date Extracted:		10/06/94	10/06/94	10/06/94	10/06/94	10/06/94	10/06/94	10/06/94
Date Analyzed:		10/06/94	10/06/94	10/07/94	10/06/94	10/06/94	10/07/94	10/06/94
Dilution:		10	1	10	1	1	10	1
PCB 1016	250	2700 U	330 U	3100 U	290 U	300 U	3300 U	250 U
PCB 1221	250	2700 U	330 U	3100 U	290 U	300 U	3300 U	250 U
PCB 1232	250	2700 U	330 U	3100 U	290 U	300 U	3300 U	250 U
PCB 1242	250	2700 U	330 U	3100 U	290 U	300 U	3300 U	250 U
PCB 1248	250	2700 U	330 U	3100 U	290 U	300 U	3300 U	250 U
PCB 1254	250	12000	2500	20000	3200	300 U	58000	250 U
PCB 1260	250	2700 U	330 U	3100 U	290 U	300 U	3300 U	250 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)		103	96	116	98	94	112	97

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03779 -001

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1254	2000	12000	15000	V	29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1254	2000	14000	V	7	30	29-131

V = Spiked too low

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

PD: __0__ out of __1__ outside limits

Spike Recovery: __0__ out of __2__ outside limits

COMMENTS: _____

LABORATORY REPORT

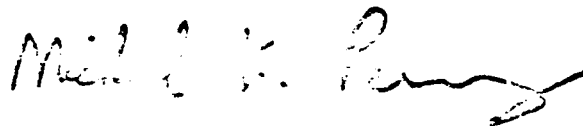
Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03779

Date: 14 OCT., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 10/06/94 Date Analyzed: 10/06/94			
PCB 1254	2000	105	8 - 127



Laboratory Director

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]

**General
Testing
Corporation**

A Full Service Environmental Laboratory

OCT. 18 1994

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Thomas Forbes

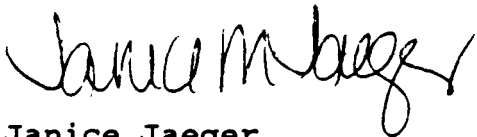
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/11/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected.
The sample quantitation limit must be corrected for
dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see
case narrative / cover letter.
- B - This flag is used when the analyte is found in the
associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed
the calibration range and reanalysis could not be
performed.
- A - This flag indicates that a TIC is a suspected aldol-
condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits.
(Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard
Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/03827

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene was within QC limits for all samples.

The PCB matrix spike/matrix spike duplicate recoveries on sample R94/03779-001 were flagged "NC" not calculated, since the amount of PCB 1254 detected in the sample was 6 times greater than the spiked amount. The Precision data was within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Samples R94/03827-001, 002, and 003 were analyzed at 1/10 dilutions and sample -006 at a 1/20 dilution to bring target analytes within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/03827

Date: OCT. 18 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 10/10/94

P.O. #:

ANALYTICAL UNITS - %

Sample:	-001	-002	-003	-004	-005	-006	-007
Location:	S890-48	L-2	L-9	L-8	L-7	L-6	L-5
Date Collected:	10/10/94	10/10/94	10/10/94	10/10/94	10/10/94	10/10/94	10/10/94
Time Collected:	09:40	09:38	10:00	10:00	10:20	10:20	10:55
Date Analyzed:	10/10/94	10/10/94	10/10/94	10/10/94	10/10/94	10/10/94	10/10/94
Solids, %	93.5	79.6	87.2	77.4	84.0	82.9	82.8

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael J. [Signature]

Laboratory Director

LABORATORY REPORT

Job No: R94/03827

Date: OCT. 18 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/10/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		S890-48	L-2	L-9	L-8	L-7	L-6	L-5
Date Collected:		10/10/94	10/10/94	10/10/94	10/10/94	10/10/94	10/10/94	10/10/94
Time Collected:	PQL	09:40	09:38	10:00	10:00	10:20	10:20	10:55
Date Extracted:		10/10/94	10/10/94	10/10/94	10/10/94	10/10/94	10/10/94	10/10/94
Date Analyzed:		10/10/94	10/10/94	10/10/94	10/10/94	10/10/94	10/11/94	10/11/94
Dilution:		10	10	10	1	1	20	1
PCB 1016	250	2700 U	3100 U	2900 U	320 U	300 U	6000 U	300 U
PCB 1221	250	2700 U	3100 U	2900 U	320 U	300 U	6000 U	300 U
PCB 1232	250	2700 U	3100 U	2900 U	320 U	300 U	6000 U	300 U
PCB 1242	250	2700 U	3100 U	2900 U	320 U	300 U	6000 U	300 U
PCB 1248	250	2700 U	3100 U	2900 U	320 U	300 U	6000 U	300 U
PCB 1254	250	11000	25000	23000	4000	1500	94000	2300
PCB 1260	250	2700 U	3100 U	2900 U	320 U	300 U	6000 U	300 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)		122	137	130	103	106	126	106

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael H. [Signature]

Laboratory Director

LABORATORY REPORT

Job No: R94/03827

Date: OCT. 18 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/10/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008							
Location:		LAB							
		BLANK							
Date Collected:		--							
Time Collected:	PQL	--							
Date Extracted:		10/10/94							
Date Analyzed:		10/10/94							
Dilution:		1							
PCB 1016	250	250 U							
PCB 1221	250	250 U							
PCB 1232	250	250 U							
PCB 1242	250	250 U							
PCB 1248	250	250 U							
PCB 1254	250	250 U							
PCB 1260	250	250 U							
Surrogate Standard Recovery									
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)		105							

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Malcolm Pirnie

Laboratory Director

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03779 -001

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1254	2000	12000	15000	V	29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1254	2000	14000	V	7	30	29-131

V = Spiked too low

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

PD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

LABORATORY REPORT

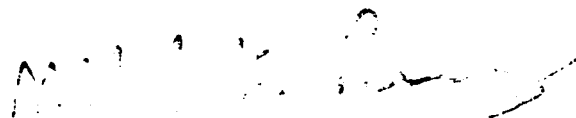
Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03827

Date: 18 OCT., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 10/06/94 Date Analyzed: 10/07/94			
PCB 1254	2000	105	8 - 127



Laboratory Director

R94/3827

94/10-000056

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4					SITE NAME: Columbus McKinnon Tona. Fac.		NO. OF CON- TAINERS	4 02.9 lbs						REMARKS
SAMPLERS (SIGNATURE): Kenneth Kots														
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION									
529 001	10/10/94	0940		✓	S-90-48 el. 570.5	S-3 018	2						Analyze for PCB's method 8080	
530 002		0938		✓	L-2 el. 572.0	S-2 017	2							
531 003		1000		✓	L-9 el. 566.6	S-1 019	2							
532 004		1000		✓	L-8 el. 567.5	S-1 020	2							
533 005		1020		✓	L-7 el. 568.0	S-1 021	2							
534 006		1020		✓	L-6 el. 571.2	S-1 022	2							
535 007	10/10/94	1055		✓	L-5 el. 573.9	S-1 023	2						Analyze for PCB's method 8080	
RELINQUISHED BY (SIGNATURE): Kenneth Kots			DATE/TIME: 10/10/94 1200		RECEIVED BY (SIGNATURE): K. Wagner			RELINQUISHED BY (SIGNATURE): K. Wagner			DATE/TIME: 10/10/94 1245		RECEIVED BY (SIGNATURE): Chick Greney	
RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED BY (SIGNATURE):			RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED BY (SIGNATURE):	
RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE): Tom Nading			DATE/TIME: 10/10/94 1450		REMARKS:				

Distribution: Original accompanies shipment, copy to coordinator field files

General
Testing
Corporation



A Full Service Environmental Laboratory

OCT. 20 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/13/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/03850

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples on which it could be quantitated. The recovery for TCMX on samples R94/03850-003, 004, 005, and 006 was flagged with a "D" because it was diluted out due to the level of PCB detected.

The PCB matrix spike/matrix spike duplicate recoveries on sample R94/03850-006 were flagged "NC" not calculated, since the amount of PCB 1254 detected in the sample caused the PCB 1260 spiked into the sample to be diluted out. The Precision data was within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Sample R94/03850-002 was analyzed at 1/10 dilution and samples R94/03850-003, 004, 005, and 006 were analyzed at a 1/50 dilution to bring PCB 1254 within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/03850

Date: OCT. 20 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 10/12/94

P.O. #:

ANALYTICAL UNITS - %

Sample:	-001	-002	-003	-004	-005	-006		
Location:	L-10	L-11	L-12	L-13	L-14	L-15		
Date Collected:	10/11/94	10/11/94	10/11/94	10/11/94	10/11/94	10/11/94		
Time Collected:	13:20	13:20	13:23	13:23	13:30	13:30		
Date Analyzed:	10/12/94	10/12/94	10/12/94	10/12/94	10/12/94	10/12/94		
Solids, %	80.5	71.6	87.2	75.4	82.7	80.3		

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael E. Perry

Laboratory Director

LABORATORY REPORT

Job No: R94/03850

Date: OCT. 20 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/12/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		L-10	L-11	L-12	L-13	L-14	L-15	LAB
Date Collected:		10/11/94	10/11/94	10/11/94	10/11/94	10/11/94	10/11/94	--
Time Collected:	PQL	13:20	13:20	13:23	13:23	13:30	13:30	--
=====								
Date Extracted:		10/12/94	10/12/94	10/12/94	10/12/94	10/12/94	10/12/94	10/12/94
Date Analyzed:		10/13/94	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94
Dilution:		1	10	50	50	50	50	1
=====								
PCB 1016	250	310 U	3500 U	14000 U	17000 U	15000 U	16000 U	250 U
PCB 1221	250	310 U	3500 U	14000 U	17000 U	15000 U	16000 U	250 U
PCB 1232	250	310 U	3500 U	14000 U	17000 U	15000 U	16000 U	250 U
PCB 1242	250	310 U	3500 U	14000 U	17000 U	15000 U	16000 U	250 U
PCB 1248	250	310 U	3500 U	14000 U	17000 U	15000 U	16000 U	250 U
PCB 1254	250	310 U	15000	150000	140000	180000	160000	250 U
PCB 1260	250	310 U	3500 U	14000 U	17000 U	15000 U	16000 U	250 U
=====								
Surrogate Standard Recovery								
Tetrachloro-meta-xylene		109	138	D	D	D	D	106
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03850 -006

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1254	----	160000	150000	--	29-131
PCB 1260	2500	16000 U	16000 U	NC	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1254	----	170000	---	13	30	29-131
PCB 1260	2500	16000 U	NC	0	30	8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

LABORATORY REPORT

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03850

Date: 20 OCT., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

Date Extracted: 10/12/94
Date Analyzed: 10/13/94

PCB 1260

2000

120

8-127

Michael K. Perry

Laboratory Director

44-10-000086

CHAIN OF CUSTODY RECORD

Distribution Original accompanies shipment. copy to coordinator field files

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 1 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

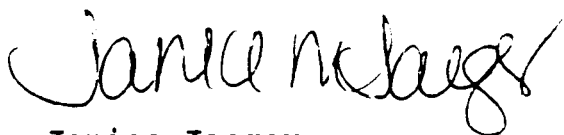
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/14/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.



Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/03859

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples on which it could be quantitated. The recovery for TCMX on sample R94/03859-003 was flagged with a "D" because it was diluted out due to the level of PCB detected.

The PCB matrix spike/matrix spike duplicate recoveries for PCB 1260 on sample R94/03898-007 were flagged "D", since the amount of PCB 1254 detected in the sample caused the PCB 1260 spiked into the sample to be diluted out. The Precision data was within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/03859

Date: NOV. 1 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 10/13/94

P.O. #:

ANALYTICAL UNITS - 8

[illegible]

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

Job No: R94/03859

Date: NOV. 1 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/13/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004				
Location:		L-2	L-6	SB90-48	LAB				
					BLANK				
Date Collected:		10/12/94	10/12/94	10/12/94	--				
Time Collected:	PQL	14:55	14:55	15:10	--				
=====									
Date Extracted:		10/13/94	10/13/94	10/13/94	10/14/94				
Date Analyzed:		10/13/94	10/14/94	10/14/94	10/14/94				
Dilution:		1	1	1	1				
PCB 1016	250	300 U	300 U	300 U	250 U				
PCB 1221	250	300 U	300 U	300 U	250 U				
PCB 1232	250	300 U	300 U	300 U	250 U				
PCB 1242	250	300 U	300 U	300 U	250 U				
PCB 1248	250	300 U	300 U	300 U	250 U				
PCB 1254	250	300 U	3500	300 U	250 U				
PCB 1260	250	300 U	300 U	300 U	250 U				
Surrogate Standard Recovery									
Tetrachloro-meta-xylene		106	105	106	106				
(Acceptance Limits: 60-150%)									

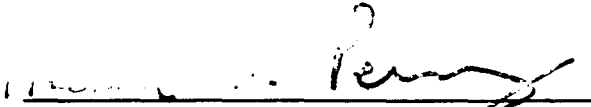
Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801


Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03898 -007

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1260 PCB 1254	2000 --	180000 U 1600000	180000 U 2200000	D --	8-127 29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1260 PCB 1254	2000 --	180000 U 2500000	D --	NC 13	30 30	8-127 29-131

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 2 outside limits

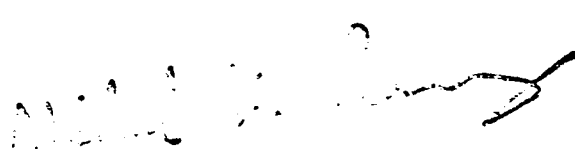
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

Client:
Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03898
Date: 1 NOV., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 10/17/94 Date Analyzed: 10/18/94			
PCB 1260	2000	125	8 - 127


Laboratory Director

CHAIN OF CUSTODY RECORD

670
679
680

**General
Testing
Corporation**



A Full Service Environmental Laboratory

OCT. 20 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/14/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/03876

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples. The recovery for TCMX on sample R94/03876-001 was flagged with a "D" because it was diluted out due to the level of PCB detected.

The PCB matrix spike/matrix spike duplicate recoveries on sample R94/03898-007 were flagged "NC" not calculated, since the amount of PCB 1254 detected in the sample was 800 times greater than the spiked amount. The Precision data was within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Samples R94/03876-002, 003, and 004 were analyzed at 1/10 dilutions and sample R94/03876-001 was analyzed at a 1/100 dilution to bring target analytes within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/03876

Date: OCT. 25 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 10/13/94

P.O. #:

[illegible]

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

LABORATORY REPORT

Job No: R94/03876

Date: OCT. 20 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/13/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005		
Location:		S-1 033	S-1 033	S-1 033	S-1 033	LAB		
		L-22	L-21	L-20	L-19	BLANK		
Date Collected:		10/13/94	10/13/94	10/13/94	10/13/94	--		
Time Collected:	PQL	10:20	10:20	10:30	10:30	--		
Date Extracted:		10/14/94	10/14/94	10/14/94	10/14/94	10/14/94		
Date Analyzed:		10/14/94	10/14/94	10/14/94	10/14/94	10/14/94		
Dilution:		100	10	10	10	1		
PCB 1016	250	32000 U	3200 U	3500 U	4300 U	250 U		
PCB 1221	250	32000 U	3200 U	3500 U	4300 U	250 U		
PCB 1232	250	32000 U	3200 U	3500 U	4300 U	250 U		
PCB 1242	250	32000 U	3200 U	3500 U	4300 U	250 U		
PCB 1248	250	32000 U	3200 U	3500 U	4300 U	250 U		
PCB 1254	250	590000	36000	59000	43000	250 U		
PCB 1260	250	32000 U	3200 U	3500 U	4300 U	250 U		
Surrogate Standard Recovery								
Tetrachloro-meta-xylene		0	133	125	121	104		
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

.....

REPORT TYPE: RUN

*Before Dilution
 **Reference Check samples are not available for all analyses.
 ++Outside Limits
 V = Spiked too low

V = Spiked too low

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03898 -007

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1254	2000	1600000	2200000	NC	29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1254	2000	2500000	NC	13	30	29-131

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

Client:
Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03898
Date: 25 OCT., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 10/17/94 Date Analyzed: 10/18/94			
PCB 1260	2000	125	8 - 127

Michael K. Perry

Laboratory Director

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 1 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

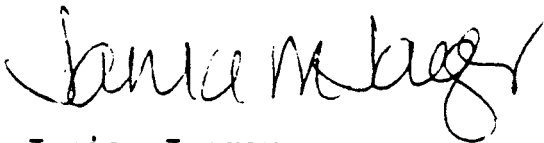
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/17/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/03893

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB matrix spike/matrix spike duplicate recoveries for PCB 1260 on sample R94/03898-007 were flagged "D", since the amount of PCB 1254 detected in the sample caused the PCB 1260 spiked into the sample to be diluted out. The Precision data was within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/03893

Date: NOV. 2 1994

Client:

Sample(s) Reference:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Columbus McKinnon

Received

: 10/14/94

P.O. #:

ANALYTICAL UNITS - 8

[illegible]

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael J. Perry
Laboratory Director

LABORATORY REPORT

Job No: R94/03893

Date: NOV. 2 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/14/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004			
Location:		L18	L17	L16	LAB			
					BLANK			
Date Collected:		10/14/94	10/14/94	10/14/94	--			
Time Collected:	POL	08:50	08:55	09:00	--			
=====								
Date Extracted:		10/14/94	10/14/94	10/14/94	10/14/94			
Date Analyzed:		10/15/94	10/15/94	10/15/94	10/15/94			
Dilution:		1	1	1	1			
=====								
PCB 1016	250	300 U	300 U	300 U	250 U			
PCB 1221	250	300 U	300 U	300 U	250 U			
PCB 1232	250	300 U	300 U	300 U	250 U			
PCB 1242	250	300 U	300 U	300 U	250 U			
PCB 1248	250	300 U	300 U	300 U	250 U			
PCB 1254	250	3100	300 U	300 U	250 U			
PCB 1260	250	300 U	300 U	300 U	250 U			
=====								
Surrogate Standard Recovery								

Tetrachloro-meta-xylene		106	109	106	108			
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801


Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03898 -007

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1260	2000	180000 U	180000 U	D	8-127
PCB 1254	--	1600000	2200000	--	29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1260	2000	180000 U	D	NC	30 8-127
PCB 1254	--	2500000	--	13	30 29-131

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

LABORATORY REPORT

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03898

Date: 1 NOV., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

Date Extracted: 10/17/94

Date Analyzed: 10/18/94

PCB 1260

2000

125

8 - 127

Michael K. Ramsey

Laboratory Director

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 1 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

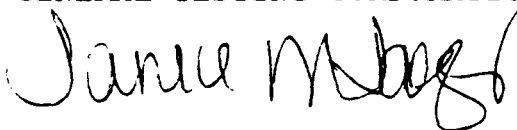
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/18/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/03898

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples on which it could be quantitated. The recovery for TCMX on sample R94/03898-007 was flagged with a "D" because it was diluted out due to the level of PCB detected.

The PCB matrix spike/matrix spike duplicate recoveries for PCB 1260 on sample R94/03898-007 were flagged "D", since the amount of PCB 1254 detected in the sample caused the PCB 1260 spiked into the sample to be diluted out. The Precision data was within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Sample R94/03898-004 was analyzed at 1/10 dilution and sample R94/03898-007 was analyzed at a 1/500 dilution to bring PCB 1254 within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/03898

Date: NOV. 1 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 10/17/94

P.O. #:

ANALYTICAL UNITS - 8

Sample:	-001	-002	-003	-004	-005	-006	-007
Location:	L-23	L-24	L-25	L-26	L-27	L-28	L-29
Date Collected:	10/15/94	10/15/94	10/15/94	10/15/94	10/15/94	10/15/94	10/15/94
Time Collected:	10:30	10:35	10:45	10:50	11:00	11:05	11:15

Date Analyzed:	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94
Solids, %	81.5	84.5	78.0	68.1	71.1	72.5	69.6

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

Job No: R94/03898

Date: NOV. 1 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/17/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		L-23	L-24	L-25	L-26	L-27	L-28	L-29
Date Collected:		10/15/94	10/15/94	10/15/94	10/15/94	10/15/94	10/15/94	10/15/94
Time Collected:		POL 10:30	10:35	10:45	10:50	11:00	11:05	11:15
Date Extracted:		10/17/94	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94
Date Analyzed:		10/17/94	10/17/94	10/17/94	10/18/94	10/17/94	10/17/94	10/17/94
Dilution:		1	1	1	10	1	1	500
PCB 1016	250	310 U	300 U	320 U	3700 U	350 U	350 U	180000 U
PCB 1221	250	310 U	300 U	320 U	3700 U	350 U	350 U	180000 U
PCB 1232	250	310 U	300 U	320 U	3700 U	350 U	350 U	180000 U
PCB 1242	250	310 U	300 U	320 U	3700 U	350 U	350 U	180000 U
PCB 1248	250	310 U	300 U	320 U	3700 U	350 U	350 U	180000 U
PCB 1254	250	310 U	3200	320 U	65000	450	6200	1600000
PCB 1260	250	310 U	300 U	320 U	3700 U	350 U	350 U	180000 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)		98	98	92	122	102	101	D

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Remy
Laboratory Director

LABORATORY REPORT

Job No: R94/03898

Date: NOV. 1 1994

Client:

Sample(s)	Reference
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
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23	23
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88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Columbus McKinnon

Received

: 10/17/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008
Location:		LAB
		BLANK
Collected:		--
Collected:	PQL	--

Date Extracted:		10/17/94
Date Analyzed:		10/17/94
Dilution:		1

PCB 1016	250	250 U
PCB 1221	250	250 U
PCB 1232	250	250 U
PCB 1242	250	250 U
PCB 1248	250	250 U
PCB 1254	250	250 U
PCB 1260	250	250 U

Surrogate Standard Recovery

Tetrachloro-meta-xylene		101
(Acceptance Limits: 60-150%)		

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Nicholas K. Perry
Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03898 -007

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1260	2000	180000 U	180000 U	D	8-127
PCB 1254	--	1600000	2200000	--	29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
PCB 1260	2000	180000 U	D	NC	30	8-127
PCB 1254	--	2500000	--	13	30	29-131

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

Client:
Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03898
Date: 1 NOV., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

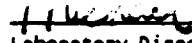
Date Extracted: 10/17/94
Date Analyzed: 10/18/94

PCB 1260

2000

125

8 - 127


Laboratory Director

K94/3898 // 94/10-00

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4					SITE NAME: Columbus McKinnon Tenn		NO. OF CONTAINERS	402 Glass Spm						REMARKS
SAMPLERS (SIGNATURE): <i>Michael J. [Signature]</i>														
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION									
-001	10/15/94	1030		K	L-23 EL. 572.7	S-1 040	2	2					Analyze for PCB's Method 8080	
-002		1035		K	L-24 EL. 569.6	S-1 041								
-003		1045		K	L-25 EL. 569.2	S-1 042								
-004		1050		K	L-26 EL. 568.4	S-1 043								
-005		1100		K	L-27 EL. 568.1	S-1 044								
-006		1105		K	L-28 EL. 567.6	S-1 045								
-007		1115		K	L-29 EL. 566.0	S-1 046								
RELINQUISHED BY (SIGNATURE): <i>Kenneth Kots</i>			DATE/TIME: 10/17/94 0945		RECEIVED BY (SIGNATURE): <i>C. McNamee</i>			RELINQUISHED BY (SIGNATURE): <i>C. McNamee</i>			DATE/TIME: 10/17/94 1030		RECEIVED BY (SIGNATURE): <i>Blue Comm</i>	
RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED BY (SIGNATURE):			RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED BY (SIGNATURE):	
RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE): <i>[Signature]</i>			DATE/TIME: 10/17 12:10		REMARKS:				

Distribution: Original accompanies shipment, copy to coordinator field files

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 1 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

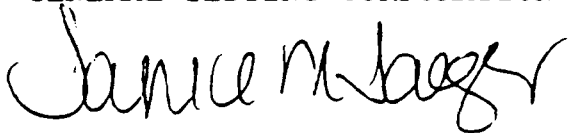
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/19/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.



- Effective 10/1/91

- GTC LIST OF QUALIFIERS

- (The basis of this proposal are the EPA-CLP Qualifiers)

-
- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
 - J - Indicates an estimated value. For further explanation see case narrative / cover letter.
 - B - This flag is used when the analyte is found in the associated blank as well as in the sample.
 - E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
 - A - This flag indicates that a TIC is a suspected aldol-condensation product.
 - N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
 - * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
 - M - Duplication injection precision not met (GFA only).
 - S - Reported value determined by Method of Standard Additions. (MSA)
 - X - As specified in the case narrative.
-
-
-
-
-

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/03920

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples on which it could be quantitated. The recovery for TCMX on sample R94/03920-006 was flagged with a "D" because it was diluted out due to the level of PCB detected.

The PCB matrix spike/matrix spike duplicate recoveries for PCB 1260 on sample R94/03898-007 were flagged "D", since the amount of PCB 1254 detected in the sample caused the PCB 1260 spiked into the sample to be diluted out. The Precision data was within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Samples R94/03920-001, 004, 005, and 007 were analyzed at 1/10 dilutions and sample R94/03920-006 was analyzed at a 1/50 dilution to bring PCB 1254 within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/03920

Date: NOV. 2 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 10/18/94

P.O. #:

ANALYTICAL UNITS - %

Sample:	-001	-002	-003	-004	-005	-006	-007
Location:	795	796	797	798	799	800	801
	L-30	L-31	L-32	L-33	L-34	L-35	L-36
Date Collected:	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94
Time Collected:	14:50	14:50	14:57	14:57	15:02	15:03	15:07
Date Analyzed:	10/18/94	10/18/94	10/18/94	10/18/94	10/18/94	10/18/94	10/18/94
Solids, %	81.2	85.6	84.6	78.2	77.6	66.3	73.7

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801


Laboratory Director

LABORATORY REPORT

Job No: R94/03920

Date: NOV. 2 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/18/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		795	796	797	798	799	800	801
		L-30	L-31	L-32	L-33	L-34	L-35	L-36
Date Collected:		10/17/94	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94
Time Collected:	PQL	14:50	14:50	14:57	14:57	15:02	15:03	15:07
=====								
Date Extracted:		10/18/94	10/18/94	10/18/94	10/18/94	10/18/94	10/18/94	10/18/94
Date Analyzed:		10/18/94	10/18/94	10/18/94	10/18/94	10/18/94	10/18/94	10/18/94
Dilution:		10	1	1	10	10	50	10
=====								
PCB 1016	250	3100 U	290 U	290 U	3200 U	3200 U	19000 U	3400 U
PCB 1221	250	3100 U	290 U	290 U	3200 U	3200 U	19000 U	3400 U
PCB 1232	250	3100 U	290 U	290 U	3200 U	3200 U	19000 U	3400 U
PCB 1242	250	3100 U	290 U	290 U	3200 U	3200 U	19000 U	3400 U
PCB 1248	250	3100 U	290 U	290 U	3200 U	3200 U	19000 U	3400 U
PCB 1254	250	15000	290 U	2300	36000	42000	120000	33000
PCB 1260	250	3100 U	290 U	290 U	3200 U	3200 U	19000 U	3400 U
=====								
Surrogate Standard Recovery								
Tetrachloro-meta-xylene		148	113	112	144	137	D	144
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

A Full Service Environmental Laboratory
LABORATORY REPORT

Job No: R94/03920

Date: NOV. 2 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/18/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:	-008
Location:	LAB
	BLANK
Date Collected:	--
Time Collected:	--

Date Extracted:	10/18/94
Date Analyzed:	10/18/94
Dilution:	1

PCB 1016	250	250 U
PCB 1221	250	250 U
PCB 1232	250	250 U
PCB 1242	250	250 U
PCB 1248	250	250 U
PCB 1254	250	250 U
PCB 1260	250	250 U

Surrogate Standard Recovery

Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)	111

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael R. Perry

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03898 -007

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1260	2000	180000 U	180000 U	D	8-127
PCB 1254	--	1600000	2200000	--	29-131

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1260	2000	180000 U	D	NC	30 8-127
PCB 1254	--	2500000	--	13	30 29-131

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

LABORATORY REPORT

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/03898

Date: 1 NOV., 1994

EPA METHOD 8080

REFERENCE CHECK

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

Date Extracted: 10/17/94
Date Analyzed: 10/18/94

PCB 1260

2000

125

8 - 127

Laboratory Director

7410-000129

CHAIN OF CUSTODY RECORD

[illegible]

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 10 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/21/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/03970

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB Matrix Spike/Matrix Spike Duplicate recoveries for PCB 1260 on sample R94/04030-001(L-12) and the Precision data from the MS/MSD were all within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Samples R94/03970-002, 006, and 007 were analyzed at dilutions to bring target analytes within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/03970

Date: NOV. 10 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 10/20/94

P.O. #:

ANALYTICAL UNITS - %

Sample:	-001	-002	-003	-004	-005	-006	-007
Location:	876	877	878	879	880	881	882
	L-37	L-38	L-39	L-40	L-41	L-42	L-43
Date Collected:	10/19/94	10/19/94	10/19/94	10/19/94	10/19/94	10/19/94	10/19/94
Time Collected:	13:30	13:35	13:40	13:45	13:55	14:00	14:05
Date Analyzed:	10/20/94	10/20/94	10/20/94	10/20/94	10/20/94	10/20/94	10/20/94
Solids, %	83.1	85.9	83.3	67.9	77.3	63.3	79.4

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Runy
Laboratory Director

LABORATORY REPORT

Job No: R94/03970

Date: NOV. 10 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/20/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		876	877	878	879	880	881	882
		L-37	L-38	L-39	L-40	L-41	L-42	L-43
Date Collected:		10/19/94	10/19/94	10/19/94	10/19/94	10/19/94	10/19/94	10/19/94
Time Collected:	PQL	13:30	13:35	13:40	13:45	13:55	14:00	14:05
Date Extracted:		10/20/94	10/20/94	10/20/94	10/20/94	10/20/94	10/20/94	10/20/94
Date Analyzed:		10/20/94	10/20/94	10/20/94	10/20/94	10/20/94	10/20/94	10/20/94
Dilution:		1	10	1	1	1	10	10
PCB 1016	250	300 U	2900 U	300 U	370 U	320 U	4000 U	3200 U
PCB 1221	250	300 U	2900 U	300 U	370 U	320 U	4000 U	3200 U
PCB 1232	250	300 U	2900 U	300 U	370 U	320 U	4000 U	3200 U
PCB 1242	250	300 U	2900 U	300 U	370 U	320 U	4000 U	3200 U
PCB 1248	250	300 U	2900 U	300 U	370 U	320 U	4000 U	3200 U
PCB 1254	250	300 U	9300	300 U	2800	5700	12000	26000
PCB 1260	250	300 U	2900 U	300 U	370 U	320 U	4000 U	3200 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene		147	141	107	106	103	137	139
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael R. ...

Laboratory Director



LABORATORY REPORT

Date: NOV. 10 1994

Sample(s)	Reference
1	2

Columbus McKinnon

P.O. #:

ANALYTICAL RESULTS - ug/kg Dry Wt.

11 PQL

11

1250 U

(Acceptance Limits: 60-150%)

NY ID# in Hackensack: 10801

Michael H. B.

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04030 -001

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0	0		50-114
PCB 1221		0	0		15-178
PCB 1232		0	0		10-215
PCB 1242		0	0		39-150
PCB 1248		0	0		38-158
PCB 1254		7600	6500		29-131
PCB 1260	3800	0	4700	124	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016		0			30 50-114
PCB 1221		0			30 15-178
PCB 1232		0			30 10-215
PCB 1242		0			30 39-150
PCB 1248		0			30 38-158
PCB 1254		5800		11	30 29-131
PCB 1260	3800	4200	110	11	30 2-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

PD: 0 out of 2 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

LABORATORY REPORT

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/04030

Date: 15 NOV., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

Date Extracted: 10/24/94

Date Analyzed: 10/25/94

PCB 1260

2000

105

8 - 127

Michael

Laboratory Director

R94/3970

CHAIN OF CUSTODY RECORD

Distribution Original accompanies shipment, copy to coordinator field files

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 10 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

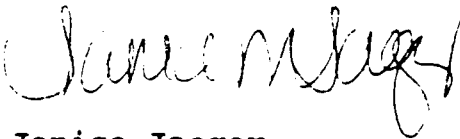
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/25/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.



Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04030

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples on which it could be quantitated. The recovery for TCMX on sample R94/04030-004 was flagged with a "D" because it was diluted out due to the level of PCB detected.

The PCB Matrix Spike/Matrix Spike Duplicate recoveries for PCB 1260 on sample R94/04030-001(L-12) and the Precision data from the MS/MSD were all within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Samples R94/04030-003, 004, and 005 were analyzed at dilutions to bring target analytes within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

Laboratory Director

LABORATORY REPORT

Job No: R94/04030

Date: NOV. 10 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/24/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		L-12	L-13	L-14	L-15	L-22	L-29	LAB
Date Collected:		10/21/94	10/21/94	10/21/94	10/21/94	10/21/94	10/21/94	--
Time Collected:	PQL	13:15	13:20	13:30	13:35	13:40	13:45	--
=====								
Date Extracted:		10/24/94	10/24/94	10/24/94	10/24/94	10/24/94	10/24/94	10/24/94
Date Analyzed:		10/24/94	10/24/94	10/24/94	10/25/94	10/24/94	10/24/94	10/24/94
Dilution:		1	1	10	50	10	1	1
=====								
PCB 1016	250	380 U	370 U	3600 U	17000 U	3300 U	440 U	250 U
PCB 1221	250	380 U	370 U	3600 U	17000 U	3300 U	440 U	250 U
PCB 1232	250	380 U	370 U	3600 U	17000 U	3300 U	440 U	250 U
PCB 1242	250	380 U	370 U	3600 U	17000 U	3300 U	440 U	250 U
PCB 1248	250	380 U	370 U	3600 U	17000 U	3300 U	440 U	250 U
PCB 1254	250	7600	1700	36000	140000	65000	6700	250 U
PCB 1260	250	380 U	370 U	3600 U	17000 U	3300 U	440 U	250 U
=====								
Surrogate Standard Recovery								

Tetrachloro-meta-xylene		83	86	150	D	102	86	91
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04030 -001

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0			50-114
PCB 1221		0			15-178
PCB 1232		0			10-215
PCB 1242		0			39-150
PCB 1248		0			38-158
PCB 1254		7600	6500		29-131
PCB 1260	3800	0	4700	124	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016		0			30 50-114
PCB 1221		0			30 15-178
PCB 1232		0			30 10-215
PCB 1242		0			30 39-150
PCB 1248		0			30 38-158
PCB 1254		5800		11	30 29-131
PCB 1260	3800	4200	110	11	30 2-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

PD: 0 out of 2 outside limits
Spike Recovery: 0 out of 2 outside limits

OMMENTS:

LABORATORY REPORT

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/04030

Date: 15 NOV., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

Date Extracted: 10/24/94
Date Analyzed: 10/25/94

PCB 1260

2000

105

8 - 127

Michael

Laboratory Director

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 2 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

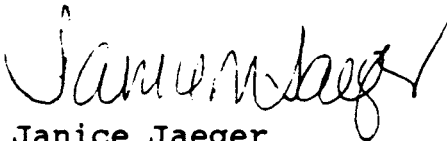
Enclosed are the results of the analysis requested. The **Analytical Data** was provided to you on 10/26/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.



CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04045

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques. MPI Influent and Effluent water samples were also analyzed for PCBs using method 8080. A detection limit for the Effluent sample of 0.060 ug/l was used to satisfy regulatory requirements.

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB matrix spike/matrix spike duplicate recoveries from Run QC is included. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Sample R94/04045-004 was analyzed at 1/10 dilutions to bring PCB 1254 within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.



LABORATORY REPORT

Date: NOV. 2 1994

Sample(s) Reference:

Columbus McKinnon

P.O. #:

ANALYTICAL UNITS - %

[illegible]

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

Job No: R94/04045

Date: NOV. 2 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/25/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-010
Location:		L-44	L-45	L-46	L-47	L-48	L-49	LAB
Date Collected:		10/24/94	10/24/94	10/24/94	10/24/94	10/24/94	10/24/94	--
Time Collected:	PQL	12:20	12:25	12:28	12:30	12:32	12:35	--
=====								
Date Extracted:		10/25/94	10/25/94	10/25/94	10/25/94	10/25/94	10/25/94	10/25/94
Date Analyzed:		10/25/94	10/25/94	10/25/94	10/26/94	10/25/94	10/25/94	10/25/94
Dilution:		1	1	1	10	1	1	1
=====								
PCB 1016	250	300 U	300 U	290 U	2900 U	290 U	280 U	250 U
PCB 1221	250	300 U	300 U	290 U	2900 U	290 U	280 U	250 U
PCB 1232	250	300 U	300 U	290 U	2900 U	290 U	280 U	250 U
PCB 1242	250	300 U	300 U	290 U	2900 U	290 U	280 U	250 U
PCB 1248	250	300 U	300 U	290 U	2900 U	290 U	280 U	250 U
PCB 1254	250	300 U	300 U	290 U	9700	4000	2500	250 U
PCB 1260	250	300 U	300 U	290 U	2900 U	290 U	280 U	250 U
=====								
Surrogate Standard Recovery								
Tetrachloro-meta-xylene		100	82	101	93	77	100	99
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801



Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04032 -006

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1260	2200	0	2600	118	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1260	2200	2600	118	0	30	8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

LABORATORY REPORT

Client:
Mr. Ken Kota
Malcolm Pirnie, Inc.

Job No: R94/04032

Date: 10 NOV., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

Date Extracted: 10/26/94
Date Analyzed: 10/26/94

PCB 1254

2000

120

8 - 127

Laboratory Director

R94/4045

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4		SITE NAME: Colman's McKinnon Twp. Fac.		NO. OF CON-TAINERS		40% glass 10% amber 50% glass										REMARKS		
SAMPLERS (SIGNATURE): Kenneth Kota																		
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION													
001	10/24	1220		K	L-44 EL. 569.9	S-1 067	2	2										Analyze for PCB's Method 8080
002		1225			L-45 EL. 568.1	S-1 068												
003		1228			L-46 EL. 568.7	S-1 069												
004		1230			L-47 EL. 567.8	S-1 070												
005		1232			L-48 EL. 566.7	S-1 071												
006	10/24	1235		↓	L-49 EL. 567.5	S-1 072	↓	↓										
007	10/24	0910		✓	Water Treatment Influent 005			2										Analyze 1 sample for PCB's standard detection level
008	10/24	0910		✓	Water Treatment Effluent 006			2										Analyze 1 sample for PCB's Target DL of 65 PPT
RELINQUISHED BY (SIGNATURE): Kenneth Kota		DATE/TIME: 10/25/94 0925		RECEIVED BY (SIGNATURE): C. Chocoma				RELINQUISHED BY (SIGNATURE): C. Chocoma		DATE/TIME: 10/25/94 1030		RECEIVED BY (SIGNATURE): Chris Connor						
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):				RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):						
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE): Tom Hastings				DATE/TIME: 10/25/94 1211		REMARKS:								

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 2 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

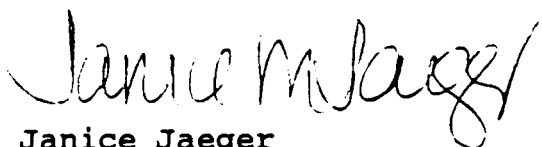
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/27/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

- Effective 10/1/91

- GTC LIST OF QUALIFIERS

- (The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected.
The sample quantitation limit must be corrected for
dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see
case narrative / cover letter.
- B - This flag is used when the analyte is found in the
associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed
the calibration range and reanalysis could not be
performed.
- A - This flag indicates that a TIC is a suspected aldol-
condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits.
(Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard
Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04069

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques. MPI Influent and Effluent water samples were also analyzed for PCBs using method 8080. A detection limit for the Effluent sample of 0.060 ug/l was used to satisfy regulatory requirements.

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB matrix spike/matrix spike duplicate recoveries from Run QC is included. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Samples R94/04069-005 and 006 were analyzed at 1/10 dilutions to bring PCB 1254 within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/04069

Date: NOV. 2 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/26/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-003	-004	-005	-006	-007	-008	-009
Location:		L-50	L-51	L-52	L-53	L-54	L-55	LAB
Date Collected:		10/25/94	10/25/94	10/25/94	10/25/94	10/25/94	10/25/94	--
Time Collected:	PQL	12:10	12:12	12:14	12:15	12:22	12:23	--
Date Extracted:		10/26/94	10/26/94	10/26/94	10/26/94	10/26/94	10/26/94	10/26/94
Date Analyzed:		10/26/94	10/26/94	10/27/94	10/27/94	10/26/94	10/26/94	10/26/94
Dilution:		1	1	10	10	1	1	1
PCB 1016	250	300 U	290 U	3600 U	3300 U	300 U	300 U	250 U
PCB 1221	250	300 U	290 U	3600 U	3300 U	300 U	300 U	250 U
PCB 1232	250	300 U	290 U	3600 U	3300 U	300 U	300 U	250 U
PCB 1242	250	300 U	290 U	3600 U	3300 U	300 U	300 U	250 U
PCB 1248	250	300 U	290 U	3600 U	3300 U	300 U	300 U	250 U
PCB 1254	250	300 U	290 U	17000	10000	300 U	930	250 U
PCB 1260	250	300 U	290 U	3600 U	3300 U	300 U	300 U	250 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)		108	109	125	129	112	94	109

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael J. P...
Laboratory Director

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/03951 -001

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENT. (ug/l)	MS % REC #	QC LIMITS REC.
PCB 1248	2.0	0	2.5	125	38-158

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENT. (ug/l)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1248	2.0	2.4	120	4	30	38-158

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

PD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

OMMENTS: _____

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04032 -006

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1260	2200	0	2600	118	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1260	2200	2600	118	0	30	8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

Client:
Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/04032
Date: 4 NOV., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

Date Extracted: 10/26/94
Date Analyzed: 10/26/94

PCB 1260

2000

120

8 - 127

Michael H. Long

Laboratory Director

K94/406-1

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4					SITE NAME: Columbus McKinnon Tona. Fac.		NO. OF CON- TAINERS	100% amber glass jars 4oz glass jar									REMARKS		
SAMPLERS (SIGNATURE): Kenneth Kote																			
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION														
-001	10/26	0812		X	Water Treatment Influent 007		2	2									Analyzed for PCB's standard detection level		
-002	10/26	0814		X	Water Treatment Effluent 008		1	2									Analyze 1 sample for PCB's Target DL of 65 PPT		
-003	10/25	1210		X	L-50 EL. 572.0 S1 073				2								Analyze for PCB's Method 8080		
-004		1212		X	L-51 EL. 568.6 S1 074				2										
-005		1214		X	L-52 EL. 566.0 S1 075				2										
-006		1215		X	L-53 EL. 567.3 S1 076				2										
-007		1222		X	L-54 EL. 572.7 S1 077				2										
-008		1223		X	L-55 EL. 570.0 S1 078				2										
RELINQUISHED BY (SIGNATURE): Kenneth Kote							DATE/TIME: 10/24/94		RECEIVED BY (SIGNATURE): [Signature]							DATE/TIME: 10-26-94		RECEIVED BY (SIGNATURE): C. Chocoma	
RELINQUISHED BY (SIGNATURE): C. Chocoma							DATE/TIME: 10/26/94		RECEIVED BY (SIGNATURE): [Signature]							DATE/TIME:		RECEIVED BY (SIGNATURE):	
RELINQUISHED BY (SIGNATURE):							DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE): [Signature]							DATE/TIME: 10/26/94		REMARKS:	

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 10 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

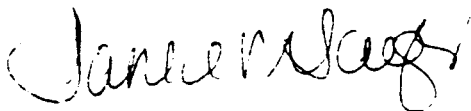
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/28/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

-
Effective 10/1/91

-
GTC LIST OF QUALIFIERS

-
(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected.
The sample quantitation limit must be corrected for
dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see
case narrative / cover letter.
- B - This flag is used when the analyte is found in the
associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed
the calibration range and reanalysis could not be
performed.
- A - This flag indicates that a TIC is a suspected aldol-
condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits.
(Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard
Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04098

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques. MPI Influent and Effluent water samples were also analyzed for PCBs using method 8080. A detection limit for the Effluent sample of 0.060 ug/l was used to satisfy regulatory requirements.

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB Matrix Spike/Matrix Spike Duplicate recoveries for PCB 1260 on sample R94/04030-001(L-12) and the Precision data from the MS/MSD were all within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Sample R94/04098-003 was analyzed at 1/10 dilution to bring PCB 1254 within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/04098

Date: NOV. 10 1994

Client:

Sample(s) Reference:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Columbus McKinnon

Received

: 10/27/94

P.O. #:

ANALYTICAL UNITS - 8

[illegible]

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. [Signature]

Laboratory Director

LABORATORY REPORT

Job No: R94/04098

Date: NOV. 10 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/27/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-007				
Location:		L-56	L-57	PVS-1	LAB				
					BLANK				
Date Collected:		10/26/94	10/26/94	10/26/94	--				
Time Collected:	PQL	16:37	16:58	16:15	--				
=====									
Date Extracted:		10/27/94	10/27/94	10/27/94	10/27/94				
Date Analyzed:		10/27/94	10/27/94	10/27/94	10/27/94				
Dilution:		1	1	50	1				
=====									
PCB 1016	250	290 U	300 U	15000 U	250 U				
PCB 1221	250	290 U	300 U	15000 U	250 U				
PCB 1232	250	290 U	300 U	15000 U	250 U				
PCB 1242	250	290 U	300 U	15000 U	250 U				
PCB 1248	250	290 U	300 U	15000 U	250 U				
PCB 1254	250	2000	4600	110000	250 U				
PCB 1260	250	290 U	300 U	15000 U	250 U				
Surrogate Standard Recovery									

Tetrachloro-meta-xylene		105	107	144	106				
(Acceptance Limits: 60-150%)									

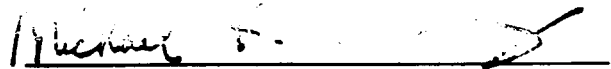
Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801


Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04030 -001

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0			50-114
PCB 1221		0			15-178
PCB 1232		0			10-215
PCB 1242		0			39-150
PCB 1248		0			38-158
PCB 1254		7600	6500		29-131
PCB 1260	3800	0	4700	124	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016		0			30 50-114
PCB 1221		0			30 15-178
PCB 1232		0			30 10-215
PCB 1242		0			30 39-150
PCB 1248		0			30 38-158
PCB 1254		5800		11	30 29-131
PCB 1260	3800	4200	110	11	30 2-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

PD: 0 out of 2 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/04030

Date: 15 NOV., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 10/24/94 Date Analyzed: 10/25/94			
PCB 1260	2000	105	8 - 127

Michael
Laboratory Director

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]

Technical Report 4B-5715E
Project # 1332-01-4
Project Name: Columbus McKinnon

October 28, 1994

Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on October 27, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil (solid or sludge) were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke (CDE)

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

Our reports and letters are for the exclusive use of the client to whom they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others and/or use of the name of ACTS Testing Labs, Inc. requires our prior written approval. Our letters and reports are limited solely (1) to standards and procedures identified in them and (2) to the sample(s) tested. Test results are not necessarily indicative and representative (1) of the quality of the lot from which the sample was taken or (2) of apparently similar or identical products. Unless otherwise stated, it is the responsibility of the client to insure the representativeness of the samples submitted to ACTS Testing Labs, Inc. for testing.

SA

Hong Kong

France

Canada

RESULTS:

EPA 608 (PCBs only)

Polychlorinated Biphenyls as:

	ACTS #4B-5715E <u>L-58</u>	ACTS #4B-5716E <u>L-59</u>
Arochlor 1016	LT 9.18	LT 0.48
Arochlor 1221	LT 9.18	LT 0.48
Arochlor 1232	LT 9.18	LT 0.48
Arochlor 1242	LT 9.18	LT 0.48
Arochlor 1248	LT 9.18	LT 0.48
Arochlor 1254	121	2.50
Arochlor 1260	LT 9.18	LT 0.48

Polychlorinated Biphenyls as:

	ACTS #4B-5717E <u>L-60</u>	ACTS #4B-5718E <u>L-61</u>
Arochlor 1016	LT 1.00	LT 9.42
Arochlor 1221	LT 1.00	LT 9.42
Arochlor 1232	LT 1.00	LT 9.42
Arochlor 1242	LT 1.00	LT 9.42
Arochlor 1248	LT 1.00	LT 9.42
Arochlor 1254	3.98	41.5
Arochlor 1260	LT 1.00	LT 9.42

LT=Less Than

Results are reported as micrograms per gram (ug/g).

CHAIN OF CUSTODY RECORD



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928

Tel (716) 897-3300

Fax (716) 897-0876

Technical Report 4B-5767E
Project # 1332-01-4
Project Name: Columbus McKinnon

October 31, 1994

Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of two (2) soil samples for PCBs. The samples were received on October 28, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil (solid or sludge) were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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USA

Hong Kong

France

Canada

RESULTS:

ACTS #4B-5767E

L-58

ACTS #4B-5768E

L-61EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	LT 9.12	LT 0.10
Arochlor 1221	LT 9.12	LT 0.10
Arochlor 1232	LT 9.12	LT 0.10
Arochlor 1242	LT 9.12	LT 0.10
Arochlor 1248	LT 9.12	LT 0.10
Arochlor 1254	144(117)*	1.14
Arochlor 1260	LT 9.12	LT 0.10

*- Duplicate

LT= Less Than

Results are reported as micrograms per gram (ug/g).



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 4B-5769E
Project # 1332-01-4
Project Name: Columbus McKimmon

October 31, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of one (1) soil sample for PCBs. The sample was received on October 31, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil (solid or sludge) were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

CME

Our reports and letters are for the exclusive use of the client to whom/which they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others and/or use of the name of ACTS Testing Labs, Inc. requires our prior written approval. Our reports and letters are limited solely (i) to standards and procedures identified in them and (ii) to the sample(s) tested. Test results are not necessarily representative (i) of the quality of the lot from which the sample was taken or (ii) of apparently similar or identical products. Unless otherwise stated, it is the responsibility of the client to insure representativeness of the samples submitted to ACTS Testing Labs, Inc. for testing.

USA

Hong Kong

France

Canada



October 31, 1994
Technical Report #4B-5769E
Page 2 of 2

RESULTS:

ACTS #4B-5769E

L-58

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	LT 8.34
Arochlor 1221	LT 8.34
Arochlor 1232	LT 8.34
Arochlor 1242	LT 8.34
Arochlor 1248	LT 8.34
Arochlor 1254	23.0
Arochlor 1260	LT 8.34

LT = Less Than

Results are reported as micrograms per gram (ug/g).

(PPM)

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]

- General
Testing
Corporation



A Full Service Environmental Laboratory

- NOV. 17 1994

- Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

- Re: Columbus McKinnon

- Dear Mr. Ken Kota

- Enclosed are the results of the analysis requested. The Analytical
Data was provided to you on 11/03/94 per a Facsimile
transmittal. All data has been reviewed prior to report submission.

- Should you have any questions please contact me at 454-3760.

- Thank you for letting us provide this service.

- Sincerely,

- GENERAL TESTING CORPORATION

-

- Janice Jaeger
Customer Service Representative

- Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04282

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques. MPI Influent and Effluent water samples were also analyzed for PCBs using method 8080. A detection limit for the Effluent sample of 0.060 ug/l was used to satisfy regulatory requirements.

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB Matrix Spike/Matrix Spike Duplicate recoveries for PCB 1260 on sample R94/04311-003(L-53) were diluted out and could not be calculated due to the amount of PCB 1254 detected in the sample. The recoveries have been flagged with a "D". The Precision data from the MS/MSD were all within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/04282

Date: NOV. 17 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 11/02/94

P.O. #:

ANALYTICAL UNITS - %

Sample: -003
Location: L-52

Date Collected: 11/02/94
Time Collected: 09:05

Date Analyzed: 11/02/94

Solids, % 48.9

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

Job No: R94/04282

Date: NOV. 17 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/02/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample: -003
Location: L-52

Date Collected: 11/02/94

Time Collected: PQL 09:05

Date Extracted: 11/02/94

Date Analyzed: 11/03/94

Dilution: 1

PCB 1016 1000 1000 U

PCB 1221 1000 1000 U

PCB 1232 1000 1000 U

PCB 1242 1000 1000 U

PCB 1248 1000 1000 U

PCB 1254 1000 7200

PCB 1260 1000 1000 U

Surrogate Standard Recovery

Tetrachloro-meta-xylene 101
(Acceptance Limits: 60-150%)

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael A. Long

Laboratory Director

LABORATORY REPORT

Job No: R94/04282

Date: NOV. 17 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/02/94

P.O. #:

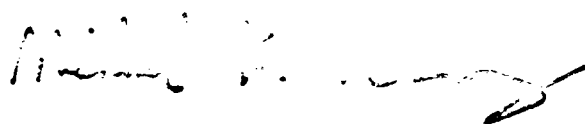
ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-004							
Location:		LAB							
		BLANK							
Date Collected:		--							
Time Collected:	PQL	--							
Date Extracted:		11/02/94							
Date Analyzed:		11/02/94							
Dilution:		1							
PCB 1016	1000	1000 U							
PCB 1221	1000	1000 U							
PCB 1232	1000	1000 U							
PCB 1242	1000	1000 U							
PCB 1248	1000	1000 U							
PCB 1254	1000	1000 U							
PCB 1260	1000	1000 U							
Surrogate Standard Recovery									
Tetrachloro-meta-xylene		104							
(Acceptance Limits: 60-150%)									

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801



Laboratory Director

LABORATORY REPORT

Job No: R94/04282

Date: NOV. 17 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/02/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/l

Sample:	-005								
Location:	LAB								
	BLANK								
Date Collected:	--								
Time Collected:	--								

Date Extracted:	11/02/94								
Date Analyzed:	11/03/94								
Dilution:	1								
PCB 1016	0.060 U								
PCB 1221	0.060 U								
PCB 1232	0.060 U								
PCB 1242	0.060 U								
PCB 1248	0.060 U								
PCB 1254	0.060 U								
PCB 1260	0.060 U								
Surrogate Standard Recovery									

Tetrachloro-meta-xylene	89								
(Acceptance Limits: 60-150%)									

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04311 -003

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0	0		50-114
PCB 1221		0	0		15-178
PCB 1232		0	0		10-215
PCB 1242		0	0		39-150
PCB 1248		0	0		38-158
PCB 1254		12000	8600		29-131
PCB 1260	2600	0	0	D	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016		0			30 50-114
PCB 1221		0			30 15-178
PCB 1232		0			30 10-215
PCB 1242		0			30 39-150
PCB 1248		0			30 38-158
PCB 1254		8600		0	30 29-131
PCB 1260	2600	0	D		30 8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

LABORATORY REPORT

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/04282

Date: 29 NOV., 1994

REFERENCE CHECK

EPA METHOD 8080

**TRUE
VALUE**

**%
RECOVERY**

**ACCEPTANCE
LIMITS (%)**

Date Extracted: 11/03/94

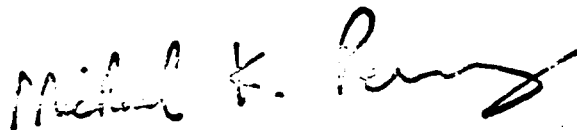
Date Analyzed: 11/04/94

PCB 1248

2.0

141

38 - 158



Laboratory Director

R94/4282

CHAIN OF CUSTODY RECORD

Distribution Original accompanies shipment. copy to coordinator field files



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 4B-5812ER
Project # 1332-01-4
Project Name: Columbus McKinnon
REVISED REPORT

November 2, 1994
Page 1 of 3

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of thirteen (13) soil samples for PCBs. The samples were received on November 1, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler
Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici
Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

Our reports and letters are for the exclusive use of the client to whom they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others and/or use of the name of ACTS Testing Labs, Inc. requires our prior written approval. Our tests and reports are limited solely to standards and procedures identified in them and to the sample(s) tested. Test results are not necessarily representative of the quality of the lot from which the sample was taken or of apparently similar or identical products. Unless otherwise stated, it is the responsibility of the client to insure representativeness of the samples submitted to ACTS Testing Labs, Inc. for testing.

USA

Hong Kong

France

Canada



November 2, 1994
 Technical Report #4B-5812ER
 Page 3 of 3

RESULTS:

ACTS #4B-5824E

L.S.

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	LT 1.00
Arochlor 1221	LT 1.00
Arochlor 1232	LT 1.00
Arochlor 1242	LT 1.00
Arochlor 1248	LT 1.00
Arochlor 1254	14.6
Arochlor 1260	LT 1.00

LT= Less Than

Results are reported as micrograms per gram (ug/g).

*= Duplicate results

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-A		SITE NAME: <i>LOWLANDS McKINNEY</i> <i>TONA, TX</i>		NO. OF CON-TAINERS		<i>Don't</i> <i>Write</i> <i>Don't</i> <i>Write</i> <i>Don't</i> <i>Write</i> <i>Don't</i> <i>Write</i> <i>Don't</i> <i>Write</i> <i>Don't</i> <i>Write</i> <i>Don't</i> <i>Write</i> <i>Don't</i> <i>Write</i> <i>Don't</i> <i>Write</i> <i>Don't</i> <i>Write</i> <i>Don't</i> <i>Write</i>										REMARKS				
SAMPLERS (SIGNATURE): <i>Kenneth Kota</i>																				
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION															
	11/1/94	1015		X	C-14-A	8'	S-1 JAR No 107	1	1										ANALYZE FOR PCBs MAX DL 1.0 PPM REPORT RESULTS ON DRY WEIGHT BASIS	
		1018		X	C-14-B	10'	S-1 JAR No 108	1	1											
		1021		X	C-20-A	5.5'	S-1 JAR No. 109	1	1											
		1024		X	C-20-B	10.5'	S-1 JAR No. 110	1	1											
		1055		X	C-21-A	3.5'	S-1 JAR No. 118	1	1											
		1027		X	C-21-B	10.5'	S-1 JAR No 111	1	1											
		1050		X	C-22-A	4.0'	S-1 JAR No. 117	1	1											
		1030		X	C-22-B	9.5'	S-1 JAR No. 112	1	1											
		1045		X	C-23-A	2.5'	S-1 JAR No. 116	1	1											
		1033		X	C-23-B	9.5'	S-1 JAR No 113	1	1											
		1039		X	C-24-A	3.5'	S-1 JAR No 115	1	1											
		1036		X	C-24-B	9.8'	S-1 JAR No. 114	1	1											
	11/1/94	0905		X	~~C-24-B~~ EL 566 (0'-6" deep)		~~S-1~~ JAR No. 106	2	2										ANALYZE FOR PCBs MAXIMUM 5000	

RELINQUISHED BY (SIGNATURE): <i>Kenneth Kota</i>	DATE/TIME: 11/1/94 1155	RECEIVED BY (SIGNATURE): <i>Paul A. [Signature]</i>	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME:	REMARKS:	

Distribution: Original accompanies shipment, copy to coordinator field files

General
Testing
Corporation



A Full Service Environmental Laboratory

NOV. 17 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 11/04/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04311

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques. MPI Influent and Effluent water samples were also analyzed for PCBs using method 8080. A detection limit for the Effluent sample of 0.060 ug/l was used to satisfy regulatory requirements.

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB Matrix Spike/Matrix Spike Duplicate recoveries for PCB 1260 on sample R94/04311-003(L-53) were diluted out and could not be calculated due to the amount of PCB 1254 detected in the sample. The recoveries have been flagged with a "D". The Precision data from the MS/MSD were all within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Samples R94/04311-003 and 004 were analyzed at 1/10 dilutions to bring PCB 1254 within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

Laboratory Director

LABORATORY REPORT

Job No: R94/04311

Date: NOV. 17 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/03/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-003	-004						
Location:		L-53	L-30						
Date Collected:		11/03/94	11/03/94						
Time Collected:	PQL	08:25	08:50						
=====									
Date Extracted:		11/03/94	11/03/94						
Date Analyzed:		11/04/94	11/04/94						
Dilution:		10	10						
PCB 1016	1000	10000 U	10000 U						
PCB 1221	1000	10000 U	10000 U						
PCB 1232	1000	10000 U	10000 U						
PCB 1242	1000	10000 U	10000 U						
PCB 1248	1000	10000 U	10000 U						
PCB 1254	1000	12000	14300						
PCB 1260	1000	10000 U	10000 U						
Surrogate Standard Recovery									
Tetrachloro-meta-xylene		131	122						
(Acceptance Limits: 60-150%)									

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

LABORATORY REPORT

Job No: R94/04311

Date: NOV. 17 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/03/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/l

Sample:	-005								
Location:	LAB								
	BLANK								
Date Collected:	--								
Time Collected:	--								

Date Extracted:	11/03/94								
Date Analyzed:	11/03/94								
Dilution:	1								
PCB 1016	0.060 U								
PCB 1221	0.060 U								
PCB 1232	0.060 U								
PCB 1242	0.060 U								
PCB 1248	0.060 U								
PCB 1254	0.060 U								
PCB 1260	0.060 U								
Surrogate Standard Recovery									

Tetrachloro-meta-xylene	74								
(Acceptance Limits: 60-150%)									

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

LABORATORY REPORT

Job No: R94/04311

Date: NOV. 17 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/03/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:	-006
Location:	LAB
	BLANK
Date Collected:	--
Time Collected:	--

Date Extracted:	11/03/94
Date Analyzed:	11/04/94
Dilution:	1

PCB 1016	1000	1000 U
PCB 1221	1000	1000 U
PCB 1232	1000	1000 U
PCB 1242	1000	1000 U
PCB 1248	1000	1000 U
PCB 1254	1000	1000 U
PCB 1260	1000	1000 U

Surrogate Standard Recovery

Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)	99

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Roney

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04311 -003

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0	0		50-114
PCB 1221		0	0		15-178
PCB 1232		0	0		10-215
PCB 1242		0	0		39-150
PCB 1248		0	0		38-158
PCB 1254		12000	8600		29-131
PCB 1260	2600	0	0	D	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016		0			30 50-114
PCB 1221		0			30 15-178
PCB 1232		0			30 10-215
PCB 1242		0			30 39-150
PCB 1248		0			30 38-158
PCB 1254		8600		0	30 29-131
PCB 1260	2600	0	D		30 8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

PD: 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

LABORATORY REPORT

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/04282

Date: 29 NOV., 1994

REFERENCE CHECK

EPA METHOD 8080

**TRUE
VALUE**

**%
RECOVERY**

**ACCEPTANCE
LIMITS (%)**

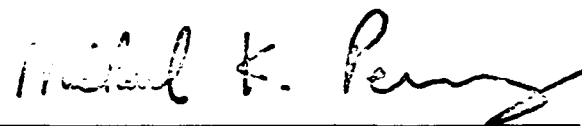
Date Extracted: 11/03/94
Date Analyzed: 11/04/94

PCB 1248

2.0

141

38 - 158



Laboratory Director

**General
Testing
Corporation**



A Full Service Environmental Laboratory

NOV. 22 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 11/07/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04341

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques. MPI Influent and Effluent water samples were also analyzed for PCBs using method 8080. A detection limit for the Effluent sample of 0.060 ug/l was used to satisfy regulatory requirements.

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB Matrix Spike/Matrix Spike Duplicate recoveries for PCB 1260 on sample R94/04315-006 and the Precision data from the MS/MSD were all within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

No other analytical or QC problems were encountered with this analysis.

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/04341

Date: NOV. 22 1994

Client:

Sample(s) Reference:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Columbus McKinnon

Received

: 11/04/94

P.O. #:

ANALYTICAL UNITS - 8

[illegible]

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Thomas R. Perry
Laboratory Director

LABORATORY REPORT

Job No: R94/04341

Date: NOV. 22 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/04/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:	-003	-004	-005	-006	-008
Location:	L-11	L-14	L-20	L-21	LAB
					BLANK
Date Collected:	11/04/94	11/04/94	11/04/94	11/04/94	--
Time Collected:	PQL 09:15	09:10	09:40	09:30	--

Date Extracted:	11/04/94	11/04/94	11/04/94	11/04/94	11/04/94
Date Analyzed:	11/05/94	11/05/94	11/05/94	11/05/94	11/05/94
Dilution:	1	1	1	1	1
PCB 1016	1000	1000 U	1000 U	1000 U	1000 U
PCB 1221	1000	1000 U	1000 U	1000 U	1000 U
PCB 1232	1000	1000 U	1000 U	1000 U	1000 U
PCB 1242	1000	1000 U	1000 U	1000 U	1000 U
PCB 1248	1000	1000 U	1000 U	1000 U	1000 U
PCB 1254	1000	1000 U	1000 U	3200	1000 U
PCB 1260	1000	1000 U	1000 U	1000 U	1000 U
Surrogate Standard Recovery					
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)	101	101	101	100	102

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04315 -006

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0			50-114
PCB 1221		0			15-178
PCB 1232		0			10-215
PCB 1242		0			39-150
PCB 1248		4200	4000		38-158
PCB 1254		0			29-131
PCB 1260	2200	0	2500	114	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1016		0			30	50-114
PCB 1221		0			30	15-178
PCB 1232		0			30	10-215
PCB 1242		0			30	39-150
PCB 1248		4100		2	30	38-158
PCB 1254		0			30	29-131
PCB 1260	2200	2500	114	0	30	8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

Client:

Job No: R94/04315

Mr. Ken Kota
Malcolm Pirnie, Inc.

Date: 22 NOV., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

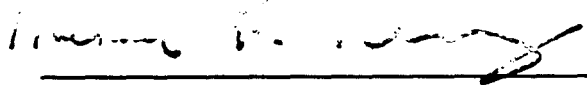
Date Extracted: 11/11/94
Date Analyzed: 11/13/94

PCB 1260

2000

85

8 - 127


Laboratory Director

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 22 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 11/08/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.



Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04375

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques. MPI Influent and Effluent water samples were also analyzed for PCBs using method 8080. A detection limit for the Effluent sample of 0.060 ug/l was used to satisfy regulatory requirements.

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB Matrix Spike/Matrix Spike Duplicate recoveries for PCB 1260 on sample R94/04315-006 and the Precision data from the MS/MSD were all within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Samples R94/04375-007 and 008 were analyzed at 1/10 dilutions to bring PCB 1254 within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.



LABORATORY REPORT

Date: NOV. 22 1994

Sample(s) Reference:

Columbus McKinnon

P.O. #:

ANALYTICAL UNITS - %

[illegible]

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

Job No: R94/04375

Date: NOV. 22 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 11/07/94

P.O. #:

ANALYTICAL UNITS - %

Sample: -013
Location: L-43

Date Collected: 11/05/94
Time Collected: 15:17

Date Analyzed: 11/07/94

Solids, % 76.2

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. ...

Laboratory Director

LABORATORY REPORT

Job No: R94/04375

Date: NOV. 22 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/07/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-005	-006	-007	-008	-011
Location:		L-19	L-30	L-26	L-33	L-34	L-35	L-36
Date Collected:		11/04/94	11/04/94	11/05/94	11/05/94	11/05/94	11/05/94	11/05/94
Time Collected:	PQL	14:50	14:55	09:45	10:15	10:20	11:45	15:05
Date Extracted:		11/07/94	11/07/94	11/07/94	11/07/94	11/07/94	11/07/94	11/07/94
Date Analyzed:		11/07/94	11/07/94	11/07/94	11/07/94	11/08/94	11/08/94	11/08/94
Dilution:		1	1	1	1	10	10	1
PCB 1016	1000	1000 U	1000 U	1000 U	1000 U	10000 U	10000 U	1000 U
PCB 1221	1000	1000 U	1000 U	1000 U	1000 U	10000 U	10000 U	1000 U
PCB 1232	1000	1000 U	1000 U	1000 U	1000 U	10000 U	10000 U	1000 U
PCB 1242	1000	1000 U	1000 U	1000 U	1000 U	10000 U	10000 U	1000 U
PCB 1248	1000	1000 U	1000 U	1000 U	1000 U	10000 U	10000 U	1000 U
PCB 1254	1000	1000 U	1000 U	1000 U	1400	18000	43000	2500
PCB 1260	1000	1000 U	1000 U	1000 U	1000 U	10000 U	10000 U	1000 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)		107	106	110	104	122	121	105

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael F. Perry

Laboratory Director

LABORATORY REPORT

Job No: R94/04375

Date: NOV. 22 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/07/94

P.O. #:

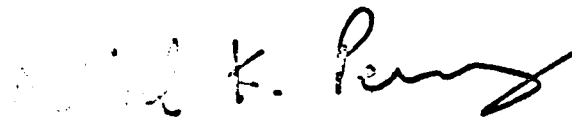
ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-012	-013	-015					
Location:		L-42	L-43	LAB					
				BLANK					
Date Collected:		11/05/94	11/05/94	--					
Time Collected:	PQL	15:11	15:17	--					
=====									
Date Extracted:		11/07/94	11/07/94	11/07/94					
Date Analyzed:		11/08/94	11/08/94	11/08/94					
Dilution:		1	1	1					
PCB 1016	1000	1000 U	1000 U	1000U					
PCB 1221	1000	1000 U	1000 U	1000U					
PCB 1232	1000	1000 U	1000 U	1000U					
PCB 1242	1000	1000 U	1000 U	1000U					
PCB 1248	1000	1000 U	1000 U	1000U					
PCB 1254	1000	1700	2800	1000U					
PCB 1260	1000	1000 U	1000 U	1000U					
Surrogate Standard Recovery									
Tetrachloro-meta-xylene		103	107	99					
(Acceptance Limits: 60-150%)									

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801



Laboratory Director

LABORATORY REPORT

Job No: R94/04375

Date: NOV. 22 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/07/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/l

Sample:	-003	-004	-009	-010	-014			
Location:	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	LAB			
					BLANK			
Date Collected:	11/04/94	11/04/94	11/05/94	11/05/94	--			
Time Collected:	22:00	22:10	14:15	14:18	--			
=====								
Date Extracted:	11/07/94	11/07/94	11/07/94	11/07/94	11/07/94			
Date Analyzed:	11/07/94	11/07/94	11/08/94	11/08/94	11/07/94			
Dilution:	1	1	1	1	1			
PCB 1016	0.50 U	0.060 U	0.50 U	0.060 U	0.060 U			
PCB 1221	0.50 U	0.060 U	0.50 U	0.060 U	0.060 U			
PCB 1232	0.50 U	0.060 U	0.50 U	0.060 U	0.060 U			
PCB 1242	0.50 U	0.060 U	0.50 U	0.060 U	0.060 U			
PCB 1248	0.50 U	0.060 U	0.50 U	0.060 U	0.060 U			
PCB 1254	0.50 U	0.060 U	0.50 U	0.060 U	0.060 U			
PCB 1260	0.50 U	0.060 U	0.50 U	0.060 U	0.060 U			
Surrogate Standard Recovery								

Tetrachloro-meta-xylene	82	72	96	68	65			
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04315 -006

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0	0		50-114
PCB 1221		0	0		15-178
PCB 1232		0	0		10-215
PCB 1242		0	0		39-150
PCB 1248		4200	4000		38-158
PCB 1254		0	0		29-131
PCB 1260	2200	0	2500	114	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016		0			30 50-114
PCB 1221		0			30 15-178
PCB 1232		0			30 10-215
PCB 1242		0			30 39-150
PCB 1248		4100		2	30 38-158
PCB 1254		0			30 29-131
PCB 1260	2200	2500	114	0	30 8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

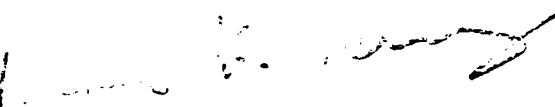
Client:

Job No: R94/04315

Mr. Ken Kota
Malcolm Pirnie, Inc.

Date: 22 NOV., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 11/11/94 Date Analyzed: 11/13/94			
PCB 1260	2000	85	8 - 127



Laboratory Director

R94/4375

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4					SITE NAME: Columbus McKinnon Tomb, FAC.		NO. OF CON- TAINERS								REMARKS
SAMPLERS (SIGNATURE): Kenneth Kote															
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION										
-001	11/4/94	1450		X	L-19	S-2	2	2						Analyze for PCB's Method 8080	
-002	11/4/94	1455		X	L-30	S-3	2	2						" "	
-003	11/4	2200		X	WATER TREATMENT PLANT INFLUENT	037	2		2					ANALYZE 1 SAMPLE FOR PCB'S STANDARD DETECTION LIMIT	
-004	11/4	2210		X	WATER TREATMENT PLANT EFFLUENT	038	2		2					ANALYZE 1 SAMPLE FOR PCB'S TARGET DETECTION LIMIT 65 PPT	
-005	11/5	0445		X	L-26	S-2	2	2						ANALYZE FOR PCB'S METHOD 8080	
-006	11/5	1015		X	L-33	S-2	2	2							
-007	11/5	1020		X	L-34	S-2	2	2							
-008	11/5	1145		X	L-35	S-2	2	2							
-009	11/5	1415		X	WATER TREATMENT PLANT INFLUENT	039	2		2					ANALYZE 1 SAMPLE FOR PCB'S STANDARD DETECTION LIMIT	
-010	11/5	1416		X	WATER TREATMENT PLANT EFFLUENT	040	2		2					ANALYZE 1 SAMPLE FOR PCB'S TARGET DET. LIMIT 65 PPT	
-011	11/5	1505		X	L-36	S-2	2	2						ANALYZE FOR PCB'S METHOD 8080	
-012	11/5	1511		X	L-42	S-2	2	2							
-013	11/5	1517		X	L-43	S-2	2	2							
RELINQUISHED BY (SIGNATURE): L. H. H. (GARY HUNTER)					DATE/TIME: 11/7/94 0411		RECEIVED BY (SIGNATURE): C. M. M. M.					DATE/TIME: 11/7/94 1330		RECEIVED BY (SIGNATURE):	
RELINQUISHED BY (SIGNATURE):					DATE/TIME:		RECEIVED BY (SIGNATURE):					DATE/TIME:		RECEIVED BY (SIGNATURE):	
RELINQUISHED BY (SIGNATURE):					DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):					DATE/TIME: 11/7 13:35		REMARKS:	

Distribution: Original accompanies shipment, copy to coordinator field files

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 22 1994

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus Mckinnon

Dear Mr. Thomas Forbes

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 11/09/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.



LABORATORY REPORT

Date: NOV. 22 1994

Sample(s) Reference:

Columbus Mckinnon

P.O. #:

ANALYTICAL UNITS - %

Sample:	-001	-002	-003	-004	-005	-006
Location:	L-53	L-58	C-4A	C-4B	C-5A	C-5B
			5.0'	12.0'	4.5'	10.0'
Date Collected:	11/07/94	11/07/94	11/07/94	11/07/94	11/07/94	11/07/94
Time Collected:	11:15	11:20	15:40	15:47	15:50	15:55

Date Analyzed:	11/08/94	11/08/94	11/08/94	11/08/94	11/08/94	11/08/94

Solids, %	62.1	78.9	46.7	48.4	36.6	39.2

NY ID# in Rochester: 10145

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael H. King

Laboratory Director

LABORATORY REPORT

Job No: R94/04392

Date: NOV. 22 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus Mckinnon

Received

: 11/08/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-010
Location:		L-53	L-58	C-4A	C-4B	C-5A	C-5B	LAB
				5.0'	12.0'	4.5'	10.0'	BLANK
Date Collected:		11/07/94	11/07/94	11/07/94	11/07/94	11/07/94	11/07/94	--
Time Collected:	PQL	11:15	11:20	15:40	15:47	15:50	15:55	--
Date Extracted:		11/08/94	11/08/94	11/08/94	11/08/94	11/08/94	11/08/94	11/08/94
Date Analyzed:		11/08/94	11/08/94	11/08/94	11/08/94	11/08/94	11/09/94	11/08/94
Dilution:		10	1	1	1	1	1	1
PCB 1016	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1221	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1232	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1242	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1248	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1254	1000	19000	4100	1000 U	1000 U	12000	3300	1000 U
PCB 1260	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)		132	109	103	107	110	109	107

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04315 -006

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0	0		50-114
PCB 1221		0	0		15-178
PCB 1232		0	0		10-215
PCB 1242		0	0		39-150
PCB 1248		4200	4000		38-158
PCB 1254		0	0		29-131
PCB 1260	2200	0	2500	114	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1016		0			30	50-114
PCB 1221		0			30	15-178
PCB 1232		0			30	10-215
PCB 1242		0			30	39-150
PCB 1248		4100		2	30	38-158
PCB 1254		0			30	29-131
PCB 1260	2200	2500	114	0	30	8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits

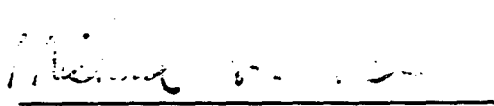
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

Client:
Mr. Thomas Forbes
Malcolm Pirnie

Job No: R94/04315
Date: 22 NOV., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 11/11/94 Date Analyzed: 11/13/94			
PCB 1260	2000	85	8 - 127


Laboratory Director

CHAIN OF CUSTODY RECORD

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 23 1994

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Thomas Forbes

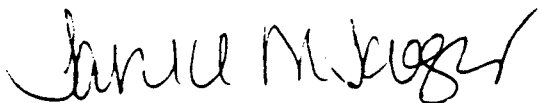
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 11/10/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04409

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques. MPI Influent and Effluent water samples were also analyzed for PCBs using method 8080. A detection limit for the Effluent sample of 0.060 ug/l was used to satisfy regulatory requirements.

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB Matrix Spike/Matrix Spike Duplicate recoveries for PCB 1260 on sample R94/04315-006 and the Precision data from the MS/MSD were all within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Samples R94/04409-001, 002, 003, and 007 were analyzed at dilution to bring PCB 1254 within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

Laboratory Director

LABORATORY REPORT

Job No: R94/04409

Date: NOV. 23 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/09/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-006	-007	-008	-009
Location:		L-22	L-25	L-9	L-4	L-34	L-35	LAB
Date Collected:		11/08/94	11/08/94	11/08/94	11/09/94	11/09/94	11/09/94	--
Time Collected:	PQL	14:55	14:58	15:05	08:50	08:40	08:45	--
Date Extracted:		11/09/94	11/09/94	11/09/94	11/09/94	11/09/94	11/09/94	11/09/94
Date Analyzed:		11/09/94	11/10/94	11/10/94	11/09/94	11/10/94	11/09/94	11/09/94
Dilution:		10	100	50	1	50	1	1
PCB 1016	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1221	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1232	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1242	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1248	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1254	1000	38000	270000	88000	1800	110000	1900	1000 U
PCB 1260	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene		115	119	123	86	118	88	82
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04315 -006

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0	0		50-114
PCB 1221		0	0		15-178
PCB 1232		0	0		10-215
PCB 1242		0	0		39-150
PCB 1248		4200	4000		38-158
PCB 1254		0	0		29-131
PCB 1260	2200	0	2500	114	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016		0			30 50-114
PCB 1221		0			30 15-178
PCB 1232		0			30 10-215
PCB 1242		0			30 39-150
PCB 1248		4100		2	30 38-158
PCB 1254		0			30 29-131
PCB 1260	2200	2500	114	0	30 8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

REMARKS: _____

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.

Job No: R94/04315

Date: 23 NOV., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

Date Extracted: 11/11/94

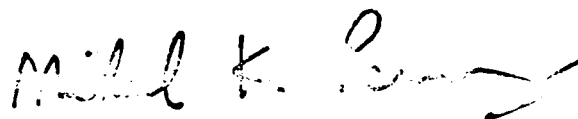
Date Analyzed: 11/13/94

PCB 1260

2000

85

8 - 127



Laboratory Director

CHAIN OF CUSTODY RECORD

**ACTS TESTING LABS, INC.**

25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 4B-6056E
Project Name: Columbus McKinnon
Project # 1332-01-4

November 10, 1994
Page 1 of 1

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analysis of one (1) soil sample for PCBs. The sample was received on November 9, 1994.

RESULTS:

ACTS #4B-6056E
I-53/S-4

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	LT 1.67 (LT 2.56)*
Arochlor 1221	LT 1.67 (LT 2.56)*
Arochlor 1232	LT 1.67 (LT 2.56)*
Arochlor 1242	LT 1.67 (LT 2.56)*
Arochlor 1248	LT 1.67 (LT 2.56)*
Arochlor 1254	16.1 (18.8)*
Arochlor 1260	LT 1.67 (LT 2.56)*

* = Duplicate results

LT = Less Than

The results are reported as micrograms per gram (ug/g).

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

Our reports and letters are for the exclusive use of the client to whom/which they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others and/or use of the name of ACTS Testing Labs, Inc. requires our prior written approval. Our letters and reports are limited solely to standards and procedures identified in them and to the sample(s) tested. Test results are not necessarily reflective nor representative of the quality of the lot from which the sample was taken or of apparently similar or identical products. Unless otherwise stated, it is the responsibility of the client to insure representativeness of the samples submitted to ACTS Testing Labs, Inc. for testing.

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CHAIN OF CUSTODY RECORD

Distribution Original accompanies shipment, copy to coordinator field files

Technical Report 4B-6105E
Project Name: Columbus McKinnon
Project # 1332-01-4

November 14, 1994

Page 1 of 1

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of two (2) soil samples for PCBs. The samples were received on November 11, 1994.

RESULTS:

ACTS #4B-6105E

ACTS #4B-6106E

L-53L-34**EPA 8080 (PCBs only)**

Polychlorinated Biphenyls as:

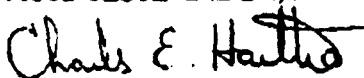
Aroclor 1016	< 1.00	< 1.00
Aroclor 1221	< 1.00	< 1.00
Aroclor 1232	< 1.00	< 1.00
Aroclor 1242	< 1.00	< 1.00
Aroclor 1248	< 1.00	< 1.00
Aroclor 1254	59.2	3.69
Aroclor 1260	< 1.00	< 1.00

Results are reported as micrograms per gram (ug/g).

EXPERIMENTAL:

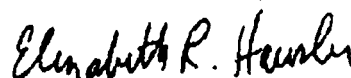
Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.



Charles E. Hartoe
Manager, Chemistry Laboratory

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[illegible]

Technical Report 4B-6107E
Project Name: Columbus McKinnon
Project # 1332-01-4

November 15, 1994

Page 1 of 1

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on November 12, 1994.

RESULTS:	ACTS #4B-6107E L-9/S-4	ACTS #4B-6108E L-15/S-4	ACTS #4B-6109E L-22/S-4	ACTS #4B-6110E L-53/S-6
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	493	182	109	15.8
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

Results are reported as micrograms per gram (ug/g).

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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[illegible]

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]



ACTS TESTING LABS, INC.
25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 4B-6134E
Project Name: Columbus McKinnon
Project # 1332-01-4

November 15, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of five (5) soil samples for PCBs. The samples were received on November 14, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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November 15, 1994
 Technical Report #4B-6134E
 Page 2 of 2

RESULTS:

	ACTS #4B-6134E <u>L-53/S-7</u>	ACTS #4B-6135E <u>C-21A-7.0'</u>	ACTS #4B-6136E <u>C-21B-8.3'</u>	ACTS #4B-6137E <u>C-22A-7.0'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

	ACTS #4B-6138E <u>C-22B-11.0'</u>
Arochlor 1016	< 1.00
Arochlor 1221	< 1.00
Arochlor 1232	< 1.00
Arochlor 1242	< 1.00
Arochlor 1248	< 1.00
Arochlor 1254	< 1.00
Arochlor 1260	< 1.00

Results are reported as micrograms per gram (ug/g).

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

[illegible]



ACTS TESTING LABS, INC.
25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 4B-6153E
Project Name: Columbus McKinnon
Project # 1332-01-4

November 15, 1994

Page 1 of 1

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of two (2) soil samples for PCBs. The samples were received on November 14, 1994.

RESULTS:	ACTS #4B-6153E	ACTS #4B-6154E
	<u>L-9/S-5</u>	<u>L-22/S-5</u>

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	< 1.00 (< 1.00)*	< 1.00
Arochlor 1221	< 1.00 (< 1.00)*	< 1.00
Arochlor 1232	< 1.00 (< 1.00)*	< 1.00
Arochlor 1242	< 1.00 (< 1.00)*	< 1.00
Arochlor 1248	< 1.00 (< 1.00)*	< 1.00
Arochlor 1254	< 1.00 (< 1.00)*	< 1.00
Arochlor 1260	< 1.00 (< 1.00)*	< 1.00

*=Duplicate results

Results are reported as micrograms per gram (ug/g).

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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PAGE. 2

APPENDIX B3
CORING METHODOLOGY AND SAMPLING RESULTS

January 25, 1995

Mr. Daniel King, P.E.
Environmental Engineer III
NYS Dept. of Environmental Conservation
Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999

Re: Columbus McKinnon
Site No. 915016
RD/RA Order on Consent

Dear Mr. King:

On behalf of Columbus McKinnon Corporation ("CM"), we thank you for your time and comments during our meeting on January 12, 1995. We appreciate your cooperation as we seek to resolve the technical issues associated with the verification sampling of the sediments in Ellicott Creek.

In accordance with our discussions, CM has completed the remaining verification sampling of the creek sediments, and we are pleased to report that all of the results received from the laboratory show that CM met the NYSDEC PCB cleanup level of less than 1 ppm. Attached for your information is a summary of the analytical results.

Unfortunately, in a very limited portion of the remaining grids there were four contiguous sampling locations at which we encountered a thick layer of timbers and other solid material through which the split-spoon sampling equipment could not penetrate, although the sampling crew used every reasonable means to obtain the appropriate verification samples. This area is highlighted on the enclosed plate. Based upon examination of historical photographs provided by CM and discussions with the divers, we believe that the timbers may be from an old timber retaining wall or building foundation in the approximate location shown on the enclosed plate. OHM removed as much of the timber retaining wall as it could with its mechanical excavator without jeopardizing the integrity of the steel sheetpile wall.

Given the consistent results of the verification samples obtained from the other sampling locations in the creek sediments, and the considerable difficulty and expense associated with using a barge-mounted rotary drilling rig to collect these remaining samples, we are requesting your approval to forgo the verification sampling in these locations.

Mr. Daniel King
NYSDEC-Region 9

January 25, 1995
Page 2

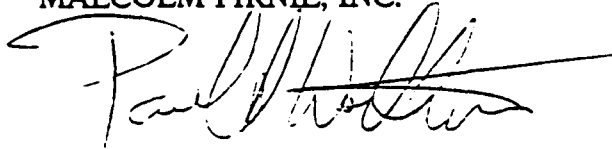
Based on the analytical results, we hope that you will agree with our conclusion that verification sampling under RD/RA Consent Order has been successfully completed.

Because of the rapidly changing weather conditions making further on-site work difficult at best, OHM Remediation Services has started to remove and decon the silt curtain and intends to start the installation of the inner sheet pile wall by the middle of next week. It is expected to take approximately four weeks to complete the sheet piling work. The on-site treatment/dewatering system is also being demobilized.

We thank you for your attention in this matter.

Very truly yours,

MALCOLM PIRNIE, INC.



Paul H. Werthman, P.E.
Vice President

c: R. Montgomery
L. Smith
T. Hadzi-Antich
T. Ried
File: 1332-014;C-6

TABLE 1
COLUMBUS MCKINNON

SUMMARY OF ELLICOTT CREEK SAMPLING RESULTS

SAMPLE LOCATION	PCB CONCENTRATION⁽¹⁾
C-6B	<1 mg/kg
C-7A	<1 mg/kg
C-7B	<1 mg/kg
C-8A	<1 mg/kg
C-8B	<1 mg/kg
C-9A	(2)
C-9B	<1 mg/kg
C-10A	(2)
C-10B	<1 mg/kg
C-11A	(2)
C-11B	<1 mg/kg
C-12A	(2)
C-12B	<1 mg/kg
C-13A	<1 mg/kg
C-13B	<1 mg/kg
C-14A	<1 mg/kg
C-14B	<1 mg/kg
C-15A	<1 mg/kg
C-15B	<1 mg/kg

Note: (1) Dry weight basis.

(2) Sampler could not be advanced through hard bottom.

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, New York 14203-2999
(716) 851-7220



February 3, 1995

Mr. Paul H. Werthman, P.E.
Malcolm Pirnie
S 3515 Abbott Road
P.O. Box 1938
Buffalo, NY 14219-0138

Dear Mr. Werthman:

Columbus McKinnon Site #915016
Verification Sampling of
Ellicott Creek Sediments

I am in receipt of your January 25, 1995 letter summarizing the results of the verification sediment sampling of Ellicott Creek for units C-6 through C-15. The results certainly suggest that the verification sampling was successful and PCB removal from these sediment units has been effective.

To fully evaluate these test results it is requested that the following information be submitted for our review:

- * A brief description of the sampling collection method utilized,
- * The depth of the sediments samples in the core at each sampling location,
- * The section of the core sample (top, middle or bottom or composite of the total sample collected) sent to the laboratory for chemical analysis, and
- * The chemical analysis results as received on the laboratory format.

Although this information will be submitted as part of a closure report for this project, it is necessary at this time so that we can provide you as early as possible the Department's position relative to further sediment removal in the creek.

Mr. Paul H. Werthman, P.E.

February 3, 1995

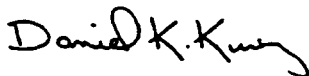
Page 2

It is my understanding that the sediment/core samples collected were split between two laboratories for analysis. If this is in fact the case, the appropriate laboratory reports should be submitted so that comparison of the split sample test results can be made. I further understand that representatives of O'Brien & Gere participated in the verification sampling effort. If so, any report they have issued on this effort would be of interest in our evaluation.

In light of the promising data submitted with your January 25, 1995 letter, the above-requested information may enable us to reach a favorable conclusion to this matter.

Should you have any questions regarding the above, please do not hesitate to contact our project engineer, Mr. Abul Barkat at 716-851-7220.

Sincerely,



Daniel K. King, P.E.
Regional Hazardous Waste
Remediation Engineer

cc: Mr. Abul Barkat, NYSDEC
Mr. Jim Tuk, NYSDEC

February 17, 1995

Mr. Daniel K. King, P.E.
Regional Hazardous Waste Remediation Engineer
NYS Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

Re: Columbus McKinnon Site #915016 - Post Dredging Sediment Verification Sampling

Dear Mr. King:

On behalf of Columbus McKinnon Corporation (CM), enclosed for your review is the information requested in your letter dated February 3, 1995 regarding further documentation of the sample collection program and analytical results for the samples collected from grids C-6 through C-15 at the Columbus McKinnon site.

Specifically, your letter requested the following:

- A brief description of the sampling collection method utilized.
- The depth of the sediment samples in the core at each sampling location.
- The section of the core sample (top, middle or bottom or composite of the total sample collected) sent to the laboratory for chemical analysis.
- The chemical analysis results as received on the laboratory format.
- Appropriate laboratory reports for a comparison of the split sample test results.
- Any reports prepared by O'Brien & Gere for Columbus McKinnon.

Sample Collection Method

Following a meeting with NYSDEC on January 12, 1995 it was agreed that a modified confirmatory sampling program was needed to obtain more representative samples of the creek sediments in the area encompassing sample grids C-6B through C-15. Samples were collected from the locations indicated on Plate 1, attached, during the period of January 18-23, 1995, and were retrieved in accordance with the procedures outlined below.

1. A floating platform-mounted rig consisting of a tripod and cathead was secured and anchored at the designated sample location, and the outboard distance from the sheetpile wall to the sample point was recorded.
2. A 4-inch diameter PVC casing was then lowered and seated in the creek bed, and the water column in the casing was flushed using a trash pump.

3. A pre-cleaned stainless steel split-spoon sampler was advanced through the casing to a maximum depth of 2 feet into the sediment, or until refusal.
4. The split spoon sampler was retrieved and opened. The outer surface of the recovered sample was then scraped away, using a stainless steel knife, starting at the lower portion of the sample and working toward the top. This was done to prevent bias of lower spoon intervals due to potential smearing of the sample surface by the split-spoon as it was advanced.
5. Wash material in the top of the spoon, if any, was discarded and the upper (i.e., 6-inch) interval of the recovered sediment was transferred to a pre-cleaned stainless steel mixing bowl using a clean stainless steel scoop. This interval was then composited and the appropriate sample volume was transferred to a laboratory-supplied sample jar for PCB analysis by Recra Environmental, Inc. In addition, approximately 20% of the samples were split and sent to Acts testing lab for independent confirmation of the results.
6. If significant split-spoon volume was retrieved, the next 6-inch sample interval was also collected and composited with a clean stainless steel scoop and bowl in the same manner as described above. Samples from this lower interval were placed in sample jars and transferred to Recra Environmental, Inc. for potential future analysis. In all cases, the upper sample result was non-detectable for PCBs and none of these deeper samples required analysis. Although the deeper sample at location C-8B (sample C-8B-2) was inadvertently analyzed by the laboratory, the result was also non-detectable for PCBs.

Depth of Sediment Samples in Cores

The core recoveries and sample intervals from each of the sample locations are provided in Figure 1, attached. As previously communicated to NYSDEC in our January 25, 1995 letter, the near-shore samples at C-9a, C-10a, C-11a and C-12a could not be collected due to the presence of a thick layer of timbers and other solid material in this area.

Section of Core Sample Collected

In all cases where samples were collected, a composite of the upper 6-inch sample interval was sent to the lab for analysis as described previously.

Laboratory Reports

As requested, copies of the analytical reports from both Recra Environmental, Inc. and Acts Testing Labs are enclosed. Per our January 27 letter, all sample results are reported as < 1 mg/kg on a dry weight basis.

Mr. Daniel K. King, P.E.
NYSDEC - Buffalo

February 17, 1995
Page 3

O'Brien & Gere Work

O'Brien & Gere's role was limited to field and laboratory QA oversight. This included visiting and reviewing the procedures of the organic laboratories at both Recra Environmental and Acts Testing Labs to verify adherence to the specified analytical methods, as well as field oversight of the sampling work to ensure that appropriate sampling techniques were implemented. Other than certain minor laboratory deviations at Acts (consisting of paperwork completion and surrogate compound addition), which we and the laboratory have concluded are insignificant, O'Brien & Gere identified no problems, and did not complete a report, in connection with its oversight activities.

We trust that this information will enable the NYSDEC to agree with our conclusion that the verification samples show no further on-site work is required in connection with the sediments in Ellicott Creek under Columbus McKinnon's RD/RA Consent Order.

We look forward to your response.

Very truly yours,

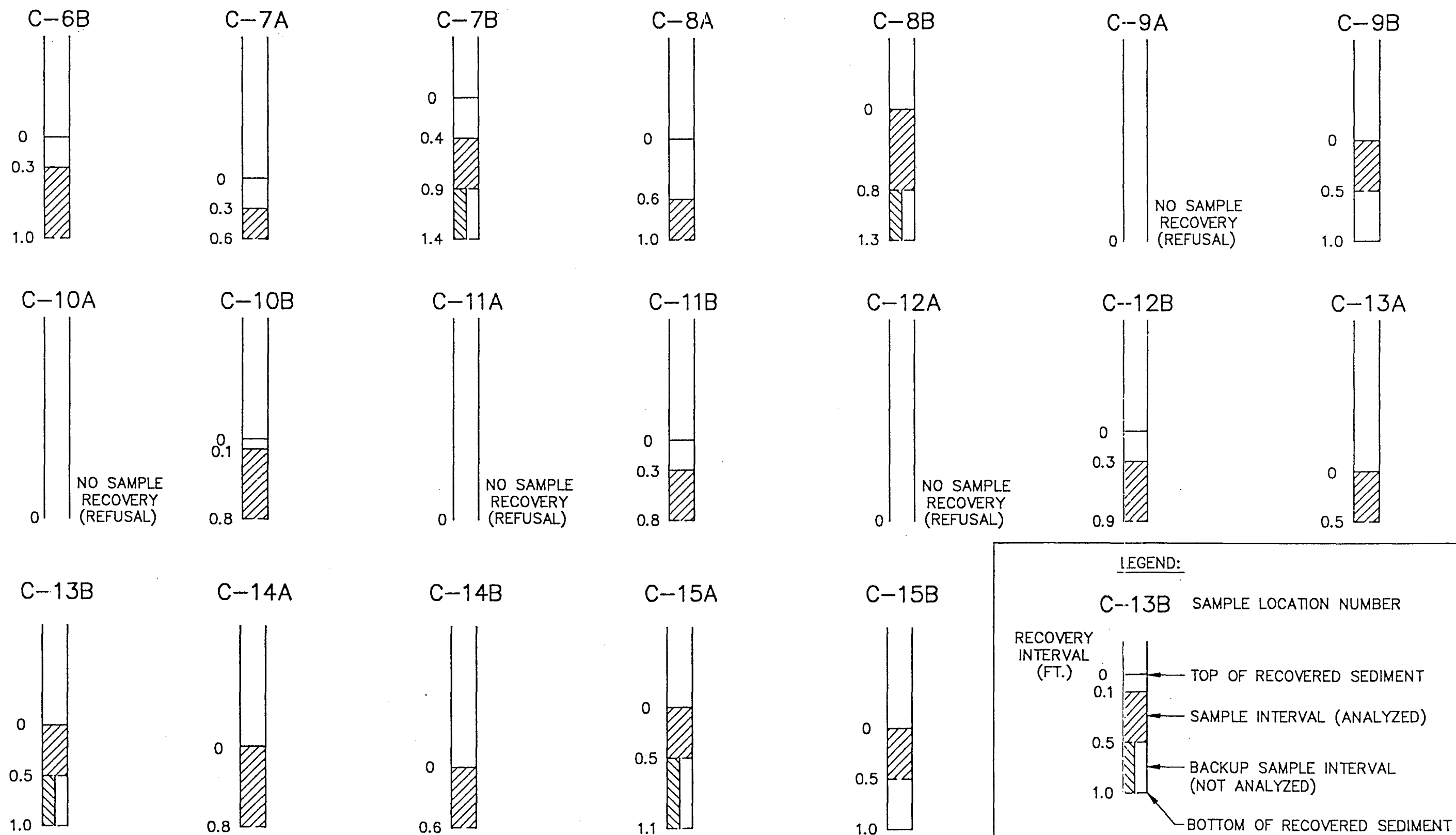
MALCOLM PIRNIE, INC.



Paul H. Werthman, P.E.
Vice President

c: A. Barkat, NYSDEC
R. Montgomery, Columbus McKinnon
L. Smith, Columbus, McKinnon
T. Hadzi-Antich, Esq.
T. Ried
File: C-6

1332-014
plb/PHW02093.L1



SCALE: 1" = 1'-0" VERT.

**MALCOLM
PIRNIE**

COLSSSI

COLUMBUS McKINNON SITE
POST DREDGING VERIFICATION SAMPLING
SPLIT SPOON SAMPLE INTERVALS

COLUMBUS McKINNON

FEBRUARY 1995

**ACTS TESTING LABS, INC.**

25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 5B-0380E
Project Name: Columbus McKinnon
Project # 1332-01-4

January 20, 1995
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of six (6) soil samples for PCBs. The samples were received on January 19, 1995.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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<u>RESULTS:</u>	ACTS #5B-0380E <u>C-9B</u>	ACTS #5B-0381E <u>C-11B</u>	ACTS #5B-0382E <u>C-12B</u>	ACTS #5B-0383E <u>C-10B</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00 (< 1.00)*	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00 (< 1.00)*	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00 (< 1.00)*	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00 (< 1.00)*	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00 (< 1.00)*	< 1.00	< 1.00	< 1.00
Arochlor 1254	< 1.00 (< 1.00)*	< 1.00	< 1.00	< 1.00
Arochlor 1260	< 1.00 (< 1.00)*	< 1.00	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

<u>% Recovery</u>	ACTS #5B-0384E <u>C-12B MS</u>	ACTS #5B-0385E <u>C-12B-MSD</u>	<u>RELATIVE PERCENT DIFFERENCE</u>
Polychlorinated Biphenyls as:			
Arochlor 1254	124.2	108	14



**RECRA
ENVIRONMENTAL
INC.**

Chemical and Environmental Analysis Services

January 20, 1995

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
S. 3515 Abbott Road
Buffalo, NY 14219

RE: Analytical Results

Dear Mr. Forbes:

Enclosed are the results concerning the analyses for the samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

Quote #: NY95-131
Project Name: Columbus McKinnon Remediation
Matrix: Soil
Sample Received: 01/18/95
Sample Dates: 01/18/95

If you have any questions concerning these data, please contact Mr. James E. Stadelmaier, Program Manager at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide Malcolm Pirnie, Inc. with Environmental Testing Services. We look forward to serving you in the future.

Sincerely,

RECRA ENVIRONMENTAL, INC.

James E. Stadelmaier
Program Manager

JES/jjc
Enclosure

I.D. #95-0305
#NY5A5273

ANALYTICAL RESULTS

Prepared For

Malcolm Pirnie, Inc.
S. 3515 Abbott Road
Buffalo, New York 14219

Prepared By

Recra Environmental, Inc.
10 Hazelwood Drive, Suite 106
Amherst, New York 14228-2298

METHODOLOGIES

The specific methodology employed in obtaining the enclosed analytical results are indicated on the specific data table. The method numbers presented refer to the following U.S. Environmental Protection Agency reference.

- * "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846), Third Edition, August 1993, U.S. Environmental Protection Agency Office of Solid Waste.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Organic Data Comment Page.

PCB DATA

No deviations from protocol were observed during the analytical procedure.



RECRA
ENVIRONMENTAL
INC.

Laboratory Name: Recra Environmental, Inc.

USEPA Defined Organic Data Qualifiers:

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.
- L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.
- T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a "P".
- A - This flag indicates that a TIC is a suspected aldol-condensation product.



RECRA
ENVIRONMENTAL
INC.

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0003

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0305 Dilution Factor: 1
Lab Samp ID: A5030501 Sample Date: 01/18/95
Client ID: C-6B Analysis Date: 01/18/95
Extraction Date: 01/18/95
% Dry Weight: 84.46

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0004

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0305 Dilution Factor: 1
Lab Samp ID: A5030502 Sample Date: 01/18/95
Client ID: C-7A Analysis Date: 01/18/95
Extraction Date: 01/18/95
% Dry Weight: 90.56

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0005

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
Lab Job No: A95-0305 Dilution Factor: 1
Lab Samp ID: A5030503 Sample Date: 01/18/95
Client ID: C-7B Analysis Date: 01/18/95
Extraction Date: 01/18/95
% Dry Weight: 86.19

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0006

MALCOLM PIRNIE METHOD 8080 - PCB

laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0305 Dilution Factor: 1
Lab Samp ID: A5030504 Sample Date: 01/18/95
lient ID: C-8A Analysis Date: 01/18/95
Extraction Date: 01/18/95
% Dry Weight: 87.27

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0007

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0305 Dilution Factor: 1
Lab Samp ID: A5030505 Sample Date: 01/18/95
Client ID: BLIND DUPLICATE Analysis Date: 01/18/95
Extraction Date: 01/18/95
% Dry Weight: 93.48

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0008

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Y Matrix: Soil Low
Lab Job No: A95-0305 Dilution Factor: 1
Lab Samp ID: A5B0039401 Sample Date: -
Client ID: METHOD BLANK Analysis Date: 01/18/95
Extraction Date: 01/18/95
% Dry Weight: 100.00

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
MALCOLM PIRNIE METHOD 8080 - PCB
SOIL SURROGATE RECOVERY

Laboratory: Recra Environmental, Inc. - RECNY
Lab Job No: A95-0305

Client Sample ID	Lab Sample ID	S1 HBB	#
BLIND DUPLICATE	A5030505	102	
C-6B	A5030501	108	
C-7A	A5030502	120	
C-7B	A5030503	112	
C-8A	A5030504	88	
MATRIX SPIKE BL DUP	A5B0039403	102	
MATRIX SPIKE BLANK	A5B0039402	123	
METHOD BLANK	A5B0039401	98	

QC Limits

S1 HBB = Hexabromobenzene

(58 - 126)

- # Column to be used to flag recovery values
- * Values outside of contract required QC limits
- D Surrogates diluted out

Date : 01/20/95 09:46
Job No: A95-0305

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
SAMPLE DATE

AN08

Client Sample ID: METHOD BLANK
Lab Sample ID: A5B0039401

MATRIX SPIKE BLANK
A5B0039402

MATRIX SPIKE BL DUP
A5B0039403

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			% RPD	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg		RPD	REC.
MALCOLM PIRNIE METHOD 8080 - PCB Aroclor 1242	MG/KG	0.35	0.37	0.30	0.30	117	123	120	5	20.0	46-158

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Recre Environmental, Inc.

0010

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332 01-4					SITE NAME: Columbus McKinnon Tong. Rec.		NO. OF CON- TAINERS	2 cc glass jar							REMARKS
SAMPLERS (SIGNATURE): <i>Kenneth Kots</i>															
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION										
	1/18/75	1030		X	C-6B	1	1							Analyze for Total PCBs USEPA 8080 Max D.L. 1.0 PPM	
	1/18/75	1230		X	C-7A	1	1								
	1/18	1500		X	C-7B	1	1								
	1/18	1530		X	C-8A	1	1								
	1/18/75			X	Blind duplicate	1	1								
	1/18/75	1500		X	C-7B-2	1	1							Hold do not analyze	
RELINQUISHED BY (SIGNATURE): <i>Kenneth Kots</i>		DATE/TIME: 1/18/75 1630		RECEIVED BY (SIGNATURE): <i>Kevin Roman</i>		RELINQUISHED BY (SIGNATURE): <i>Kevin Roman</i>		DATE/TIME: 1/18/75 1640		RECEIVED BY (SIGNATURE):					
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):					
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE): <i>[Signature]</i>		DATE/TIME: 1/18/75 1630		REMARKS: 24 Hour T.A.T. All results reported on dry weight basis Archive all leftover sample for potential future analysis.							

Distribution: Original accompanies shipment, copy to coordinator field files



**RECRA
ENVIRONMENTAL
INC.**

Chemical and Environmental Analysis Services

January 23, 1995

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
S. 3515 Abbott Road
Buffalo, NY 14219

RE: Analytical Results

Dear Mr. Forbes:

Enclosed are the results concerning the analyses for the samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

Quote #: NY95-131
Project Name: Columbus McKinnon Remediation
Matrix: Soil
Sample Received: 01/19/95
Sample Dates: 01/19/95

If you have any questions concerning these data, please contact Mr. James E. Stadelmaier, Program Manager at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide Malcolm Pirnie, Inc. with Environmental Testing Services. We look forward to serving you in the future.

Sincerely,

RECRA ENVIRONMENTAL, INC.

James E. Stadelmaier
Program Manager

JES/jjc
Enclosure

I.D. #95-0339
#NY5A5273

ANALYTICAL RESULTS

Prepared For

Malcolm Pirnie, Inc.
S. 3515 Abbott Road
Buffalo, New York 14219

Prepared By

Recra Environmental, Inc.
10 Hazelwood Drive, Suite 106
Amherst, New York 14228-2298

METHODOLOGIES

The specific methodology employed in obtaining the enclosed analytical results are indicated on the specific data table. The method numbers presented refer to the following U.S. Environmental Protection Agency reference.

- * "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846), Third Edition, August 1993, U.S. Environmental Protection Agency Office of Solid Waste.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Organic Data Comment Page.

PCB DATA

Sample C-9B exhibited a surrogate recovery for Hexabromobenzene that was below established QC limits. The sample was re-extracted and provided compliant results, showing that the analysis was in control. All other surrogate recoveries were within established QC limits.



RECRA
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Laboratory Name: Recra Environmental, Inc.

USEPA Defined Organic Data Qualifiers:

- U - Indicates compound was analyzed for but not detected.**
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.**
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.**
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.**
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.**
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.**
- G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.**
- L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.**
- T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.**
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.**
- P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a "P".**
- A - This flag indicates that a TIC is a suspected aldol-condensation product.**



**RECRA
ENVIRONMENTAL
INC.**

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

00003

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
Lab Job No: A95-0339 Dilution Factor: 1
Lab Samp ID: A5033901 Sample Date: 01/18/95
Client ID: C-8B Analysis Date: 01/19/95
Extraction Date: 01/19/95
% Dry Weight: 85.22

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

70004

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0339 Dilution Factor: 1
Lab Samp ID: A5033902 Sample Date: 01/18/95
Client ID: C-8B-2 Analysis Date: 01/19/95
Extraction Date: 01/19/95
% Dry Weight: 82.56

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0005

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0339 Dilution Factor: 1
Lab Samp ID: A5033903 Sample Date: 01/19/95
Client ID: C-9B Analysis Date: 01/19/95
Extraction Date: 01/19/95
% Dry Weight: 88.94

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

10006

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
Lab Job No: A95-0339 Dilution Factor: 1
Lab Samp ID: A5033903RE Sample Date: 01/19/95
Client ID: C-9B Analysis Date: 01/20/95
Extraction Date: 01/20/95
% Dry Weight: 88.94

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

10007

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0339 Dilution Factor: 1
Lab Samp ID: A5033904 Sample Date: 01/19/95
Client ID: C-10B Analysis Date: 01/19/95
Extraction Date: 01/19/95
% Dry Weight: 87.24

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

10008

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
I b Job No: A95-0339 Dilution Factor: 1
Lab Samp ID: A5033905 Sample Date: 01/19/95
Client ID: C-11B Analysis Date: 01/19/95
Extraction Date: 01/19/95
% Dry Weight: 85.97

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

00009

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Y Matrix: Soil Low
Lab Job No: A95-0339 Dilution Factor: 1
Lab Samp ID: A5033906 Sample Date: 01/19/95
Client ID: C-12B Analysis Date: 01/19/95
Extraction Date: 01/19/95
% Dry Weight: 85.74

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

00010

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Job No: A95-0339 Dilution Factor: 1
Lab Samp ID: A5B0041902 Sample Date: -
Client ID: METHOD BLANK Analysis Date: 01/20/95
Extraction Date: 01/20/95
% Dry Weight: 100.00

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0011

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0339 Dilution Factor: 1
Lab Samp ID: A5B0042602 Sample Date: -
Client ID: METHOD BLANK Analysis Date: 01/19/95
Extraction Date: 01/19/95
% Dry Weight: 100.00

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
MALCOLM PIRNIE METHOD 8080 - PCB
SOIL SURROGATE RECOVERY

Laboratory: Recra Environmental, Inc. - RECONY
Lab Job No: A95-0339

Client Sample ID	Lab Sample ID	S1 HBB #
C-10B	A5033904	78
C-10B MS	A5033904MS	74
C-10B MSD	A5033904SD	81
C-11B	A5033905	90
C-12B	A5033906	100
C-8B	A5033901	105
C-8B-2	A5033902	73
C-9B	A5033903	20 *
C-9B	A5033903RE	88
MATRIX SPIKE BLANK	A5B0041901	90
MATRIX SPIKE BLANK	A5B0042601	96
METHOD BLANK	A5B0041902	93
METHOD BLANK	A5B0042602	92

QC Limits

S1 HBB = Hexabromobenzene

(58 - 126)

- # Column to be used to flag recovery values
- * Values outside of contract required QC limits
- D Surrogates diluted out

Date: 01/20/95 10.55
Job No: A95-0339

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
SAMPLE DATE 01/19/95

Rept: AN0364

Client Sample ID: C-108
Lab Sample ID: A5033904

C-108 MS
A5033904MS

C-108 MSD
A5033904SD

Analyte	Units of Measure	Sample	Concentration		Spike Amount		% Recovery			% RPD	QC LIMITS	
			Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
MALCOLM PIRNIE METHOD 8080 - PCB Aroclor 1242	MG/KG	0	0.34	0.38	0.37	0.38	92	100	96	8	20.0	46-158

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Recre Environmental, Inc.

10013

Date: 01/20/95 10:05
Job No: A95-0339

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
SAMPLE DATE

Rept: A950364

Client Sample ID: METHOD BLANK
Lab Sample ID: A580041902

MATRIX SPIKE BLANK
A580041901

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
MALCOLM PIRNIE METHOD 8080 - PCB Aroclor 1242	MG/KG	0.20	0.33	61	46-158

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Recre Environmental, Inc.

10014

Date : 01/20/95 16:55
Job No: A95-0339

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
SAMPLE DATE

Rept: A950364

Client Sample ID: METHOD BLANK
Lab Sample ID: A580042602

MATRIX SPIKE BLANK
A580042601

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
MALCOLM PIRNIE METHOD 8080 - PCB Aroclor 1242	MG/KG	0.36	0.33	109	46-158

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Recre Environmental, Inc.

10015

CHAIN OF CUSTODY RECORD

[illegible]

MALCOLM PIRNIE, INC.

-Recru

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-014					SITE NAME: Columbus McGowan					NO. OF CON- TAINERS	402.9 g ss										REMARKS
SAMPLERS (SIGNATURE): <i>James Fisher</i>																					
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION																
	1/19/95	14:00		✓	C-9R					1							Analyze for TCL PCBs USEPA 8080 max DL 1ppm				
	"	10:00		✓	C-10B					1							"				
	"	10:00		✓	C-10B MS/MSD					1							MS & MSD in same jar				
	"	14:30		✓	C-11B					1							Analyze for TCL PCBs USEPA 8080 max DL 1ppm				
	"	15:30		✓	C-12B					1							"				
RELINQUISHED BY (SIGNATURE): <i>Kenneth Kirta</i>		DATE/TIME: 1-19-95/1605		RECEIVED BY (SIGNATURE): <i>Allen Komer</i>		RELINQUISHED BY (SIGNATURE): <i>Allen Komer</i>		DATE/TIME: 1/19/95/1630		RECEIVED BY (SIGNATURE):											
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):											
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE): <i>Scott [Signature]</i>		DATE/TIME: 1/19/95/1630		REMARKS: 24-hr T.A.T. All results reported on dry wt basis. Archive leachate sample for potential future analysis.													

Distribution: Original accompanies shipment, copy to coordinator field files



**RECRA
ENVIRONMENTAL
INC.**

Chemical and Environmental Analysis Services

January 23, 1995

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
S. 3515 Abbott Road
Buffalo, NY 14219

RE: Analytical Results

Dear Mr. Forbes:

Enclosed are the results concerning the analyses for the samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

Quote #: NY95-131
Project Name: Columbus McKinnon Remediation
Matrix: Aqueous/Soil
Sample Received: 01/20/95
Sample Dates: 01/19,20/95

If you have any questions concerning these data, please contact Mr. James E. Stadelmaier, Program Manager at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide Malcolm Pirnie, Inc. with Environmental Testing Services. We look forward to serving you in the future.

Sincerely,

RECRA ENVIRONMENTAL, INC.

James E. Stadelmaier
Program Manager

JES/eeb
Enclosure

I.D. #95-0390
#NY5A5273

ANALYTICAL RESULTS

Prepared For

Malcolm Pirnie, Inc.
S. 3515 Abbott Road
Buffalo, New York 14219

Prepared By

Recra Environmental, Inc.
10 Hazelwood Drive, Suite 106
Amherst, New York 14228-2298

METHODOLOGIES

The specific methodology employed in obtaining the enclosed analytical results are indicated on the specific data table. The method numbers presented refer to the following U.S. Environmental Protection Agency reference.

- * "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846), Third Edition, August 1993, U.S. Environmental Protection Agency Office of Solid Waste.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Organic Data Comment Page.

PCB DATA

No deviations from protocol were observed during the analytical procedures.



RECRA
ENVIRONMENTAL
INC.

Laboratory Name: Recra Environmental, Inc.

USEPA Defined Organic Data Qualifiers:

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.
- L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.
- T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a "P".
- A - This flag indicates that a TIC is a suspected aldol-condensation product.

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

00003

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
Lab Job No: A95-0390 Dilution Factor: 1
Lab Samp ID: A5039001 Sample Date: 01/19/95
Client ID: C-13B Analysis Date: 01/20/95
Extraction Date: 01/20/95
% Dry Weight: 86.30

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

00004

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
Lab Job No: A95-0390 Dilution Factor: 1
Lab Samp ID: A5039003 Sample Date: 01/20/95
Client ID: C-15B Analysis Date: 01/20/95
Extraction Date: 01/20/95
% Dry Weight: 70.90

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

MALCOLM PIRNIE - METHOD 8080 - PCB

laboratory: Recra Environmental, Inc. - RECNY Matrix: Aqueous
Lab Job No: A95-0390 Dilution Factor: 1
Lab Samp ID: A5039004 Sample Date: 01/20/95
Client ID: EQUIPMENT BLANK Analysis Date: 01/20/95
Extraction Date: 01/20/95

Parameter	Units = MG/L	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0006

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
ab Job No: A95-0390 Dilution Factor: 1
ab Samp ID: A5B0045802 Sample Date: -
Client ID: METHOD BLANK Analysis Date: 01/20/95
Extraction Date: 01/20/95
% Dry Weight: 100.00

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0007

MALCOLM PIRNIE - METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Aqueous
Lab Job No: A95-0390 Dilution Factor: 1
Lab Samp ID: A5B0046203 Sample Date: -
Client ID: METHOD BLANK Analysis Date: 01/20/95
Extraction Date: 01/20/95

Parameter	Units = MG/L	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0008

MALCOLM PIRNIE - METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY
Lab Job No: A95-0390
Lab Samp ID: A5B0046201
Client ID: MATRIX SPIKE BLANK

Matrix: Aqueous
Dilution Factor: 1
Sample Date: -
Analysis Date: 01/20/95
Extraction Date: 01/20/95

Parameter	Units = MG/L	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		0.010	
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

00009

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
Lab Job No: A95-0390 Dilution Factor: 1
Lab Samp ID: A5B0045801 Sample Date: -
Client ID: MATRIX SPIKE BLANK Analysis Date: 01/20/95
Extraction Date: 01/20/95
% Dry Weight: 100.00

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		0.36	
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0010

MALCOLM PIRNIE - METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Aqueous
Lab Job No: A95-0390 Dilution Factor: 1
Lab Samp ID: A5B0046202 Sample Date: -
Client ID: MATRIX SPIKE BL DUP Analysis Date: 01/20/95
Extraction Date: 01/20/95

Parameter	Units = MG/L	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		0.011	
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

*Malcolm
Pirnie*

0011

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0390 Dilution Factor: 1
Lab Samp ID: A5039001MS Sample Date: 01/19/95
Client ID: C-13B Analysis Date: 01/20/95
Extraction Date: 01/20/95
% Dry Weight: 86.30

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		0.36	
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

MSD 0012

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0390 Dilution Factor: 1
Lab Samp ID: A5039001SD Sample Date: 01/19/95
Client ID: C-13B Analysis Date: 01/20/95
Extraction Date: 01/20/95
% Dry Weight: 86.30

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		0.39	
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
MALCOLM PIRNIE - METHOD 8080 - PCB
WATER SURROGATE RECOVERY

Laboratory: Recra Environmental, Inc. - RECONY
Lab Job No: A95-0390

Client Sample ID	Lab Sample ID	S1 HBB	#
EQUIPMENT BLANK	A5039004	97	
MATRIX SPIKE BL DUP	A5B0046202	92	
MATRIX SPIKE BLANK	A5B0046201	107	
METHOD BLANK	A5B0046203	68	

S1 HBB = Hexabromobenzene

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
MALCOLM PIRNIE METHOD 8080 - PCB
SOIL SURROGATE RECOVERY

Laboratory: Recra Environmental, Inc. - RECONY
Lab Job No: A95-0390

Client Sample ID	Lab Sample ID	S1 HBB #
C-13B	A5039001	79
C-13B	A5039001MS	86
C-13B	A5039001SD	92
C-15B	A5039003	85
MATRIX SPIKE BLANK	A5B0045801	106
METHOD BLANK	A5B0045802	90

S1 HBB = Hexabromobenzene

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

Date: 01/23/95 14:46
Job No: A95-0390

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
SAMPLE DATE 01/19/95

Rept: AN0364

Client Sample ID: C-138
Lab Sample ID: A5039001

C-138
A5039001MS

C-138
A5039001SD

Analyte	Units of Measure	Sample	Concentration		Spike Amount		% Recovery			% RPD	QC LIMITS	
			Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
MALCOLM PIRNIE METHOD 8080 - PCB Aroclor 1242	MG/KG	0	0.36	0.39	0.38	0.38	95	103	99	8	20.0	46-158

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Recra Environmental, Inc.

10015

Date: 01/23/95 14.46
Job No: A95-0390

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
SAMPLE DATE

Rept: AN0364

Client Sample ID: METHOD BLANK
Lab Sample ID: A580045802

MATRIX SPIKE BLANK
A580045801

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
MALCOLM PIRNIE METHOD 8080 - PCB Aroclor 1242	MG/KG	0.36	0.33	109	46-158

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Recre Environmental, Inc.

10016

Date : 01/23/95 14:40
Job No: A95-0390

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
SAMPLE DATE

Rept: AN0364

Client Sample ID: METHOD BLANK
Lab Sample ID: A580046203

MATRIX SPIKE BLANK
A580046201

MATRIX SPIKE BL DUP
A580046202

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			% RPD	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg		RPD	REC.
MALCOLM PIRNIE - METHOD 8080 - PCB Aroclor 1242	MG/L	0.010	0.011	0.010	0.010	100	110	105	10	20.0	46-158

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Recre Environmental, Inc.

10017

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

[illegible]



**RECRA
ENVIRONMENTAL
INC.**

Chemical and Environmental Analysis Services

January 25, 1995

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
S. 3515 Abbott Road
Buffalo, NY 14219

RE: Analytical Results

Dear Mr. Forbes:

Enclosed are the results concerning the analyses for the samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

Quote #: NY95-131
Project Name: Columbus McKinnon Remediation
Matrix: Soil
Sample Received: 01/23/95
Sample Dates: 01/20,23/95

If you have any questions concerning these data, please contact Mr. James E. Stadelmaier, Program Manager at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide Malcolm Pirnie, Inc. with Environmental Testing Services. We look forward to serving you in the future.

Sincerely,

RECRA ENVIRONMENTAL, INC.

James E. Stadelmaier
Program Manager

JES/eeb
Enclosure

I.D. #95-0413
#NY5A5273

ANALYTICAL RESULTS

Prepared For

Malcolm Pirnie, Inc.
S. 3515 Abbott Road
Buffalo, New York 14219

Prepared By

Recra Environmental, Inc.
10 Hazelwood Drive, Suite 106
Amherst, New York 14228-2298

METHODOLOGIES

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COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Organic Data Comment Page.

PCB DATA

No deviations from protocol were observed during the analytical procedures.



RECRA
ENVIRONMENTAL
INC.

Laboratory Name: Recra Environmental, Inc.

USEPA Defined Organic Data Qualifiers:

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.
- L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.
- T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a "P".
- A - This flag indicates that a TIC is a suspected aldol-condensation product.



RECRA
ENVIRONMENTAL
INC.

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0003

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0413 Dilution Factor: 1
Lab Samp ID: A5041301 Sample Date: 01/20/95
Client ID: 14B Analysis Date: 01/24/95
Extraction Date: 01/24/95
% Dry Weight: 90.48

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

MALCOLM PIRNIE METHOD 8080 - PCB

*matrix
style*

0004

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
Lab Job No: A95-0413 Dilution Factor: 1
Lab Samp ID: A5041301MS Sample Date: 01/20/95
Client ID: 14B Analysis Date: 01/24/95
Extraction Date: 01/24/95
% Dry Weight: 90.48

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		0.52	
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0005

MALCOLM PIRNIE METHOD 8080 - PCB

laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
Lab Job No: A95-0413 Dilution Factor: 1
Lab Samp ID: A5041301SD Sample Date: 01/20/95
Client ID: 14B Analysis Date: 01/24/95
Extraction Date: 01/24/95
% Dry Weight: 90.48

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		0.56	
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0006

MALCOLM PIRNIE METHOD 8080 - PCB

laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0413 Dilution Factor: 1
Lab Samp ID: A5041302 Sample Date: 01/23/95
Client ID: 14A Analysis Date: 01/24/95
Extraction Date: 01/24/95
% Dry Weight: 89.86

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0007

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECN Matrix: Soil Low
Lab Job No: A95-0413 Dilution Factor: 1
Lab Samp ID: A5041303 Sample Date: 01/23/95
Client ID: 13A Analysis Date: 01/24/95
Extraction Date: 01/24/95
% Dry Weight: 87.21

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0008

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
Lab Job No: A95-0413 Dilution Factor: 1
Lab Samp ID: A5041304 Sample Date: 01/23/95
Client ID: 15A Analysis Date: 01/24/95
Extraction Date: 01/24/95
% Dry Weight: 90.76

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

0009

MALCOLM PIRNIE METHOD 8080 - PCB

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
Lab Job No: A95-0413 Dilution Factor: 1
Lab Samp ID: A5B0050401 Sample Date: -
Client ID: MATRIX SPIKE BLANK Analysis Date: 01/24/95
Extraction Date: 01/24/95
% Dry Weight: 100.00

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		0.36	
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION

MALCOLM PIRNIE METHOD 8080 - PCB

010

Laboratory: Recra Environmental, Inc. - RECNY Matrix: Soil Low
Lab Job No: A95-0413 Dilution Factor: 1
Lab Samp ID: A5B0050402 Sample Date: -
Client ID: METHOD BLANK Analysis Date: 01/24/95
Extraction Date: 01/24/95
% Dry Weight: 100.00

Parameter	Units = MG/KG	Result	Q
Aroclor 1016		1.0	U
Aroclor 1221		1.0	U
Aroclor 1232		1.0	U
Aroclor 1242		1.0	U
Aroclor 1248		1.0	U
Aroclor 1254		1.0	U
Aroclor 1260		1.0	U

MALCOLM PIRNIE, INC.
COLUMBUS MCKINNON REMEDIATION
MALCOLM PIRNIE METHOD 8080 - PCB
SOIL SURROGATE RECOVERY

Laboratory: Recra Environmental, Inc. - RECNY
Lab Job No: A95-0413

Client Sample ID	Lab Sample ID	S1 HBB	#
13A	A5041303	86	
14A	A5041302	99	
14B	A5041301	93	
14B	A5041301MS	89	
14B	A5041301SD	77	
15A	A5041304	80	
MATRIX SPIKE BLANK	A5B0050401	98	
METHOD BLANK	A5B0050402	100	

QC Limits

S1 HBB = Hexabromobenzene

(58 - 126)

- # Column to be used to flag recovery values
- * Values outside of contract required QC limits
- D Surrogates diluted out

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

[illegible]



March 22, 1995

Mr. Paul H. Werthman, P.E.
Malcolm Pirnie, Inc.
S3515 Abbott Road
P.O. Box 1928
Buffalo, NY 14219-0138

Dear Mr. Werthman:

Columbus McKinnon Site #915016 - Dredging of
Contaminated Sediments from Ellicott Creek

This office has completed its review of the verification sampling information submitted with your letter of February 17, 1995.

The information submitted indicates that verification sampling was not conducted in approximately 800 square feet of the creek (Plate I) during the January 18-23, 1995 sampling. Specifically, locations C-9a, C-10a, C-11a, and C-12a were not sampled due to the presence of a thick layer of timber. Earlier sampling data submitted via the sampling report dated January 11, 1995 indicated that sediment samples from this area were collected and revealed elevated PCB levels in the creek sediment.

To clarify and fully evaluate the effectiveness of PCB removal in this area the following questions are raised for your response:

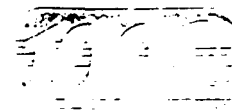
- During the January 18-23, 1995 sampling, was any effort made to relocate samples 9-a, 10-a, 11-a and 12-a slightly, so as to bypass the timber barrier and obtain sediment samples? If so, what was the result of this effort?
- Were all sediments deposited above the timber barrier removed as part of the remediation? Are there any sediments remaining in this area? Was the data presented in the January 11, 1995 sampling report for this area reflective of sediments located above or below the timber barrier?
- The boring cross sections attached with the February 17, 1995 submittal should indicate the existing creek water and creek bed elevations. What is the elevation of the timber barrier area?

Upon receipt and review of the above requested information, it is anticipated that a final determination regarding the acceptance of the verification sampling will made. Should you have any questions regarding the above, please do not hesitate to contact Mr. Abul Barkat at 716/851-7220.

Very truly yours,

A handwritten signature in black ink that reads "Daniel K. King". The signature is written in a cursive style with a prominent underline at the end.

Daniel K. King, P.E.
Regional Hazardous Waste
Remediation Engineer



April 28, 1995

Mr. Daniel K. King, P.E.
Regional Hazardous Waste Remediation Engineer
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

Re: Columbus McKinnon Site #91506
Post-Dredging Sediment Verification Sampling

Dear Mr. King:

Thank you for your March 22, 1995 comment letter regarding the additional verification sampling information recently submitted for the Columbus McKinnon site. Our responses to the issues identified in your letter are presented below.

Comment 1: *During the January 18-23, 1995 sampling, was any effort made to relocate samples 9-a, 10-a, 11-a, and 12-a slightly, so as to bypass the timber barrier and obtain sediment samples? If so, what was the result of this effort?*

Response: Multiple attempts were made to relocate each of the four sample locations in an effort to collect a representative sample with the split-spoon equipment. Attempts at locations several feet upstream and downstream as well as inboard/outboard of the intended sample site all resulted in the same problem: the inability to seat the casing coupled with split-spoon refusal. Specifically, at each location a minimum of 100 blows with the 140 lb. hammer and cathead assembly was made in an attempt to advance the split-spoon sampler. Either no advancement or only one to two inches of advancement was achieved. In most instances, no material was recovered in the split-spoon sampler, the only exception being wood, presumably from the timbers, or a very small quantity of solid, virtually impenetrable material that was encountered near the timbers, none of which was suitable for testing.

Comment 2: *Were all sediments deposited above the timber barrier removed as part of the remediation? Are there any sediments remaining in this area? Was the data presented in the January 11, 1995 sampling report for this area reflective of sediments located above or below the timber barrier?*

Response: The January 11, 1995 sampling report is reflective of sediment material that existed above the timber barrier at the time of sampling by the

divers. However, after collection of the January 11, 1995 samples and prior to the January 18-23 split-spoon sampling, the divers made a final, meticulous pass across the study area between grids C-6 and C-15 using the hydraulic dredge equipment. This action, plus our inability to recover suitable samples for testing in the timber barrier area, lead us to conclude that this final pass resulted in removal of the remaining dredgeable sediments.

Comment 3: *The boring cross-sections attached with the February 17, 1995 submittal should indicate the existing creek water and creek bed elevations. What is the elevation of the timber barrier area?*

Response: In order to answer this question, annotated copies of the relevant record drawings of the post-dredging creek bed elevations, based on plans prepared by OHM Corporation's surveyor, Millard & Mac Kay, Inc., are enclosed. To provide information as to the creek bed elevation at the split-spoon sample locations, Malcolm Pirnie has overlaid the approximate location of the split-spoon samples on the appropriate plan sheets. Daily water elevations as recorded by Malcolm Pirnie during the sample collection program are presented on the table below.

The elevations of the timber barrier area are highlighted on Sheet No. 2 of the plan sheets enclosed.

Date	Water Elevation (ftmsl)	Samples Collected
1/18/95	563.15	C-6B, C-7A, C-7B, C-8A, C-8B
1/19/95	564.80	C-9B, C-10B, C-11B, C-12B, C-13B, C-9A*, C-10A*, C-11A*
1/20/95	565.65	C-14B, C-15B, C-12A*
1/23/95	565.55	C-14A, C-13A, C-15A
* Sample collection was attempted but failed due to presence of timber barrier.		

Mr. Daniel K. King, P.E.
NYSDEC

April 28, 1995
Page 3

We apologize for the delay in transmitting this response to NYSDEC. We hope this information will enable you to conclude that no further work is required in Ellicott Creek.

We look forward to your response.

Very truly yours,

MALCOLM PIRNIE, INC.



Paul H. Werthman, P.E.
Vice President

C: A. Barkat, NYSDEC
R. Montgomery
L. Smith
T. Hadzi-Antich
T. Ried
File: C-6

1332-014
THF04215.CL

APPENDIX B4
CREEK SEDIMENT SAMPLING RESULTS

APPENDIX B.4

COLUMBUS McKINNON
REMEDIAL SITE CLEANUP PROJECT

CREEK SEDIMENT SAMPLING ANALYSIS RESULTS (PPM)

Grid	Sample Series™									
	1	2	3	4	5	6	7	8	9	
C-1a	<1.0									
1b	<1.0	5.9	<1.0							
2a	<1.0									
2b	<1.0									
3a	<1.0									
3b	<1.0									
4a	1.6	29	<1.0							
4b	<1.0	3.3	<1.0							
5a	1.2	5.7	12.0	4.8	<1.0					
5b	1.9	6.8	3.3	<1.0	3.9	1.95	22.8	<1.0		
6a	<1.0	1.9	<1.0	<1.0						
6b	3.7	12.4	1.3	18.0	4.02	23.1	17.0	*		
7a	4.1	47.9	9.35	8.87	*					
7b	NR	47.2	15.1	11.5	*					
8a	5.6	62.8	20.8	1.48	*					
8b	11.0	34.9	18.1	4.82	*					
9a	NR	25.7	77.5	128.0	23.2	*				
9b	12.0	8.62	18.6	23.6	8.23	*				
10a	3.6	30.5	61.8	216	*					
10b	3.0	19.8	13.7	43.0	*					
11a	31.0	46.4	89.5	9.45	*					
11b	8.6	22.6	18.4	22.8	*					
12a	NR	19.1	2.0	15.2	37.8	1.56	9.25	*		
12b	<1.0	2.4	2.4	77.0	22.1	<1.0	24.1	*		
13a	<1.0	9.3	3.3	<1.0	10.1	19.1	19.8	*		
C-13b	2.0	8.0	3.3	24.5	42.4	32.1	8.55	*		

APPENDIX B.4

COLUMBUS McKINNON
REMEDIAL SITE CLEANUP PROJECT

CREEK SEDIMENT SAMPLING ANALYSIS RESULTS (PPM)

Grid	Sample Series™									
	1	2	3	4	5	6	7	8	9	
C-14a	13	12.1	23	8.4	73	585	5.42	6.13	*	
14b	18	12.1	28	1.5	22	3.01	6.92	23.5	*	
15a	<1.0	<1.0	1.7	3.9	1.7	<1.0	1.18	1.50	33.3	*
15b	3.3	10.8	5.5	3.2	10.4	5.4	1.60	<1.0	5.85	*
16a	<1.0									
16b	<1.0									
17a	1.0	9.5	9.4	13	<1.0					
17b	<1.0	3.0	4.5	1.5	<1.0					
18a	1.8	3.5	8.5	2.0	<1.0					
18b	<1.0	3.7	7.2	<1.0	<1.0					
19a	3.5	8.4	6.5	<1.0						
19b	2.1	<1.0	1.9	<1.0						
20a	8.9	<1.0	3.5	<1.0						
20b	<1.0	1.9	<1.0	<1.0						
21a	3.3	2.2	2.0	<1.0						
21b	3.1	1.2	1.6	<1.0						
22a	<1.0	5.7	8.2	<1.0						
22b	2.6	1.5	2.5	<1.0						
23a	<1.0									
23b	<1.0									
24a	<1.0									
C-24b	<1.0									

Notes:

NR - Sample not recovered.

Clean up goal less than 1.0 mg/kg on dry weight basis.

* For final sample results of shaded area refer to Appendix B.3.

** Sample series represents sequential sampling of grid following dredging.

**ACTS TESTING LABS, INC.**

25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 4B-5812ER
Project # 1332-01-4
Project Name: Columbus McKinnon
REVISED REPORT

November 2, 1994
Page 1 of 3

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of thirteen (13) soil samples for PCBs. The samples were received on November 1, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler
Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici
Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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USA

Hong Kong

France

Canada



November 2, 1994
Technical Report #4B-5812ER
Page 2 of 3

RESULTS:

	ACTS #4B-5812E <u>C-19-A 8'</u>	ACTS #4B-5813E <u>C-19-B 10'</u>	ACTS #4B-5814E <u>C-20-A 5.5'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 1.00	LT 1.00	LT 1.00
Arochlor 1221	LT 1.00	LT 1.00	LT 1.00
Arochlor 1232	LT 1.00	LT 1.00	LT 1.00
Arochlor 1242	LT 1.00	LT 1.00	LT 1.00
Arochlor 1248	LT 1.00	LT 1.00	LT 1.00
Arochlor 1254	3.48	2.14	8.95
Arochlor 1260	LT 1.00	LT 1.00	LT 1.00
	ACTS #4B-5815E <u>C-20-B 10.5'</u>	ACTS #4B-5816E <u>C-21-A 3.5'</u>	ACTS #4B-5817E <u>C-21-B 10.5'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1221	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1232	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1242	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1248	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1254	LT 1.00	3.31	3.14 (3.68)*
Arochlor 1260	LT 1.00	LT 1.00	LT 1.00 (LT 1.0)*
	ACTS #4B-5818E <u>C-22-A 4.0'</u>	ACTS #4B-5819E <u>C-22-B 9.5'</u>	ACTS #4B-5820E <u>C-23-A 2.5'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1221	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1232	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1242	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1248	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1254	LT 1.00	2.62	LT 1.00 (LT 1.00)*
Arochlor 1260	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
	ACTS #4B-5821E <u>C-23-B 9.5'</u>	ACTS #4B-5822E <u>C-24-A 3.5'</u>	ACTS #4B-5823E <u>C-24-B 9.8'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 1.00	LT 1.00	LT 1.00
Arochlor 1221	LT 1.00	LT 1.00	LT 1.00
Arochlor 1232	LT 1.00	LT 1.00	LT 1.00
Arochlor 1242	LT 1.00	LT 1.00	LT 1.00
Arochlor 1248	LT 1.00	LT 1.00	LT 1.00
Arochlor 1254	LT 1.00	LT 1.00	LT 1.00
Arochlor 1260	LT 1.00	LT 1.00	LT 1.00

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-A		SITE NAME: LAWRENCE McKINNON GNA FAC		NO. OF CONTAINERS	REMARKS											
SAMPLERS (SIGNATURE): Kenneth Kota																
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION											
	11/1/94	1015		X	C-14-A 8' JAR No 107	1	1									ANALYZE FOR PCBs MAX DL 1.0PPM REPORT RESULTS ON DRY WEIGHT BASIS
		1018		X	C-14-B 10' JAR No 108	1	1									
		1021		X	C-20-A 5.5' JAR No. 109	1	1									
		1024		X	C-20-B 10.5' JAR No. 110	1	1									
		1055		X	C-21-A 3.5' JAR No 118	1	1									
		1027		X	C-21-B 10.5' JAR No 111	1	1									
		1050		X	C-22-A 4.0' JAR No 117	1	1									
		1030		X	C-22-B 9.5' JAR No 112	1	1									
		1045		X	C-23-A 2.5' JAR No. 116	1	1									
		1033		X	C-23-B 9.5' JAR No 113	1	1									
		1039		X	C-24-A 3.5' JAR No 115	1	1									
		1036		X	C-24-B 9.8' JAR No. 114	1	1									
	11/1/94			X	L-5B EL 546' (0' - 0.25m) JAR No. 106	2	2									ANALYZE FOR PCBs MAX DL 1.0PPM
RELINQUISHED BY (SIGNATURE): Kenneth Kota		DATE/TIME: 11/1/94 1155		RECEIVED BY (SIGNATURE): [Signature]		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):						
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):						
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):		DATE/TIME:		REMARKS:								



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928

Tel (716) 897-3300

Fax (716) 897-0876

Technical Report 4B-5943E
Project # 1332-01-4
Project Name: Columbus McKinnon

November 7, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of six (6) soil samples for PCBs. The samples were received on November 4, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in sludge were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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November 2, 1994
Technical Report #4B-5812ER
Page 2 of 3

RESULTS:

	ACTS #4B-5812E <u>C-19-A 8'</u>	ACTS #4B-5813E <u>C-19-B 10'</u>	ACTS #4B-5814E <u>C-20-A 5.5'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 1.00	LT 1.00	LT 1.00
Arochlor 1221	LT 1.00	LT 1.00	LT 1.00
Arochlor 1232	LT 1.00	LT 1.00	LT 1.00
Arochlor 1242	LT 1.00	LT 1.00	LT 1.00
Arochlor 1248	LT 1.00	LT 1.00	LT 1.00
Arochlor 1254	3.48	2.14	8.95
Arochlor 1260	LT 1.00	LT 1.00	LT 1.00

	ACTS #4B-5815E <u>C-20-B 10.5'</u>	ACTS #4B-5816E <u>C-21-A 3.5'</u>	ACTS #4B-5817E <u>C-21-B 10.5'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1221	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1232	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1242	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1248	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1254	LT 1.00	3.31	3.14 (3.68)*
Arochlor 1260	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*

	ACTS #4B-5818E <u>C-22-A 4.0'</u>	ACTS #4B-5819E <u>C-22-B 9.5'</u>	ACTS #4B-5820E <u>C-23-A 2.5'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1221	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1232	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1242	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1248	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1254	LT 1.00	2.62	LT 1.00 (LT 1.00)*
Arochlor 1260	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*

	ACTS #4B-5821E <u>C-23-B 9.5'</u>	ACTS #4B-5822E <u>C-24-A 3.5'</u>	ACTS #4B-5823E <u>C-24-B 9.8'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 1.00	LT 1.00	LT 1.00
Arochlor 1221	LT 1.00	LT 1.00	LT 1.00
Arochlor 1232	LT 1.00	LT 1.00	LT 1.00
Arochlor 1242	LT 1.00	LT 1.00	LT 1.00
Arochlor 1248	LT 1.00	LT 1.00	LT 1.00
Arochlor 1254	LT 1.00	LT 1.00	LT 1.00
Arochlor 1260	LT 1.00	LT 1.00	LT 1.00

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4		SITE NAME: <u>CAMPBELL McKINNEY</u> <u>TANA PAL</u>		NO. OF CONTAINERS	REMARKS												
SAMPLERS (SIGNATURE): <u>Kenneth Koto</u>																	
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION												
	11/1/94	1015		X	C-14-A	S-1	8'	JAR No 107	1	1							ANALYZE FOR PCBs MAX DL 1.0PPM
		1018		X	C-14-B	S-1	10'	JAR No 108	1	1							REPORT RESULTS ON DRY WEIGHT BASIS
		1021		X	C-20-A	S-1	5.5'	JAR No 109	1	1							
		1024		X	C-20-B	S-1	10.5'	JAR No 110	1	1							
		1055		X	C-21-A	S-1	3.5'	JAR No 118	1	1							
		1027		X	C-21-B	S-1	10.5'	JAR No 111	1	1							
		1050		X	C-22-A	S-1	4.0'	JAR No 117	1	1							
		1030		X	C-22-B	S-1	9.5'	JAR No 112	1	1							
		1045		X	C-23-A	S-1	2.5'	JAR No 116	1	1							
		1033		X	C-23-B	S-1	9.5'	JAR No 113	1	1							
		1039		X	C-24-A	S-1	3.5'	JAR No 115	1	1							
		1036		X	C-24-B	S-1	9.8'	JAR No 114	1	1							
	11/1/94	0905		X	L-58	S-4	EL 566' (0' - C-24)	JAR No 106	2	2							ANALYZE FOR PCBs MAX DL 1.0PPM
RELINQUISHED BY (SIGNATURE): <u>Kenneth Koto</u>		DATE/TIME: 11/1/94 1155		RECEIVED BY (SIGNATURE): <u>[Signature]</u>		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):							
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):							
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):		DATE/TIME:		REMARKS:									



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928

Tel (716)897-3300

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Technical Report 4B-5943E
Project # 1332-01-4
Project Name: Columbus McKinnon

November 7, 1994

Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of six (6) soil samples for PCBs. The samples were received on November 4, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in sludge were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cmc

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USA

Hong Kong

France

Canada

11/7



November 7, 1994
Technical Report #4B-5943E
Page 2 of 2

RESULTS:**EPA 8080 (PCBs only)****Polychlorinated Biphenyls as:**

	ACTS #4B-5943E <u>C-4A-3'</u>	ACTS #4B-5944E <u>C-4B-12'</u>
Arochlor 1016	LT 1.00	LT 1.00
Arochlor 1221	LT 1.00	LT 1.00
Arochlor 1232	LT 1.00	LT 1.00
Arochlor 1242	LT 1.00	LT 1.00
Arochlor 1248	LT 1.00	LT 1.00
Arochlor 1254	29.0	3.26
Arochlor 1260	LT 1.00	LT 1.00

Polychlorinated Biphenyls as:

	ACTS #4B-5945E <u>C-5A-4'</u>	ACTS #4B-5946E <u>C-5B-11.5'</u>
Arochlor 1016	LT 1.00	LT 1.00
Arochlor 1221	LT 1.00	LT 1.00
Arochlor 1232	LT 1.00	LT 1.00
Arochlor 1242	LT 1.00	LT 1.00
Arochlor 1248	LT 1.00	LT 1.00
Arochlor 1254	5.74	6.78
Arochlor 1260	LT 1.00	LT 1.00

Polychlorinated Biphenyls as:

	ACTS #4B-5947 <u>C-6A-5'</u>	ACTS #4B-5948E <u>C-6B-9.5'</u>
Arochlor 1016	LT 1.00	LT 1.00
Arochlor 1221	LT 1.00	LT 1.00
Arochlor 1232	LT 1.00	LT 1.00
Arochlor 1242	LT 1.00	LT 1.00
Arochlor 1248	LT 1.00	LT 1.00
Arochlor 1254	8.55	12.4
Arochlor 1260	LT 1.00	LT 1.00

LT=Less Than

Results are reported as micrograms per gram (ug/g).

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 15 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

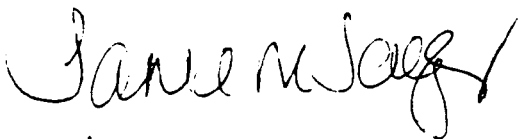
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 10/31,11/01/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
 - Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04128

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques. MPI Influent and Effluent water samples were also analyzed for PCBs using method 8080. A detection limit for the Effluent sample of 0.060 ug/l was used to satisfy regulatory requirements.

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples except R94/4128-019 and the recovery has been flagged with an "**".

The PCB matrix spike/matrix spike duplicate recoveries from Run QC is included. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

No other analytical or QC problems were encountered with this analysis.

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/04128

Date: NOV. 15 1994

Client:

Sample(s) Reference:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Columbus McKinnon

Received

: 10/28/94

P.O. #:

ANALYTICAL UNITS - %

[illegible]

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael F. Rung

Laboratory Director

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/04128

Date: NOV. 15 1994

Client:

Sample(s) Reference:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Columbus McKinnon

Received

: 10/28/94

P.O. #:

ANALYTICAL UNITS - %

[illegible]

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

LABORATORY REPORT

Job No: R94/04128

Date: NOV. 15 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 10/28/94

P.O. #:

ANALYTICAL UNITS - %

Sample: -017

Location: C-9-B

12'

Date Collected: 10/27/94

Time Collected: 17:45

Date Analyzed:

10/31/94

Solids, %

42.1

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. King

Laboratory Director

LABORATORY REPORT

Job No: R94/04128

Date: NOV. 15 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/28/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		C-1-A	C-1-B	C-2-A	C-2-B	C-3-A	C-3-B	C-4-A
		2'	10'	2'	10'	5'	10'	4'
Date Collected:		10/27/94	10/27/94	10/27/94	10/27/94	10/27/94	10/27/94	10/27/94
Time Collected:	PQL	16:15	16:20	16:25	16:30	16:35	16:40	16:45
=====								
Date Extracted:		10/28/94	10/28/94	10/28/94	10/28/94	10/28/94	10/28/94	10/28/94
Date Analyzed:		10/31/94	10/31/94	10/31/94	10/31/94	10/31/94	10/31/94	10/31/94
Dilution:		1	1	1	1	1	1	1
=====								
PCB 1016	250	640 U	610 U	710 U	710 U	600 U	610 U	370 U
PCB 1221	250	640 U	610 U	710 U	710 U	600 U	610 U	370 U
PCB 1232	250	640 U	610 U	710 U	710 U	600 U	610 U	370 U
PCB 1242	250	640 U	610	710 U	710 U	600 U	610 U	370 U
PCB 1248	250	640 U	610 U	710 U	710 U	600 U	610 U	370 U
PCB 1254	250	640 U	610 U	710 U	710 U	600 U	610 U	1600
PCB 1260	250	640 U	610 U	710 U	710 U	600 U	610 U	370 U
=====								
Surrogate Standard Recovery								

Tetrachloro-meta-xylene		109	108	110	109	108	106	107
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

Job No: R94/04128

Date: NOV. 15 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/28/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:	-008	-009	-010	-011	-012	-013	-014
Location:	C-4-B	C-5-A	C-5-B	C-6-A	C-6-B	C-7-A	C-7-B
	11.5'	3'	11.5'	5'	11'	5'	11'
Date Collected:	10/27/94	10/27/94	10/27/94	10/27/94	10/27/94	10/27/94	10/27/94
Time Collected:	PQL 16:50	16:55	17:00	17:10	17:15	17:20	17:25

Date Extracted:	10/28/94	10/28/94	10/28/94	10/28/94	10/28/94	10/28/94	10/28/94
Date Analyzed:	10/31/94	10/31/94	10/31/94	10/31/94	10/31/94	10/31/94	10/31/94
Dilution:	1	1	1	1	1	1	1
PCB 1016	250	620 U	560 U	630 U	380 U	690 U	580 U
PCB 1221	250	620 U	560 U	630 U	380 U	690 U	580 U
PCB 1232	250	620 U	560 U	630 U	380 U	690 U	580 U
PCB 1242	250	620 U	560 U	630 U	380 U	690 U	580 U
PCB 1248	250	620 U	560 U	630 U	380 U	690 U	580 U
PCB 1254	250	620 U	1200	1900	380 U	3700	4100
PCB 1260	250	620 U	560 U	630 U	380 U	690 U	580 U
Surrogate Standard Recovery							
Tetrachloro-meta-xylene		102	108	107	110	106	103
(Acceptance Limits: 60-150%)							

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

Job No: R94/04128

Date: NOV. 15 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/28/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-015	-016	-017				
Location:		C-8-A	C-8-B	C-9-B				
		8'	12'	12'				
Date Collected:		10/27/94	10/27/94	10/27/94				
Time Collected:	PQL	17:30	17:35	17:45				
=====								
Date Extracted:		10/28/94	10/28/94	10/28/94				
Date Analyzed:		10/31/94	10/31/94	10/31/94				
Dilution:		1	1	1				
PCB 1016	250	420 U	620 U	600 U				
PCB 1221	250	420 U	620 U	600 U				
PCB 1232	250	420 U	620 U	600 U				
PCB 1242	250	420 U	620 U	600 U				
PCB 1248	250	420 U	620 U	600 U				
PCB 1254	250	5600	11000	12000				
PCB 1260	250	420 U	620 U	600 U				
Surrogate Standard Recovery								

Tetrachloro-meta-xylene		106	108	119				
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

Job No: R94/04128

Date: NOV. 15 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/28/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:

-021

Location:

LAB

BLANK

Date Collected:

--

Time Collected:

PQL

--

Date Extracted:

10/28/94

Date Analyzed:

10/31/94

Dilution:

1

PCB 1016

250

250 U

PCB 1221

250

250 U

PCB 1232

250

250 U

PCB 1242

250

250 U

PCB 1248

250

250 U

PCB 1254

250

250 U

PCB 1260

250

250 U

Surrogate Standard Recovery

Tetrachloro-meta-xylene

107

(Acceptance Limits: 60-150%)

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

Job No: R94/04128

Date: NOV. 15 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 10/28/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/l

Sample:	-020								
Location:	LAB								
	BLANK								
Date Collected:	--								
Time Collected:	--								

Date Extracted:	10/28/94								
Date Analyzed:	10/29/94								
Dilution:	1								
PCB 1016	0.060 U								
PCB 1221	0.060 U								
PCB 1232	0.060 U								
PCB 1242	0.060 U								
PCB 1248	0.060 U								
PCB 1254	0.060 U								
PCB 1260	0.060 U								
Surrogate Standard Recovery									

Tetrachloro-meta-xylene	73								
(Acceptance Limits: 60-150%)									

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801



Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04230 -001

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016					50-114
PCB 1221					15-178
PCB 1232					10-215
PCB 1242					39-150
PCB 1248					38-158
PCB 1254					29-131
PCB 1260	2300	0	3100	135*	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016					30 50-114
PCB 1221					30 15-178
PCB 1232					30 10-215
PCB 1242					30 39-150
PCB 1248					30 38-158
PCB 1254					30 29-131
PCB 1260	2300	2800	122	10	30 2-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 3 outside limits
Spike Recovery: 1 out of 6 outside limits

COMMENTS: _____

LABORATORY REPORT

Client:
Mr. Tom Wells
H & A of New York
189 North Water Street
Rochester, NY 14604

Job No: R94/04230

Date: 21 NOV., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 11/02/94 Date Analyzed: 11/07/94			
PCB 1260	2000	120	8 - 127

Laboratory Director

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4		SITE NAME: Columbus McKinnon Tong. Fac.		NO. OF CON- TAINERS	REMARKS													
SAMPLERS (SIGNATURE): Kenneth Kote																		
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION													
1	10/27	1615		X	C-1-A 2'	S-1 011	1	1	Analyze for PCB's max. 10L 1.0 PPM dry weight report results on dry weight basis									
2		1620			C-1-B 10'	S-1 012												
3		1625			C-2-A 2'	S-1 010												
4		1630			C-2-B 10'	S-1 013												
5		1635			C-3-A 5'	S-1 014												
6		1640			C-3-B 10'	S-1 015												
7		1645			C-4-A 4'	S-1 016												
8		1650			C-4-B 11.5'	S-1 017												
9		1655			C-5-A 3'	S-1 018												
10		1700			C-5-B 11.5'	S-1 019												
11		1710			C-6-A 5'	S-1 020												
12		1715			C-6-B 11'	S-1 021												
13		1720			C-7-A 5'	S-1 022												
14		1725			C-7-B 11'	S-1 023												

RELINQUISHED BY (SIGNATURE): Kenneth Kote	DATE/TIME: 10/28/94 0935	RECEIVED BY (SIGNATURE): C. McKeon	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME: 10/28/94 12:30	REMARKS:	

Distribution: Original accompanies shipment, copy to coordinator field files

SHEET 1 OF 2

CHAIN OF CUSTODY RECORD

SHEET 200 2

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 16 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 11/02/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.



CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04252

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples except for sample R94/4252-005..

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

Samples R94/04252-003 and 004 were analyzed at dilutions to bring target analytes within the calibration range of the method.

No other analytical or QC problems were encountered with this analysis.

LABORATORY REPORT

Job No: R94/04252

Date: NOV. 16 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/01/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-007
Location:		C-10-A	C-10-B	C-11-A	C-11-B	C-12-B	C-13-B	C-14-A
		4.5'	11.5'	4.5'	12.4'	11.5'	8.0'	7.0'
Date Collected:		10/31/94	10/31/94	10/31/94	10/31/94	10/31/94	10/31/94	10/31/94
Time Collected:	PQL	11:50	11:55	12:00	12:05	12:15	12:25	12:30
=====								
Date Extracted:		11/01/94	11/01/94	11/01/94	11/01/94	11/01/94	11/01/94	11/01/94
Date Analyzed:		11/01/94	11/01/94	11/02/94	11/02/94	11/01/94	11/01/94	11/02/94
Dilution:		1	1	10	2	1	1	1
=====								
PCB 1016	1000	1000 U	1000 U	10000 U	2000 U	1000 U	1000 U	1000 U
PCB 1221	1000	1000 U	1000 U	10000 U	2000 U	1000 U	1000 U	1000 U
PCB 1232	1000	1000 U	1000 U	10000 U	2000 U	1000 U	1000 U	1000 U
PCB 1242	1000	1000 U	1000 U	10000 U	2000 U	1000 U	1000 U	1000 U
PCB 1248	1000	1000 U	1000 U	10000 U	2000 U	1000 U	1000 U	1000 U
PCB 1254	1000	3600	3000	31000	8600	1000 U	2000	1300
PCB 1260	1000	1000 U	1000 U	10000 U	2000 U	1000 U	1000 U	1000 U
=====								
Surrogate Standard Recovery								

Tetrachloro-meta-xylene		87	89	133	105	47*	89	86
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry
Laboratory Director

LABORATORY REPORT

Job No: R94/04252

Date: NOV. 16 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/01/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-008	-009	-010	-011	-012	-013	-014
Location:		C-14-B	C-15-A	C-15-B	C-16-A	C-16-B	C-17-A	C-17-B
		10.0'	7.0'	10.0'	8.0'	9.0'	5.5'	9.5'
Date Collected:		10/31/94	10/31/94	10/31/94	10/31/94	10/31/94	10/31/94	10/31/94
Time Collected:	PQL	12:35	12:40	12:45	12:50	12:55	13:00	13:05
=====								
Date Extracted:		11/01/94	11/01/94	11/01/94	11/01/94	11/01/94	11/01/94	11/01/94
Date Analyzed:		11/02/94	11/02/94	11/02/94	11/02/94	11/02/94	11/02/94	11/02/94
Dilution:		1	1	1	1	1	1	1
PCB 1016	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1221	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1232	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1242	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1248	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1254	1000	1800	1000 U	3300	1000 U	1000 U	1000	1000 U
PCB 1260	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene		89	102	102	108	101	94	97
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael R. [Signature]

Laboratory Director

LABORATORY REPORT

Job No: R94/04252

Date: NOV. 16 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/01/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-015	-016	-017					
Location:		C-18-A	C-18-B	LAB					
		6.0'	8.5'	BLANK					
Date Collected:		10/31/94	10/31/94	--					
Time Collected:	PQL	13:15	13:10	--					
=====									
Date Extracted:		11/01/94	11/01/94	11/01/94					
Date Analyzed:		11/02/94	11/02/94	11/01/94					
Dilution:		1	1	1					
PCB 1016	1000	1000 U	1000 U	1000 U					
PCB 1221	1000	1000 U	1000 U	1000 U					
PCB 1232	1000	1000 U	1000 U	1000 U					
PCB 1242	1000	1000 U	1000 U	1000 U					
PCB 1248	1000	1000 U	1000 U	1000 U					
PCB 1254	1000	1800	1000 U	1000 U					
PCB 1260	1000	1000 U	1000 U	1000 U					
Surrogate Standard Recovery									
Tetrachloro-meta-xylene		92	95	88					
(Acceptance Limits: 60-150%)									

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Long

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04230 -001

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016					50-114
PCB 1221					15-178
PCB 1232					10-215
PCB 1242					39-150
PCB 1248					38-158
PCB 1254					29-131
PCB 1260	2300	0	3100	135*	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016					30 50-114
PCB 1221					30 15-178
PCB 1232					30 10-215
PCB 1242					30 39-150
PCB 1248					30 38-158
PCB 1254					30 29-131
PCB 1260	2300	2800	122	10	30 2-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

PD: 0 out of 3 outside limits

Spike Recovery: 1 out of 6 outside limits

OMMENTS: _____

Client:
Mr. Tom Wells
H & A of New York
189 North Water Street
Rochester, NY 14604

Job No: R94/04230
Date: 21 NOV., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

Date Extracted: 11/02/94
Date Analyzed: 11/07/94

PCB 1260

2000

120

8 - 127

Laboratory Director

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

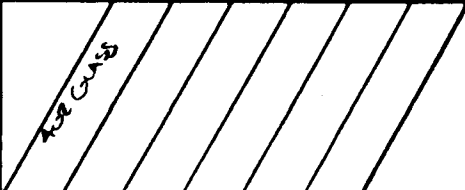
PROJECT NO.: 1332-01-4		SITE NAME: COUNCIL BLVD. MCKINNAW TUNIA, EX.		NO. OF CON- TAINERS	REMARKS											
SAMPLERS (SIGNATURE): Kenneth Koty																
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION											
-001	11/14	1150		X	C-10-A 4.5'	S-1 Jre No. 090	1	1								ANALYZE FOR PCBs MAX DL 1.0 PPM REPORT RESULTS ON DRY WEIGHT BASIS
-002		1155		X	C-10-B 11.5'	S-1 Jre No. 091	1	1								
-003		1200		X	C-11-A 4.5'	S-1 Jre No. 092	1	1								
-004		1205		X	C-11-B 12.4'	S-1 Jre No. 093	1	1								
				X	C-12-A 11.5'	S-1 Jre No. 094	1	1								
-005		1215		X	C-12-B 11.5'	S-1 Jre No. 094	1	1								
				X	C-13-A 8.0'	S-1 Jre No. 095	1	1								
-006		1225		X	C-13-B 8.0'	S-1 Jre No. 095	1	1								
-007		1230		X	C-14-A 7.0'	S-1 Jre No. 096	1	1								
-008		1235		X	C-14-B 10.0'	S-1 Jre No. 097	1	1								
-009		1240		X	C-15-A 7.0'	S-1 Jre No. 098	1	1								
-010		1245		X	C-15-B 10.0'	S-1 Jre No. 099	1	1								
-011		1250		X	C-16-A 8'	S-1 Jre No. 100	1	1								
-012		1255		X	C-16-B 9'	S-1 Jre No. 101	1	1								

RELINQUISHED BY (SIGNATURE): Kenneth Koty	DATE/TIME: 11/14/94 0908	RECEIVED BY (SIGNATURE): P. McManis	RELINQUISHED BY (SIGNATURE): C. Chocoma	DATE/TIME: 11/14/94 0920	RECEIVED BY (SIGNATURE): Cliff Caswell
RELINQUISHED BY (SIGNATURE): P. McManis	DATE/TIME: 11/14/94 0915	RECEIVED BY (SIGNATURE): C. Chocoma	RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE/TIME: 11/11/94 12:10	REMARKS:	

Distribution: Original accompanies shipment, copy to coordinator field files

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1352-01-4				SITE NAME: Columbus Mall/Novel TUNA FACILITY				NO. OF CONTAINERS									REMARKS		
SAMPLERS (SIGNATURE): <i>[Signature]</i> (GARY L. LEE)																			
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION														
	11/4/99	1300		X	C-4A 3'	S-2 126	1	1									ANALYZE FOR PCBs MAX DL 1.0 PPM REPORT RESULTS ON DRY WEIGHT BASIS ↓		
	11/4	1302		X	C-4B 12'	S-2 127	1	1											
	11/4	1320		X	C-5A 4'	S-2 129	1	1											
	11/4	1312		X	C-5B 11.5'	S-2 128	1	1											
	11/4	1326		X	C-6A 5'	S-2 130	1	1											
	11/4	1332		X	C-67 9.5'	S-2 131	1	1											
RELINQUISHED BY (SIGNATURE): <i>[Signature]</i> (GARY L. LEE)				DATE/TIME: 11/4/99 1446		RECEIVED BY (SIGNATURE): <i>[Signature]</i>				RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED BY (SIGNATURE):			
RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED BY (SIGNATURE):				RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED BY (SIGNATURE):			
RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):				DATE/TIME:		REMARKS:							



ACTS TESTING LABS, INC.
25 Anderson Road
Buffalo, NY 14225-4928
Tel (716)897-3300
Fax (716)897-0876

Technical Report 4B-5977E
Project # 1332-01-4
Project Name: Columbus McKinnon

November 8, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of twelve (12) sludge samples for PCBs. The samples were received on November 7, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in sludge were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

Our reports and letters are for the exclusive use of the client to whom/which they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others and/or use of the name of ACTS Testing Labs, Inc. requires our prior written approval. Our letters and reports are limited solely (i) to standards and procedures identified in them and (ii) to the sample(s) tested. Test results are not necessarily indicative nor representative (i) of the quality of the lot from which the sample was taken or (ii) of apparently similar or identical products. Unless otherwise stated, it is the responsibility of the client to insure the representativeness of the samples submitted to ACTS Testing Labs, Inc. for testing.



November 8, 1994
Technical Report #4B-5977E
Page 2 of 2

RESULTS:

	ACTS #4B-5977E <u>C-19A-6'</u>	ACTS #4B-5978E <u>C-19B-11'</u>	ACTS #4B-5979E <u>C-20A-8'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 2.76	LT 1.00	LT 1.00
Arochlor 1221	LT 2.76	LT 1.00	LT 1.00
Arochlor 1232	LT 2.76	LT 1.00	LT 1.00
Arochlor 1242	LT 2.76	LT 1.00	LT 1.00
Arochlor 1248	LT 2.76	LT 1.00	LT 1.00
Arochlor 1254	8.43	LT 1.00	LT 1.00
Arochlor 1260	LT 2.76	LT 1.00	LT 1.00

	ACTS #4B-5980E <u>C-20B-12'</u>	ACTS #4B-5981E <u>C-21A-8'</u>	ACTS #4B-5982E <u>C-21B-11'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1221	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1232	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1242	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1248	LT 1.00	LT 1.00	LT 1.00 (LT 1.00)*
Arochlor 1254	1.93	2.23	1.20 (1.25)*
Arochlor 1260	LT 1.00	LT 1.00	LT 1.00 (LT 1.0)*

	ACTS #4B-5983E <u>C-22A-6'</u>	ACTS #4B-5984E <u>C-22B-10.5'</u>	ACTS #4B-5985E <u>C-17A-6'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 2.47	LT 1.00	LT 3.02
Arochlor 1221	LT 2.47	LT 1.00	LT 3.02
Arochlor 1232	LT 2.47	LT 1.00	LT 3.02
Arochlor 1242	LT 2.47	LT 1.00	LT 3.02
Arochlor 1248	LT 2.47	LT 1.00	LT 3.02
Arochlor 1254	5.71	1.47	9.45
Arochlor 1260	LT 2.47	LT 1.00	LT 3.02

	ACTS #4B-5986E <u>C-17B-9.5'</u>	ACTS #4B-5987E <u>C-18A-6'</u>	ACTS #4B-5988E <u>C-18B-9'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	LT 1.00	LT 1.00	LT 1.00
Arochlor 1221	LT 1.00	LT 1.00	LT 1.00
Arochlor 1232	LT 1.00	LT 1.00	LT 1.00
Arochlor 1242	LT 1.00	LT 1.00	LT 1.00
Arochlor 1248	LT 1.00	LT 1.00	LT 1.00
Arochlor 1254	3.01	3.50	3.74
Arochlor 1260	LT 1.00	LT 1.00	LT 1.00

LT=Less Than

Results are reported as micrograms per gram (ug/g).

*-Duplicate results

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-A					SITE NAME: Columbus McKinnon Tennessee Facility		NO. OF CON- TAINERS	REMARKS									
SAMPLERS (SIGNATURE): <i>[Signature]</i>																	
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION												
	11/7/99	1321		X	C-19A 6'	S-2 Jm 146	1	1									Analyze for PCBs Max DL 1.0ppm Report results on dry weight basis
	11/7	1326		X	C-19B 11'	S-2 Jm 147	1	1									
	11/7	1320		X	C-20A 9'	S-2 Jm 145	1	1									
	11/7	1322		X	C-20B 12'	S-2 Jm 146	1	1									
	11/7	1316		X	C-21A 9'	S-2 Jm 144	1	1									
	11/7	1313		X	C-21B 11'	S-2 Jm 143	1	1									
	11/7	1305		X	C-21A 6'	S-2 Jm 141	1	1									
	11/7	1308		X	C-22B 10.5'	S-2 Jm 142	1	1									
	11/7	1353		X	C-17A 6'	S-2 Jm 152	1	1									
	11/7	1350		X	C-17B 9.5'	S-2 Jm 151	1	1									
	11/7	1345		X	C-18A 6'	S-2 Jm 149	1	1									
	11/7	1347		X	C-18B 9'	S-2 Jm 150	1	1									
RELINQUISHED BY (SIGNATURE): <i>[Signature]</i> DATE/TIME: 11/7/99 1419 RECEIVED BY (SIGNATURE): <i>[Signature]</i>																	
RELINQUISHED BY (SIGNATURE): DATE/TIME: RECEIVED BY (SIGNATURE):																	
RELINQUISHED BY (SIGNATURE): DATE/TIME: RECEIVED FOR LABORATORY BY (SIGNATURE): DATE/TIME: REMARKS:																	

Distribution: Original accompanies shipment, copy to coordinator field files

General
Testing
Corporation

A Full Service Environmental Laboratory

NOV. 22 1994

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus Mckinnon

Dear Mr. Thomas Forbes

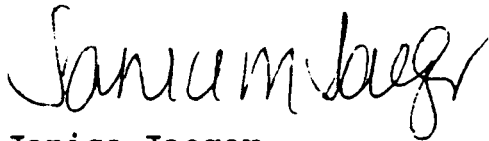
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 11/09/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

Laboratory Director

LABORATORY REPORT

Job No: R94/04392

Date: NOV. 22 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus Mckinnon

Received

: 11/08/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-005	-006	-010
Location:		L-53	L-58	C-4A	C-4B	C-5A	C-5B	LAB
				5.0'	12.0'	4.5'	10.0'	BLANK
Date Collected:		11/07/94	11/07/94	11/07/94	11/07/94	11/07/94	11/07/94	--
Time Collected:	PQL	11:15	11:20	15:40	15:47	15:50	15:55	--
=====								
Date Extracted:		11/08/94	11/08/94	11/08/94	11/08/94	11/08/94	11/08/94	11/08/94
Date Analyzed:		11/08/94	11/08/94	11/08/94	11/08/94	11/08/94	11/09/94	11/08/94
Dilution:		10	1	1	1	1	1	1
PCB 1016	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1221	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1232	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1242	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1248	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
PCB 1254	1000	19000	4100	1000 U	1000 U	12000	3300	1000 U
PCB 1260	1000	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
Surrogate Standard Recovery								
Tetrachloro-meta-xylene (Acceptance Limits: 60-150%)		132	109	103	107	110	109	107

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

Job No: R94/04392

Date: NOV. 22 1994

Client:

Mr. Thomas Forbes
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus Mckinnon

Received

: 11/08/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/l

Sample:	-007	-008	-009						
Location:	INFLUENT	EFFLUENT	LAB						
	JAR 41	JAR 42	BLANK						
Date Collected:	11/08/94	11/08/94	--						
Time Collected:	03:00	03:00	--						
=====									
Date Extracted:	11/08/94	11/08/94	11/08/94						
Date Analyzed:	11/08/94	11/09/94	11/09/94						
Dilution:	1	1	1						
PCB 1016	0.50 U	0.060 U	0.060 U						
PCB 1221	0.50 U	0.060 U	0.060 U						
PCB 1232	0.50 U	0.060 U	0.060 U						
PCB 1242	0.50 U	0.060 U	0.060 U						
PCB 1248	0.50 U	0.060 U	0.060 U						
PCB 1254	0.62	0.060 U	0.060 U						
PCB 1260	0.50 U	0.060 U	0.060 U						
Surrogate Standard Recovery									

Tetrachloro-meta-xylene	90	75	76						
(Acceptance Limits: 60-150%)									

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04315 -006

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0	0		50-114
PCB 1221		0	0		15-178
PCB 1232		0	0		10-215
PCB 1242		0	0		39-150
PCB 1248		4200	4000		38-158
PCB 1254		0	0		29-131
PCB 1260	2200	0	2500	114	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016		0			30 50-114
PCB 1221		0			30 15-178
PCB 1232		0			30 10-215
PCB 1242		0			30 39-150
PCB 1248		4100		2	30 38-158
PCB 1254		0			30 29-131
PCB 1260	2200	2500	114	0	30 8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

LABORATORY REPORT

Client:
Mr. Thomas Forbes
Malcolm Pirnie

Job No: R94/04315

Date: 22 NOV., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 11/11/94 Date Analyzed: 11/13/94			
PCB 1260	2000	85	8 - 127

Laboratory Director

CHAIN OF CUSTODY RECORD

Distribution Original accompanies shipment copy to coordinator field files



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928

Tel (716) 897-3300

Fax (716) 897-0876

Technical Report 4B-6057E
Project # 1332-01-4
Project Name: Columbus McKinnon

November 10, 1994

Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of twelve (12) sludge samples for PCBs. The samples were received on November 9, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in sludge were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

CMC

Our reports and letters are for the exclusive use of the client to whom/which they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others (under use of the name of ACTS Testing Labs, Inc. requires our prior written approval. Our letters and reports are limited solely (i) to standards and procedures identified in them and (ii) to the sample(s) tested. Test results are not necessarily indicative nor representative (i) of the quality of the lot from which the sample was taken or (ii) of apparently similar or identical products. Unless otherwise stated, it is the responsibility of the client to insure the representativeness of the samples submitted to ACTS Testing Labs, Inc. for testing.

USA

Hong Kong

France

Canada



November 10, 1994
Technical Report #4B-6057E
Page 2 of 2

RESULTS:

	ACTS #4B-6057E <u>C-17A-5'</u>	ACTS #4B-6058E <u>C-17B-10'</u>	ACTS #4B-6059E <u>C-18A-6'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00
Arochlor 1254	9.43	4.53	8.45
Arochlor 1260	< 1.00	< 1.00	< 1.00
	ACTS #4B-6060E <u>C-18B-9'</u>	ACTS #4B-6061E <u>C-19A-6'</u>	ACTS #4B-6062E <u>C-19B-11'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00
Arochlor 1254	7.18	6.53	1.91
Arochlor 1260	< 1.00	< 1.00	< 1.00
	ACTS #4B-6063E <u>C-20A-5'</u>	ACTS #4B-6064E <u>C-20B-10'</u>	ACTS #4B-6065E <u>C-21A-8'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00
Arochlor 1254	3.46	< 1.00	2.02
Arochlor 1260	< 1.00	< 1.00	< 1.00
	ACTS #4B-6066E <u>C-21B-10'</u>	ACTS #4B-6067E <u>C-22A-7'</u>	ACTS #4B-6068E <u>C-22B-10'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00
Arochlor 1254	1.61	8.23	2.51
Arochlor 1260	< 1.00	< 1.00	< 1.00

Results are reported as micrograms per gram (ug/g).

ACTS

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4				SITE NAME: Columbus McKinnon Tonga Fac.				NO. OF CONTAINERS		REMARKS									
SAMPLERS (SIGNATURE): <i>Kenneth Kote</i>																			
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION														
	11/4	1406		X	C-17A 5'	S-3 JAR 164	1	1	ANALYZE FOR PERS MAX DL 1.0 PPM REFER RESULTS ON DRY WEIGHT BASIS										
	11/4	1410		X	C-17B 10'	S-3 JAR 165	1	1											
	11/4	1421		X	C-18A 6'	S-3 JAR 167	1	1											
	11/4	1415		X	C-18B 9'	S-3 JAR 166	1	1											
	11/4	1425		X	C-19A 6'	S-3 JAR 168	1	1											
	11/4	1502		X	C-19B 11'	S-3 JAR 175	1	1											
	11/4	1430		X	C-20A 5'	S-3 JAR 169	1	1											
	11/4	1457		X	C-20B 10'	S-3 JAR 174	1	1											
	11/4	1435		X	C-21A 8'	S-3 JAR 170	1	1											
	11/4	1452		X	C-21B 10'	S-3 JAR 173	1	1											
	11/4	1440		X	C-22A 7'	S-3 JAR 171	1	1											
	11/4	1448		X	C-22B 10'	S-3 JAR 172	1	1											
RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED BY (SIGNATURE):				RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED BY (SIGNATURE):			
RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED BY (SIGNATURE):				RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED BY (SIGNATURE):			
RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):				DATE/TIME:		REMARKS:							

Distribution: Original accompanies shipment, copy to coordinator field files

**General
Testing
Corporation**

A Full Service Environmental Laboratory

DEC. 1 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

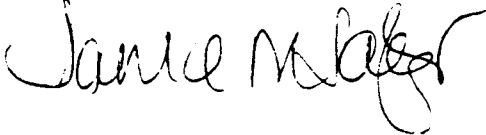
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 11/14/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.



Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04455

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques. A detection limit for the Effluent sample of 0.060 ug/l was used to satisfy regulatory requirements.

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB Matrix Spike/Matrix Spike Duplicate recoveries for PCB 1260 on sample R94/04461-004 and the Precision data from the MS/MSD were all within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

No other analytical or QC problems were encountered with this analysis.



LABORATORY REPORT

Date: DEC. 1 1994

Sample(s) Reference:

Columbus McKinnon

P.O. #:

ANALYTICAL UNITS - 8

Sample:	-003	-004	-005	-006			
Location:	C-6A	C-6B	C5-A	C5-B			
	6.0'	9.8'	7.5'	10.0'			
Date Collected:	11/11/94	11/11/94	11/11/94	11/11/94			
Time Collected:	08:40	08:45	08:50	08:57			

Date Analyzed:	11/11/94	11/11/94	11/11/94	11/11/94

Solids, %	45.0	37.4	26.2	56.6

NY ID# in Hackensack: 10801

Laboratory Director

LABORATORY REPORT

Job No: R94/04455

Date: DEC. 1 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/11/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-003	-004	-005	-006	-007		
Location:		C-6A	C-6B	C5-A	C5-B	LAB		
		6.0'	9.8'	7.5'	10.0'	BLANK		
Date Collected:		11/11/94	11/11/94	11/11/94	11/11/94	--		
Time Collected:	PQL	08:40	08:45	08:50	08:57	--		
=====								
Date Extracted:		11/11/94	11/11/94	11/11/94	11/11/94	11/11/94		
Date Analyzed:		11/13/94	11/13/94	11/13/94	11/13/94	11/12/94		
Dilution:		1	1	1	1	1		
PCB 1016	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
PCB 1221	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
PCB 1232	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
PCB 1242	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
PCB 1248	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
PCB 1254	1000	1000 U	1300	4800	1000 U	1000 U		
PCB 1260	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
Surrogate Standard Recovery								
Tetrachloro-meta-xylene		94	95	94	94	86		
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04461 -004

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0	0		50-114
PCB 1221		0	0		15-178
PCB 1232		0	0		10-215
PCB 1242		0	0		39-150
PCB 1248		0	0		38-158
PCB 1254		0	0		29-131
PCB 1260	2300	0	2300	100	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016		0			30 50-114
PCB 1221		0			30 15-178
PCB 1232		0			30 10-215
PCB 1242		0			30 39-150
PCB 1248		0			30 38-158
PCB 1254		0			30 29-131
PCB 1260	2300	2300	100	0	30 8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

PD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

LABORATORY REPORT

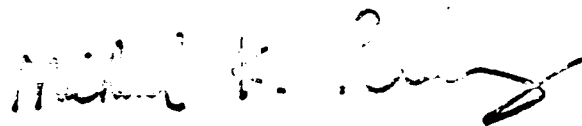
Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/04455

Date: 1 DEC., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 11/12/94 Date Analyzed: 11/13/94			
PCB 1260	2.0	75	8 - 127



Laboratory Director

Client:
Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/04455

Date: 1 DEC., 1994

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

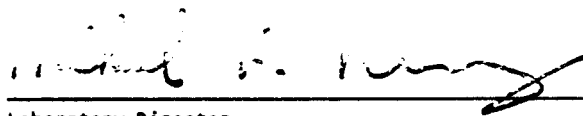
Date Extracted: 11/12/94
Date Analyzed: 11/13/94

PCB 1260

2000

90

8 - 127


Laboratory Director

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]

Distribution Original accompanies shipment, copy to coordinator field files

FEB'S / 346 / II / Ron / N



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876Technical Report 4B-6134E
Project Name: Columbus McKinnon
Project # 1332-01-4November 15, 1994
Page 1 of 2Mr. Michael Evanko
OHM CORPORATIONSUBJECT:

Analyses of five (5) soil samples for PCBs. The samples were received on November 14, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

Our reports and letters are for the exclusive use of the client to whom/which they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others without the name of ACTS Testing Labs, Inc. requires our prior written approval. Our letters and reports are limited solely (i) to standards and procedures identified in them and (ii) to the sample(s) tested. Test results are not necessarily indicative nor representative (i) of the quality of the lot from which the sample was taken or (ii) of approximately similar or identical materials. Unless otherwise stated, it is the responsibility of the client to insure the representativeness of the samples submitted to ACTS Testing Labs, Inc. for testing.

USA

Hong Kong

France

Canada



November 15, 1994
 Technical Report #4B-6134E
 Page 2 of 2

RESULTS:

ACTS #4B-6134E

ACTS #4B-6135E

ACTS #4B-6136E

ACTS #4B-6137E

L-53/S-7C-21A-7.0C-21B-8.3C-22A-7.0EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

ACTS #4B-6138E

C-22B-11.0

Arochlor 1016	< 1.00
Arochlor 1221	< 1.00
Arochlor 1232	< 1.00
Arochlor 1242	< 1.00
Arochlor 1248	< 1.00
Arochlor 1254	< 1.00
Arochlor 1260	< 1.00

Results are reported as micrograms per gram (ug/g).

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4					SITE NAME: Columbus McKinnon Tona. Fac.		NO. OF CON- TAINERS	208 glass jar glass							REMARKS
SAMPLERS (SIGNATURE): Kenneth Kola															
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION										
	11/14/94	1120		X	L-53 el. 560.70	S-7 jar 190	2	2							Analyze for PCB's method 8080
				X	L- el.	S- jar									
				X	L- el.	S- jar									
		1050		X	C-21A d-7.0'	S-34 jar 186	1	1							Analyze for PCB's max. DL 1.0 PPM Report Results on Dry Weight Basis
		1055		X	C-21B d-8.3'	S-34 jar 187	1	1							
		1105		X	C-22A d-7.0'	S-34 jar 188	1	1							
	✓	1110		X	C-22B d-11.0'	S-34 jar 189	1	1							
RELINQUISHED BY (SIGNATURE): Kenneth Kola		DATE/TIME: 11/14/94 1200		RECEIVED BY (SIGNATURE): [Signature]		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):					
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):					
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):		DATE/TIME:		REMARKS:							



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928

Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 4B-6181E
Project # 1332-01-4
Project Name: Columbus McKinnon

November 17, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of eight (8) soil samples for PCBs. The samples were received on November 16, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

Reports and letters are for the exclusive use of the client to whom/which they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others and/or use of the name of ACTS Testing Labs, Inc. requires our prior written approval. Our letters and reports are limited solely (i) in standards and procedures identified in them and (ii) to the sample(s) tested. These results are not necessarily indicative nor representative (i) of the quality of the lot from which the sample was taken or (ii) of apparently similar or identical products. Unless otherwise stated, it is the responsibility of the client to insure the representativeness of the samples submitted to ACTS Testing Labs, Inc. for testing.

Hong Kong

France

Canada

11/16



November 17, 1994
 Technical Report #4B-6181E
 Page 2 of 2

RESULTS:

	ACTS #4B-6181E <u>C-17A-7.0'</u>	ACTS #4B-6182E <u>C-17B-9.5'</u>	ACTS #4B-6183E <u>C-18A-7.7'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00
Arochlor 1254	13.0	1.47	2.05
Arochlor 1260	< 1.00	< 1.00	< 1.00
	ACTS #4B-6184E <u>C-18B-8.5'</u>	ACTS #4B-6185E <u>C-19A-9.2'</u>	ACTS #4B-6186E <u>C-19B-9.8'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00
Arochlor 1254	< 1.00	< 1.00	< 1.00
Arochlor 1260	< 1.00	< 1.00	< 1.00
	ACTS #4B-6187E <u>C-20A-10.0'</u>	ACTS #4B-6188E <u>C-20B-11.0'</u>	
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	< 1.00	< 1.00	
Arochlor 1221	< 1.00	< 1.00	
Arochlor 1232	< 1.00	< 1.00	
Arochlor 1242	< 1.00	< 1.00	
Arochlor 1248	< 1.00	< 1.00	
Arochlor 1254	< 1.00	< 1.00	
Arochlor 1260	< 1.00	< 1.00	

Results are reported as micrograms per gram (ug/g).

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4				SITE NAME: Columbus M. Kinnon Tonga, P.C.		NO. OF CON- TAINERS	REMARKS																		
SAMPLERS (SIGNATURE): Kenneth Kote																									
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION																				
	11/14/94	1527		✓	C-17A	S-4	1	1											Analyze for PCBs max. DL 1.0 PPM						
					d-7.0'	Jan 193													Report Results on Dry Weight Basis						
		1530		✓	C-17B	S-4	1	1																	
					d-9.5'	Jan 194																			
		1534		✓	C-18A	S-4	1	1																	
					d-7.7'	Jan 195																			
		1537		✓	C-18B	S-4	1	1																	
					d-8.5'	Jan 196																			
		1540		✓	C-19A	S-4	1	1																	
					d-9.2'	Jan 197																			
		1542		✓	C-19B	S-4	1	1																	
					d-9.8'	Jan 198																			
		1546		✓	C-20A	S-4	1	1																	
					d-10.0'	Jan 199																			
	11/14/94	1550		✓	C-20B	S-4	1	1																	
					d-11.0'	Jan 200																			
RELINQUISHED BY (SIGNATURE): Kenneth Kote						DATE/TIME: 11/14/94 9:00	RECEIVED BY (SIGNATURE): [Signature]						RELINQUISHED BY (SIGNATURE):						DATE/TIME:	RECEIVED BY (SIGNATURE):					
RELINQUISHED BY (SIGNATURE):						DATE/TIME:	RECEIVED BY (SIGNATURE):						RELINQUISHED BY (SIGNATURE):						DATE/TIME:	RECEIVED BY (SIGNATURE):					
RELINQUISHED BY (SIGNATURE):						DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):						DATE/TIME:						REMARKS:						

**General
Testing
Corporation**

A Full Service Environmental Laboratory

NOV. 30 1994

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

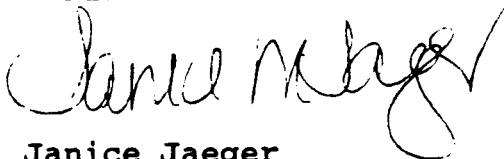
Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 11/22/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION



Janice Jaeger
Customer Service Representative

Enc.

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected.
The sample quantitation limit must be corrected for
dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see
case narrative / cover letter.
- B - This flag is used when the analyte is found in the
associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed
the calibration range and reanalysis could not be
performed.
- A - This flag indicates that a TIC is a suspected aldol-
condensation product.
- N - Spiked sample recovery not within control limits.
(Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits.
(Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits.
(Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard
Additions. (MSA)
- X - As specified in the case narrative.

CASE NARRATIVE

COMPANY: Malcolm Pirnie, Inc.
Columbus McKinnon
JOB #: R94/04553

PCB ANALYSIS

MPI soil samples were analyzed for Target Compound List of PCBs using method 8080 from SW-846. All soil samples were extracted using the sonication method 3550 and cleaned up using the acid and sulfur cleanup techniques. A detection limit for the Effluent sample of 0.060 ug/l was used to satisfy regulatory requirements.

All initial and continuing calibration criteria were met.

The surrogate standard recovery for Tetrachloro-m-xylene (TCMX) was within QC limits for all samples.

The PCB Matrix Spike/Matrix Spike Duplicate recoveries for PCB 1260 on sample R94/04553-001 and the Precision data from the MS/MSD were all within QC advisory limits. The Reference Check (Blank Spike) recovery associated with these samples was acceptable.

The Laboratory Method Blanks were free of contamination.

All analysis holding times were met.

No other analytical or QC problems were encountered with this analysis.

A Full Service Environmental Laboratory

LABORATORY REPORT

Job No: R94/04553

Date: NOV. 30 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference:

Columbus McKinnon

Received

: 11/18/94

P.O. #:

ANALYTICAL UNITS - 8

Sample:	-001	-002	-003	-004
Location:	C-17A	C-17B	C-18A	C-18B
Date Collected:	D-5.0'	D-9.0'	D-7.0'	D-8.7'
Time Collected:	11/17/94	11/17/94	11/17/94	11/17/94
	17:00	17:02	17:05	17:09
Data Analyzed:	11/18/94	11/18/94	11/18/94	11/18/94
Solids, %	64.0	42.9	59.9	51.4

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

LABORATORY REPORT

Job No: R94/04553

Date: NOV. 30 1994

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 11/18/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:		-001	-002	-003	-004	-008		
Location:		C-17A	C-17B	C-18A	C-18B	LAB		
		D-5.0'	D-9.0'	D-7.0'	D-8.7'	BLANK		
Date Collected:		11/17/94	11/17/94	11/17/94	11/17/94	--		
Time Collected:	PQL	17:00	17:02	17:05	17:09	--		
=====								
Date Extracted:		11/21/94	11/21/94	11/21/94	11/21/94	11/21/94		
Date Analyzed:		11/21/94	11/21/94	11/21/94	11/21/94	11/21/94		
Dilution:		1	1	1	1	1		
=====								
PCB 1016	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
PCB 1221	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
PCB 1232	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
PCB 1242	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
PCB 1248	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
PCB 1254	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
PCB 1260	1000	1000 U	1000 U	1000 U	1000 U	1000 U		
=====								
Surrogate Standard Recovery								

Tetrachloro-meta-xylene		105	107	104	105	107		
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Long

Laboratory Director

LABORATORY REPORT

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04553 -001

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENT. (ug/kg)	MS % REC #	QC LIMITS REC.
PCB 1016		0	0		50-114
PCB 1221		0	0		15-178
PCB 1232		0	0		10-215
PCB 1242		0	0		39-150
PCB 1248		0	0		38-158
PCB 1254		0	0		29-131
PCB 1260	3100	0	3400	110	8-127

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
PCB 1016		0			30 50-114
PCB 1221		0			30 15-178
PCB 1232		0			30 10-215
PCB 1242		0			30 39-150
PCB 1248		0			30 38-158
PCB 1254		0			30 29-131
PCB 1260	3100	3800	122	11	30 8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/04553

Date: 30 NOV., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 11/21/94 Date Analyzed: 11/22/94			
PCB 1254	2.0	100	29 - 131

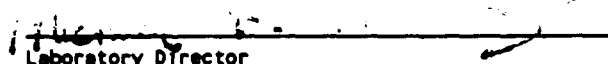
Michael J. ...

Laboratory Director

Client:
Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/04553
Date: 30 NOV., 1994

EPA METHOD 8080	REFERENCE CHECK		ACCEPTANCE LIMITS (%)
	TRUE VALUE	% RECOVERY	
Date Extracted: 11/21/94 Date Analyzed: 11/21/94			
PCB 1260	2000	105	8 - 127


Laboratory Director

94/11-000119

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]

Distribution Original accompanies shipment, copy to coordinator, field files



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928

Tel (716) 897-3300

Fax (716) 897-0876

Technical Report 4B-6315E
Project Name: Columbus McKinnon
Project # 1332-01-4

November 23, 1994

Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on November 22, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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November 23, 1994
Technical Report #4B-6315E
Page 2 of 2

RESULTS:

	ACTS #4B-6315E <u>C-14A-11.2'</u>	ACTS #4B-6316E <u>C-14B-11.3'</u>	ACTS #4B-6317E <u>C-15A-8.7'</u>	ACTS #4B-6318E <u>C-15B-9.8'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	12.1	12.1	< 1.00	10.8
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

Results are reported as micrograms per gram (ug/g).

CHAIN OF CUSTODY RECORD

[illegible]

Technical Report 4B-6319E
Project Name: Columbus McKinnon
Project # 1332-01-4

November 23, 1994

Page 1 of 1

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of two (2) soil samples for PCBs. The samples were received on November 22, 1994.

RESULTS:

ACTS #4B-6319E ACTS #4B-6320E
C-13A-11.7 C-13B-10.8'

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

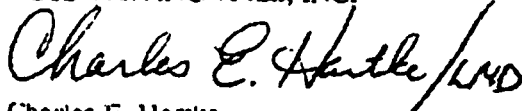
Arochlor 1016	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00
Arochlor 1254	9.26	7.96
Arochlor 1260	< 1.00	< 1.00

Results are reported as micrograms per gram (ug/g).

EXPERIMENTAL:

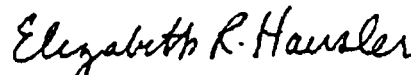
Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.



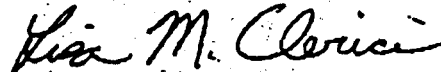
Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.



Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.



Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cmc

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ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928
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Fax (716) 897-0876

Technical Report 4B-6337E
Project Name: Columbus McKinnon
Project # 1332-01-4

November 28, 1994

Page 1 of 1

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of two (2) soil samples for PCBs. The samples were received on November 22, 1994.

RESULTS:

ACTS #4B-6337E ACTS #4B-6338E
C-12A-6.3' C-12B-10.0'

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00
Arochlor 1254	19.1	2.44
Arochlor 1260	< 1.00	< 1.00

Results are reported as micrograms per gram (ug/g).

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cmc

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11/23

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]

10-32



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928

Tel (716) 897-3300

Fax (716) 897-0876

Technical Report 4B-6392E
Project Name: Columbus McKinnon
Project # 1332-01-4

November 30, 1994

Page 1 of 2

Mr. Michael Evanko
OHM CORPORATIONSUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on November 29, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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USA

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France

Canada

11/29

1033



November 30, 1994
 Technical Report #4B-6392E
 Page 2 of 2

RESULTS:

ACTS #4B-6392E

ACTS #4B-6393E

ACTS #4B-6394E

ACTS #4B-6395E

C-14A-9.5'C-14B-13.0'C-15A-7.5'C-15B-10.5'EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00
Arochlor 1254	2.28	2.78 (3.28)*	1.67	5.54
Arochlor 1260	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00

* = Duplicate results

Results are reported as micrograms per gram (ug/g).

ACTS

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4					SITE NAME: Columbus McKinnon Tona, Pac.		NO. OF CON- TAINERS	REMARKS										
SAMPLERS (SIGNATURE): <i>Kenneth Kott</i>																		
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION													
	11/24/94	1053			C-14a	S-3	1	1								Analyze for PCBs Max DL 1.0 PPM		
					d-9.5'	jar 213	1	1								Report Results On Dry Weight Basis		
		1055			C-14b	S-3	1	1								↓		
					d-13.0'	jar 214	1	1										
		1057			C-15a	S-3	1	1										
					d-7.5'	jar 215	1	1								↓		
		1100			C-15b	S-3	1	1										
					d-10.5'	jar 216	1	1										
RELINQUISHED BY (SIGNATURE): <i>Kenneth Kott</i>							DATE/TIME: 11/29/94 1247		RECEIVED BY (SIGNATURE): <i>[Signature]</i>				RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):	
RELINQUISHED BY (SIGNATURE):							DATE/TIME:		RECEIVED BY (SIGNATURE):				RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):	
RELINQUISHED BY (SIGNATURE):							DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):				DATE/TIME:		REMARKS:			

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ACTS TESTING LABS, INC.

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Technical Report 4B-6423E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 1, 1994

Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on November 30, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler (CDB)

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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USA

Hong Kong

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December 1, 1994
 Technical Report #4B-6423E
 Page 2 of 2

RESULTS:

	ACTS #4B-6423E <u>C-12A-4.0'</u>	ACTS #4B-6424E <u>C-12B-10.0'</u>	ACTS #4B-6425E <u>C-13A-8.0'</u>	ACTS #4B-6426E <u>C-13B-10.8'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1254	2.04	2.37	3.34	3.30 (3.57)*
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*

* = Duplicate results

Results are reported as micrograms per gram (ug/g).

ACTS

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4					SITE NAME: Columbus McKinnon Tonga, P.R.		NO. OF CON- TAINERS	A 02 9/14/99							REMARKS
SAMPLERS (SIGNATURE): Kenneth Kots															
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION										
	11/30/94	0945		X	C-12A d-4.0	S-3 jar 219	1	1						Analyze for PCBs Max DL 1.0 ppm Report Results On Dry Weight Basis	
		0943		X	C-12B d-10.0	S-3 jar 220	1	1						{	
		0940		X	C-13A d-8.0	S-3 jar 217	1	1							
		0935		X	C-13B d-10.8	S-3 jar 218	1	1							
RELINQUISHED BY (SIGNATURE): Kenneth Kots			DATE/TIME: 11/30/94 1310		RECEIVED BY (SIGNATURE): [Signature]			RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED BY (SIGNATURE):		
RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED BY (SIGNATURE):			RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED BY (SIGNATURE):		
RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):			DATE/TIME:		REMARKS:					

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Buffalo, NY 14225-4928
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Fax (716)897-0876

Technical Report 4B-6473E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 2, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on December 1, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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USA

Hong Kong

France

Canada



December 2, 1994
 Technical Report #4B-6473E
 Page 2 of 2

RESULTS:

	ACTS #4B-6473E <u>C-15A-7.0'</u>	ACTS #4B-6474E <u>C-15B-9.5'</u>	ACTS #4B-6475E <u>C-14A-8.5'</u>	ACTS #4B-6476E <u>C-14B-11.0'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1254	3.91	3.19	8.42	1.48 (1.47)*
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*

*=Duplicate results

Results are reported as micrograms per gram (ug/g).

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4					SITE NAME: Columbus Mt. Kinson Toma, Pa.		NO. OF CON- TAINERS	402 Glass							REMARKS
SAMPLERS (SIGNATURE): <i>Kenneth Kola</i>															
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION										
	12/1/94	0943		X	C - 15A d - 7.0'	S - 4 Jar 221	1	1							Analyze for PCBs Max DL 1.0 ppm Report Results on Dry Weight Basis
		0945		X	C - 15B d - 9.5'	S - 4 Jar 222	1	1							
		0947		X	C - 14A d - 8.5'	S - 4 Jar 223	1	1							
		0950		X	C - 14B d - 11.0	S - 4 Jar 224	1	1							
RELINQUISHED BY (SIGNATURE): <i>Kenneth Kola</i>			DATE/TIME: 12/1/94 1040		RECEIVED BY (SIGNATURE): <i>Paul A. Pirnie</i>			RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED BY (SIGNATURE):		
RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED BY (SIGNATURE):			RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED BY (SIGNATURE):		
RELINQUISHED BY (SIGNATURE):			DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):			DATE/TIME:		REMARKS:					

Distribution: Original accompanies shipment, copy to coordinator field files

Technical Report 4B-6519E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 5, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on December 2, 1994.

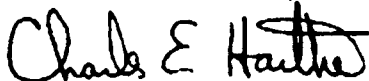
RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.



Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.



Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.



Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

Our reports and letters are for the exclusive use of the client to whom they are addressed. Communication of ACTS Testing Labs, Inc. reports and letters to any others under use of the name of ACTS Testing Labs, Inc. requires our prior written approval. Our letters and reports are limited solely (i) to standards and procedures identified in them and (ii) to the sample(s) identified. Test results are not necessarily indicative nor representative (i) of the quality of the lot from which the sample was taken or (ii) of apparently similar or identical products. Unless otherwise stated, it is the responsibility of the client to insure the representativeness of the samples submitted to ACTS Testing Labs, Inc. for testing.

USA

Hong Kong

France

Canada

RESULTS:

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

	ACTS #4B-6519E <u>C-13A-12.0'</u>	ACTS #4B-6520E <u>C-13B-11.0'</u>	ACTS #4B-6521E <u>C-12A-6.5'</u>	ACTS #4B-6522E <u>C-12B-8.0'</u>
Arochlor 1016	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00
Arochlor 1254	< 1.00	24.5 (24.6)*	15.2	77.0
Arochlor 1260	< 1.00	< 1.00 (< 1.00)*	< 1.00	< 1.00

*=Duplicate results

Results are reported as micrograms per gram (ug/g).

CHAIN OF CUSTODY RECORD

[illegible]



ACTS TESTING LABS, INC.
25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 4B-6600E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 7, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on December 6, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausman
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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USA

Hong Kong

France

Canada



December 7, 1994
Technical Report #4B-6600E
Page 2 of 2

RESULTS:

ACTS #4B-6600E
C-14A-7.0'

ACTS #4B-6601E
C-14B-10.0'

ACTS #4B-6602E
C-15A-9.8'

ACTS #4B-6603E
C-15B-10.5'

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	7.25	2.21	1.71	10.4
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

Results are reported as micrograms per gram (ug/g).

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]



ACTS TESTING LABS, INC.

45 Anderson Road
Buffalo, NY 14225-4928

Tel (716) 897-3300

Fax (716) 897-0876

Technical Report 4B-6641E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 7, 1994

Page 1 of 1

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analysis of one (1) soil sample for PCBs. The sample was received on December 6, 1994.

RESULTS: ACTS #4B-6641E
C-1B-8.0'

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	< 1.00
Arochlor 1221	< 1.00
Arochlor 1232	< 1.00
Arochlor 1242	< 1.00
Arochlor 1248	< 1.00
Arochlor 1254	< 1.00
Arochlor 1260	< 1.00

Results are reported as micrograms per gram (ug/g).

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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SA

Hong Kong

France

Canada

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

[illegible]



ACTS TESTING LABS, INC.
25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 4B-6667E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 8, 1994
Page 1 of 1

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on December 7, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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USA

Hong Kong

France

Canada

RESULTS:

	ACTS #4B-6667E <u>C-12A-4.5'</u>	ACTS #4B-6668E <u>C-12B-10.6'</u>	ACTS #4B-6669E <u>C-13A-8.7'</u>	ACTS #4B-6670E <u>C-13B-10.0'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	37.8	22.1	10.1	42.4
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

Results are reported as micrograms per gram (ug/g).

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876Technical Report 4B-6744E
Project Name: Columbus McKinnon
Project # 1332-01-4December 9, 1994
Page 1 of 2Mr. Michael Evanko
OHM CORPORATIONSUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on December 8, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

A handwritten signature in cursive script, reading "Charles E. Hardie".

Charles E. Hardie
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

A handwritten signature in cursive script, reading "Elizabeth R. Hausler".

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

A handwritten signature in cursive script, reading "Lisa M. Clerici".

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cmc

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USA

Hong Kong

France

Canada

12/8



December 9, 1994
Technical Report #4B-6744E
Page 2 of 2

RESULTS:

ACTS #4B-6744E

ACTS #4B-6745E

ACTS #4B-6746E

ACTS #4B-6747E

C-14A-8'C-14B-10'C-15A-10.0'C-15B-11'EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	5.85	3.01	< 1.00	5.24
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

Results are reported as micrograms per gram (ug/g).

CHAIN OF CUSTODY RECORD

[illegible]

General
Testing
Corporation



1000-02
A Full Service Environmental Laboratory

JAN. 11 1995

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Re: Columbus McKinnon

Dear Mr. Ken Kota

Enclosed are the results of the analysis requested. The Analytical Data was provided to you on 12/13/94 per a Facsimile transmittal. All data has been reviewed prior to report submission.

Should you have any questions please contact me at 454-3760.

Thank you for letting us provide this service.

Sincerely,

GENERAL TESTING CORPORATION

Janice Jaeger
Customer Service Representative

Enc.

12/10

Effective 10/1/91

GTC LIST OF QUALIFIERS

(The basis of this proposal are the EPA-CLP Qualifiers)

- U - Indicates compound was analyzed for but was not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J - Indicates an estimated value. For further explanation see case narrative / cover letter.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range and reanalysis could not be performed.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- N - Spiked sample recovery not within control limits. (Flag the entire batch - Inorganic analytes only)
- * - Duplicate analysis not within control limits. (Flag the entire batch - Inorganic analysis only)
- Also used to qualify Organics QC data outside limits. (Only used on the QC summary sheets)
- M - Duplication injection precision not met (GFA only).
- S - Reported value determined by Method of Standard Additions. (MSA)
- X - As specified in the case narrative.



LABORATORY REPORT

Date: JAN. 11 1995

Sample(s) Reference:

Columbus McKinnon

P.O. #:

Sample:	-003	-004	-005	-006	-007
Location:	C-5A	C-5B	C-6A	C-6B	C-13B(exc)
	d-5'	d-9.5'	d-6.5'	d-9.5'	d-10'
Collected:	12/12/94	12/12/94	12/12/94	12/12/94	12/12/94
Collected:	08:25	08:27	08:30	08:32	08:40

Date Analyzed:	12/12/94	12/12/94	12/12/94	12/12/94	12/12/94
Solids, %	46.5	57.2	53.9	53.1	68.1

NY ID# in Rochester: 10145
NJ ID# in Rochester: 73331
NJ ID# in Hackensack: 02317
NY ID# in Hackensack: 10001

Arthur H. Long

Laboratory Director

LABORATORY REPORT

Job No: R94/04946

Date: JAN. 13 1995

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Sample(s) Reference

Columbus McKinnon

Received

: 12/12/94

P.O. #:

ANALYSIS * BY EPA METHOD 8080

ANALYTICAL RESULTS - ug/kg Dry Wt.

Sample:	-003	-004	-005	-006	-007	-008		
Location:	C-5A	C-5B	C-6A	C-6B	C-13B(exc)	LAB		
	d-5'	d-9.5'	d-6.5'	d-9.5'	d-10'	BLANK		
Date Collected:	12/12/94	12/12/94	12/12/94	12/12/94	12/12/94	--		
Time Collected:	08:25	08:27	08:30	08:32	08:40	--		
=====								
Date Extracted:	12/12/94	12/12/94	12/12/94	12/12/94	12/12/94	12/12/94		
Date Analyzed:	12/12/94	12/12/94	12/12/94	12/12/94	12/12/94	12/12/94		
Dilution:	1	1	1	10	1	1		
PCB 1016	530 U	440 U	460 U	4700 U	370 U	250 U		
PCB 1221	530 U	440 U	460 U	4700 U	370 U	250 U		
PCB 1232	530 U	440 U	460 U	4700 U	370 U	250 U		
PCB 1242	530 U	440 U	460 U	4700 U	370 U	250 U		
PCB 1248	530 U	440 U	460 U	4700 U	370 U	250 U		
PCB 1254	530 U	3900	460 U	18000	370 U	250 U		
PCB 1260	530 U	440 U	460 U	4700 U	370 U	250 U		
Surrogate Standard Recovery								

Tetrachloro-meta-xylene	103	102	104	149	104	103		
(Acceptance Limits: 60-150%)								

Unless otherwise noted, analytical methodology has been obtained from references as cited in 40 CFR, parts #136 & #261.

NY ID# in Rochester: 10145

NJ ID# in Rochester: 73331

NJ ID# in Hackensack: 02317

NY ID# in Hackensack: 10801

Michael K. Perry

Laboratory Director

LABORATORY REPORT

Client:

Mr. Ken Kota
Malcolm Pirnie, Inc.
So. 3515 Abbott Road
Buffalo, NY 14219

Job No: R94/04967

Date: 19 JAN., 1995

REFERENCE CHECK

EPA METHOD 8080

TRUE
VALUE

%
RECOVERY

ACCEPTANCE
LIMITS (%)

Date Extracted:

Date Analyzed:

PCB 1260

50000

108

8 - 127

Laboratory Director

3A - PCB's MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: General Testing Corp. Contract: _____

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

Matrix Spike - EPA Sample No. : R94/04967 -005

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENT. (ug/l)	MS % REC #	QC LIMITS REC.
PCB 1260	50000	0	53000	106	8-127

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENT. (ug/l)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
PCB 1260	50000	50000	100	6	30	8-127

Columns to be used to flag recovery and RPD values with an asterik

* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

209

MALCOLM PIRNIE, INC.

R94/4946

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4					SITE NAME: COLUMBUS McKINNON Twp.		NO. OF CONTAINERS	1 LTR ANAL. GLASS	402 Glass								REMARKS
SAMPLERS (SIGNATURE): <i>Michael D. [Signature]</i> / <i>Kenneth Kola</i>																	
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION												
3123 001	12/1/94	2200		✓	TREATMENT PLANT EFFLUENT C-2		2	2									Analyze 1 sample for PCB's STANDARD DETECTION LIMIT
3124 002	12/1/94	2210		✓	TREATMENT PLANT EFFLUENT C-8		2	2									Analyze 1 sample for PCB's STANDARD DETECTION LIMIT 65ppb
3125 003	12/1/94	0825		✓	C-5A S-5 d-5' Jar 243		1	1									Analyze for PCB's Max DL 1.0ppm Report Results On Dry Weight Basis
3126 004		0827		✓	C-5B S-5 d-9.5' Jar 244		1	1									24 Hr. Turnaround Time
3127 005		0830		✓	C-6A S-4 d-6.5' Jar 245		1	1									
3128 006		0832		✓	C-6B S-4 d-9.5' Jar 246		1	1									
3129 007		0840		✓	C-13B(exc) S-4 d-10' Jar 247		1	1									
RELINQUISHED BY (SIGNATURE): <i>Kenneth Kola</i>							DATE/TIME: 12/12/94 09:30	RECEIVED BY (SIGNATURE): <i>C. Chocoma</i>				DATE/TIME: 12/12/94 10:30	RECEIVED BY (SIGNATURE): <i>Chris [Signature]</i>				
RELINQUISHED BY (SIGNATURE):							DATE/TIME:	RECEIVED BY (SIGNATURE):				DATE/TIME:	RECEIVED BY (SIGNATURE):				
RELINQUISHED BY (SIGNATURE):							DATE/TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE): <i>[Signature]</i>				DATE/TIME: 12/12 @ 13:15	REMARKS: <i>Check</i>				



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4828

Tel (716) 897-3300

Fax (716) 897-0876

Technical Report 4B-6879E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 14, 1994

Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION**SUBJECT:**

Analyses of four (4) soil samples for PCBs. The samples were received on December 13, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

*Charles E. Hartke / LMO*Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

*Elizabeth R. Hausler*Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

*Lisa M. Clerici*Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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USA

Hong Kong

France

Canada



December 14, 1994
Technical Report #4B-6879E
Page 2 of 2

<u>RESULTS:</u>	ACTS #4B-6879E <u>C-7A-7.5</u>	ACTS #4B-6880E <u>C-7B-9.5</u>	ACTS #4B-6881E <u>C-8A-8.5</u>	ACTS #4B-6882E <u>C-8B-10.0</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	47.9	47.2	62.8	34.9
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

Results are reported as micrograms per gram (ug/g).

CHAIN OF CUSTODY RECORD

Distribution Original accompanies shipment, copy to coordinator field files



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928

Tel (716) 897-3300

Fax (716) 897-0875

Technical Report 4B-6897E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 16, 1994

Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of five (5) soil samples for PCBs. The samples were received on December 14, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausier, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme

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USA

Hong Kong

France

Canada

December 16, 1994
Technical Report #4B-6897E
Page 2 of 2

RESULTS:

	ACTS #4B-6897E <u>C-9B-9.0'</u>	ACTS #4B-6898E <u>C-9A-5.0'</u>	ACTS #4B-6899E <u>C-11 to 12 (Exc) out-12'</u>
<u>EPA 8080 (PCBs only)</u>			
Polychlorinated Biphenyls as:			
Arochlor 1016	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00
Arochlor 1254	8.62	25.7	3.60
Arochlor 1260	< 1.00	< 1.00	< 1.00

	ACTS #4B-6900E <u>C-11 to 12 (Exc) In-12'</u>	ACTS #4B-6901E <u>C-10+(exc)-12'</u>
<u>EPA 8080 (PCBs only)</u>		
Polychlorinated Biphenyls as:		
Arochlor 1016	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00
Arochlor 1254	19.3	14.2
Arochlor 1260	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4				SITE NAME: Columbus McKinnon Tong. Fac.		NO. OF CON- TAINERS	4 oz glass										REMARKS
SAMPLERS (SIGNATURE): Kenneth Kote																	
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION												
	12/14/74			X	C-9B S-2 d-9.0' jar 252	1	1								Analyze for PCB's, Max DL 1.0 PPM Report Results On Dry Weight Basis		
	"			X	C-9A S-2 d-5.0' jar 253	1	1								↓ ↓		
	"			X	C-11 to 12 (exc) out d-12' jar 254	1	1										
	"			X	C-11 to 12 (exc) in d-12' jar 255	1	1										
	"			X	C-10+ (exc.) d-12' jar 256	1	1										
24 HR Turn around Time																	
RELINQUISHED BY (SIGNATURE): Kenneth Kote		DATE/TIME: 12/19/74 1130		RECEIVED BY (SIGNATURE): <i>[Signature]</i>		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):							
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):							
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):		DATE/TIME:		REMARKS:									



ACTS TESTING LABS, INC.
25 Anderson Road
Buffalo, NY 14225-4928
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Technical Report 4B-6968E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 16, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of two (2) soil samples for PCBs. The samples were received on December 15, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

cme:

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USA

Hong Kong

France

Canada



December 16, 1994
Technical Report #4B-6968E
Page 2 of 2

<u>RESULTS:</u>	ACTS #4B-6968E <u>C-5B-10'</u>	ACTS #4B-6969E <u>C-6B-8.8'</u>
<u>EPA 8080 (PCBs only)</u>		
Polychlorinated Biphenyls as:		
Arochlor 1016	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00
Arochlor 1254	1.95	4.02
Arochlor 1260	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]



ACTS TESTING LABS, INC.
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Technical Report 4B-7021E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 19, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on December 16, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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USA

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December 19, 1994
Technical Report #4B-7021E

RESULTS:

	ACTS #4B-7021E	ACTS #4B-7022E	ACTS #4B-7023E	ACTS #4B-7024E
	<u>C-7B-10'</u>	<u>C-8A-8.5'</u>	<u>C-7A-7.5'</u>	<u>C-8B-10.5'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	15.1	20.8	9.35	18.1
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

Results are reported as micrograms per gram (ug/g).

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

[illegible]



ACTS TESTING LABS, INC.

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Technical Report 4B-7060E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 21, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of six (6) soil samples for PCBs. The samples were received on December 20, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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USA

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RESULTS:

	ACTS #4B-7060E <u>C-9B-8.0'</u>	ACTS #4B-7061E <u>C-9A-7.0'</u>	ACTS #4B-7062E <u>C-10A-7.0'</u>	ACTS #4B-7063E <u>C-10B-11.5'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	18.6	77.5	30.5	19.8
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

RESULTS:

	ACTS #4B-7064E <u>C-11A-8.5'</u>	ACTS #4B-7065E <u>C-11B-10.8'</u>
<u>EPA 8080 (PCBs only)</u>		
Polychlorinated Biphenyls as:		
Arochlor 1016	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00
Arochlor 1254	46.4	22.6
Arochlor 1260	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4		SITE NAME: Columbus McKinnon Tonga Est.		NO. OF CONTAINERS		REMARKS													
SAMPLERS (SIGNATURE): Kenneth Kola																			
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION														
	12/24/94	1430		X	C-9B d-8.0' S-3 jar 263	1	1												Analyze for PCBs Max DL 1.0 PPM Report Results On Dry Weight Basis
		1432		X	C-9A d-7.0' S-3 jar 264	1	1												
		1434		X	C-10A d-7.0' S-2 jar 265	1	1												
		1436		X	C-10B d-11.5' S-2 jar 266	1	1												
		1438		X	C-11A d-8.5' S-2 jar 267	1	1												
		1440		X	C-11B d-10.8' S-2 jar 268	1	1												
24 HR T.A.T.																			
RELINQUISHED BY (SIGNATURE): Kenneth Kola		DATE/TIME: 12/24/94 1610		RECEIVED BY (SIGNATURE): Paul D. Pavesi		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):									
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):		RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED BY (SIGNATURE):									
RELINQUISHED BY (SIGNATURE):		DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):		DATE/TIME:		REMARKS:											



ACTS TESTING LABS, INC.
25 Anderson Road
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Technical Report 4B-7120E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 28, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of six (6) soil samples for PCBs. The samples were received on December 27, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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December 28, 1994
 Technical Report #4B-7120E
 Page 2 of 2

RESULTS:

	ACTS #4B-7120E <u>C-9A-5.5'</u>	ACTS #4B-7121E <u>C-9B-8.8'</u>	ACTS #4B-7122E <u>C-10A-5.5'</u>	ACTS #4B-7123E <u>C-10B-11.0'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.1	< 1.00	< 1.1	< 1.00
Arochlor 1221	< 1.1	< 1.00	< 1.1	< 1.00
Arochlor 1232	< 1.1	< 1.00	< 1.1	< 1.00
Arochlor 1242	< 1.1	< 1.00	< 1.1	< 1.00
Arochlor 1248	< 1.1	< 1.00	< 1.1	< 1.00
Arochlor 1254	128	23.6	61.8	3.7
Arochlor 1260	< 1.1	< 1.00	< 1.1	< 1.00

RESULTS:

	ACTS #4B-7124E <u>C-11A-8.0'</u>	ACTS #4B-7125E <u>C-11B-10.2'</u>
<u>EPA 8080 (PCBs only)</u>		
Polychlorinated Biphenyls as:		
Arochlor 1016	< 1.74	< 1.00
Arochlor 1221	< 1.74	< 1.00
Arochlor 1232	< 1.74	< 1.00
Arochlor 1242	< 1.74	< 1.00
Arochlor 1248	< 1.74	< 1.00
Arochlor 1254	89.5	18.4
Arochlor 1260	< 1.74	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 1332-01-4				SITE NAME: Columbus McKinnon Tombac Fac.				NO. OF CON- TAINERS	4oz glass										
SAMPLERS (SIGNATURE): ~~XXXXXXXXXX~~ <i>H/III (Caret H/III)</i>																			
STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION													REMARKS	
	12/27/84	0905		X	C-9A	S-4	1	1										Analyze for PCB's Max D.C. 1.0 ppm Report Results on Dry Weight Basis	
		0905		X	C-9B	S-4	1	1											
		0907		X	C-9A	S-3	1	1											
		0908		X	C-10B	S-3	1	1											
		0916		X	C-11A	S-3	1	1											
		0910		X	C-10B	S-3	1	1											
RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED BY (SIGNATURE):				RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED BY (SIGNATURE):			
<i>[Signature]</i>				12/27/84 11:00 am		<i>[Signature]</i>													
RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED BY (SIGNATURE):				RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED BY (SIGNATURE):			
RELINQUISHED BY (SIGNATURE):				DATE/TIME:		RECEIVED FOR LABORATORY BY (SIGNATURE):				DATE/TIME:		REMARKS:							

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25 Anderson Road
Buffalo, NY 14225-4928
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Technical Report 4B-7182E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 29, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of two (2) soil samples for PCBs. The samples were received on December 28, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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SA

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RESULTS:

ACTS #4B-7182E ACTS #4B-7183E
C-5B-10.2' C-6B-10.0'

EPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00
Arochlor 1254	22.8	23.1
Arochlor 1260	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

[illegible]

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ACTS TESTING LABS, INC.

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Tel (716) 897-3300
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Technical Report 4B-7222E
Project Name: Columbus McKinnon
Project # 1332-01-4

December 30, 1994
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of two (2) soil samples for PCBs. The samples were received on December 29, 1994.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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December 30, 1994
Technical Report #4B-7222E
Page 2 of 2

RESULTS:

ACTS #4B-7222E

ACTS #4B-7223E

C-15A-12.5'C-15B-14.0'**EPA 8080 (PCBs only)**

Polychlorinated Biphenyls as:

Arochlor 1016	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00
Arochlor 1254	1.18	1.60
Arochlor 1260	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

CHAIN OF CUSTODY RECORD

Distribution Original accompanies shipment, copy to coordinator field files



ACTS TESTING LABS, INC.

25 Anderson Road
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Technical Report 5B-0012E
Project Name: Columbus McKinnon
Project # 1332-01-4

January 5, 1995
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on January 4, 1995.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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USA

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January 5, 1995
Technical Report #5B-0012E
Page 2 of 2

<u>RESULTS:</u>	ACTS #5B-0012E	ACTS #5B-0013E	ACTS #5B-0014E	ACTS #5B-0015E
	<u>C-14A-14.0</u>	<u>C-14B-14.0</u>	<u>C-15A-13.0</u>	<u>C-15B-15.2</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls are:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	5.42	6.92	1.50	< 1.00
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

[illegible]



ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 5B-0040E
Project Name: Columbus McKinnon
Project # 1332-01-4

January 6, 1995
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on January 4, 1995.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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RESULTS:

	ACTS #5B-0040E <u>C-12A-10'</u>	ACTS #5B-0041E <u>C-12B-> 15'</u>	ACTS #5B-0042E <u>C-13A-> 15'</u>	ACTS #5B-0043E <u>C-13B-> 15'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	1.56	< 1.00	19.1	32.1
Arochlor 1260	< 1.00	< 1.00	< 1.00	<1.00

Results are reported as milligrams per kilogram (mg/Kg).

CHAIN OF CUSTODY RECORD

Distribution Original accompanies shipment, copy to coordinator field files



ACTS TESTING LABS, INC.
25 Anderson Road
Buffalo, NY 14225-4928
Tel (716)897-3300
Fax (716)897-0876

Technical Report 5B-0088E
Project Name: Columbus McKinnon
Project # 1332-01-4

January 9, 1995
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on January 5, 1995.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

A handwritten signature in cursive script, reading "Charles E. Hartke".

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

A handwritten signature in cursive script, reading "Elizabeth R. Hausler".

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

A handwritten signature in cursive script, reading "Lisa M. Clerici" followed by a circled "cm".

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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January 9, 1995
 Technical Report #5B-0088E
 Page 2 of 2

RESULTS:

	ACTS #5B-0088E	ACTS #5B-0089E	ACTS #5B-0090E	ACTS #5B-0091E
	<u>C-14A-NA</u>	<u>C-14B-7.5'</u>	<u>C-15A-NA</u>	<u>C-15B-NA</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	6.13	23.5	33.3	5.85
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

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ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 5B-0123E
Project Name: Columbus McKinnon
Project # 1332-01-4

January 9, 1995
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of two (2) soil samples for PCBs. The samples were received on January 6, 1995.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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January 9, 1995
Technical Report #5B-0123E
Page 2 of 2

RESULTS:

ACTS #5B-0123E

ACTS #5B-0124E

C-13A-NAC-13B-NAEPA 8080 (PCBs only)

Polychlorinated Biphenyls as:

Arochlor 1016	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00
Arochlor 1254	19.8	8.55
Arochlor 1260	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.

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ACTS TESTING LABS, INC.

25 Anderson Road
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Technical Report 5B-0147E
Project Name: Columbus McKinnon
Project # 1332-01-4

January 11, 1995

Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on January 10, 1995.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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January 11, 1995
 Technical Report #5B-0147E
 Page 2 of 2

RESULTS:

	ACTS #5B-0147E	ACTS #5B-0148E	ACTS #5B-0149E	ACTS #5B-0150E
	<u>C-11A-> 15'</u>	<u>C-11B-> 15'</u>	<u>C-12A-> 15'</u>	<u>C-12B-> 15'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*
Arochlor 1254	9.45	22.8	9.25	22.5 (24.1)*
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00 (< 1.00)*

*=Duplicate results

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

MALCOLM PIRNIE, INC.	<i>CHAIN OF CUSTODY RECORD</i>

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ACTS TESTING LABS, INC.

25 Anderson Road
Buffalo, NY 14225-4928
Tel (716) 897-3300
Fax (716) 897-0876Technical Report 5B-0169E
Project Name: Columbus McKinnon
Project # 1332-01-4

January 12, 1995

Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION**SUBJECT:**

Analyses of four (4) soil samples for PCBs. The samples were received on January 11, 1995.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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January 12, 1995
Technical Report #5B-0169E
Page 2 of 2

<u>RESULTS:</u>	<u>ACTS #5B-0169E</u>	<u>ACTS #5B-0170E</u>	<u>ACTS #5B-0171E</u>	<u>ACTS #5B-0172E</u>
	<u>C-9A-12.5'</u>	<u>C-9B-12.0'</u>	<u>C-10A-10.5'</u>	<u>C-10B-13'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	23.2	8.23	216	43.0
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.

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ACTS TESTING LABS, INC.

25 Anderson Road
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Technical Report 5B-0216E
Project Name: Columbus McKinnon
Project # 1332-01-4

January 13, 1995
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of four (4) soil samples for PCBs. The samples were received on January 12, 1995.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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January 13, 1995
Technical Report #5B-0216E
Page 2 of 2

<u>RESULTS:</u>	ACTS #5B-0216E	ACTS #5B-0217E	ACTS #5B-0218E	ACTS #5B-0219E
	<u>C-8A-12.5'</u>	<u>C-8B-13.5'</u>	<u>C-7A-10'</u>	<u>C-7B-13.2'</u>
<u>EPA 8080 (PCBs only)</u>				
Polychlorinated Biphenyls as:				
Arochlor 1016	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00	< 1.00	< 1.00
Arochlor 1254	1.48	4.82	8.87	11.5
Arochlor 1260	< 1.00	< 1.00	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.

CHAIN OF CUSTODY RECORD

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ACTS TESTING LABS, INC.

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Tel (716) 897-3300
Fax (716) 897-0876

Technical Report 5B-0230E
Project Name: Columbus McKinnon
Project # 1332-01-4

January 16, 1995
Page 1 of 2

Mr. Michael Evanko
OHM CORPORATION

SUBJECT:

Analyses of two (2) soil samples for PCBs. The samples were received on January 13, 1995.

RESULTS:

See Page Two.

EXPERIMENTAL:

Polychlorinated Biphenyls (PCBs) in soil were determined according to United States Environmental Protection Agency Method 3550: Sonication Extraction and Method 8080: Organochlorine Pesticides and PCBs.

ACTS TESTING LABS, INC.

Charles E. Hartke
Manager, Chemistry Laboratory

ACTS TESTING LABS, INC.

Elizabeth R. Hausler, Supervisor
Gas Chromatography Laboratory

ACTS TESTING LABS, INC.

Lisa M. Clerici, Supervisor
Wet Chemistry Laboratory

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January 15, 1995
Technical Report #5B-0230E
Page 2 of 2

RESULTS:	ACTS #5B-0230E	ACTS #5B-0231E
	<u>C-5B-13.0'</u>	<u>C-6B-14.0'</u>
<u>EPA 8080 (PCBs only)</u>		
Polychlorinated Biphenyls as:		
Arochlor 1016	< 1.00	< 1.00
Arochlor 1221	< 1.00	< 1.00
Arochlor 1232	< 1.00	< 1.00
Arochlor 1242	< 1.00	< 1.00
Arochlor 1248	< 1.00	< 1.00
Arochlor 1254	< 1.00	17.0
Arochlor 1260	< 1.00	< 1.00

Results are reported as milligrams per kilogram (mg/Kg).

MALCOLM PIRNIE, INC.

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