

November 19, 2004

Report to:

Debbie Furlow
Microtek Medical, Inc.
602 Lehmborg Road
Columbus, MS 39702

Bill to:

Accounts Payable
Microtek Medical, Inc.
PO Box 2487
Columbus, MS 39704

Project ID: MK 48139
ACZ Project ID: L48379

Debbie Furlow:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 20, 2004. This project has been assigned to ACZ's project number, L48379. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L48379. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after December 19, 2004. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years. Please notify your Project Manager if you have other needs.

If you have any questions, please contact your Project Manager or Customer Service Representative.



Microtek Medical, Inc.

Project ID: MK 48139
 Sample ID: WCMA Lot: 4243

ACZ Sample ID: **L48379-01**
 Date Sampled: 10/18/04 11:00
 Date Received: 10/20/04
 Sample Matrix: *Miscellaneous*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic (TCLP)	M6010B ICP		U		mg/L	0.04	0.2	11/11/04 14:37	wfg
Barium (TCLP)	M6010B ICP		U		mg/L	0.003	0.01	11/11/04 14:37	wfg
Cadmium (TCLP)	M6010B ICP		U	*	mg/L	0.005	0.02	11/11/04 14:37	wfg
Chromium (TCLP)	M6010B ICP		U		mg/L	0.01	0.05	11/15/04 19:24	wfg
Lead (TCLP)	M6010B ICP		U	*	mg/L	0.04	0.2	11/11/04 14:37	wfg
Mercury (TCLP)	M7470 CVAA		U		mg/L	0.0002	0.001	11/11/04 13:14	jjc
Selenium (TCLP)	M6010B ICP		U		mg/L	0.04	0.2	11/11/04 14:37	wfg
Silver (TCLP)	M6010B ICP	0.105			mg/L	0.005	0.03	11/15/04 19:24	wfg

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Free liquid by Paint Filter	M9095	no free liquid						11/04/04 10:15	lms
pH, Corrosivity	M9045B	6.9			units	0.1	0.1	10/22/04 15:04	as

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
TCLP Metal Extraction	M1311							10/29/04 10:08	lms

Microtek Medical, Inc.

Project ID: MK 48139
 Sample ID: WCM Lot: 4243

ACZ Sample ID: **L48379-02**
 Date Sampled: 10/18/04 11:00
 Date Received: 10/20/04
 Sample Matrix: *Miscellaneous*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic (TCLP)	M6010B ICP		U		mg/L	0.04	0.2	11/11/04 14:40	wfg
Barium (TCLP)	M6010B ICP		U		mg/L	0.003	0.01	11/11/04 14:40	wfg
Cadmium (TCLP)	M6010B ICP		U	*	mg/L	0.005	0.02	11/11/04 14:40	wfg
Chromium (TCLP)	M6010B ICP		U		mg/L	0.01	0.05	11/15/04 19:28	wfg
Lead (TCLP)	M6010B ICP		U	*	mg/L	0.04	0.2	11/11/04 14:40	wfg
Mercury (TCLP)	M7470 CVAA		U		mg/L	0.0002	0.001	11/11/04 13:15	jjc
Selenium (TCLP)	M6010B ICP		U		mg/L	0.04	0.2	11/11/04 14:40	wfg
Silver (TCLP)	M6010B ICP	0.016	B		mg/L	0.005	0.03	11/15/04 19:28	wfg

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Free liquid by Paint Filter	M9095	no free liquid						11/04/04 10:30	lms
pH, Corrosivity	M9045B	6.8			units	0.1	0.1	10/22/04 15:13	as

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
TCLP Metal Extraction	M1311							10/29/04 10:16	lms

Microtek Medical, Inc.

Project ID: MK 48139
 Sample ID: WCMI Lot: 4243

ACZ Sample ID: **L48379-03**
 Date Sampled: 10/18/04 11:00
 Date Received: 10/20/04
 Sample Matrix: *Miscellaneous*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic (TCLP)	M6010B ICP		U		mg/L	0.04	0.2	11/11/04 14:43	wfg
Barium (TCLP)	M6010B ICP		U		mg/L	0.003	0.01	11/11/04 14:43	wfg
Cadmium (TCLP)	M6010B ICP		U	*	mg/L	0.005	0.02	11/11/04 14:43	wfg
Chromium (TCLP)	M6010B ICP		U		mg/L	0.01	0.05	11/15/04 19:31	wfg
Lead (TCLP)	M6010B ICP		U	*	mg/L	0.04	0.2	11/11/04 14:43	wfg
Mercury (TCLP)	M7470 CVAA		U		mg/L	0.0002	0.001	11/11/04 13:16	jjc
Selenium (TCLP)	M6010B ICP		U		mg/L	0.04	0.2	11/11/04 14:43	wfg
Silver (TCLP)	M6010B ICP		U		mg/L	0.005	0.03	11/15/04 19:31	wfg

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Free liquid by Paint Filter	M9095	no free liquid						11/04/04 10:45	lms
pH, Corrosivity	M9045B	7.1			units	0.1	0.1	10/22/04 15:23	as

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
TCLP Metal Extraction	M1311							10/29/04 10:24	lms

Microtek Medical, Inc.

Project ID: MK 48139
Sample ID: WCMINC Lot: 4243

ACZ Sample ID: **L48379-04**
Date Sampled: 10/18/04 11:00
Date Received: 10/20/04
Sample Matrix: *Miscellaneous*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic (TCLP)	M6010B ICP		U		mg/L	0.04	0.2	11/11/04 14:46	wfg
Barium (TCLP)	M6010B ICP		U		mg/L	0.003	0.01	11/11/04 14:46	wfg
Cadmium (TCLP)	M6010B ICP		U	*	mg/L	0.005	0.02	11/11/04 14:46	wfg
Chromium (TCLP)	M6010B ICP	0.01	B		mg/L	0.01	0.05	11/15/04 19:35	wfg
Lead (TCLP)	M6010B ICP		U	*	mg/L	0.04	0.2	11/11/04 14:46	wfg
Mercury (TCLP)	M7470 CVAA		U		mg/L	0.0002	0.001	11/11/04 13:17	jjc
Selenium (TCLP)	M6010B ICP		U		mg/L	0.04	0.2	11/11/04 14:46	wfg
Silver (TCLP)	M6010B ICP	2.240			mg/L	0.005	0.03	11/15/04 19:35	wfg

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Free liquid by Paint Filter	M9095	no free liquid						11/04/04 11:00	lms
pH, Corrosivity	M9045B	6.9			units	0.1	0.1	10/22/04 15:32	as

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
TCLP Metal Extraction	M1311							10/29/04 10:32	lms

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit, typically 5 times the MDL.
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL.
U	Analyte was analyzed for but not detected at the indicated MDL
V	High blank data accepted because sample concentration is 10 times higher than blank concentration
W	Poor recovery for Silver quality control is accepted because Silver often precipitates with Chloride.
X	Quality control sample is out of control.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

Microtek Medical, Inc.

ACZ Project ID: **L48379**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L48379-01	WG181312	Cadmium (TCLP)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
		Lead (TCLP)	M6010B ICP	ZH	Serial Dilution evaluated. Failure due to potential matrix interference.
L48379-02	WG181312	Cadmium (TCLP)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
		Lead (TCLP)	M6010B ICP	ZH	Serial Dilution evaluated. Failure due to potential matrix interference.
L48379-03	WG181312	Cadmium (TCLP)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
		Lead (TCLP)	M6010B ICP	ZH	Serial Dilution evaluated. Failure due to potential matrix interference.
L48379-04	WG181312	Cadmium (TCLP)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
		Lead (TCLP)	M6010B ICP	ZH	Serial Dilution evaluated. Failure due to potential matrix interference.

Microtek Medical, Inc.
 MK 48139

ACZ Project ID: L48379
 Date Received: 10/20/2004
 Received By:

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?		X	
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/hr)
BOX	21.3	11

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Microtek Medical, Inc.
 MK 48139

ACZ Project ID: L48379
 Date Received: 10/20/2004
 Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	Y < 2	YG < 2	B < 2	BG < 2	O < 2	T > 12	P > 12	N/A	RAD
L48379-01	WCMA Lot: 4243										Ö	
L48379-02	WCM Lot: 4243										Ö	
L48379-03	WCMI Lot: 4243										Ö	
L48379-04	WCMINC Lot: 4243										Ö	

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BG	Filtered/Sulfuric	BLUE GLASS	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

L 48379

CHAIN of CUSTODY

Report to:

Name: Debbie Furlow	Address: P.O. Box 2487
Company: Microtek Medical, Inc.	Columbus, MS 39704
E-mail: dfurlow@microtekmed.com	Telephone: 662-244-3152

Copy of Report to:

Name: Debbie Furlow	E-mail: dfurlow@microtekmed.com
Company: Microtek Medical, Inc.	Telephone: 662-244-3152

Invoice to:

Name: Accounts Payable	Email:
Company: Microtek Medical, Inc.	Telephone: 662-327-1863

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES
 If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified. NO

PROJECT INFORMATION ANALYSES REQUESTED (attach list or use quote number)

Quote #:	Project/PO #:	Reporting state for compliance testing:	Are any samples NRC licensable material?	SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	pH	TCLP	All Metals	Paint Filter						
	MK 48139		No	WCMA Lot: 4243	10/18/04 11AM	Other	1	✓	✓	✓	✓						
				WCM Lot: 4243	10/18/04 11AM	"	1	✓	✓	✓	✓						
				WOMI Lot: 4243	10/18/04 11AM	"	1	✓	✓	✓	✓						
				WCMINC Lot: 4243	10/18/04 11AM	"	1	✓	✓	✓	✓						

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS
 Other: Photo Developer/Fixer - Solidified

Please refer to ACZ's terms & conditions located on the reverse side of this COC

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Debbie Furlow <i>Debbie Furlow</i>	10/18/04 11:00 a.m.	<i>CM</i>	10/20/04 10:00

SAMPLED BY:	INTERNAL USE ONLY