8-20-96

MEMO

DATE:

TO: Jackson Co 50-02
App. I 7-23-96

SUBJECT:

Fac/Perm/Co ID #	Date	Doc ID#
BC	04/20/96	DIN

MW-1 Benzene - 5.39
1,1-dichloroethane - 19.2
cis-1,2-dichloroethene - 6.08
Ethylbenzene - 5.15
Toluene - 5.00
Xylenes - 31.7

MW-3 1,1-dichloroethane - 5.00

MW-4 cis-1,2-dichloroethene - 18.4

MW-5 Benzene - 10.1
1,1-dichloroethane - 6.27
cis-1,2-dichloroethene - 79.8
PCE - 5.66
TCE - 7.02

- Need statistics!
- Need gw flow rate!

} another letter written 9-3-96

From:

North Carolina Department of Environment, Health, and Natural Resources

Printed on Recycled Paper

P

App I 7-23-96

50-02

1325 Dills Cove Rd.
Sylva, NC 28779

MOUNTAIN GEOLOGY, INC.

Phone & Fax
(704) 586-3955

08/14/96

TO: Solid Waste Section
Attn: Larry Rose
P. O. Box 27687
Raleigh, NC 27611 - 7687

RE: Jackson County Landfill
July, 1996, Water Sampling

Attached is the following information:

Analytical Results
Field Measurements
Groundwater Flow
Bailer Certification

If you need further information, please contact me.

Michael H. Owens

MICHAEL H. OWENS

HYDROLOGIC, INC.

FINAL REPORT OF ANALYSES

MOUNTAIN GEOLOGY
1325 DILLS COVE ROAD
SYLVA, NC 28779-
Attn: MIKE OWENS

PROJECT NAME: MTN GEOLOGY
REPORT DATE: 08/09/96

SAMPLE NUMBER- 89197 SAMPLE ID- JACKSON CO [redacted]
DATE SAMPLED- [redacted]
DATE RECEIVED- 07/24/96 SAMPLER- MH OWENS
TIME RECEIVED- 0838 DELIVERED BY- MIKE OWENS

SAMPLE MATRIX- WW
TIME SAMPLED- 1320
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
ARSENIC, TOTAL	206.2	07/25/96	BDL	07/26/96	BDL	< 0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	07/25/96	BDL	08/09/96	BDL	< 0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	07/25/96	BDL	07/26/96	BDL	< 0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
COBALT, TOTAL	219.1	07/25/96	BDL	07/27/96	BDL	0.019	mg/l	0.005
LEAD, TOTAL	239.2	07/25/96	BDL	08/07/96	LJP	< 0.003	mg/l	0.003
SELENIUM, TOTAL	270.2	07/25/96	BDL	07/25/96	BDL	<0.003	mg/l	0.003
SILVER, TOTAL	272.2	07/25/96	BDL	07/29/96	BDL	< 0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.001
ANTIMONY, TOTAL	204.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.003
BARIUM, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	0.062	mg/l	0.005
COPPER, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
NICKEL, TOTAL	200.7	07/25/96	BDL	07/29/96	BDL	0.006	mg/l	0.005
VANADIUN, TOTAL	286.2	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
ZINC, TOTAL	200.7	07/25/96	BDL	07/26/96	BDL	0.013	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 ASHEVILLE NC 28814-0029
704-254-5169 FAX: 704-252-9711 / TOLL FREE : 800-344-5759

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612124
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-1
DATE SAMPLED: 7/23/96
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 7/29/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrylonitrile	107-13-1	100.0	BDL
[redacted]	**71-43-2**	**5.0**	[redacted]
Bromochloromethane	74-97-5	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Carbon Disulfide	75-15-0	100.0	BDL
Carbon Tetrachloride	56-23-5	10.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
1,2-Dibromo-3-chloropropane	96-12-8	25.0	BDL
1,2-Dibromoethane	106-93-4	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
trans-1,4-Dichloro-2-butene	110-57-6	100.0	BDL
1,1-Dichloroethane	**75-34-3**	**5.0**	**19.2** [redacted]
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethylene	75-35-4	5.0	BDL
cis-1,2-Dichloroethylene	**541-59-4**	**5.0**	**6.08** [redacted]
trans-1,2-Dichloroethylene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	10.0	BDL
trans-1,3-Dichloropropene	10061-02-6	10.0	BDL

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612124
SAMPLE IDENTIFICATION: MW-1
DATE SAMPLED: 7/23/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Ethylbenzene	**100-41-4**	**5.0**	**5.15**
2-Hexanone	591-78-6	50.0	BDL
Bromomethane	74-83-9	5.0	BDL
Chloromethane	74-87-3	5.0	BDL
2-Butanone	78-93-3	100.0	BDL
Idomethane		10.0	BDL
4-Methyl-2-pentanone	108-10-1	100.0	BDL
Dibromethane	56-23-5	10.0	BDL
Methylene Chloride	75-09-2	10.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,1,2-Tetrachloroethane	630-20-6	5.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5.0	BDL
Tetrachloroethylene	127-18-4	5.0	BDL
Toluene	**108-88-3**	**5.0**	**5.00**
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
Trichloroethylene	79-01-6	5.0	BDL
Trichlorofluoromethane	75-69-4	5.0	BDL
1,2,3-Trichloropropane	96-18-4	15.0	BDL
Vinyl Acetate	108-05-4	50.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylenes (Total)	**1330-20-7**	**5.0**	**31.7**

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

FINAL REPORT OF ANALYSES

MOUNTAIN GEOLOGY
1325 DILLS COVE ROAD
SYLVA, NC 28779-
Attn: MIKE OWENS

PROJECT NAME: MTN GEOLOGY
REPORT DATE: 08/09/96

SAMPLE NUMBER- 89198 SAMPLE ID- JACKSON CO [redacted]
DATE SAMPLED- 07/23/96
DATE RECEIVED- 07/24/96 SAMPLER- MH OWENS
TIME RECEIVED- 0838 DELIVERED BY- MIKE OWENS

SAMPLE MATRIX- WW
TIME SAMPLED- 1415
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
ARSENIC, TOTAL	206.2	07/25/96	BDL	07/26/96	BDL	< 0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	07/25/96	BDL	08/09/96	BDL	< 0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	07/25/96	BDL	07/26/96	BDL	< 0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
COBALT, TOTAL	219.1	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
LEAD, TOTAL	239.2	07/25/96	BDL	08/07/96	LJP	< 0.003	mg/l	0.003
SELENIUM, TOTAL	270.2	07/25/96	BDL	07/25/96	BDL	<0.003	mg/l	0.003
SILVER, TOTAL	272.2	07/25/96	BDL	07/29/96	BDL	< 0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.001
ANTIMONY, TOTAL	204.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.003
BARIUM, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	0.030	mg/l	0.005
COPPER, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
NICKEL, TOTAL	200.7	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
VANADIUN, TOTAL	286.2	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
ZINC, TOTAL	200.7	07/25/96	BDL	07/26/96	BDL	< 0.010	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 ASHEVILLE NC 28814-0029
704-254-5169 FAX: 704-252-9711 / TOLL FREE : 800-344-5759

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612125
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-2
DATE SAMPLED: 7/23/96
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 7/26/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrylonitrile	107-13-1	100.0	BDL
Benzene	71-43-2	5.0	BDL
Bromochloromethane	74-97-5	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Carbon Disulfide	75-15-0	100.0	BDL
Carbon Tetrachloride	56-23-5	10.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
1,2-Dibromo-3-chloropropane	96-12-8	25.0	BDL
1,2-Dibromoethane	106-93-4	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
trans-1,4-Dichloro-2-butene	110-57-6	100.0	BDL
1,1-Dichloroethane	75-34-3	5.0	BDL
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethylene	75-35-4	5.0	BDL
cis-1,2-Dichloroethylene	541-59-4	5.0	BDL
trans-1,2-Dichloroethylene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	10.0	BDL
trans-1,3-Dichloropropene	10061-02-6	10.0	BDL

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612125
SAMPLE IDENTIFICATION: MW-2
DATE SAMPLED: 7/23/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Ethylbenzene	100-41-4	5.0	BDL
2-Hexanone	591-78-6	50.0	BDL
Bromomethane	74-83-9	5.0	BDL
Chloromethane	74-87-3	5.0	BDL
2-Butanone	78-93-3	100.0	BDL
Idomethane		10.0	BDL
4-Methyl-2-pentanone	108-10-1	100.0	BDL
Dibromethane	56-23-5	10.0	BDL
Methylene Chloride	75-09-2	10.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,1,2-Tetrachloroethane	630-20-6	5.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5.0	BDL
Tetrachloroethylene	127-18-4	5.0	BDL
Toluene	108-88-3	5.0	BDL
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
Trichloroethylene	79-01-6	5.0	BDL
Trichlorofluoromethane	75-69-4	5.0	BDL
1,2,3-Trichloropropane	96-18-4	15.0	BDL
Vinyl Acetate	108-05-4	50.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylenes (Total)	1330-20-7	5.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

FINAL REPORT OF ANALYSES

MOUNTAIN GEOLOGY
1325 DILLS COVE ROAD
SYLVA, NC 28779-
Attn: MIKE OWENS

PROJECT NAME: MTN GEOLOGY
REPORT DATE: 08/09/96

SAMPLE NUMBER- 89199 SAMPLE ID- JACKSON CO[redacted]
DATE SAMPLED- 07/23/96
DATE RECEIVED- 07/24/96 SAMPLER- MH OWENS
TIME RECEIVED- 0838 DELIVERED BY- MIKE OWENS

SAMPLE MATRIX- WW
TIME SAMPLED- 1615
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
ARSENIC, TOTAL	206.2	07/25/96	BDL	07/26/96	BDL	< 0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	07/25/96	BDL	08/09/96	BDL	< 0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	07/25/96	BDL	07/26/96	BDL	< 0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
COBALT, TOTAL	219.1	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
LEAD, TOTAL	239.2	07/25/96	BDL	08/07/96	LJP	< 0.003	mg/l	0.003
SELENIUM, TOTAL	270.2	07/25/96	BDL	07/25/96	BDL	<0.003	mg/l	0.003
SILVER, TOTAL	272.2	07/25/96	BDL	07/29/96	BDL	< 0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.001
ANTIMONY, TOTAL	204.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.003
BARIUM, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	0.077	mg/l	0.005
COPPER, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
NICKEL, TOTAL	200.7	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
VANADIUN, TOTAL	286.2	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
ZINC, TOTAL	200.7	07/25/96	BDL	07/26/96	BDL	0.280	mg/l	0.010

LABORATORY DIRECTOR _____

P.O. BOX 18029 ASHEVILLE NC 28814-0029
704-254-5169 FAX: 704-252-9711 / TOLL FREE : 800-344-5759

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612126
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-3
DATE SAMPLED: 7/23/96
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 7/26/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrylonitrile	107-13-1	100.0	BDL
Benzene	71-43-2	5.0	BDL
Bromochloromethane	74-97-5	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Carbon Disulfide	75-15-0	100.0	BDL
Carbon Tetrachloride	56-23-5	10.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
1,2-Dibromo-3-chloropropane	96-12-8	25.0	BDL
1,2-Dibromoethane	106-93-4	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
trans-1,4-Dichloro-2-butene	110-57-6	100.0	BDL
1,1-Dichloroethane	**75-34-3**	**5.0**	**5.00**
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethylene	75-35-4	5.0	BDL
cis-1,2-Dichloroethylene	541-59-4	5.0	BDL
trans-1,2-Dichloroethylene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	10.0	BDL
trans-1,3-Dichloropropene	10061-02-6	10.0	BDL

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612126
SAMPLE IDENTIFICATION: MW-3
DATE SAMPLED: 7/23/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Ethylbenzene	100-41-4	5.0	BDL
2-Hexanone	591-78-6	50.0	BDL
Bromomethane	74-83-9	5.0	BDL
Chloromethane	74-87-3	5.0	BDL
2-Butanone	78-93-3	100.0	BDL
Idomethane		10.0	BDL
4-Methyl-2-pentanone	108-10-1	100.0	BDL
Dibromethane	56-23-5	10.0	BDL
Methylene Chloride	75-09-2	10.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,1,2-Tetrachloroethane	630-20-6	5.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5.0	BDL
Tetrachloroethylene	127-18-4	5.0	BDL
Toluene	108-88-3	5.0	BDL
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
Trichloroethylene	79-01-6	5.0	BDL
Trichlorofluoromethane	75-69-4	5.0	BDL
1,2,3-Trichloropropane	96-18-4	15.0	BDL
Vinyl Acetate	108-05-4	50.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylenes (Total)	1330-20-7	5.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

FINAL REPORT OF ANALYSES

MOUNTAIN GEOLOGY
1325 DILLS COVE ROAD
SYLVA, NC 28779-
Attn: MIKE OWENS

PROJECT NAME: MTN GEOLOGY
REPORT DATE: 08/09/96

SAMPLE NUMBER- 89200 SAMPLE ID- JACKSON CO [redacted]
DATE SAMPLED- 07/23/96
DATE RECEIVED- 07/24/96 SAMPLER- MH OWENS
TIME RECEIVED- 0838 DELIVERED BY- MIKE OWENS

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
ARSENIC, TOTAL	206.2	07/25/96	BDL	07/26/96	BDL	< 0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	07/25/96	BDL	08/09/96	BDL	< 0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	07/25/96	BDL	07/26/96	BDL	< 0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
COBALT, TOTAL	219.1	07/25/96	BDL	07/27/96	BDL	0.009	mg/l	0.005
LEAD, TOTAL	239.2	07/25/96	BDL	08/07/96	LJP	< 0.003	mg/l	0.003
SELENIUM, TOTAL	270.2	07/25/96	BDL	07/25/96	BDL	<0.003	mg/l	0.003
SILVER, TOTAL	272.2	07/25/96	BDL	07/29/96	BDL	< 0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.001
ANTIMONY, TOTAL	204.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.003
BARIUM, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	0.365	mg/l	0.005
COPPER, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
NICKEL, TOTAL	200.7	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
VANADIUN, TOTAL	286.2	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
ZINC, TOTAL	200.7	07/25/96	BDL	07/26/96	BDL	< 0.010	mg/l	0.010

LABORATORY DIRECTOR _____

P.O. BOX 18029 ASHEVILLE NC 28814-0029
704-254-5169 FAX: 704-252-9711 / TOLL FREE : 800-344-5759

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612127
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: MW-4
DATE SAMPLED: 7/23/96
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 7/26/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrylonitrile	107-13-1	100.0	BDL
Benzene	71-43-2	5.0	BDL
Bromochloromethane	74-97-5	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Carbon Disulfide	75-15-0	100.0	BDL
Carbon Tetrachloride	56-23-5	10.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
1,2-Dibromo-3-chloropropane	96-12-8	25.0	BDL
1,2-Dibromoethane	106-93-4	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
trans-1,4-Dichloro-2-butene	110-57-6	100.0	BDL
1,1-Dichloroethane	75-34-3	5.0	BDL
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethylene	75-35-4	5.0	BDL
cis-1,2-Dichloroethylene	**541-59-4**	**5.0**	**18.4**
trans-1,2-Dichloroethylene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	10.0	BDL
trans-1,3-Dichloropropene	10061-02-6	10.0	BDL

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HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612127
SAMPLE IDENTIFICATION: MW-4
DATE SAMPLED: 7/23/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Ethylbenzene	100-41-4	5.0	BDL
2-Hexanone	591-78-6	50.0	BDL
Bromomethane	74-83-9	5.0	BDL
Chloromethane	74-87-3	5.0	BDL
2-Butanone	78-93-3	100.0	BDL
Idomethane		10.0	BDL
4-Methyl-2-pentanone	108-10-1	100.0	BDL
Dibromethane	56-23-5	10.0	BDL
Methylene Chloride	75-09-2	10.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,1,2-Tetrachloroethane	630-20-6	5.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5.0	BDL
Tetrachloroethylene	127-18-4	5.0	BDL
Toluene	108-88-3	5.0	BDL
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
Trichloroethylene	79-01-6	5.0	BDL
Trichlorofluoromethane	75-69-4	5.0	BDL
1,2,3-Trichloropropane	96-18-4	15.0	BDL
Vinyl Acetate	108-05-4	50.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylenes (Total)	1330-20-7	5.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

FINAL REPORT OF ANALYSES

MOUNTAIN GEOLOGY
1325 DILLS COVE ROAD
SYLVA, NC 28779-
Attn: MIKE OWENS

PROJECT NAME: MTN GEOLOGY
REPORT DATE: 08/09/96

SAMPLE NUMBER- 89201 SAMPLE ID- JACKSON CO [redacted]
DATE SAMPLED- 07/23/96
DATE RECEIVED- 07/24/96 SAMPLER- MH OWENS
TIME RECEIVED- 0838 DELIVERED BY- MIKE OWENS

SAMPLE MATRIX- WW
TIME SAMPLED- 1640
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
ARSENIC, TOTAL	206.2	07/25/96	BDL	07/26/96	BDL	< 0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	07/25/96	BDL	08/09/96	BDL	< 0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	07/25/96	BDL	07/26/96	BDL	< 0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
COBALT, TOTAL	219.1	07/25/96	BDL	07/27/96	BDL	0.013	mg/l	0.005
LEAD, TOTAL	239.2	07/25/96	BDL	08/07/96	LJP	< 0.003	mg/l	0.003
SELENIUM, TOTAL	270.2	07/25/96	BDL	07/25/96	BDL	<0.003	mg/l	0.003
SILVER, TOTAL	272.2	07/25/96	BDL	07/29/96	BDL	< 0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.001
ANTIMONY, TOTAL	204.2	07/25/96	BDL	08/06/96	LJP	0.004	mg/l	0.003
BARIUM, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	0.150	mg/l	0.005
COPPER, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
NICKEL, TOTAL	200.7	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
VANADIUN, TOTAL	286.2	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
ZINC, TOTAL	200.7	07/25/96	BDL	07/26/96	BDL	0.033	mg/l	0.010

LABORATORY DIRECTOR _____

P.O. BOX 18029 ASHEVILLE NC 28814-0029
704-254-5169 FAX: 704-252-9711 / TOLL FREE : 800-344-5759

HYDROLOGIC, INC.

COMPANY NAME:	Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER:	Mountain Geology/Jackson Co.
HYDROLOGIC PROJECT NUMBER:	FL9612124
HYDROLOGIC SAMPLE NUMBER:	9612128
HYDROLOGIC LAB I.D.#:	399
SAMPLE IDENTIFICATION:	MW-5
DATE SAMPLED:	7/23/96
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	7/26/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrylonitrile	107-13-1	100.0	BDL
[redacted]	**71-43-2**	**5.0**	[redacted]
Bromochloromethane	74-97-5	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Carbon Disulfide	75-15-0	100.0	BDL
Carbon Tetrachloride	56-23-5	10.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
1,2-Dibromo-3-chloropropane	96-12-8	25.0	BDL
1,2-Dibromoethane	106-93-4	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
trans-1,4-Dichloro-2-butene	110-57-6	100.0	BDL
1,1-Dichloroethane	**75-34-3**	**5.0**	**6.27** [redacted]
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethylene	75-35-4	5.0	BDL
cis-1,2-Dichloroethylene	**541-59-4**	**5.0**	**79.8** [redacted]
trans-1,2-Dichloroethylene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	10.0	BDL
trans-1,3-Dichloropropene	10061-02-6	10.0	BDL

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502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612128
SAMPLE IDENTIFICATION: MW-5
DATE SAMPLED: 7/23/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Ethylbenzene	100-41-4	5.0	BDL
2-Hexanone	591-78-6	50.0	BDL
Bromomethane	74-83-9	5.0	BDL
Chloromethane	74-87-3	5.0	BDL
2-Butanone	78-93-3	100.0	BDL
Idomethane		10.0	BDL
4-Methyl-2-pentanone	108-10-1	100.0	BDL
Dibromethane	56-23-5	10.0	BDL
Methylene Chloride	75-09-2	10.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,1,2-Tetrachloroethane	630-20-6	5.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5.0	BDL
[redacted]	**127-18-4**	**5.0**	[redacted]
Toluene	108-88-3	5.0	BDL
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
[redacted]	**79-01-6**	**5.0**	[redacted]
Trichlorofluoromethane	75-69-4	5.0	BDL
1,2,3-Trichloropropane	96-18-4	15.0	BDL
Vinyl Acetate	108-05-4	50.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylenes (Total)	1330-20-7	5.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

FINAL REPORT OF ANALYSES

MOUNTAIN GEOLOGY
1325 DILLS COVE ROAD
SYLVA, NC 28779-
Attn: MIKE OWENS

PROJECT NAME: MTN GEOLOGY
REPORT DATE: 08/09/96

SAMPLE NUMBER- 89202 SAMPLE ID- JACKSON CO [redacted]
DATE SAMPLED- 07/23/96
DATE RECEIVED- 07/24/96 SAMPLER- MH OWENS
TIME RECEIVED- 0838 DELIVERED BY- MIKE OWENS

SAMPLE MATRIX- WW
TIME SAMPLED- 1550
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
ARSENIC, TOTAL	206.2	07/25/96	BDL	07/26/96	BDL	< 0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	07/25/96	BDL	08/09/96	BDL	< 0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	07/25/96	BDL	07/26/96	BDL	< 0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
COBALT, TOTAL	219.1	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
LEAD, TOTAL	239.2	07/25/96	BDL	08/07/96	LJP	< 0.003	mg/l	0.003
SELENIUM, TOTAL	270.2	07/25/96	BDL	07/25/96	BDL	<0.003	mg/l	0.003
SILVER, TOTAL	272.2	07/25/96	BDL	07/29/96	BDL	< 0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.001
ANTIMONY, TOTAL	204.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.003
BARIUM, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	0.015	mg/l	0.005
COPPER, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
NICKEL, TOTAL	200.7	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
VANADIUN, TOTAL	286.2	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
ZINC, TOTAL	200.7	07/25/96	BDL	07/26/96	BDL	< 0.010	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 ASHEVILLE NC 28814-0029
704-254-5169 FAX: 704-252-9711 / TOLL FREE : 800-344-5759

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612129
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: UPSTREAM
DATE SAMPLED: 7/23/96
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 7/26/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrylonitrile	107-13-1	100.0	BDL
Benzene	71-43-2	5.0	BDL
Bromochloromethane	74-97-5	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Carbon Disulfide	75-15-0	100.0	BDL
Carbon Tetrachloride	56-23-5	10.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
1,2-Dibromo-3-chloropropane	96-12-8	25.0	BDL
1,2-Dibromoethane	106-93-4	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
trans-1,4-Dichloro-2-butene	110-57-6	100.0	BDL
1,1-Dichloroethane	75-34-3	5.0	BDL
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethylene	75-35-4	5.0	BDL
cis-1,2-Dichloroethylene	541-59-4	5.0	BDL
trans-1,2-Dichloroethylene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	10.0	BDL
trans-1,3-Dichloropropene	10061-02-6	10.0	BDL

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612129
SAMPLE IDENTIFICATION: UPSTREAM
DATE SAMPLED: 7/23/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Ethylbenzene	100-41-4	5.0	BDL
2-Hexanone	591-78-6	50.0	BDL
Bromomethane	74-83-9	5.0	BDL
Chloromethane	74-87-3	5.0	BDL
2-Butanone	78-93-3	100.0	BDL
Idomethane		10.0	BDL
4-Methyl-2-pentanone	108-10-1	100.0	BDL
Dibromethane	56-23-5	10.0	BDL
Methylene Chloride	75-09-2	10.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,1,2-Tetrachloroethane	630-20-6	5.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5.0	BDL
Tetrachloroethylene	127-18-4	5.0	BDL
Toluene	108-88-3	5.0	BDL
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
Trichloroethylene	79-01-6	5.0	BDL
Trichlorofluoromethane	75-69-4	5.0	BDL
1,2,3-Trichloropropane	96-18-4	15.0	BDL
Vinyl Acetate	108-05-4	50.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylenes (Total)	1330-20-7	5.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

FINAL REPORT OF ANALYSES

MOUNTAIN GEOLOGY
1325 DILLS COVE ROAD
SYLVA, NC 28779-
Attn: MIKE OWENS

PROJECT NAME: MTN GEOLOGY
REPORT DATE: 08/09/96

SAMPLE NUMBER- 89203 SAMPLE ID- JACKSON CO [redacted]
DATE SAMPLED- 07/23/96
DATE RECEIVED- 07/24/96 SAMPLER- MH OWENS
TIME RECEIVED- 0838 DELIVERED BY- MIKE OWENS

SAMPLE MATRIX- WW
TIME SAMPLED- 1520
RECEIVED BY- DHT

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
ARSENIC, TOTAL	206.2	07/25/96	BDL	07/26/96	BDL	< 0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	07/25/96	BDL	08/09/96	BDL	< 0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	07/25/96	BDL	07/26/96	BDL	< 0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
COBALT, TOTAL	219.1	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
LEAD, TOTAL	239.2	07/25/96	BDL	08/07/96	LJP	< 0.003	mg/l	0.003
SELENIUM, TOTAL	270.2	07/25/96	BDL	07/25/96	BDL	<0.003	mg/l	0.003
SILVER, TOTAL	272.2	07/25/96	BDL	07/29/96	BDL	< 0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.001
ANTIMONY, TOTAL	204.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.003
BARIUM, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	0.014	mg/l	0.005
COPPER, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
NICKEL, TOTAL	200.7	07/25/96	BDL	07/29/96	BDL	0.005	mg/l	0.005
VANADIUN, TOTAL	286.2	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
ZINC, TOTAL	200.7	07/25/96	BDL	07/26/96	BDL	< 0.010	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 ASHEVILLE NC 28814-0029
704-254-5169 FAX: 704-252-9711 / TOLL FREE : 800-344-5759

HYDROLOGIC, INC.

COMPANY NAME:	Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER:	Mountain Geology/Jackson Co.
HYDROLOGIC PROJECT NUMBER:	FL9612124
HYDROLOGIC SAMPLE NUMBER:	9612130
HYDROLOGIC LAB I.D.#:	399
SAMPLE IDENTIFICATION:	DOWNSTREAM
DATE SAMPLED:	7/23/96
DATE EXTRACTED:	N/A
DATE/TIME ANALYZED:	7/26/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrylonitrile	107-13-1	100.0	BDL
Benzene	71-43-2	5.0	BDL
Bromochloromethane	74-97-5	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Carbon Disulfide	75-15-0	100.0	BDL
Carbon Tetrachloride	56-23-5	10.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
1,2-Dibromo-3-chloropropane	96-12-8	25.0	BDL
1,2-Dibromoethane	106-93-4	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
trans-1,4-Dichloro-2-butene	110-57-6	100.0	BDL
1,1-Dichloroethane	75-34-3	5.0	BDL
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethylene	75-35-4	5.0	BDL
cis-1,2-Dichloroethylene	541-59-4	5.0	BDL
trans-1,2-Dichloroethylene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	10.0	BDL
trans-1,3-Dichloropropene	10061-02-6	10.0	BDL

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612130
SAMPLE IDENTIFICATION: DOWNSTREAM
DATE SAMPLED: 7/23/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Ethylbenzene	100-41-4	5.0	BDL
2-Hexanone	591-78-6	50.0	BDL
Bromomethane	74-83-9	5.0	BDL
Chloromethane	74-87-3	5.0	BDL
2-Butanone	78-93-3	100.0	BDL
Idomethane		10.0	BDL
4-Methyl-2-pentanone	108-10-1	100.0	BDL
Dibromethane	56-23-5	10.0	BDL
Methylene Chloride	75-09-2	10.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,1,2-Tetrachloroethane	630-20-6	5.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5.0	BDL
Tetrachloroethylene	127-18-4	5.0	BDL
Toluene	108-88-3	5.0	BDL
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
Trichloroethylene	79-01-6	5.0	BDL
Trichlorofluoromethane	75-69-4	5.0	BDL
1,2,3-Trichloropropane	96-18-4	15.0	BDL
Vinyl Acetate	108-05-4	50.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylenes (Total)	1330-20-7	5.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

FINAL REPORT OF ANALYSES

MOUNTAIN GEOLOGY
1325 DILLS COVE ROAD
SYLVA, NC 28779-
Attn: MIKE OWENS

PROJECT NAME: MTN GEOLOGY
REPORT DATE: 08/09/96

SAMPLE NUMBER- 89204 SAMPLE ID- JACKSON CO[redacted] SAMPLE MATRIX- WW
DATE SAMPLED- 07/23/96
DATE RECEIVED- 07/24/96 SAMPLER- MH OWENS RECEIVED BY- DHT
TIME RECEIVED- 0838 DELIVERED BY- MIKE OWENS

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
ARSENIC, TOTAL	206.2	07/25/96	BDL	07/26/96	BDL	< 0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	07/25/96	BDL	08/09/96	BDL	< 0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	07/25/96	BDL	07/26/96	BDL	< 0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
COBALT, TOTAL	219.1	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
LEAD, TOTAL	239.2	07/25/96	BDL	08/07/96	LJP	< 0.003	mg/l	0.003
SELENIUM, TOTAL	270.2	07/25/96	BDL	07/25/96	BDL	<0.003	mg/l	0.003
SILVER, TOTAL	272.2	07/25/96	BDL	07/29/96	BDL	< 0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.001
ANTIMONY, TOTAL	204.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.003
BARIUM, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
NICKEL, TOTAL	200.7	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
VANADIUN, TOTAL	286.2	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
ZINC, TOTAL	200.7	07/25/96	BDL	07/26/96	BDL	< 0.010	mg/l	0.010

LABORATORY DIRECTOR _____

P.O. BOX 18029 ASHEVILLE NC 28814-0029
704-254-5169 FAX: 704-252-9711 / TOLL FREE : 800-344-5759

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612131
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: TRIP BLANK
DATE SAMPLED: 7/23/96
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 7/26/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrylonitrile	107-13-1	100.0	BDL
Benzene	71-43-2	5.0	BDL
Bromochloromethane	74-97-5	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Carbon Disulfide	75-15-0	100.0	BDL
Carbon Tetrachloride	56-23-5	10.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
1,2-Dibromo-3-chloropropane	96-12-8	25.0	BDL
1,2-Dibromoethane	106-93-4	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
trans-1,4-Dichloro-2-butene	110-57-6	100.0	BDL
1,1-Dichloroethane	75-34-3	5.0	BDL
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethylene	75-35-4	5.0	BDL
cis-1,2-Dichloroethylene	541-59-4	5.0	BDL
trans-1,2-Dichloroethylene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	10.0	BDL
trans-1,3-Dichloropropene	10061-02-6	10.0	BDL

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612131
SAMPLE IDENTIFICATION: TRIP BLANK
DATE SAMPLED: 7/23/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Ethylbenzene	100-41-4	5.0	BDL
2-Hexanone	591-78-6	50.0	BDL
Bromomethane	74-83-9	5.0	BDL
Chloromethane	74-87-3	5.0	BDL
2-Butanone	78-93-3	100.0	BDL
Idomethane		10.0	BDL
4-Methyl-2-pentanone	108-10-1	100.0	BDL
Dibromethane	56-23-5	10.0	BDL
Methylene Chloride	75-09-2	10.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,1,2-Tetrachloroethane	630-20-6	5.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5.0	BDL
Tetrachloroethylene	127-18-4	5.0	BDL
Toluene	108-88-3	5.0	BDL
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
Trichloroethylene	79-01-6	5.0	BDL
Trichlorofluoromethane	75-69-4	5.0	BDL
1,2,3-Trichloropropane	96-18-4	15.0	BDL
Vinyl Acetate	108-05-4	50.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylenes (Total)	1330-20-7	5.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

FINAL REPORT OF ANALYSES

MOUNTAIN GEOLOGY
1325 DILLS COVE ROAD
SYLVA, NC 28779-
Attn: MIKE OWENS

REPORT DATE: 08/09/96

SAMPLE NUMBER- 89205 SAMPLE ID- JACKSON CO [redacted] SAMPLE MATRIX- WW
DATE SAMPLED- 07/23/96
DATE RECEIVED- 07/24/96 SAMPLER- MH OWENS RECEIVED BY- DHT
TIME RECEIVED- 0838 DELIVERED BY- MIKE OWENS

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	BY	RESULT	UNITS	DET. LIMIT
ARSENIC, TOTAL	206.2	07/25/96	BDL	07/26/96	BDL	< 0.003	mg/l	0.003
BERYLLIUM, TOTAL	210.2	07/25/96	BDL	08/09/96	BDL	< 0.001	mg/l	0.001
CADMIUM, TOTAL	213.2	07/25/96	BDL	07/26/96	BDL	< 0.001	mg/l	0.001
CHROMIUM, TOTAL	218.2	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
COBALT, TOTAL	219.1	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
LEAD, TOTAL	239.2	07/25/96	BDL	08/07/96	LJP	< 0.003	mg/l	0.003
SELENIUM, TOTAL	270.2	07/25/96	BDL	07/25/96	BDL	<0.003	mg/l	0.003
SILVER, TOTAL	272.2	07/25/96	BDL	07/29/96	BDL	< 0.001	mg/l	0.001
THALLIUM, TOTAL	279.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.001
ANTIMONY, TOTAL	204.2	07/25/96	BDL	08/06/96	LJP	< 0.003	mg/l	0.003
BARIUM, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
COPPER, TOTAL	200.7	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
NICKEL, TOTAL	200.7	07/25/96	BDL	07/29/96	BDL	< 0.005	mg/l	0.005
VANADIUN, TOTAL	286.2	07/25/96	BDL	07/27/96	BDL	< 0.005	mg/l	0.005
ZINC, TOTAL	200.7	07/25/96	BDL	07/26/96	BDL	0.111	mg/l	0.010

LABORATORY DIRECTOR

P.O. BOX 18029 ASHEVILLE NC 28814-0029
704-254-5169 FAX: 704-252-9711 / TOLL FREE : 800-344-5759

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612132
HYDROLOGIC LAB I.D.#: 399
SAMPLE IDENTIFICATION: EGPT BLANK
DATE SAMPLED: 7/23/96
DATE EXTRACTED: N/A
DATE/TIME ANALYZED: 7/26/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Acetone	67-64-1	100.0	BDL
Acrylonitrile	107-13-1	100.0	BDL
Benzene	71-43-2	5.0	BDL
Bromochloromethane	74-97-5	5.0	BDL
Bromodichloromethane	75-27-4	5.0	BDL
Bromoform	75-25-2	5.0	BDL
Carbon Disulfide	75-15-0	100.0	BDL
Carbon Tetrachloride	56-23-5	10.0	BDL
Chlorobenzene	108-90-7	5.0	BDL
Chloroethane	75-00-3	10.0	BDL
Chloroform	67-66-3	5.0	BDL
Dibromochloromethane	124-48-1	5.0	BDL
1,2-Dibromo-3-chloropropane	96-12-8	25.0	BDL
1,2-Dibromoethane	106-93-4	5.0	BDL
1,2-Dichlorobenzene	95-50-1	5.0	BDL
1,4-Dichlorobenzene	106-46-7	5.0	BDL
trans-1,4-Dichloro-2-butene	110-57-6	100.0	BDL
1,1-Dichloroethane	75-34-3	5.0	BDL
1,2-Dichloroethane	107-06-2	5.0	BDL
1,1-Dichloroethylene	75-35-4	5.0	BDL
cis-1,2-Dichloroethylene	541-59-4	5.0	BDL
trans-1,2-Dichloroethylene	156-60-5	5.0	BDL
1,2-Dichloropropane	78-87-5	5.0	BDL
cis-1,3-Dichloropropene	10061-01-5	10.0	BDL
trans-1,3-Dichloropropene	10061-02-6	10.0	BDL

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

HYDROLOGIC, INC.

COMPANY NAME: Hydrologic-Asheville, Inc
COMPANY PROJECT NUMBER: Mountain Geology/Jackson Co.

HYDROLOGIC PROJECT NUMBER: FL9612124
HYDROLOGIC SAMPLE NUMBER: 9612132
SAMPLE IDENTIFICATION: EGPT BLANK
DATE SAMPLED: 7/23/96

METHOD EPA 8260 Appendix I

ANALYSIS	CAS NO.	SDL (ug/l)	RESULT (ug/l)
Ethylbenzene	100-41-4	5.0	BDL
2-Hexanone	591-78-6	50.0	BDL
Bromomethane	74-83-9	5.0	BDL
Chloromethane	74-87-3	5.0	BDL
2-Butanone	78-93-3	100.0	BDL
Idomethane		10.0	BDL
4-Methyl-2-pentanone	108-10-1	100.0	BDL
Dibromethane	56-23-5	10.0	BDL
Methylene Chloride	75-09-2	10.0	BDL
Styrene	100-42-5	10.0	BDL
1,1,1,2-Tetrachloroethane	630-20-6	5.0	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5.0	BDL
Tetrachloroethylene	127-18-4	5.0	BDL
Toluene	108-88-3	5.0	BDL
1,1,1-Trichloroethane	71-55-6	5.0	BDL
1,1,2-Trichloroethane	79-00-5	5.0	BDL
Trichloroethylene	79-01-6	5.0	BDL
Trichlorofluoromethane	75-69-4	5.0	BDL
1,2,3-Trichloropropane	96-18-4	15.0	BDL
Vinyl Acetate	108-05-4	50.0	BDL
Vinyl Chloride	75-01-4	10.0	BDL
Xylenes (Total)	1330-20-7	5.0	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

1491 TWILIGHT TRAIL FRANKFORT, KY 40601
502-223-0251 FAX: 502-875-8016 / TOLL FREE 800-728-2251

89197 ↓ 89205

HYDROLOGIC, INC.

Chain of Custody Record

☒ 122 Lyman Street, Asheville, NC 28801, (704)254-5169, FAX (704) 252-9711
☐ 410 New Salem Highway #106, Murfreesboro, TN 37129, (615) 848-6810, FAX (615) 848-6805
☐ 1491 Twilight Trail, Frankfort, KY 40601, (502) 223-0251, FAX (502) 875-8016
☐ 2003 North Pine Street, Lumberton, NC 28358, (910) 738-6190, FAX (910) 671-8837
☐ 263 Branchview Drive SE, Concord, NC 28025, (704) 786-3322, FAX (704) 786-2999
☐ 2500 Gateway Centre, Morrisville, NC 27560, (919) 380-9699, FAX (919) 380-9717
☐ 4875 Riverside Drive, Macon, GA 31210, (912) 757-0811, FAX (912) 757-0149
☐ 2082 Trade Ctr Way #103, Naples, FL 33942, (813) 597-6059, FAX (813) 597-7056

Client: Mountain Geology	Project No.: Jackson Co
Report Address: 1325 Dills Cove Rd, Sylva, NC 28779	Invoice Address: Same
Attn: M H Owens	Attn:
Phone No.: (704) 586-3955	Sampled By: M H Owens
Fax No.: " "	P.O. No:

TURNAROUND TIME

☐ 24 Hours ☐ 48 Hours Date Needed:

☐ 5 Days ☐ 10 Days ☐ Other

REQUESTED PARAMETERS

LAB CODE I.D.

A = Asheville, NC
C = Concord, NC
D = Denver, CO
G = Macon,GA
K = Frankfort, KY
L = Lumberton, NC
M = Morrisville, NC
N = Naples, FL
S = Subcontracted
T = Murfreesboro, TN

Sample ID	Date	Time	Comp/ Grab	Matrix	Preserv.	Containers	metals - Appendix I	organics - Appendix I									REMARKS
MW-1	7/23/96	1:20P	G	Water	HCl/HNO3	5	X	X									
MW-2	"	2:15P	"	"	"	5	X	X									
MW-3	"	4:15P	"	"	"	5	X	X									
MW-4	"	2:45P	"	"	"	5	X	X									
MW-5	"	4:40P	"	"	"	5	X	X									
Upstream	"	3:50P	"	"	"	5	X	X									
Downstream	"	3:20P	"	"	"	5	X	X									
Trip Blank	"	-	"	"	"	2	X	X									
Eqpt Blank	"	-	"	"	"	2	X	X									

Custody Seal: ☐ Yes ☐ No ☐ N/A

COMMENTS:

Relinquished By: M H Owens	Date 7/24/96 Time 8:38A	Received By: Dinah Trawl	Date 7/24/96 Time 0838	State Samples Collected: NC	
Relinquished By:	Date Time	Received By:	Date Time	[redacted]	
Relinquished By:	Date Time	Received By:	Date Time		
Relinquished By:	Date Time	Received By:	Date Time		

HYDROLOGIC, INC.

Chain of Custody Record

☒ 122 Lyman Street, Asheville, NC 28801, (704)254-5169, FAX (704) 252-9711
☐ 410 New Salem Highway #106, Murfreesboro, TN 37129, (615) 848-6810, FAX (615) 848-6805
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☒ 2003 North Pine Street, Lumberton, NC 28358, (910) 738-6190, FAX (910) 671-8837
☐ 263 Branchview Drive SE, Concord, NC 28025, (704) 786-3322, FAX (704) 786-2999
☐ 2500 Gateway Centre, Morrisville, NC 27560, (919) 380-9699, FAX (919) 380-9717
☐ 4875 Riverside Drive, Macon, GA 31210, (912) 757-0811, FAX (912) 757-0149
☐ 2082 Trade Ctr Way #103, Naples, FL 33942, (813) 597-6059, FAX (813) 597-7056

Client: Mountain Geology
Project No.: Jackson Co
Report Address: 625 Dills Cove Rd, Sylva NC 28779
Invoice Address: Same
Attn: MH Owens
Attn:
Phone No.: (704) 586-3955
Sampled By: MH Owens
Fax No.: " "
P.O. No:

TURNAROUND TIME

☐ 24 Hours ☐ 48 Hours Date Needed:
☐ 5 Days ☐ 10 Days ☐ Other

REQUESTED PARAMETERS

LAB CODE I.D.
A = Asheville, NC
C = Concord, NC
D = Denver, CO
G = Macon, GA
K = Frankfort, KY
L = Lumberton, NC
M = Morrisville, NC
N = Naples, FL
S = Subcontracted
T = Murfreesboro, TN

FL9612124

Sample ID	Date	Time	Comp/Grab	Matrix	Preserv.	Containers	Metals - Appendix I	Organics - Appendix I	$8260									REMARKS
MW-1	7/24/96	12:00	G	Water	HCl/HNO3	5	X	X										3
MW-2	"	2:15P	"	"	"	5	X	X										3
MW-3	"	4:15P	"	"	"	5	X	X										3
MW-4	"	2:45P	"	"	"	5	X	X										3
MW-5	"	4:00P	"	"	"	5	X	X										3
[illegible]	"	3:30P	"	"	"	5	X	X										3
[illegible]	"	3:20P	"	"	"	5	X	X										3
Trip Blank	"	-	"	"	"	2	X	X										1
Eqpt Blank	"	-	"	"	"	2	X	X										1

[redacted]

COMMENTS:

Relinquished By:	Date	Time	Received By:	Date	Time	State Samples Collected:
MH Owens	7/24/96	8:30A	Denal Grant	7/24/96	0850	NC
Denal Grant	7/24/96	1700	L. Robinson	7/25/96	11:00	[redacted]
Relinquished By:	Date	Time	Received By:	Date	Time	

1325 Dills Cove Rd.
Sylva, NC 28779

MOUNTAIN GEOLOGY, INC.

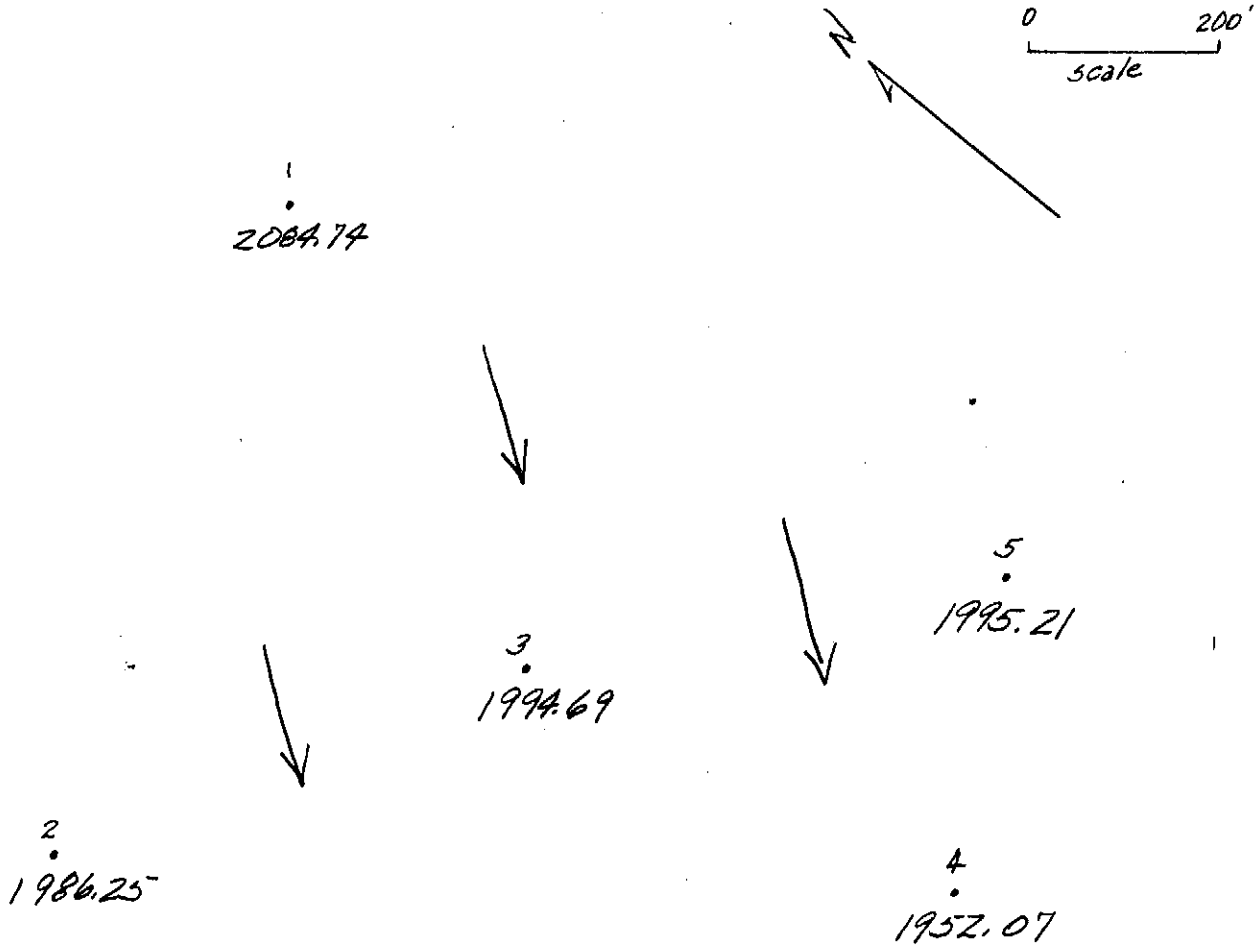
Phone & Fax
(704) 586-3955

Jackson County Landfill

Field Measurements (July 1996 Sampling)

Date	Depths to water (ft)				
	MW-1	MW-2	MW-3	MW-4	MW-5
07/22/96	86.66	31.35	50.82	28.67	44.04

	Sample Collection		Other Parameters		
Station	Date	time	pH (units)	temp(℃)	conductivity (umhos)
MW-1	7/23/96	1:20(P)	5.68	18.5	75.3
MW-2	7/23/96	2:15(P)	6.52	18.5	112.6
MW-3	7/23/96	4:15(P)	5.90	19.5	122.6
MW-4	7/23/96	2:45(P)	5.63	18.5	330.0
MW-5	7/23/96	4:40(P)	5.90	19.5	310.0
U(upstream)	7/23/96	3:50(P)	7.19	22.5	25.5
D(downstream)	7/23/96	3:20 (P)	7.70	23.5	27.7



Jackson County Landfill

Explanation

3 monitor well

1995.62 water elevation 7/22/96

→ flow direction

Groundwater Flow

VOSS TECHNOLOGIES, INC
4227 CENTERGATE
SAN ANTONIO, TX 78217

BAILER CERTIFICATION

LOT: 0296-003

CLIENT: MOUNTAIN GEOLOGY

DESCRIPTION: 1 CASE SST-36-021 TEFLON BAILERS,
12 UNITS PER CASE

This is to certify that the entire lot described above, was manufactured under like conditions by Voss Products.