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REPORTS

DATE: June 5, 1995

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505) 632-1199 Fax: (505) 632-3903

June 7, 1995

Mr. William C. Olson Hydrogeologist Environmental Bureau New Mexico Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87504 RECEIVED

JUN 1 2 1995

Environmental Bureau Oil Conservation Division

RE: Groundwater Sampling Amoco GCU Com I 181 Well Location San Juan County, New Mexico Unit F, Section 34, T29N, R12W

Dear Mr. Olson:

On behalf of Amoco Production Company, Blagg Engineering, Inc. has prepared this quarterly monitoring report for the above referenced site. Table 1 of this report includes the latest and previous quarterly groundwater sampling results. Composting of contaminated soils has now been completed at the site and select monitoring wells destroyed during excavation have been replaced by wellpoints. The new sampling points include: WP # 10B, 32A, 21A, and 42. Those monitoring wells destroyed and replaced are noted on Figure 1 in this report.

We trust this information will be of assistance in evaluating the remediation process used at this site. If you have any further questions regarding this report, or we can be of assistance in any other matters, please contact Blagg Engineering at 632-1199.

Respectfully Submitted, BLAGG ENGINEERING, INC.

Polat E. O'hail

Robert E. O'Neill, M.S. Civil engineering, Environmental

- Attachments: Table 1 Sampling Results Figure 1 - Site Diagram Laboratory Reports QA/QC
- xc: Buddy Shaw, Amoco Denny Foust, NMOCD Aztec Office

REO/reo

JUN95-WO.RPT

TABLE 1 AMOCO PRODUCTION COMPANY GCU COM I 181 GROUNDWATER SAMPLING JUNE 5, 1995

SAMPLE	DATE	pН	COND.	BENZENE	TOLUENE	E-BENZ.	T-XYL.	NITRATE	FCB/
1.D.				_				NITROGEN	100 mls
			umhos/cm	ppb	ppb	ppb	ppb	mg/L	COLONIES
MVV #5	02/09/94	7.0	6300	ND	0.5	ND	3.1		
	00/26/04	7.0	7800		<1				
	09/20/94	7.1	7700			2.1			
M\\/ #7	02/09/94	7.1	10100	12.9	16.7	580.0	1300.3		
10100 111	06/13/94	7.0	11000	<1	10.7	<1	1/180.0		
	09/26/94	7.0	9000	12.8		0.808	73.3		
	06/05/95	72	10200	21	33.1	375.8	12.9		
T @10A	02/09/94	7.0	3200	41.0	37.7	0.4	325.0	0.08	0
	06/14/94	8.0	4400	<1	<1	132.0	118.0	0.109	<1
	09/26/94	7.7	3800	6.7	12.2	61.5	502.9	1.05	0
WP #10B	06/05/95	7.2	15600	1.7	ND	ND	4.6		
MW #13	11/03/94	7.4	47100	0.9	0.4	0.4	1.3		
MW #15	11/03/94	7.5	4400	ND	0.8	ND	0.9		
	06/05/95	7.4	4100	ND	ND	ND	0.9		
MW #17	11/03/94	7.2	4000	ND	ND	ND	ND		
	06/05/95	7.4	3400	ND	ND	ND	0.8		_
MW #21	11/03/94	7.5	5200	13.8	12.9	2.3	16.9		
WP #21A	06/05/95			DRY					
MW #25	02/09/94	7.0	5500	ND	ND	0.3	1.8		
	06/13/94	7.0	5700	<1	<1	<1	<1		
	09/26/94	7.3	5100	ND	ND	ND	ND		
	06/05/95	7.3	5800	ND	ND	ND	0.7		
MVV #28	02/09/94	7.0	3800	0.4	1.8	ND	8.8	0.07	0
	06/14/94	7.0	4000	<1	<1	<1	<1	0.18	<1
	09/26/94	7.1	3900	ND	ND	0.4	ND	1	0
	06/05/95	7.4	3500	<u>ND</u>	ND	ND	0.7		
WP #31A	02/09/94	7.0	4800	ND	ND	ND	0.4		
	06/13/94	7.0	4500	<1	<1	<1	<1	<u> </u>]	
	09/26/94	0.8	4800		0.5	ND	ND		
MIN/ #22	00/05/95	7.1	4000	140.0	12.2		0.5	0.04	
T @22	02/09/94	7.0	4700	149.0	13.3		400.2	0.04	
1 @ 32	00/14/94	7.0	4700					0.101	
M/P #32A	06/05/95	7.5	4000	32			28	0.00	
WP #34A	02/09/94	7.1	5000	21 4	17.2	19	143.0	0.22	0
VVI #04/(06/14/94	7.0	13800	452.0	206.0	7933.0	3324.0	0.873	<1
	09/26/94	69	11000	02.0	ND	24.6	465.0	2.07	0
MW #36	02/09/94	7.0	5100	0.0 ND		0.6	36	2.07	
	06/13/94	7.0	5600	<1	<1	<1	<1		
ļ	09/26/94	7.2	4300	ND	ND	1.7	2.0		
	06/05/95	7.2	5600	ND	ND	ND	ND	1	
WP #39	02/09/94	7.0	3400	ND	ND	ND	0.2	0.05	0
	06/13/94	7.0	3400	<1	<1	<1	<1		
<u> </u>	09/26/94	7.0	3200	ND	0.2	ND	0.7		
	06/05/95	7.0	3800	ND	ND	ND	0.5		
WP #40	02/09/94	7.0	3700	ND	ND	ND	3.8		
	06/13/94	7.0	3900	<1	<1	<1	<1		
	09/26/94	7.0	3900	ND	0.4	ND	0.4		
	06/05/95	6.7	3700	ND	ND	ND	ND		
WP #41	02/09/94	7.0	6900	171.0	7400.0	810.0	12060.0	0.88	0
	06/14/94	7.0	12200	1026.0	1061.0	14803.0	8939.0	11.8	<1
	09/26/94	7.0	9500	83.5	18.3	414.0	7811.0	1.18	0
	06/05/95	6.7	13000	ND	86.5	95.4	2151.8		
WP #42	06/05/95	6.6	11500	1.0	1.9	ND	7.5	ļ	
Notes:	MW = Monite	or Well	FCB = Fecal	Coliform Bac	teria. EPA N	1ethod 600/4	-79-020		

WP= Wellpoint

FCB = Fecal Coliform Bacteria. EPA Method 600/4-79-020 T = Trench

Benzene, Toluene, Ethyl-benzene, Total Xylenes, per EPA Method 8020



OFF: (505) 325-8786

AROMATIC VOLATILE ORGANICS

Attn: R.E. O'Neill Date: 6/6/95 Company: Blagg Engineering, Inc. COC No.: 3067 Address: 6642 P.O. Box 87 Sample ID: City, State: Bloomfield, NM 87413 2-1000 Job No. Project Name: GCU COM I 181 **Project Location:** MW-5 6/5/95 Time: 9:20 Sampled by: REO Date: DC 6/5/95 Analyzed by: Date: Sample Matrix: Water

Aromatic Volatile Organics

Component	Meas Concentra	ured ation ug/L	Detection Limit Concentration ug/L	
Benzene		ND	0.2	
Toluene		ND	0.2	
Ethylbenzene		2.1	0.2	
m,p-Xylene		ND	0.2	
o-Xylene		ND	0.2	
	τοται	2.1 ua/L		

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: 0 - 4 Nate: 6/6/95

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

LAB: (505) 325-5667



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	R.E. O'N	leill			Date:	6/6/95
Company:	Blagg En	gineering, In	с.		COC No.:	3067
Address:	P.O. Box	< 87			Sample ID:	6643
City, State:	Bloomfie	ld, NM 8741	3		Job No.	2-1000
Project Nam	ne:	GCU CO	M I 181			
Project Loca	ation:	MW-7				
Sampled by	:	REO	Date:	6/5/95	Time:	9:00
Analyzed by	y:	DC	Date:	6/5/95		
Sample Mat	trix:	Water				

Aromatic Volatile Organics

Component	Measured Concentration ug/L	Detection Limit Concentration ug/L
	2.1	0.2
Benzene	2.1	0.2
Toluene	33.1	0.2
Ethylbenzene	375.8	0.2
m,p-Xylene	10.9	0.2
o-Xylene	2.0	0.2
	тотац 423.9 ug/L	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:)-4 Date: 6/6/95

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OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	R.E. O'A	leill			Date:	6/6/95
Company:	Blagg Er	ngineering, In	nc.		COC No.:	3067
Address: P.O. Box 87					Sample ID.	: 6644
City, State:	Bloomfie	eld, NM 874	13		Job No.	2-1000
Project Nan	ne:	GCU CO	M I 181			
Project Loca	ation:	WP-10B	•			
Sampled by	:	REO	Date:	6/5/95	Time:	10:00
Analyzed by	y:	DC	Date:	6/5/95		
Sample Mat	trix:	Water				

Aromatic Volatile Organics

Component	Measured Concentration	ug/L	Detection Limit Concentration ug/L
Benzene	1.7	,	0.2
Toluene	NE)	0.2
Ethylbenzene	NE)	0.2
m,p-Xylene	3.7	7	0.2
o-Xylene	0.9)	0.2
	TOTAL 6.3	3 ug/L	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: De 4 Date: 6/6/95

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	R.E. O'A	leill			Date:	6/6/95
Company:	Blagg Er	ngineering, Ind	с.		COC No.:	3067
Address:	P.O. Box	87			Sample ID:	6645
City, State:	Bloomfie	eld, NM 8741	3		Job No.	2-1000
Project Nam	ne:	GCU CO	M I 181			
Project Loca	ation:	MW-15				
Sampled by	:	REO	Date:	6/5/95	Time:	12:45
Analyzed by	y:	DC	Date:	6/5/95		
Sample Mat	trix:	Water				

Aromatic Volatile Organics

Component	Measured Concentration ug/L	Detection Limit Concentration ug/L	
Benzene	ND	0.2	
Toluene	ND	0.2	
Ethylbenzene	ND	0.2	
m,p-Xylene	0.9	0.2	
o-Xylene	ND	0.2	
	TOTAL 0.9 ug/L		

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:)= 42 Nate: 6/6/95

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AROMATIC VOLATILE ORGANICS

Attn:	R.E. O'N	leill			Date:	6/6/95
Company:	Blagg Er	ngineering, Ind	с.		COC No.:	3067
Address:	Address: P.O. Box 87				Sample ID:	6646
City, State:	Bloomfie	eld, NM 8741	3		Job No.	2-1000
Project Nan	ne:	GCU CO	M I 181			
Project Loc	ation:	MW-17				
Sampled by	<i>/</i> :	REO	Date:	6/5/95	Time:	13:20
Analyzed b	y:	DC	Date:	6/5/95		
Sample Ma	trix:	Water				

Aromatic Volatile Organics

Component	Mei Concen	asured tration ug/L	Detection Limit Concentration ug/L
			<u> </u>
Benzene		ND	0.2
Toluene		ND	0.2
Ethylbenzene		ND	0.2
m,p-Xylene		0.8	0.2
o-Xylene		ND	0.2
	TOTAL	0.8 <i>ug/L</i>	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: Da 4 Date: 6/6/95

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OFF: (505) 325-8786

AROMATIC VOLATILE ORGANICS

Attn: R.E. O'Neill Date: 6/6/95 COC No.: 3067 Company: Blagg Engineering, Inc. Address: P.O. Box 87 Sample ID: 6647 City, State: Bloomfield, NM 87413 Job No. 2-1000 **Project Name:** GCU COM I 181 MW-25 **Project Location:** 6/5/95 11:50 Sampled by: Time: REO Date: 6/5/95 Analyzed by: DC Date: Sample Matrix: Water

Aromatic Volatile Organics

Component	Me Concen	asured tration ug/L	Detection Limit Concentration ug/L	
Benzene		ND	0.2	
Toluene		ND	0.2	
Ethylbenzene		ND	0.2	
m,p-Xylene		0.7	0.2	
o-Xylene		ND	0.2	
	TOTAL	0.7 ug/L		

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:)~4 Date: 6/6(95

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AROMATIC VOLATILE ORGANICS

LAB: (505) 325-5667

6/6/95 R.E. O'Neill Date: Attn: COC No.: 3067 Company: Blagg Engineering, Inc. Sample ID: 6648 Address: P.O. Box 87 City, State: Bloomfield, NM 87413 Job No. 2-1000 Project Name: GCU COM I 181 **Project Location:** MW-28 11:30 6/5/95 Time: Sampled by: REO Date: DC 6/5/95 Analyzed by: Date: Sample Matrix: Water

Aromatic Volatile Organics

Component	Measured Concentration ug/L	Detection Limit Concentration ug/L
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylene	0.7	0.2
o-Xylene	ND	0.2
	TOTAL 0.7 ug/L	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: 0 - 4 Nate: 6 6 45

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OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	R.E. O'Neill			Date:	6/6/95	
Company:	Company: Blagg Engineering, Inc.					3067
Address: P.O. Box 87					Sample ID:	6649
City, State: Bloomfield, NM 87413					Job No.	2-1000
Project Nam	ne:	GCU CO	M I 181			
Project Loca	ation:	WP-31A				
Sampled by	:	REO	Date:	6/5/95	Time:	11:05
Analyzed by	/:	DC	Date:	6/5/95		
Sample Mat	trix:	Water				

Aromatic Volatile Organics

Component	Measured Concentration ug/L	Detection Limit Concentration ug/L
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylene	0.5	0.2
o-Xylene	ND	0.2
	тотаl 0.5 ug/L	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: Da-44 Date: 6/6/95

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OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	R.E. O'Neill			Date:	6/6/95	
Company:	Blagg En	gineering, In	COC No.:	3067		
Address:	Address: P.O. Box 87					6650
City, State: Bloomfield, NM 87413					Job No.	2-1000
Project Nam	ne:	GCU CO	M 181			
Project Location: WP-32A						
Sampled by	:	REO	Date:	6/5/95	Time:	10:20
Analyzed by	y:	DC	Date:	6/5/95		
Sample Mat	trix:	Water				

Aromatic Volatile Organics

Component	Measu	tion un/l	Detection Limit Concentration ug/l
oomponent	Concentrat		
Benzene		3.2	0.2
Toluene		ND	0.2
Ethylbenzene		ND	0.2
m,p-Xylene		2.1	0.2
o-Xylene		0.7	0.2
	TOTAL	6.0 <i>ug/L</i>	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: De 4 Date: 6/6/95

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OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	R.E. O'Neill				Date:	6/6/95
Company:	Blagg Er	ngineering, In	<i>ic.</i>		COC No.:	3067
Address: P.O. Box 87					Sample ID:	6651
City, State: Bloomfield, NM 87413					Job No.	2-1000
Project Nam	ne:	GCU CO	M I 181			
Project Loca	ation:	MW-36				
Sampled by	:	REO	Date:	6/5/95	Time:	9:45
Analyzed by	y:	DC	Date:	6/5/95		
Sample Mar	trix:	Water				

Aromatic Volatile Organics

Component	Measured Concentration ug/l	Detection Limit
	Concontration ug/L	
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylene	ND	0.2
o-Xylene	ND	0.2

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: De 4 Date: 6/6/95

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OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	R.E. O'A	R.E. O'Neill			Date:	6/6/95
Company:	ipany: Blagg Engineering, Inc.					3067
Address:	Address: P.O. Box 87				Sample ID:	6652
City, State: Bloomfield, NM 87413					Job No.	2-1000
Project Nan	ne:	GCU CO	M I 181			
Project Loca	ation:	WP-39				
Sampled by	<i>'</i> :	REO	Date:	6/5/95	Time:	8:45
Analyzed by	y:	DC	Date:	6/5/95		
Sample Ma	trix:	Water				

Aromatic Volatile Organics

Component	Measured Concentration ug	Detection Limit g/L Concentration ug/L
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylene	0.5	0.2
o-Xylene	ND	0.2
	<i>TOTAL</i> 0.5	ug/L

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:)a 4 Date: 6/6/95

P. O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	R.E. O'Neill				Date:	6/6/95
Company:	Company: Blagg Engineering, Inc.					3067
Address: P.O. Box 87					Sample ID.	: 6653
City, State: Bloomfield, NM 87413					Job No.	2-1000
Project Nan	ne:	GCU CO	OM I 181			
Project Loc	ation:	WP-40				
Sampled by	<i>י</i> :	REO	Date:	6/5/95	Time:	8:30
Analyzed b	y:	DC	Date:	6/5/95		
Sample Ma	trix:	Water				

Aromatic Volatile Organics

Component	Measured Concentration ug/L	Detection Limit Concentration ug/L
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylene	ND	0.2
o-Xylene	ND	0.2
	TOTAL 0.0 ug/L	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: Jaly

P. O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	R.E. O'Neill				Date:	6/6/95
Company:	Company: Blagg Engineering, Inc.					3068
Address: P.O. Box 87					Sample ID:	6654
City, State: <i>Bloomfield, NM</i> 87413					Job No.	2-1000
Project Nan	ne:	GCU CO	M I 181			
Project Loc	ation:	WP-41				
Sampled by	/:	REO	Date:	6/5/95	Time:	10:35
Analyzed b	y:	DC	Date:	6/5/95		
Sample Ma	trix:	Water				

Aromatic Volatile Organics

Component	Measured Concentration ug/l	Detection Limit
Component		
Benzene	ND	0.2
Toluene	86.5	0.2
Ethylbenzene	95.4	0.2
m,p-Xylene	2077.1	0.2
o-Xylene	74.7	0.2
	TOTAL 2333.6 ug/L	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: Da 4 Date: 6/6/95

P. O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	R.E. O'N	leill			Date:	6/6/95
Company:	Blagg Er	ngineering, In	с.		COC No.:	3068
Address:	P.O. Box	x 87			Sample ID:	6655
City, State:	Bloomfie	eld, NM 8741	3		Job No.	2-1000
Project Nar	ne:	GCU CO	M I 181			
Project Loc	ation:	WP-42				
Sampled by	/:	REO	Date:	6/5/95	Time:	12:20
Analyzed b	y:	DC	Date:	6/5/95		
Sample Ma	trix:	Water				

Aromatic Volatile Organics

Component	Measured Concentration ug/L	Detection Limit Concentration ug/L
Benzene	1.0	0.2
Toluene	1.9	0.2
Ethylbenzene	ND	0.2
m,p-Xylene	4.0	0.2
o-Xylene	3.5	0.2
	10.4 ug/L	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: Dr 4 Date: 6/6/95

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QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION



LAB: (505) 325-5667

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 6/5/95

Internal QC No.: 0379-STD Surrogate QC No.: 0378-STD Reference Standard QC No.: 0355-STD

Method Blank

Analytes in Blank	Amount
Average Amount of All Analytes In Blank	<0.2 ppb

Calibration Check

Calibration Standards	Units of Measure	* True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20	19	3	15%
Toluene	ppb	20	19	5	15%
Ethylbenzene	ppb	20	19	6	15%
m,p-Xylene	ppb	40	40	1	15%
o-Xylene	ppb	20	18	8	15%

Spike Results

	1- Percent	2 - Percent			
Analyte	Recovered	Recovered	Limit	%RSD	Limit
			1		
Benzene	113	110	(39-150)	2	20%
Toluene	110	108	(46-148)	2	20%
Ethylbenzene	108	105	(32-160)	2	20%
m,p-Xylene	111	108	(35-145)	2	20%
o-Xylene	103	101	(35-145)	1	20%

Surroga	ate Recoveries		
Laboratory	<u>\$1</u>	S2	S3
Identification	Percent	Percent	Percent
	Recovered	Recovered	Recovered
Limits	(70-130)		
6655-3068	99		

S1: Flourobenzene

P. O. BOX 2606 • FARMINGTON, NM 87499

- Technology Blending Industry with the Environment -

	DY RECORD	
ÖN SITE	6-5-95	Page 1 of 2
TECHNOLOGIES, LTD. V 657 W. Maple • P. O. Box 2606 • Farmington NM 87499 LAB: (505) 325-5667 • FAX: (505) 325-6256		
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