GROUNDWATER RESOURCE INVESTIGATION
BEALETON SERVICE DISTRICT
Bealeton, Virginia

RESULTS OF PUMPING TESTS on WELLS B-3, B-4 and MS-5

Submitted to

COUNTY OF FAUQUIER
and
FAUQUIER COUNTY
WATER AND SANITATION AUTHORITY

VOLUME II -- APPENDICES A-H

November, 1994

Presented by

EMERY & GARRETT GROUNDWATER, INC.
170 Waukewan Street
Meredith, New Hampshire 03253
(603) 279-4425

with operation centers in

Chantilly, Virginia Alpharetta, Georgia Waterville, Maine

APPENDIX A

HYDROGEOLOGIC BOREHOLE LOGS
and
VIRGINIA WELL COMPLETION REPORTS
(GW-2 FORMS)

for
PRODUCTION WELLS A-1, B-1, B-3, B-4, and MS-5
and
TEST WELLS A-3, B-2, C-1, C-2, and D-2

Emery & Garrett Groundwater, Inc.

PRODUCTION WELL A-1

Emery & Garrett Groundwater, Inc.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL A-1 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: J. A. Brooks, Ph.D.
Date Drilled: November 17, 1993

Well #: A-1

TEST WELL DATA for Well#: A-1

Static Water Level: ND
Depth to bedrock: 12'
Well Diameter: 6" **Air-Lift Yield : 85 gpm**
Total Depth: 440'
Casing Length: 21' x 6"

PRODUCTION WELL DATA for Well #: A-1

Date of Reaming: 11/16/93
Total Length of 8" Casing: 57' **Final Air-Lift Yield: 140 gpm**
Depth of 8" Reaming: 225'

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
0			0'-10': Saprolite 10': Partially weathering micaceous sandstone.
10	Casing		12': Bedrock. Competent , micaceous, thinly bedded sandstone.
20			20'-59': Grayish brown, micaceous sandstone.
30			
40			
50			59'-61': Brownish gray to pale olive, micaceous sandstone.
60			61'-69': Grayish brown, micaceous sandstone.
70	30		69'-74': Brownish gray to pale olive, micaceous sandstone. **Increase in yield.**
80			74'-80': Grayish brown, micaceous sandstone. 80'-84': Brownish gray to pale olive, micaceous sandstone.
90			84'-95': Grayish brown, micaceous sandstone. 95'-97': Brownish gray to pale olive, micaceous sandstone.
100			97'-128': Grayish brown, micaceous sandstone.
110			
120			128'-177': Brownish gray to pale olive, micaceous sandstone.
130			
140	75		**Gradual increase in yield after 69'-74' foot water-bearing zone.**
150			
160			
170			177'-178': Grayish brown, micaceous sandstone. 178'-179': Brownish gray to pale olive, micaceous
180	85		sandstone. 179'-189': Grayish brown, micaceous sandstone. **Water-bearing zone at 189'.**
190			190'-194': Medium brown sandstone. 194'-198': Brownish gray to pale olive, micaceous sandstone.
200			198'-210': Medium brown sandstone.
210	**Limit**		210'-220': Grayish brown, micaceous sandstone to siltstone.
220	**of 8"**		220'-225': Grayish brown siltstone. 225'-237': Brownish gray to pale olive sandstone.
230	**Reaming**		237'-250': Grayish brown, micaceous sandstone.
240			
250			
260			258'-278': Grayish brown, micaceous sandstone.
270			278'-279': Brownish gray to pale olive, micaceous sandstone.
280			279'-342': Grayish brown, micaceous sandstone to siltstone.
290			
300			

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL A-1 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: J. A. Brooks, Ph.D.
Date Drilled: November 17, 1993

Well #: A-1

TEST WELL DATA for Well#: A-1

Static Water Level: ND
Depth to bedrock: 12'
Well Diameter: 6" **Air-Lift Yield : 85 gpm**
Total Depth: 440'
Casing Length: 21' x 6"

PRODUCTION WELL DATA for Well #: A-1

Date of Reaming: 11/16/93
Total Length of 8" Casing: 57' **Final Air-Lift Yield: 140 gpm**
Depth of 8" Reaming: 225'

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
310			
320			
330			
340			342'-343': Brownish gray to pale olive sandstone.
350			343'-383': Grayish brown, micaceous sandstone to siltstone.
360			
370			
380			383'-400': Medium gray to gray green diabase and 2-4% prehnite.
390			
400			400-440': Partially to unaltered diabase.
410			
420			
430			
440			**440': Bottom of borehole.**

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

WATER BEARING ZONE -where yield of well increased.

SAPROLITE: Weathered bedrock.

SANDSTONE: Brownish gray to pale olive, fine to medium grained sandstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes.

SANDSTONE: Grayish brown to medium brown, fine to medium grained sandstone to siltstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes. Often interbedded with siltstone described below.

SILTSTONE: Grayish brown to medium brown, siltstone. Bedding is generally poorly developed. Carbonate is common in the matrix but locally is only a minor constituent; mica is rare.

DIABASE: Dark green to greenish black, massive, fine to medium grained diabase.

Form GW-2
1978-10,000

COMMONWEALTH OF VIRGINIA
WATER WELL COMPLETION REPORT

(Certification of Completion/County Permit)

• BWCM No. _____

State Water Control Board
P. O. Box 11143
2111 North Hamilton St.
Richmond, Va. 23230

SWCB Permit _____
County Permit SD-93-227

Certification of inspecting official:
This well does _____ does not _____
meet code/low requirements.
S. _____
Date _____

For Office Use

County/City Fauquier

County/City Stamp

• Virginia Plane Coordinates
_____ N
_____ E

Latitude & Longitude
_____ N
_____ W

• Topo. Map No. _____
• Elevation _____ ft.
• Formation _____
• Lithology _____
• River Basin _____
• Province _____
• Type Logs _____
• Cuttings _____
• Water Analysis _____
• Aquifer Test _____

• Owner Fauquier County (Emery & Garrett job)
• Well Designation or Number #15 drilled A-1
Address P.O. Box 3047
Warrenton, VA 22186
Phone 349-2092 (Emery & Garrett-603-279-4425)

• Drilling Contractor SINGHAS & MICHAEL CORP.
Address RT. 3, BOX 5062
BERRYVILLE, VA 22611
Phone 703-955-3582

Tax Map I.D. No. 6889 01
Subdivision _____
Section _____
Block _____
Lot _____
Class Well: I _____, IIA _____,
IIB _____, IIIA _____, IIIB yes
IIIC _____ IIID _____ IIIE _____

WELL LOCATION: 29N (feet/miles, S to direction) of Opal, S on 17 right on 28
and _____ feet/miles _____ (direction) of right on 661 1000' past Vaverville
(If possible please include map showing location marked)

Date started 11/17/93 • Date completed 11/18/93 Type rig air rotary

WELL DATA: New yes Reworked _____ Deepened _____
• Total depth 440' 6" 225' 8" ft.
• Depth to bedrock 8' ft.
• Hole size (Also include reamed zones)
• 12 inches from 0 to 54 ft.
8 inches from 54 to 225 ft.
6 inches from 225 to 440 ft.
• Casing size (I.D.) and material
8 inches from +3 to 57 ft.
Material steel
Wt. per foot 28.55 or wall thickness .322 in.
_____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• Screen size and mesh for each zone (where applicable)
_____ inches from _____ to _____ ft.
Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
Mesh size _____ Type _____
Gravel pack
• From _____ to _____ ft.
From _____ to _____ ft.
Grout
• From 0 to 50 ft., Type pressure cement
• From _____ to _____ ft., Type _____

2. WATER DATA • Water temperature 52 °F
• Static water level (unpumped level-measured) 12' ft.
• Stabilized measured pumping water level _____ ft.
• Stabilized yield 140 gpm after 3 hours
Natural Flow: Yes _____ No no, flow rate: _____ gpm
Comment on quality clear

3. WATER ZONES: From 72' To _____
From 140' To _____, From 185' To _____
From _____ To _____, From _____ To _____

4. USE DATA:
Type of use: Drinking yes, Livestock Watering _____
Irrigation _____ Food processing _____, Household _____
Manufacturing _____, Fire safety _____, Cleaning _____
Recreation _____, Aesthetic _____, Cooking or heating _____
Injection _____, Other _____
• Type of facility: Domestic _____, Public water supply yes
Public institution _____, Farm _____, Industry _____
Commercial _____, Other _____

5. PUMP DATA: Type _____ • Rated H.P. _____
• Intake depth _____ • Capacity _____ at _____ head

6. WELLHEAD: Type well seal _____
Pressure tank _____ gal., Loc. _____
Sample tap _____, Measurement port _____
Well vent _____, Pressure relief valve _____
Gate valve _____, Check valve (when required) _____
Electrical disconnect switch on power supply _____

7. DISINFECTION: Well disinfected _____ yes _____ no
Date _____, Disinfectant used _____
Amount _____, Hours used _____

8. ABANDONMENT (where applicable) • yes _____ no _____
Casing pulled yes _____ no _____ not applicable _____
Plugging grout From _____ to _____ material _____

OVER

wner Fauquier Co. WSA

BWCM No. _____

SD-93-227 6889-01 A-1

State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the State ended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. formation required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion port for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)

DEPTH (feet) From	To	TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)	REMARKS (water, caving, cavities, broken, core, shot, (etc.)	11. Drilling Time (Min.)	12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)
0	8'	overburden			
8'	440	redrock			
	72'	waterbearing			
	140'	waterbearing			
	185'	waterbearing			

13. Well lot dedicated? _____; Size _____ ft. X _____ ft.; Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under _____ p.s.i. for _____ minutes, Pipe size _____ inches, Material _____
Installer _____
Date _____

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature [signature] (Seal), Date 11-22-93
(Well driller or authorized person)

License No. #42

WWC 2705-014285 class B

State Water Control Board Regional Offices

Val Reg. Off.
116 orth Main Street
P. O. Box 268
Bridgewater, Va. 22812
703-828-2595

Piedmont Reg. Off.
4010 West Broad Street
P. O. Box 6616
Richmond, Va. 23230
804-257-1006

Sou west Reg. Off.
408 st Main Street
P. O. Box 476
Abingdon, Va. 24210
703-628-5183

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

West entral Reg. Off.
Exec ive Park
5312 Peters Creek Road
Roanoke, Va. 24019
703 982-7432

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

PRODUCTION WELL B-1

Emery & Garrett Groundwater, Inc.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL B-1 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: K. C. Hardcastle, Ph.D.
Date Drilled: July 26, 1993

Well #: B-1

TEST WELL DATA for Well#: B-1
Static Water Level: 16.05' (7/29/93)
Depth to bedrock: 5'
Well Diameter: 6" **Air-Lift Yield : 230 gpm**
Total Depth: 379'
Casing Length: 21' x 6"

PRODUCTION WELL DATA for Well #: B-1
Date of Reaming: 10/22/93
Total Length of 8" Casing: 57' **Final Air-Lift Yield: 300+ gpm**
Depth of 8" Reaming: 260'

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
0			BEDROCK at 5': Medium gray, poorly bedded, slightly calcareous siltstone.
10			
20			20': Dark reddish brown siltstone to very fine sandstone.
30			30': Trace of fractures at high angles to bedding.
40			
50			
60			
70			
80			
90			
100			
110			106-110': Faster drilling; thinly bedded siltstone.
120	1		120': Less than 1 gpm.
130			130': Grayish red siltstone; 10% gray siltstone.
140	30		140': Roughly 2 gpm. **142': WATER-BEARING ZONE.**
150			150': 2% limonite-calcite-coated fractures.
160			160': Less than 1% calcite-coated fractures.
170			
180	188		**185': WATER-BEARING ZONE.** 3% chlorite-coated fractures.
190			
200			
210			207-211': Grayish-black calcareous siltstone.
220			220': Red-brown micaceous sandstone.
230			
240			251-254': Gray-tan to dark gray sandstone with 1% epidote+calcite-coated fractures and 0-5% fine pyrite.
250			255-256': Dark reddish brown sandstone. 256-265': Black siltstone with 0-5% fine pyrite crystals, <1-
260	205		3% calcite+epidote-coated fractures. Temporary sulfur smell.
270	**Limit**		270': 1% calcite-filled fractures.
280	**of 8"**		
290	**Reaming**		290': 1% quartz-filled fractures.
300			300': 1% calcite-filled fractures.
310			
320			
330			
340			340': Trace of un-mineralized fractures; trace of calcite-coatings on bedding planes.
350			
360			360': Grayish red sandstone. 361': Medium gray moderately well bedded sandstone. 368-370': Grayish
370			black fine siltstone. 372': Dark gray, non-calcareous siltstone. 375': Dark gray sandstone. 379': Grayish
380	230		red fine grained sandstone. **Bottom of well at 379'.**

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

SANDSTONE: Dark reddish brown (10R 3/4) to very dusky red (10R 2/2), fine to medium grained sandstone and siltstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes. Often interbedded with siltstone described below.

SILTSTONE: Dark reddish brown (10R 3/4) to very dusky red (10R 2/2), siltstone and fine grained sandstone. Bedding is generally poorly developed. Carbonate is common in the matrix but locally is only a minor constituent; mica is rare.

Medium gray to black (N5 to N1), very fine siltstone to fine sandstone, poorly to moderately wavy to laminar bedded, slightly to moderately calcareous. Occasionally carbonate is the major constituent as a micritic limestone.

WATER BEARING ZONE - where yield of well increased.

B

Fo. GW-2
1-57-10,000

COMMONWEALTH OF VIRGINIA
WATER WELL COMPLETION REPORT
(Certification of Completion/County Permit)

• BWCM No. _____

Stat Water Control Board
P. O. Box 11143
1111 North Hamilton St.
Richmond, Va. 23230

SWCB Permit _____
County Permit SD-93- 225
Certification of inspecting official:
This well does _____ does not _____
meet code/low requirements.
S. _____
Date _____
For Office Use

County/City Fauquier

County/City Stamp

• Virginia Plane Coordinates
_____ N
_____ E
Latitude & Longitude
_____ N
_____ W
Topo. Map No. _____
• Elevation _____ ft.
• Formation _____
• Lithology _____
• River Basin _____
• Province _____
• Type Logs _____
Cuttings _____
Water Analysis _____
Aquifer Test _____

• Owner Fauquier County (Emery & Garrett job)
• Well Designation or Number # B-1 #1 well drilled
Address P.O. Box 3047
Warrenton, VA 22186
Phone 349-2092 (Emery & Garrett-603-279-4425)

• Drilling Contractor SINGHAS & MICHAEL CORP.
Address RT. 3, BOX 5062
BERRYVILLE, VA 22611
Phone 703-955-3582

Tax Map I.D. No. 6899-01
Subdivision _____
Section _____
Block _____
Lot _____
Class Well: I _____, IIA _____, IIB _____, IIIA _____, IIIB yes
IIIC _____ IIID _____ IIIE _____

WELL LOCATION: _____ (feet/miles) _____ (direction) of _____
and _____ feet/miles _____ (direction) of site is W. of 17/28 int.
(If possible please include map showing location marked)

Date started 6" 7/26/93 • Date completed 7/27/93 8" Type rig air rotary 10/22/93 10/23/93

WELL DATA: New yes Reworked _____ Deepened _____
• Total depth 360 original 6" (380) ft.
• Depth to bedrock 3 ft.
• Hole size (Also include reamed zones)
• 12 inches from 0 to 53 ft.
8 inches from 53 to 260 ft.
6 inches from 260 to 360' ft.
Casing size (I.D.) and material
• 8 inches from +3 to 54' == 57' ft.
Material steel
Wt. per foot 28.55 or wall thickness .322 in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
Screen size and mesh for each zone (where applicable)
• _____ inches from _____ to _____ ft.
Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
Mesh size _____ Type _____
Gravel pack
• From _____ to _____ ft.
• From _____ to _____ ft.
Grout
• From 0 to 50 ft., Type pressure cement
• From _____ to _____ ft., Type _____

2. WATER DATA • Water temperature 52 °F
• Static water level (unpumped level-measured) 32' ft.
• Stabilized measured pumping water level _____ ft.
• Stabilized yield 300+ gpm after 3 hours
Natural Flow: Yes _____ No no, flow rate: _____ gpm
Comment on quality clear
3. WATER ZONES: From 142' To _____
From 185' To _____, From 260' To _____
From 361' To _____, From _____ To _____
4. USE DATA:
Type of use: Drinking yes, Livestock Watering _____
Irrigation _____ Food processing _____, Household _____
Manufacturing _____, Fire safety _____, Cleaning _____
Recreation _____, Aesthetic _____, Cooking or heating _____
Injection _____, Other _____
• Type of facility: Domestic _____, Public water supply yes
Public institution _____ Farm _____, Industry _____
Commercial _____, Other _____
5. PUMP DATA: Type _____ Rated H.P. _____
• Intake depth _____ Capacity _____ at _____ head
6. WELLHEAD: Type well seal _____
Pressure tank _____ gal., Loc. _____
Sample tap _____, Measurement port _____
Well vent _____, Pressure relief valve _____
Gate valve _____, Check valve (when required) _____
Electrical disconnect switch on power supply _____
7. DISINFECTION: Well disinfected _____ yes _____ no
Date _____, Disinfectant used _____
Amount _____, Hours used _____
8. ABANDONMENT (where applicable) • yes _____ no _____
Casing pulled yes _____ no _____ not applicable _____
Plugging grout From _____ to _____ material _____

Owner Fauquier County W.S.A.

BWCM No. _____

SD-93-225 6899-01

9 State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the State intended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. Information required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion report for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)

DEPTH (feet) From	To	TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)	REMARKS (water, caving, cavities, broken, core, shot, (etc.)	11. Drilling Time (Min.)	12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)
0'	3'	overburden			
	260'	redrock			
	142'	waterbearing			
	185'	waterbearing			
	260'	waterbearing			
	361'	waterbearing			

13. Well lot dedicated? _____; Size _____ ft. X _____ ft.; Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under _____ p.s.i. for _____ minutes. Pipe size _____ inches, Material _____
Installer _____
Date _____

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature Anna Singhas (Seal). Date 10-29-93
(Well driller or authorized person)
License No. #42

WWC 2705-014285 class B

State Water Control Board Regional Offices

Valley Reg. Off.
116 North Main Street
P. O. Box 268
Bridgewater, Va. 22812
703-828-2595

Piedmont Reg. Off.
4010 West Broad Street
P. O. Box 6616
Richmond, Va. 23230
804-257-1006

Southwest Reg. Off.
408 East Main Street
P. O. Box 476
Abingdon, Va. 24210
703-676-5183

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

West Central Reg. Off.
Executive Park
5312 Peters Creek Road
Roanoke, Va. 24019
703-982-7432

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

PRODUCTION WELL B-3

Emery & Garrett Groundwater, Inc.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL B-3 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: K. C. Hardcastle, Ph.D.
Date Drilled: July 27-28, 1993

Well #: B-3

TEST WELL DATA for Well#: B-3

Static Water Level: 15.51' (7/29/93)
Depth to bedrock: 4'
Well Diameter: 6" **Air-Lift Yield : 200 gpm**
Total Depth: 475'
Casing Length: 21' x 6"

PRODUCTION WELL DATA for Well #: B-3

Date of Reaming: 10/23/93
Total Length of 8" Casing: 57' **Final Air-Lift Yield: 300+ gpm**
Depth of 8" Reaming: 320'

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
0			BEDROCK at 4': Moderate to dark reddish brown, non-calcareous, wavy bedded, fine sandstone.
10			
20			
30			
40			
50			50-70': Non-micaceous sandstone/siltstone.
60			
70			
80	20		**78-80': WATER-BEARING ZONE.**
90			
100			102-114': Gray calcareous siltstone.
110			115': 5% calcite-filled fractures.
120			
130			
140			
150			
160			
170			170': Micaceous sandstone.
180	36		
190			
200			
210			
220			
230			234-242': Grayish black to moderate gray calcareous siltstone.
240			
250			
260			260': Slightly calcareous siltstone.
270			**272': WATER-BEARING ZONE.** Brownish black (5YR 2/1) calcareous siltstone with 3% fine pyrite
280	130		crystals and 5% chlorite-calcite-coated fractures. 5% of fragments are limonite-coated, weathered and friable.
290			274-281': Black to moderate gray, calcareous siltstone with 3% limonite-coated fractures.
300			
310	**Limit**		310': Micaceous sandstone.
320	**of 8"**		
330	**Reaming**		
340			
350			

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL B-3 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: K. C. Hardcastle, Ph.D.
Date Drilled: July 27-28, 1993

Well #: B-3

TEST WELL DATA for Well#: B-3

Static Water Level: 15.51' (7/29/93)
Depth to bedrock: 4'
Well Diameter: 6" **Air-Lift Yield : 200 gpm**
Total Depth: 475'
Casing Length: 21' x 6"

PRODUCTION WELL DATA for Well #: B-3

Date of Reaming: 10/23/93
Total Length of 8" Casing: 57' **Final Air-Lift Yield: 300+ gpm**
Depth of 8" Reaming: 320'

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
360			
370			
380			380': Moderately calcareous siltstone.
390			389-399': Grayish black to moderate gray calcareous siltstone with 0-10% very fine pyrite crystals. **389': WATER-BEARING ZONE.** 392': momentary sulfur smell.
400	175		
410			
420			
430			
440			
450			
460	200		
470			470': Slightly micaceous fine grained sandstone. **475': Bottom of test well.**
480	200		**Final air-lift yield of 200 gpm.**

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

SANDSTONE: Dark reddish brown (10R 3/4) to very dusky red (10R 2/2), fine to medium grained sandstone and siltstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes. Often interbedded with siltstone described below.

SILTSTONE: Dark reddish brown (10R 3/4) to very dusky red (10R 2/2), siltstone and fine grained sandstone. Bedding is generally poorly developed. Carbonate is common in the matrix but locally is only a minor constituent; mica is rare.

Medium gray to black (N5 to N1), very fine siltstone to fine sandstone, poorly to moderately wavy to laminar bedded, slightly to moderately calcareous. Occasionally carbonate is the major constituent as a micritic limestone.

WATER BEARING ZONE - where yield of well increased.

6

Form GW-2
1978-10,000

COMMONWEALTH OF VIRGINIA
WATER WELL COMPLETION REPORT
(Certification of Completion/County Permit)

• BWCM No. _____

State Water Control Board
P. O. Box 11143
2111 North Hamilton St.
Richmond, Va. 23230

SWCB Permit _____
County Permit SD-93-229
Certification of inspecting official:
This well does _____ does not _____
meet code/low requirements.
S. _____
Date _____
For Office Use

County/City Fauquier

County/City Stamp

• Virginia Plane Coordinates
_____ N
_____ E
Latitude & Longitude
_____ N
_____ W
• Topo. Map No. _____
• Elevation _____ ft.
• Formation _____
• Lithology _____
• River Basin _____
• Province _____
• Type Logs _____
• Cuttings _____
• Water Analysis _____
• Aquifer Test _____

• Owner Fauquier County (Emery & Garrett job)
• Well Designation or Number # B-3 #2 well drilled
Address P.O. Box 3047
Warrenton, VA 22186
Phone 349-2092 (Emery & Garrett-603-279-4425)

• Drilling Contractor SINGHAS & MICHAEL CORP.
Address RT. 3, BOX 5062
BERRYVILLE, VA 22611
Phone 703-955-3582

Tax Map I.D. No. 6899-01
Subdivision _____
Section _____
Block _____
Lot _____
Class Well: I _____, IIA _____
IIB _____, IIIA _____, IIIB yes
IIIC _____ IIID _____ IIIE _____

WELL LOCATION: _____ (feet/miles) _____ direction) of 29 to 17, site N/W of 17/28 int.
and _____ feet/miles _____ (direction) of _____
(If possible please include map showing location marked)

Date started 6" 7/27/93 8" 10/23/93 • Date completed 7/28/93 10/24/93 Type rig air rotary

1. WELL DATA: New yes Reworked _____ Deepened _____
• Total depth 447' (original 6" 475) ft.
• Depth to bedrock 5 ft.
• Hole size (Also include reamed zones)
• 12 inches from 0 to 53 ft.
• 8 inches from 53 to 320 ft.
• 6 inches from 320 to 447 ft.
• Casing size (I.D.) and material
• 8 inches from +3 to 54' = 57' ft.
Material steel
Wt. per foot 28.55 or wall thickness .322 in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• Screen size and mesh for each zone (where applicable)
_____ inches from _____ to _____ ft.
Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
Mesh size _____ Type _____
Gravel pack
• From _____ to _____ ft.
From _____ to _____ ft.
Grout
• From 0' to 50' ft., Type pressure cement
• From _____ to _____ ft., Type _____

2. WATER DATA • Water temperature 52 °F
• Static water level (unpumped level-measured) 34' ft.
• Stabilized measured pumping water level _____ ft.
• Stabilized yield 300+ gpm after 3 hours
Natural Flow: Yes _____ No no, flow rate: _____ gpm
Comment on quality clear

3. WATER ZONES: From 80' To _____
From 180' To _____, From 240' To _____
From 272' To _____, From 390' To _____
460'

4. USE DATA:
Type of use: Drinking yes, Livestock Watering _____
Irrigation _____ Food processing _____, Household _____
Manufacturing _____, Fire safety _____, Cleaning _____
Recreation _____, Aesthetic _____, Cooking or heating _____
Injection _____, Other _____
• Type of facility: Domestic _____, Public water supply yes
Public institution _____ Farm _____, Industry _____
Commercial _____, Other _____

5. PUMP DATA: Type _____ • Rated H.P. _____
• Intake depth _____ • Capacity _____ at _____ head

6. WELLHEAD: Type well seal _____
Pressure tank _____ gal., Loc. _____
Sample tap _____, Measurement port _____
Well vent _____, Pressure relief valve _____
Gate valve _____, Check valve (when required) _____
Electrical disconnect switch on power supply _____

7. DISINFECTION: Well disinfected _____ yes _____ no
Date _____, Disinfectant used _____
Amount _____, Hours used _____

8. ABANDONMENT (where applicable) • yes _____ no _____
Casing pulled yes _____ no _____ not applicable _____
Plugging grout From _____ to _____ material _____

Fauquier County W.S.A.

Owner _____ BWCM No. _____

SD-93-229 6899-01

State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the State ended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. ormation required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion ort for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)

DEPTH (feet) From	To	TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)	REMARKS (water, caving, cavities, broken, core, shot, (etc.)	11. Drilling Time (Min.)	12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)
0'	5'	overburden			
	441'	redrock			
	80'	waterbearing			
	180'	waterbearing			
	240'	waterbearing			
	272'	waterbearing			
	390'	waterbearing			
	460'	waterbearing			

13. Well lot dedicated? _____ ; Size _____ ft. X _____ ft.; Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under _____ p.s.i. for _____ minutes. Pipe size _____ inches, Material _____
Installer _____
Date _____

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature Anna Singhas (Seal), Date 10-24-93
(Well driller or authorized person)
License No. #42

WWC 2705-014285 class B

State Water Control Board Regional Offices

Valley Reg. Off.
116 North Main Street
P. O. Box 268
Bridgewater, Va. 22812
703-828-2595

Piedmont Reg. Off.
4010 West Broad Street
P. O. Box 6616
Richmond, Va. 23230
804-257-1006

Southwest Reg. Off.
108 East Main Street
P. O. Box 476
Abingdon, Va. 24210
703-676-5183

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

West Central Reg. Off.
Executive Park
5312 Peters Creek Road
Roanoke, Va. 24019
703-982-7432

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

PRODUCTION WELL B-4

Emery & Garrett Groundwater, Inc.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL B-4 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: J. A. Brooks, Ph.D.
Date Drilled: October 19-20, 1993

Well #: B-4

TEST WELL DATA for Well#: B-4

Static Water Level: ND
Depth to bedrock: 10'
Well Diameter: 6" **Air-Lift Yield : 150 gpm**
Total Depth: 520'
Casing Length: 21' x 6"

PRODUCTION WELL DATA for Well #: B-4

Date of Reaming: 10/19/93
Total Length of 8" Casing: 57' **Final Air-Lift Yield: 308 gpm**
Depth of 8" Reaming: 470'

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
0			0'-10': Saprolite
10	Casing		10': Bedrock. 10'-40':Medium reddish brown, fissile, thinly bedded, micaceous, fine-grained sandstone.
20			
30			
40			40'-50': Medium reddish brown fissile siltstone.
50			50'-53': Gray to dark greenish gray, micaceous sandstone. 53'-64': Reddish brown micaceous sandstone.
60			64'-66': Brownish gray micaceous sandstone.
70	30		66'-69': Reddish brown, sandstone. 69'-75': Greenish gray micaceous sandstone. **70': Water-bearing zone.**
80			76'-78': Reddish brown, sandstone. 78-79': Greenish gray micaceous sandstone with 3% calcite fracture coatings.
90	65		80'-86': Red-brown siltstone. 86'-88': Green-gray sandstone. 88'-90': Red-brown siltstone. **90': Water-bearing zone.**
100			90'-95': Greenish gray sandstone. 95'-96': Reddish brown siltstone. 96'-98': Greenish gray sandstone, 3% vuggy calcite.
110			98'-140': Reddish brown siltstone to fine-grained, micaceous sandstone.
120			
130			
140			140'-141': Micaceous, greenish gray sandstone. 141'-146': Reddish brown sandstone. 146'-147': Greenish gray sandstone.
150			147'-153': Dark gray brown, micaceous sandstone. 152':168': Greenish gray, micaceous sandstone.
160			168'-180': Grayish brown, micaceous sandstone to siltstone.
170	85		**Gradual increase in yield.**
180			180'-235': Reddish brown, micaceous sandstone.
190			
200			
210			
220			
230			235'-256': Grayish brown, micaceous sandstone to siltstone.
240			
250			256'-258': Grayish green sandstone to siltstone.
260			258'-279': Grayish brown, micaceous sandstone.
270			279'-280': Grayish green siltstone. 280'-380': Grayish brown siltstone to fine-grained sandstone.
280			
290			
300	100		Water-bearing zones in last 20'
310			
320			
330			
340			
350			

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL B-4 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: J. A. Brooks, Ph.D.
Date Drilled: October 19-20, 1993

Well #: B-4

TEST WELL DATA for Well#: B-4

Static Water Level: ND
Depth to bedrock: 10'
Well Diameter: 6" **Air-Lift Yield : 150 gpm**
Total Depth: 520'
Casing Length: 21' x 6"

PRODUCTION WELL DATA for Well #: B-4

Date of Reaming: 10/19/93
Total Length of 8" Casing: 57' **Final Air-Lift Yield: 308 gpm**
Depth of 8" Reaming: 470'

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
360			
370			
380	120		**Gradual increase in yield.**
390			
400			
410			410'-416': Black siltstone.
420	130		416'-470': Grayish brown sandstone to siltstone. **Water-bearing zone at 416'.**
430			
440			
450	155		**457': Water bearing zone.**
460	**Limit**		
470	**of 8"**		470'-475': Black siltstone.
480	**Reaming**		
490			490': Fine-grained diabase chill margin. 490-510': Diabase with green feldspar alteration.
500			510-520': Unaltered diabase.
510			
520			**520': Bottom of borehole.**

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

WATER BEARING ZONE -where yield of well increased.

SAPROLITE: Weathered bedrock.

SANDSTONE: Grayish brown to medium reddish brown, fine to medium grained sandstone and siltstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes. Often interbedded with siltstone described below.

SILTSTONE: Medium reddish brown, siltstone. Bedding is generally poorly developed. Carbonate is common in the matrix but locally is only a minor constituent; mica is rare.

SANDSTONE: Greenish gray, fine to medium grained sandstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes.

Medium gray to black, very fine siltstone, poorly to moderately wavy to laminar bedded, slightly to moderately calcareous. Occasionally carbonate is the major constituent as a micritic limestone.

DIABASE - Dark green to greenish black, massive, fine to medium grained diabase.

Form GW-2
1974-10,000

COMMONWEALTH OF VIRGINIA
WATER WELL COMPLETION REPORT

• BWCM No. _____

(Certification of Completion/County Permit)

State Water Control Board
P. O. Box 11143
2111 North Hamilton St.
Richmond, Va. 23230

SWCB Permit _____
County Permit SD-93- 523

Certification of inspecting official:
This well does _____ does not _____
meet code/low requirements.
S. _____
Date _____
For Office Use

County/City Fauquier

County/City Stamp

• Virginia Plane Coordinates
_____ N
_____ E
Latitude & Longitude
_____ N
_____ W
• Topo. Map No. _____
• Elevation _____ ft.
• Formation _____
• Lithology _____
• Fall Line Basin _____
• Province _____
• Type Logs _____
• Cuttings _____
• Water Analysis _____
• Aquifer Test _____

• Owner Fauquier County (Emery & Garrett job)
• Well Designation or Number # 14 B4 (Boulding)
Address P.O. Box 3047
Warrenton, VA 22186
Phone 349-2092 (Emery & Garrett-603-279-4425)

• Drilling Contractor SINGHAS & MICHAEL CORP.
Address RT. 3, BOX 5062
BERRYVILLE, VA 22611
Phone 703-955-3582

Tax Map I.D. No. 6889-89-6126
Subdivision _____
Section _____
Block _____
Lot _____
Class Well: I _____, IIA _____
IIB _____, IIIA _____, IIIB ~~yes~~
IIIC _____ IIID _____ IIIE _____

WELL LOCATION: _____ (feet/miles) _____ (direction) of _____
and _____ feet/miles _____ (direction) of Bealton Water Supply
(If possible please include map showing location marked)

Date started 10/19/93 • Date completed 10/21/93 Type rig air rotary

1. WELL DATA: New yes Reworked _____ Deepened _____
• Total depth 520' ft.
• Depth to bedrock 10' ft.
• Hole size (Also include reamed zones)
• 12 inches from 0 to 53 ft.
• 8 inches from 53 to 470 ft.
• 6 inches from 470 to 520 ft.
• Casing size (I.D.) and material
• 8 inches from +3 to 54= 57' ft.
Material steel
Wt. per foot 28.55 or wall thickness .322 in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• Screen size and mesh for each zone (where applicable)
_____ inches from _____ to _____ ft.
Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
Mesh size _____ Type _____
Gravel pack
• From _____ to _____ ft.
• From _____ to _____ ft.
Grout
• From 0 to 53 ft., Type pressure cement
• From _____ to _____ ft., Type _____

2. WATER DATA • Water temperature 52 °F
• Static water level (unpumped level-measured) 30' ft.
• Stabilized measured pumping water level _____ ft.
• Stabilized yield 308 gpm after 3 hours
Natural Flow: Yes _____ No no, flow rate: _____ gpm
Comment on quality clear

3. WATER ZONES: From 70' To _____
From 90' To _____, From 170' To _____
From 300' To 416' & 457' From 380' To _____

4. USE DATA:
Type of use: Drinking yes, Livestock Watering _____
Irrigation _____ Food processing _____, Household _____
Manufacturing _____, Fire safety _____, Cleaning _____
Recreation _____, Aesthetic _____, Cooling or heating _____
Injection _____, Other _____
• Type of facility: Domestic _____, Public water supply yes
Public institution _____ Farm _____, Industry _____
Commercial _____, Other _____

5. PUMP DATA: Type _____ • Rated H.P. _____
• Intake depth _____ • Capacity _____ at _____ head

6. WELLHEAD: Type well seal _____
Pressure tank _____ gal., Loc. _____
Sample tap _____, Measurement port _____
Well vent _____, Pressure relief valve _____
Gate valve _____, Check valve (when required) _____
Electrical disconnect switch on power supply _____

7. DISINFECTION: Well disinfected _____ yes _____ no
Date _____, Disinfectant used _____
Amount _____, Hours used _____

8. ABANDONMENT (where applicable) • yes _____ no _____
Casing pulled yes _____ no _____ not applicable _____
Plugging grout From _____ to _____ material _____

Owr Fauquier W.S.A. (Boulding) BWCM No. _____

SD-93-523 6889-89-6126

9. S e law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the State nter d for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. nfo ation required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion repo for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)				11.	12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)
DEPTH (feet) From	To	TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)	REMARKS (water, caving, cavities, broken, core, shot, (etc.)	Drilling Time (Min.)	
0'	10'	overburden			
10	470'	redrock			
	70'	waterbearing			
	90'	waterbearing			
	170'	waterbearing			
	300'	waterbearing			
	380'	waterbearing			
	416'	waterbearing			
	457'	waterbearing			

13. Well lot dedicated? _____; Size _____ ft. X _____ ft.; Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under _____ p.s.i. for _____ minutes. Pipe size _____ inches, Material _____
Installer _____
Date _____

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature Anna Singhas (Seal), Date 10-25-93
(Well driller or authorized person)
License No. #42

WWC 2705-014285 class B

ate Water Control Board Regional Offices

ley g. Off.
5 No 1 Main Street
O. B 268
dgewater, Va. 22812
-828-2595

thw t Reg. Off.
Ea Main Street
O. Box 476
ngdon, Va. 24210
-628-5183

t Ce ral Reg. Off.
cut Park
12 Peters Creek Road
noke, Va. 24019
-9 -7432

Piedmont Reg. Off.
4010 West Broad Street
P. O. Box 6616
Richmond, Va. 23230
804-257-1006

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

PRODUCTION WELL MS-5

Emery & Garrett Groundwater, Inc.

RFD 2 Box 1813A
Meredith, N.H. 03253
Phone (603) 279-4425
FAX # 603-279-8717

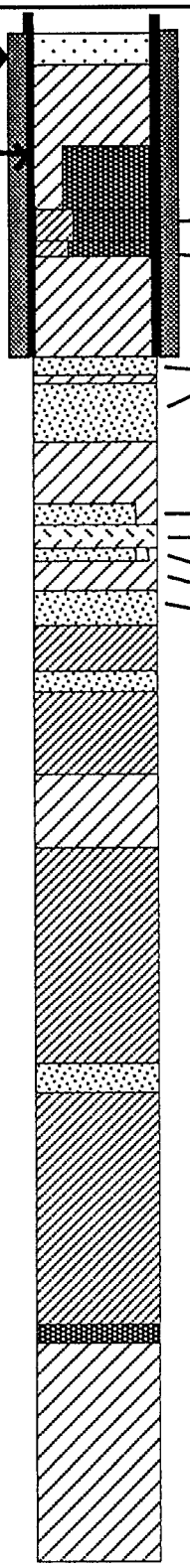
Emery & Garrett Groundwater Inc.

Project: *Trifam Systems Inc.*
Driller: *Valley Drilling*
Geologist: *J.A. Brooks, Ph.D.*
Date Drilled: *December 10-11, 1990*
Well#: *MS-5* (Meadowbrooke Estates)

Well Diameter: *8"*
Casing Length: *54'*
Casing Thickness: *0.32"*
Casing Diameter: *8"*

Depth to Bedrock: *5'*
Total Depth: *500'*
Blow Test Yield: *214 gpm*

Depth (Feet)	Yield (Blow Test)	Lithology	Lithologic Description / Comments
0-5	GROUT		Purple red, damp saprolite (standing water at surface).
10-			Red-brown micaceous fine-grained sandstone and less than 5% qtz/feldspar grains.
20-	CASING		30% red-brown sandstone to siltstone and 70% micaceous, fissile, calcareous green-brown to black siltstone.
30-			60% gray-green calcareous siltstone and 40% micaceous, well-bedded, red-brown siltstone.
40-			70% gray-green, non calcareous siltstone and 30% micaceous, red-brown siltstone. Red-brown noncalcareous, fine-grained sandstone to siltstone.
50-			Same as above but slightly calcareous.
60-			Blue-green sandstone.
70-			
80-			80% bluish sandstone and 20% red-brown sandstone.
			Fine-grained, gray-black diabase with calcite filled vugs.
90-			80% blue-green sandstone, 10% diabase, 10% red-brown sandstone.
			Red-brown, non-calcareous siltstone.
100-			Bluish to tan sandstone.
			Red-brown siltstone.
110-			Bluish-tan sandstone.
120-			Red-brown, noncalcareous siltstone.
130-			Well-bedded, calcareous, micaceous, fine-grained sandstone to siltstone.
140-			
150-			
160-			Red-brown, well-bedded, noncalcareous siltstone.
170-			
180-			Bluish-tan, slightly micaceous sandstone.
190-			
200-			Same as 140'.
210-			
220-			Green siltstone.
230-			Red-brown, fine-grained, slightly calcareous sandstone to siltstone.
240-			
250-			
260-			



LEGEND

- Gray-green siltstone
- Red-brown, well-bedded siltstone
- Red-brown sandstone to siltstone
- Diabase
- Blue-green to tan sandstone
- Black, calcareous siltstone

Width of rock type shown in well log is proportional to relative amounts of each type. For example:

- 50:50 diabase to red sandstone
- 75:25 Diabase to red sandstone

- Fractures with mineral coatings
- Water bearing zones

WELL MS-5

RFD 2 Box 1813A
Meredith, N.H. 03253
Phone (603) 279-4425
FAX # 603-279-8717

Emery & Garrett Groundwater Inc.

Project: *Trifam Systems Inc.*
Driller: *Valley Drilling*
Geologist: *J.A. Brooks, Ph.D.*
Date Drilled: *December 10-11, 1990*
Well#: *MS-5* (Meadowbrooke Estates)

Well Diameter: *8"*
Casing Length: *54'*
Casing Thickness: *0.32"*
Casing Diameter: *8"*

Depth to Bedrock: *5'*
Total Depth: *500'*
Blow Test Yield: *214 gpm*

Depth (Feet)	Yield (Blow Test)	Lithology	Lithologic Description / Comments
270-			
280-	1-2 gpm		
290-			
300-			
310-			
320-	30 gpm		317' - Water bearing zone. Fine-grained diabase with 5% calcite filled vugs and fracture coatings.
330-			60% fine-grained diabase with calcite filled vugs and 40% red-brown sitlstone.
340-			94% fine-grained diabase, 4% red-brown siltstone, and 2% calcite frature coatings.
350-			Fine-grained diabase with < 1% calcite fracture coatings.
360-			
370-			
380-	43 gpm		Red-brown sandstone. Water-bearing zone.
			Red-brown, well-bedded siltstone.
390-			Same as above with 2% calcite fracture coatings.
400-			94% red-brown, fine-grained sandstone and 6% bluish sandstone.
			Blue-gray siltstone
410-			78% fine-grained diabase, 20 % red-brown sandstone, and 2 % calcite fracture coatings.
420-			88:10:2 as above.
430-			Red-brown sanstone and 3% bluish sandstone. Red-brown fine-grained sandstone.
440-	120 gpm		At the contact: 60% aphanitic to very fine-grained black siltstone to shale, 30% red-brown micaceous, fine-grained sandstone, 7% blue-green silstone, and 2 % calcite fracture coatings.
450-			Gray-black, aphanitic, calcareous siltstone or possibly a micritic limestone.
460-			
460-			
470-			
480-			Red- brown, fine-grained sandstone.
490-			At contact: 75% bluish, fine-grained sandstone with pyrite, 20% fine-grained diabase, and 5% re-brown, fine-grained sandstone.
500-	140 gpm		Fine-grained diabase. Red-brown, fine-grained sandstone. Water-bearing zone just below diabase contact.

214 gpm After Reaming to 8-inch Diameter

WELL MS-5

B

n GW-2
1-10 00

COMMONWEALTH OF VIRGINIA
WATER WELL COMPLETION REPORT
(Certification of Completion/County Permit)

• BWCM No. _____

e Water Control Board
. Bo 11143
1 No h Hamilton St.
mond, Va. 23230

SWCB Permit _____
County Permit SD-90-705
Certification of inspecting official:
This well does ____ does not ____
meet code/low requirements.
S. _____
Date _____
For Office Use

nty City Fauquier
County/City Stamp

irginia Plane Coordinates
N
E
atitude & Longitude
N
W
ppo. Map No. _____
levation _____ ft.
orm ion _____
ithology _____
iver Basin _____
rovi e _____
ype ogs _____
uttings _____
ater Analysis _____
qui Test _____

• Owner Fauquier County (Emery & Garrett job)
• Well Designation or Number #MS-5 23rd well
Address P.O. Box 3047
Warrenton, VA 22186
Phone 349-2092 (Emery & Garrett-603-279-4425)

• Drilling Contractor SINGHAS & MICHAEL CORP.
Address RT. 3, BOX 5062
BERRYVILLE, VA 22611
Phone 703-955-3582

Tax Map I.D. No. SUBD
Subdivision Meadowbrooke
Section _____
Block _____
Lot 5
Class Well: I _____, IIA _____
IIB _____, IIIA _____, IIIB yes
IIIC _____ IIID _____ IIIE _____

WELL LOCATION: _____ (feet/miles) _____ (direction) of _____
and _____ feet/miles _____ (direction) of _____
(If possible please include map showing location marked)

Date started 7-19-94 • Date completed 7-21-94 Type rig air rotary

ELL DATA: New yes Reworked _____ Deepened _____
Total depth 500 ft.
Depth to bedrock 5 ft.
Hole size (Also include reamed zones)
• 12 inches from 0 to 54 ft.
• 8 inches from 54 to 500 ft.
• _____ inches from _____ to _____ ft.
Casing size (I.D.) and material
• 8 inches from +2 to 56 ft.
Material steel
Wt. per foot 28.56 or wall thickness .322 in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
Screen size and mesh for each zone (where applicable)
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
Gravel pack
• From _____ to _____ ft.
• From _____ to _____ ft.
Grout
• From 0 to 52 ft., Type pressure Cement
• From _____ to _____ ft., Type _____

2. WATER DATA • Water temperature 52 °F
• Static water level (unpumped level-measured) 50 ft.
• Stabilized measured pumping water level _____ ft.
• Stabilized yield 160 gpm after 3 hours
Natural Flow: Yes _____ No no, flow rate: _____ gpm
Comment on quality clear

3. WATER ZONES: From 400 to 100GPM
From 440 to 60GPM From _____ To _____
From _____ To _____, From _____ To _____

4. USE DATA:
Type of use: Drinking yes, Livestock Watering _____
Irrigation _____ Food processing _____, Household _____
Manufacturing _____, Fire safety _____, Cleaning _____
Recreation _____, Aesthetic _____, Cooling or heating _____
Injection _____, Other _____
• Type of facility: Domestic _____, Public water supply yes
Public institution _____ Farm _____, Industry _____
Commercial _____, Other _____

5. PUMP DATA: Type _____ • Rated H.P. _____
• Intake depth _____ • Capacity _____ at _____ head

6. WELLHEAD: Type well seal _____
Pressure tank _____ gal., Loc. _____
Sample tap _____, Measurement port _____
Well vent _____, Pressure relief valve _____
Gate valve _____, Check valve (when required) _____
Electrical disconnect switch on power supply _____

7. DISINFECTION: Well disinfected _____ yes _____ no
Date _____, Disinfectant used _____
Amount _____, Hours used _____

8. ABANDONMENT (where applicable) • yes _____ no _____
Casing pulled yes _____ no _____ not applicable _____
Plugging grout From _____ to _____ material _____

Owner Emery & Garrett

BWCM No. _____

MS-5 SD-90-705

9. State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the State intended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. Information required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion report for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)

DEPTH (feet) From	To	TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)	REMARKS (water, caving, cavities, broken, core, shot, (etc.)	11. Drilling Time (Min.)	12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)
0	5	overburden			
5	500	Redrock			
	400'	water bearing 100 GPM			
	440	water bearing 60 GPM			

13. Well lot dedicated? _____; Size _____ ft. X _____ ft.; Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under _____ p.s.i. for _____ minutes. Pipe size _____ inches, Material _____
Installer _____
Date _____

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature Anna Singhas (Seal) Date 7-28-94
(Well driller or authorized person)

License No. #11

WWC 2705-014285 class B

State Water Control Board Regional Offices

Valley Reg. Off.
11 North Main Street
P. O. Box 268
Bridgewater, Va. 22812
703-828-2595

Southwest Reg. Off.
40 East Main Street
P. O. Box 476
Abingdon, Va. 24210
703-628-5183

Western Central Reg. Off.
Executive Park
3312 Peters Creek Road
Roanoke, Va. 24019
703-982-7432

Piedmont Reg. Off.
4010 West Broad Street
P. O. Box 6616
Richmond, Va. 23230
804-257-1006

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

TEST WELL A-3

Emery & Garrett Groundwater, Inc.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL A-3 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: J. A. Brooks, Ph.D.
Date Drilled: October 18, 1993

Well #: A-3

TEST WELL DATA for Well#: A-3

Static Water Level: ND
Depth to bedrock: 6'
Well Diameter: 6" **Air-Lift Yield : 275 gpm**
Total Depth: 340'
Casing Length: 20' x 6"

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
0			0'-6': Saprolite 6': Bedrock
10	Casing		coatings.
20			20': Mottled, medium gray, to moderate yellowish brown, calcareous, hornfels.
30			
40			30': Dark reddish brown, slightly fissile, fine-grained sandstone.
50			49'-50': Dark gray, calcareous, fissile siltstone.
60	12		50'-60': As 30'. **55': Water-bearing fracture zone.** 60'-70': Light gray sandstone.
70			70'-100': As 30'
80			
90			
100			100'-180': Fissile, dark reddish brown siltstone to fine-grained sandstone.
110			
120			
130			130': 2-3% calcite fracture coatings.
140			
150			
160	30		**160': Gradually increase in yield over last 40 '.**
170			
180			180'-200': Medium gray fissile siltstone to sandstone.
190			
200			200'-340': Dark reddish brown, siltstone to fine-grained sandstone.
210			
220	40-45		**220': Gradual increase in yield.**
230			
240			
250			
260			
270			
280			
290			
300			
310			
320	55		320': Gradual increase in yield over last 40 feet.
330	275		**336': Water-bearing fracture zone.**
340			**340': Bottom of borehole.**

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

WATER BEARING ZONE -where yield of well increased.

SAPROLITE: Weathered bedrock.

HORNFELS: Dark gray to moderate yellowish brown, fine-grained hornfels.

SILTSTONE: Dark reddish brown, siltstone and fine-grained sandstone. Bedding is generally poorly developed. Carbonate is common in the matrix but locally is only a minor constituent; mica is rare.

Medium gray to black, very fine siltstone to fine sandstone, poorly to moderately wavy to laminar bedded, slightly to moderately calcareous. Occasionally carbonate is the major constituent as a micritic limestone.

COMMONWEALTH OF VIRGINIA

WATER WELL COMPLETION REPORT

(Certification of Completion/County Permit)

• BWCM No. _____

State Water Control Board
P.O. Box 11143
111 North Hamilton St.
Richmond, Va. 23230

SWCB Permit _____
County Permit SD-93- 521
Certification of inspecting official:
This well does _____ does not _____
meet code/low requirements.
S. _____
Date _____
For Office Use

County/City Fauquier

County/City Stamp

• Virginia Plane Coordinates
_____ N
_____ E
Latitude & Longitude
_____ N
_____ W
Topo. Map No. _____
Elevation _____ ft.
Formation _____
Lithology _____
River Basin _____
Province _____
Type Logs _____
Cuttings _____
Water Analysis _____
Aquifer Test _____

• Owner Fauquier County (Emery & Garrett job)
• Well Designation or Number #12 A3 (Milic)
Address P.O. Box 3047
Warrenton, VA 22186
Phone 349-2092 (Emery & Garrett-603-279-4425)

• Drilling Contractor SINGHAS & MICHAEL CORP.
Address RT. 3, BOX 5062
BERRYVILLE, VA 22611
Phone 703-955-3582

Tax Map I.D. No. 6889-52-7940
Subdivision _____
Section A3
Block _____
Lot _____
Class Well: I _____, IIA _____
IIB _____, IIIA _____, IIIB ~~yes~~
IIIC _____ IIID _____ IIIE _____

WELL LOCATION: _____ (feet/miles) _____ direction) of _____
and _____ feet/miles _____ (direction) of Beeleton Water supply
(If possible please include map showing location marked)

6" hole

Date started 10/18/93 • Date completed 10/18/93 Type rig air rotary

WELL DATA: New yes Reworked _____ Deepened _____
Total depth 340' ft.
Depth to bedrock 6 ft.
Hole size (Also include reamed zones)
• _____ inches from _____ to _____ ft.
• 10 inches from 0 to 19 ft.
• 6 inches from 19 to 340 ft.
Casing size (I.D.) and material
• 6 inches from +1 to 20 ft.
Material steel
Wt. per foot 18.97 or wall thickness .280 in.
• 8 inches from _____ to _____ ft.
Material Steel
Wt. per foot 28.55 or wall thickness .322 in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
Screen size and mesh for each zone (where applicable)
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
Gravel pack
• From _____ to _____ ft.
• From _____ to _____ ft.
Grout
• From _____ to _____ ft., Type _____
• From _____ to _____ ft., Type _____

2. WATER DATA • Water temperature 52 °F
• Static water level (unpumped level-measured) 30' ft.
• Stabilized measured pumping water level _____ ft.
• Stabilized yield 275 gpm after 1½ hours
Natural Flow: Yes _____ No no, flow rate: _____ gpm
Comment on quality clear

3. WATER ZONES: From 55' To 12 gpm
From 160' To 18 gpm From 320' To: 25 gpm
From 330' To 220 gpm From _____ To _____

4. USE DATA:
Type of use: Drinking yes, Livestock Watering _____
Irrigation _____ Food processing _____, Household _____
Manufacturing _____, Fire safety _____, Cleaning _____
Recreation _____, Aesthetic _____, Cooling or heating _____
Injection _____, Other exploratory
• Type of facility: Domestic _____, Public water supply yes
Public institution _____ Farm _____, Industry _____
Commercial _____, Other exploratory

5. PUMP DATA: Type _____ • Rated H.P. 0
• Intake depth _____ • Capacity _____ at _____ head

6. WELLHEAD: Type well seal _____
Pressure tank _____ gal., Loc. _____
Sample tap _____, Measurement port _____
Well vent _____, Pressure relief valve _____
Gate valve _____, Check valve (when required) _____
Electrical disconnect switch on power supply _____

7. DISINFECTION: Well disinfected _____ yes _____ no
Date _____, Disinfectant used _____
Amount _____, Hours used _____

8. ABANDONMENT (where applicable) • yes _____ no _____
Casing pulled yes _____ no _____ not applicable _____
Plugging grout From _____ to _____ material _____

BWCM No. _____

Owner Fauquier WSA

SD-93-521 6889-52-7940

9. State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the State intended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. Information required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion report for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)

DEPTH (feet) From	DEPTH (feet) To	TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)	REMARKS (water, caving, cavities, broken, core, shot, (etc.)	11. Drilling Time (Min.)
0'	6'	overburden		
6'	340	redrock		
	55	12 gpm		
	160	18 gpm		
	320'	25 gpm	waterbearing zones	
	330'	220 gpm		

12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)

13. Well lot dedicated? _____ ; Size _____ ft. X _____ ft.; Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under _____ p.s.i. for _____ minutes. Pipe size _____ inches, Material _____
Installer _____
Date _____

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature _____ (Seal). Date _____
(Well driller or authorized person)

License No. #42

WWC 2705-014285 class B

State Water Control Board Regional Offices

Valley Reg. Off.
116 North Main Street
P. O. Box 268
Bridgewater, Va. 22812
703-828-2595

Piedmont Reg. Off.
4010 West Broad Street
P. O. Box 6616
Richmond, Va. 23230
804-257-1006

Southwest Reg. Off.
408 East Main Street
P. O. Box 476
Abingdon, Va. 24210
703-628-5183

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

West Central Reg. Off.
Executive Park
5312 Peters Creek Road
Roanoke, Va. 24019
703-982-7432

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

TEST WELL B-2

HYDROGEOLOGIC BOREHOLE LOG FOR WELL B-2 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: K. C. Hardcastle, Ph.D.
Date Drilled: July 28-29, 1993

Well #: B-2

TEST WELL DATA for Well#: B-2
Static Water Level: ND
Depth to bedrock: 5'
Well Diameter: 6" **Air-Lift Yield : 170 gpm**
Total Depth: 400'
Casing Length:105' x 6"

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
0			BEDROCK at 5': Dusky red (5Y 3/4), micaceous, non-calcareous, fine sandstone.
10			
20			15-22': Medium dark gray (N4) to medium gray (N5), feldspathic sandstone to fine sandstone.
30	5		**34': WATER-BEARING ZONE.**
40	20		48-53': Medium gray sandstone. **WATER-BEARING ZONE.**
50			
60			
70			
80	35		**78-80': WATER-BEARING ZONE.**
90			
100			
110			
120			
130			
140			138-155': Non- to moderately-calcareous siltstone.
150			
160	40		
170			170-190': Siltstone.
180			
190			192': Medium gray sandstone. **WATER-BEARING ZONE.**
200	66		195'-197': Light gray, sugary sandstone with 10% fracture surfaces.
210			210': Olive black (5Y 2/1) calcareous siltstone. **215': WATER-BEARING ZONE**; black micritic limestone.
220			220-225': Medium dark gray (N4) calcareous siltstone; temporary sulfur smell.
230			
240			
250			
260			
270			
280			
290	68*		290': 50% medium gray sandstone; 50% dark reddish brown sandstone. **WATER-BEARING ZONE.**
300			
310	79*		310': Fine sandstone to siltstone; slightly calcareous. **312': WATER-BEARING ZONE.**
320			
330			330': Slightly micaceous, fine grained sandstone.
340			
350	81*		**352-353': WATER-BEARING ZONE.** Medium gray sandstone.
360			
370			
380			376': Grayish black siltstone. 380': Gray sandstone. **385': WATER-BEARING ZONE**; gray
390	170*		siltstone. 387-390': Grayish black, fine crystalline basalt with 1% bright blue-green chlorite-calcite
400	170*		coated fractures. 391': Micaceous sandstone. **Bottom of Borehole = 400'.**

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

SANDSTONE: Dark reddish brown (10R 3/4) to very dusky red (10R 2/2), fine to medium grained sandstone and siltstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes. Often interbedded with siltstone described below.

SILTSTONE: Dark reddish brown (10R 3/4) to very dusky red (10R 2/2), siltstone and fine grained sandstone. Bedding is generally poorly developed. Carbonate is common in the matrix but locally is only a minor constituent; mica is rare.

Medium gray to black (N5 to N1), siltstone to very fine sandstone, poorly to moderately wavy to laminar bedded, slightly to moderately calcareous. Occasionally carbonate is the major constituent as a micritic limestone.

SANDSTONE: Dark to medium gray (N3 - N5) to pale green (10G 6/2), fine to medium grained sandstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes.

WATER BEARING ZONE - where yield of well increased.

F .n GW-2
1 8-10,000

COMMONWEALTH OF VIRGINIA
WATER WELL COMPLETION REPORT

• BWCM No. _____

(Certification of Completion/County Permit)

S e Water Control Board
P . Box 11143
2111 North Hamilton St.
Richmond, Va. 23230

SWCB Permit _____
County Permit SD-93-226

Certification of inspecting official:
This well does _____ does not _____
meet code/low requirements.
S. _____
Date _____
For Office Use

County/City Fauquier

County/City Stamp

• rginia Plane Coordinates
_____ N
_____ E
titude & Longitude
_____ N
_____ W
• po. Map No. _____
• evation _____ ft.
• Formation _____
• Lithology _____
• r er Basin _____
• ovince _____
• Type Logs _____
• C ttings _____
• ter Analysis _____
• Aquifer Test _____

• Owner Fauquier County (Emery & Garrett job)
• Well Designation or Number # 3 B-2
Address P.O. Box 3047
Warrenton, VA 22186
Phone 349-2092 (Emery & Garrett-603-279-4425)

• Drilling Contractor SINGHAS & MICHAEL CORP.
Address RT. 3, BOX 5062
BERRYVILLE, VA 22611
Phone 703-955-3582

Tax Map I.D. No. 6889-02
Subdivision _____
Section _____
Block _____
Lot _____
Class Well: I _____, IIA _____, IIB _____, IIIA _____, IIIB ~~yes~~, IIIC _____, IIID _____, IIIE _____

WELL LOCATION: 29S (feet/miles) 17S (direction) of site is N/W of 17/28 intersection
and _____ feet/miles _____ (direction) of _____
(If possible please include map showing location marked)

Date started 7/28/93 • Date completed 7/29/93 Type rig air rotary

1. WELL DATA: New yes Reworked _____ Deepened _____
• Total depth 400! ft.
• pth to bedrock 5' ft.
• le size (Also include reamed zones)
• 10 inches from 0 to 20 ft.
• 8 inches from 20 to 104 ft.
• 6 inches from 104 to 400 ft.
• Casing size (I.D.) and material
• 6 inches from +1 to 105 ft.
Material steel
Wt. per foot 18.97 or wall thickness .280 in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• Screen size and mesh for each zone (where applicable)
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• Gr el pack
• From _____ to _____ ft.
• From _____ to _____ ft.
• Gr t
From _____ to _____ ft., Type _____
• From _____ to _____ ft., Type _____

2. WATER DATA • Water temperature 52 °F
• Static water level (unpumped level-measured) 35' ft.
• Stabilized measured pumping water level _____ ft.
• Stabilized yield 170 gpm after 3 hours
Natural Flow: Yes _____ No no, flow rate: _____ gpm
Comment on quality clear

3. WATER ZONES: From 160' To 5 gpm, 192'-26 gpm
From 215'-11 gpm To 290'-25 gpm, From 320' To 11 gpm
From 352'--2 gpm To 380'--9 gpm, From 385' To -30 gpm

4. USE DATA:
Type of use: Drinking yes, Livestock Watering _____
Irrigation _____ Food processing _____, Household _____
Manufacturing _____, Fire safety _____, Cleaning _____
Recreation _____, Aesthetic _____, Cooling or heating _____
Injection _____, Other _____
• Type of facility: Domestic _____, Public water supply ~~yes~~
Public institution _____ Farm _____, Industry _____
Commercial _____, Other _____

5. PUMP DATA: Type _____ • Rated H.P. _____
• Intake depth _____ • Capacity _____ at _____ head

6. WELLHEAD: Type well seal _____
Pressure tank _____ gal., Loc. _____
Sample tap _____, Measurement port _____
Well vent _____, Pressure relief valve _____
Gate valve _____, Check valve (when required) _____
Electrical disconnect switch on power supply _____

7. DISINFECTION: Well disinfected _____ yes _____ no
Date _____, Disinfectant used _____
Amount _____, Hours used _____

8. ABANDONMENT (where applicable) • yes _____ no _____
Casing pulled yes _____ no _____ not applicable _____
Plugging grout From _____ to _____ material _____

OVER

Owner Fauquier Co. W. S. A.

SD-93-226 6889-02 B-2

BWCM No. _____

). State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the State ntended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. Information required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of he state. Some counties require submission of a water well completion eport for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)

DEPTH (feet) From	To	TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)	REMARKS (water, caving, cavities, broken, core, shot, (etc.)	11. Drilling Time (Min.)	12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)
0'	5'	overburden			
5'	400'	redrock			
	160'	waterbearing 5 gpm			
	192'	waterbearing 26 gpm			
	215'	waterbearing 11 gpm			
	290'	waterbearing 26 gpm			
	320'	waterbearing 11 gpm			
	352'	waterbearing 2 gpm			
	380'	waterbearing 9 gpm			
	385'	waterbearing 80 gpm			

13. Well lot dedicated? _____ ; Size _____ ft. X _____ ft.; Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under _____ p.s.i. for _____ minutes. Pipe size _____ inches, Material _____
Installer _____
Date _____

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature _____ (Seal), Date _____
(Well driller or authorized person)

License No. #42

WWC 2705-014285 class B

State Water Control Board Regional Offices

alley Reg. Off.
6 North Main Street
P. O. Box 268
Bridgewater, Va. 22812
03-828-2595

Piedmont Reg. Off.
4010 West Broad Street
P. O. Box 6616
Richmond, Va. 23230
804-257-1006

outhwest Reg. Off.
8 East Main Street
P. O. Box 476
Abingdon, Va. 24210
03-628-5183

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

est Central Reg. Off.
Executive Park
3312 Peters Creek Road
Roanoke, Va. 24019
03 - 982 - 7432

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

TEST WELL C-1

Emery & Garrett Groundwater, Inc.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL C-1 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: K. C. Hardcastle, Ph.D.
Date Drilled: July 29-30, 1993

Well #: C-1

TEST WELL DATA for Well#: C-1

Static Water Level: ND
Depth to bedrock: 5'
Well Diameter: 6" **Air-Lift Yield : 250 gpm**
Total Depth: 320'
Casing Length: 105' x 6"

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
0			BEDROCK at 5': Olive gray to moderate gray, non-calcareous siltstone.
10			10': Moderate reddish brown, poorly bedded calcareous siltstone.
20			
30			
40			
50	8		**55': WATER-BEARING ZONE.**
60			
70			**70-80': PROGRESSIVE INCREASE IN AIR-LIFT YIELD**
80	35		
90			
100	50-60		**95-97': WATER-BEARING ZONE. CASING SEALED OFF ALL UPPER ZONES.**
110			114-118': Blackish gray calcareous siltstone. 118-123': Medium gray, non-calcareous siltstone.
120			
130			
140			
150			
160			
170			
180			
190			
200	5*		**200': WATER-BEARING ZONE.** 2% calcite-filled fractures.
210			
220			
230	14*		**239-240': WATER-BEARING ZONE.**
240			
250			
260			1% calcite-coated fractures.
270			276-277': Soft drilling.
280			280': Dark reddish brown, moderately micaceous sandstone. **281': MAJOR WATER-BEARING ZONE.**
290			290': Siltstone. **291': WATER-BEARING ZONE. 295': Sandstone; WATER-BEARING ZONE.**
300	215*		
310			**308': WATER-BEARING ZONE.**
320	250*		**320': Bottom of Borehole.**

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.
* Air-lift yield does not include the 50-60 gpm sealed off by the temporary casing.

SANDSTONE: Dark reddish brown (10R 3/4) to very dusky red (10R 2/2), fine to medium grained sandstone and siltstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes. Often interbedded with siltstone described below.

SILTSTONE: Dark reddish brown (10R 3/4) to very dusky red (10R 2/2), siltstone and fine grained sandstone. Bedding is generally poorly developed. Carbonate is common in the matrix but locally is only a minor constituent; mica is rare.

Medium gray to black (N5 to N1), siltstone to very fine sandstone, poorly to moderately wavy to laminar bedded, slightly to moderately calcareous. Occasionally carbonate is the major constituent as a micritic limestone.

WATER BEARING ZONE - where yield of well increased.

Form GW-2
1973-10,000

COMMONWEALTH OF VIRGINIA

WATER WELL COMPLETION REPORT

• BWCM No. _____

(Certification of Completion/County Permit)

State Water Control Board
P. O. Box 11143
2111 North Hamilton St.
Richmond, Va. 23230

SWCB Permit _____
County Permit SD-93- 224
Certification of inspecting official:
This well does _____ does not _____
meet code/low requirements.
S. _____
Date _____
For Office Use

County/City Fauquier

County/City Stamp

• Virginia Plane Coordinates
_____ N
_____ E
Latitude & Longitude
_____ N
_____ W
• Topo. Map No. _____
• Elevation _____ ft.
• Formation _____
• Lithology _____
• River Basin _____
• Province _____
• Type Logs _____
• Cuttings _____
• Water Analysis _____
• Aquifer Test _____

• Owner Fauquier County (Emery & Garrett job)
• Well Designation or Number #4 C-1
Address P.O. Box 3047
Warrenton, VA 22186
Phone 349-2092 (Emery & Garrett-603-279-4425)

• Drilling Contractor SINGHAS & MICHAEL CORP.
Address RT. 3, BOX 5062
BERRYVILLE, VA 22611
Phone 703-955-3582

Tax Map I.D. No. 6899-01
Subdivision _____
Section _____
Block _____
Lot _____
Class Well: I _____, IIA _____, IIB _____, IIIA _____, IIIB yes, IIIC _____, IIID _____, IIIE _____

WELL LOCATION: 29 s (feet/miles) 17 s (direction) of left on 28, to first stream
and _____ feet/miles _____ (direction) of well on left side of 28
(If possible please include map showing location marked)

Date started 7/29/93 • Date completed 7/30/93 Type rig air rotary

1. WELL DATA: New yes Reworked _____ Deepened _____
• Total depth 320 ft.
• Depth to bedrock 5 ft.
• Hole size (Also include reamed zones)
• 10 inches from 0 to 20 ft.
• 8 inches from 20 to 104 ft.
• 6 inches from 104 to 320 ft.
• Casing size (I.D.) and material
• 6 inches from +1 to 105 ft.
Material steel
Wt. per foot 18.97 or wall thickness .280 in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• Screen size and mesh for each zone (where applicable)
• _____ inches from _____ to _____ ft.
Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
Mesh size _____ Type _____
Gravel pack
• From _____ to _____ ft.
• From _____ to _____ ft.
Grout
• From _____ to _____ ft., Type _____
• From _____ to _____ ft., Type _____

2. WATER DATA • Water temperature 52 °F
• Static water level (unpumped level-measured) 29' ft.
• Stabilized measured pumping water level _____ ft.
• Stabilized yield 250 gpm after 3 hours
Natural Flow: Yes _____ No no, flow rate: _____ gpm
Comment on quality clear

3. WATER ZONES: From 200' To 3 gpm, 220', 2 gpm
From 240' To 9 gpm, From 270' To 29 gpm
From 281' To 172 gpm From 320' To 35 gpm

4. USE DATA:
Type of use: Drinking yes, Livestock Watering _____
Irrigation _____ Food processing _____, Household _____
Manufacturing _____, Fire safety _____, Cleaning _____
Recreation _____, Aesthetic _____, Cooking or heating _____
Injection _____, Other _____
• Type of facility: Domestic _____, Public water supply yes
Public institution _____ Farm _____, Industry _____
Commercial _____, Other _____

5. PUMP DATA: Type _____ • Rated H.P. _____
• Intake depth _____ • Capacity _____ at _____ head

6. WELLHEAD: Type well seal _____
Pressure tank _____ gal., Loc. _____
Sample tap _____, Measurement port _____
Well vent _____, Pressure relief valve _____
Gate valve _____, Check valve (when required) _____
Electrical disconnect switch on power supply _____

7. DISINFECTION: Well disinfected _____ yes _____ no
Date _____, Disinfectant used _____
Amount _____, Hours used _____

8. ABANDONMENT (where applicable) • yes _____ no _____
Casing pulled yes _____ no _____ not applicable _____
Plugging grout From _____ to _____ material _____

OVER

C ner Fauquier CO. W.S.A. BWCM No. _____

SD-93-224 6899-01 C-1

9. State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the State in nded for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. In rmation required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion re rt for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)

DEPTH (feet) From	To	TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)	REMARKS (water, caving, cavities, broken, core, shot, (etc.)	11. Drilling Time (Min.)	12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)
0'	5'	overburden			
5'	320'	redrock			
	200'	waterbearing 3 gpm			
	220'	waterbearing 2 gpm			
	240'	waterbearing 9 gpm			
	270'	waterbearing 29 gpm			
	281	waterbearing 172 gpm			
	320	waterbearing 35 gpm			

13. Well lot dedicated? _____; Size _____ ft. X _____ ft.; Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under _____ p.s.i. for _____ minutes. Pipe size _____ inches, Material _____
Installer _____
Date _____

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature _____ (Seal), Date _____
(Well driller or authorized person)
License No. #42

WWC 2705-014285 class B

State Water Control Board Regional Offices

Valle Reg. Off.
16 rth Main Street
P. O. ox 268
Bridgewater, Va. 22812
703-828-2595

Piedmont Reg. Off.
4010 West Broad Street
P. O. Box 6616
Richmond, Va. 23230
804-257-1006

Sout est Reg. Off.
08 t Main Street
P. O. ox 476
Abingdon, Va. 24210
03-628-5183

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

vest ntral Reg. Off.
ec ve Park
5312 Peters Creek Road
Roanoke, Va. 24019
03 82-7432

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

TEST WELL C-2

Emery & Garrett Groundwater, Inc.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL C-2 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: K. C. Hardcastle, Ph.D.
Date Drilled: July 30-31, 1993

Well #: C-2

TEST WELL DATA for Well#: C-2

Static Water Level: ND
Depth to bedrock: 4'
Well Diameter: 6" **Air-Lift Yield : 215 gpm**
Total Depth: 457'
Casing Length: 21' x 6"

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
0			BEDROCK at 4': Gray and tan weathered sandstone.
10			10': Dark dusky reddish brown, slightly micaceous, calcareous, fine grained sandstone.
20			
30			
40	<1		44': trace of water from a soft zone.
50			
60	2		58-93': Pale green, sugary, non-calcareous, slightly to moderately micaceous, medium grained sandstone.
70			75-76': Dark reddish brown, slightly micaceous, fine grained sandstone.
80			
90			
100			93-106': Dark dusky reddish brown sandstone.
110			106-121': Pale green to grayish green sandstone.
120			
130			121': Dark reddish brown, non-calcareous sandstone.
140			140-160': Dark reddish brown calcareous siltstone.
150			
160	20		156': soft zone; **160': WATER-BEARING ZONE.** Dark reddish brown micaceous sandstone.
170			
180	30		
190			189-192': Dusky blue green (5BG 3/2) fine grained sandstone. 190': thin graphite-bearing layer.
200			193-253': Dark reddish brown siltstone.
210			
220			
230			
240			
250			253': Temporary loss of circulation; **WATER-BEARING ZONE.** Dusky green, non-calcareous sandstone.
260	40		254-257': Brown pebble conglomerate (gravel and coarse sand size grains in fine grained sandy matrix).
270			
280	55		**275': WATER-BEARING ZONE.** 275-292': Dark reddish brown, micaceous sandstone.
290			292-301': Dark gray to grayish black limestone/ calcareous siltstone. 296-297': temporary sulfur smell. **301': WATER-BEARING ZONE.** 301-301.5': Dark reddish brown siltstone. 301.5-302': Black siltstone. 302-302.5': Dark reddish brown siltstone. 302.5-303' Black siltstone with temporary sulfur smell. 303-312': Medium gray, slightly calcareous siltstone. 312-334': Dark reddish brown calcareous siltstone.
300	80		
310			
320			
330			
340	105		**334': WATER-BEARING ZONE.** 334-340': Dark reddish brown micaceous, non-calcareous sandstone.
350			340-372': Dark reddish brown calcareous siltstone/fine grained sandstone with <1% calcite-coated fractures.
360			
370			

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL C-2 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: K. C. Hardcastle, Ph.D.
Date Drilled: July 30-31, 1993

Well #: C-2

TEST WELL DATA for Well#: C-2

Static Water Level: ND
Depth to bedrock: 4'
Well Diameter: 6" **Air-Lift Yield : 215 gpm**
Total Depth: 457'
Casing Length: 21' x 6"

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
370 380 390 400 410 420 430 440 450 460	107 120 215		372-376': Grayish olive green (5GY 3/2) medium grained sandstone. 376-383': Dark reddish brown siltstone. 383-391': Dusky yellow green (5GY 5/2) siltstone breccia/angular wackestone (gravel to coarse sand size, angular, green and black green siltstone fragments supported in non-calcareous siltstone matrix). 391': WATER-BEARING ZONE. 391-395': Dark reddish brown siltstone. 395-402': Olive green (5Y 4/1) siltstone and 40% dark reddish brown siltstone. 402-409': Black to medium dark gray limestone/ calcareous siltstone with 10% dark gray siltstone breccia/angular wackestone. 409-423': Moderate dusky reddish brown (10R 4/4) moderately micaceous sandstone. 423-434': Olive gray (5Y 4/1) to greenish black (5GY 2/1) to black to olive black siltstone, variably calcareous and micaceous from 432-433'. 434-455': Dark reddish brown siltstone. 455-457': Dark reddish brown, micaceous sandstone. 457': MAJOR WATER-BEARING ZONE and apparent change to highly resistant rock (basalt?; sample not recovered). **Bottom of hole at 457'.**

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

SANDSTONE: Dark reddish brown (10R 3/4) to very dusky red (10R 2/2), fine to medium grained sandstone and siltstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes. Often interbedded with siltstone described below.

SILTSTONE: Dark reddish brown (10R 3/4) to very dusky red (10R 2/2), siltstone and fine grained sandstone. Bedding is generally poorly developed. Carbonate is common in the matrix but locally is only a minor constituent; mica is rare.

Medium gray to black (N5 to N1), very fine siltstone to fine sandstone, poorly to moderately wavy to laminar bedded, slightly to moderately calcareous. Occasionally carbonate is the major constituent as a micritic limestone.

SANDSTONE: Dark to medium gray (N3 - N5) to pale green (10G 6/2), fine to medium grained sandstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes.

WATER BEARING ZONE - where yield of well increased.

Fo. GW-2
197 10,000

COMMONWEALTH OF VIRGINIA
WATER WELL COMPLETION REPORT
(Certification of Completion/County Permit)

• BWCM No. _____

Stat Water Control Board
P. O. Box 11143
2111 North Hamilton St.
Richmond, Va. 23230

SWCB Permit _____
County Permit SD-93-230
Certification of inspecting official:
This well does _____ does not _____
meet code/low requirements.
S. _____
Date _____
For Office Use

County/City Fauquier

County/City Stamp

• Virginia Plane Coordinates
_____ N
_____ E
Latitude & Longitude
_____ N
_____ W
• Topo. Map No. _____
• Elevation _____ ft.
• Formation _____
• Lithology _____
• River Basin _____
• Province _____
• Type Logs _____
• Casings _____
• Water Analysis _____
• Aquifer Test _____

• Owner Fauquier County (Emery & Garrett job)
• Well Designation or Number #5 C-2
Address P.O. Box 3047
Warrenton, VA 22186
Phone 349-2092 (Emery & Garrett-603-279-4425)

• Drilling Contractor SINGHAS & MICHAEL CORP.
Address RT. 3, BOX 5062
BERRYVILLE, VA 22611
Phone 703-955-3582

Tax Map I.D. No. 6990-02
Subdivision _____
Section _____
Block _____
Lot _____
Class Well: I _____, IIA _____, IIB _____, IIIA _____, IIIB yes, IIIC _____, IIID _____, IIIE _____

WELL LOCATION: 29S (feet/miles) 17S (direction) of left on 28, to first stream on and _____ feet/miles _____ (direction) of take 837 n side on 17 across field
(If possible please include map showing location marked)

Date started 7/30/93 • Date completed 7/31/93 Type rig air rotary

WELL DATA: New yes Reworked _____ Deepened _____
• Total depth 460 ft.
• Depth to bedrock 5 ft.
• Hole size (Also include reamed zones)
• 10 inches from 0 to 20 ft.
_____ inches from _____ to _____ ft.
6 inches from 20 to 460 ft.
• Casing size (I.D.) and material
• 6 inches from 1 to 21 ft.
Material steel
Wt. per foot 18.97 or wall thickness .280 in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• _____ inches from _____ to _____ ft.
Material _____
Wt. per foot _____ or wall thickness _____ in.
• Screen size and mesh for each zone (where applicable)
• _____ inches from _____ to _____ ft.
Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
_____ inches from _____ to _____ ft.
Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
Gravel pack
• From _____ to _____ ft.
• From _____ to _____ ft.
Grout
• From _____ to _____ ft., Type _____
• From _____ to _____ ft., Type _____

2. WATER DATA • Water temperature 52 °F
• Static water level (unpumped level-measured) 31' ft.
• Stabilized measured pumping water level _____ ft.
• Stabilized yield 215 gpm after 3 hours
Natural Flow: Yes _____ No no, flow rate: _____ gpm
Comment on quality clear

3. WATER ZONES: From 160'-20 gpm, 180'-10 gpm
From 212'-3 gpm, 253'-7 gpm, From 276'-15 gpm, 301-25 gpm
From 334' To: 25 gpm From 372' 2 gpm To 457'-108 gpm

4. USE DATA:
Type of use: Drinking yes, Livestock Watering _____
Irrigation _____ Food processing _____, Household _____
Manufacturing _____, Fire safety _____, Cleaning _____
Recreation _____, Aesthetic _____, Cooling or heating _____
Injection _____, Other _____
• Type of facility: Domestic _____, Public water supply yes
Public institution _____ Farm _____, Industry _____
Commercial _____, Other _____

5. PUMP DATA: Type _____ • Rated H.P. _____
• Intake depth _____ • Capacity _____ at _____ head

6. WELLHEAD: Type well seal _____
Pressure tank _____ gal., Loc. _____
Sample tap _____, Measurement port _____
Well vent _____, Pressure relief valve _____
Gate valve _____, Check valve (when required) _____
Electrical disconnect switch on power supply _____

7. DISINFECTION: Well disinfected _____ yes _____ no
Date _____, Disinfectant used _____
Amount _____, Hours used _____

8. ABANDONMENT (where applicable) • yes _____ no _____
Casing pulled yes _____ no _____ not applicable _____
Plugging grout From _____ to _____ material _____

OVER

Owner Fauquier CO. W. S. A.
SD-93-230 6990-03 C-2

BWCM No. _____

9. State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the State intended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. Information required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion report for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)

DEPTH (feet) From	To	TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)	REMARKS (water, caving, cavities, broken, core, shot, (etc.)	11. Drilling Time (Min.)	12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)
0'	5'	overburden			
5'	460'	redrock			
	160'	waterbearing 20 gpm			
	180'	waterbearing 10 gpm			
	212'	waterbearing 3 gpm			
	253'	waterbearing 7 gpm			
	275'	waterbearing 15 gpm			
	301'	waterbearing 25 gpm			
	334'	waterbearing 25 gpm			
	372'	waterbearing 2 gpm			
	457'	waterbearing 108 gpm			

13. Well lot dedicated? _____; Size _____ ft. X _____ ft.; Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under _____ p.s.i. for _____ minutes. Pipe size _____ inches, Material _____
Installer _____
Date _____

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature _____ (Seal), Date _____
(Well driller or authorized person)
License No. #42

WWC 2705-014285 class B

State Water Control Board Regional Offices

Valley Reg. Off.
1[illegible] North Main Street
P. O. Box 268
Bridgewater, Va. 22812
703-828-2595

Southwest Reg. Off.
4[illegible] East Main Street
P. O. Box 476
Abingdon, Va. 24210
703-628-5183

West Central Reg. Off.
Executive Park
5312 Peters Creek Road
Roanoke, Va. 24019
703-982-7432

Piedmont Reg. Off.
4010 West Broad Street
P. O. Box 6616
Richmond, Va. 23230
804-257-1006

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

TEST WELL D-2

Emery & Garrett Groundwater, Inc.

HYDROGEOLOGIC BOREHOLE LOG FOR WELL D-2 in BEALETON

Project: Bealeton Service District
Driller: Singhas & Michael, Corp.
Geologist: J. A. Brooks, Ph.D.
Date Drilled: October 18-19, 1993

Well #: D-2

TEST WELL DATA for Well#: D-2
Static Water Level: ND
Depth to bedrock: 16'
Well Diameter: 6" **Air-Lift Yield : 130 gpm**
Total Depth: 440'
Casing Length: 20' x 6"

DEPTH (feet)	AIR-LIFT YIELD (gpm)	WELL LOG	DESCRIPTION (color/grain size/structure/composition/trace minerals)
0			0'-16': Saprolite
10	Casing		16': Bedrock. Medium to dark red siltstone to fine-grained sandstone.
20			
30			
40			40'-342': Medium reddish brown, fissile siltstone to fine-grained sandstone. 2% manganese fracture coatings.
50			50': Highly fractured rock. Cuttings up to 2 cm long. 2% vuggy quartz and 2% chlorite fracture coatings.
60	5		60': Yield measured at 60', from above.
70			
80			
90			
100			
110			
120	15		**120': Water gained gradually during last 20'.**
130			130': 2% calcite fracture coatings.
140			
150			
160			160'-240': Approximately 2% calcite fracture coatings.
170			
180			
190			
200			
210			
220			
230	75		**230': Water-bearing zone.**
240			
250			250': 1% Manganese fracture coatings.
260			260': 3% calcite fracture coatings.
270			270'-342': 1-2% calcite fracture coatings.
280			
290			
300			
310			
320			
330			
340	90		mica.
350			349'-387': Medium reddish brown, fissile siltstone to fine-grained sandstone.
360			
370			
380			387'-393': Black fissile siltstone.
390			393'-408': Medium reddish brown, fissile siltstone to fine-grained sandstone.
400			
410	130		408'-410': Greenish gray siltstone. 410'-413': Black siltstone. **Water-bearing fracture zone at 413'**
420			413'-415': Dark greenish gray, sandstone with pyrite.415'-416': Greenish brown sandstone with pyrite.
430			416'-440': Medium reddish brown, fissile siltstone to fine-grained sandstone.
440			**440': Bottom of Borehole.**

Cuttings of bedrock collected at 10 foot intervals and at changes in lithology.

WATER BEARING ZONE -where yield of well increased.

SAPROLITE: Weathered bedrock.

SANDSTONE: Dark reddish brown, fine to medium grained sandstone. Bedding is generally moderately developed and wavy, but locally laminar. Carbonate occasionally occurs in the matrix and mica is common and typically concentrated on bedding planes. Often interbedded with siltstone described below.

SILTSTONE: Medium reddish brown siltstone and fine grained sandstone. Bedding is generally poorly developed. Carbonate is common in the matrix but locally is only a minor constituent; mica is rare.

SILTSTONE: Medium grey to black very fine siltstone, poorly to moderately wavy to laminar bedded, slightly to moderately calcareous. Occasionally carbonate is the major constituent as a micritic limestone. Greenish gray siltstone commonly occurs at

SANDSTONE: Greenish gray sandstone with pyrite.

COMMONWEALTH OF VIRGINIA
WATER WELL COMPLETION REPORT

• BWCM No. _____

(Certification of Completion/County Permit)

ate ater Control Board
O. x 11143
111 North Hamilton St.
ichmond, Va. 23230

SWCB Permit _____
County Permit SD-93- 524
Certification of inspecting official:
This well does _____ does not _____
meet code/low requirements.
S. _____
Date _____
For Office Use

ounty/City Fauquier

County/City Stamp

Vir ia Plane Coordinates
_____ N
_____ E
Lat de & Longitude
_____ N
_____ W
Top Map No. _____
Ele ion _____ ft.
Formation _____
Lithology _____
Rive Basin _____
Prov e _____
Type Logs _____
Cutt s _____
Vate Analysis _____
quifer Test _____

•Owner Fauquier County (Emery & Garrett job)
•Well Designation or Number # 13 D2 (Messick)
Address P.O. Box 3047
Warrenton, VA 22186
Phone 349-2092 (Emery & Garrett-603-279-4425)

•Drilling Contractor SINGHAS & MICHAEL CORP.
Address RT. 3, BOX 5062
BERRYVILLE, VA 22611
Phone 703-955-3582

Tax Map I.D. No 6899-77-3423
Subdivision _____
Section _____
Block _____
Lot _____
Class Well: I _____, IIA _____
IIB _____, IIIA _____, IIIB ~~yes~~
IIIC _____ IIID _____ IIIE _____

WELL LOCATION: _____ (feet/miles) _____ direction) of Bealton Water supply
and _____ feet/miles _____ (direction) of _____
(If possible please include map showing location marked)

Date started 10/18/93 (6" hole) 10/19/93 • Date completed _____ Type rig air rotary

ELL DATA: New yes Reworked _____ Deepened _____
otal depth 440 ft.
ept to bedrock 6 ft.
ole e (Also include reamed zones)
• 12 inches from _____ to _____ ft.
• 10 inches from 0 to 19 ft.
• or 6 inches from 19 to 440 ft.
asing size (I.D.) and material
• 6 inches from +1 to 20 ft.
Material steel
W per foot 18.97 or wall thickness .280 in.
• 8 inches from +2 to _____ ft.
Material steel
W per foot 28.55 or wall thickness .322 in.
• _____ inches from _____ to _____ ft.
Material _____
W per foot _____ or wall thickness _____ in.
reen size and mesh for each zone (where applicable)
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
• _____ inches from _____ to _____ ft.
• Mesh size _____ Type _____
vel pack
• From _____ to _____ ft.
From _____ to _____ ft.
ut
From _____ to _____ ft., Type _____
From _____ to _____ ft., Type _____

2. WATER DATA • Water temperature 52 °F
• Static water level (unpumped level-measured) 20' ft.
• Stabilized measured pumping water level _____ ft.
• Stabilized yield 130 gpm after _____ hours
Natural Flow: Yes _____ No no, flow rate: _____ gpm
Comment on quality clear

3. WATER ZONES: From 60' to 5GPM
From 120' to 10 GPM. From 240' to 60GPM
From 346' to 15 GPM. From 413' to 40 GPM

4. USE DATA:
Type of use: Drinking yes, Livestock Watering _____
Irrigation _____ Food processing _____, Household _____
Manufacturing _____, Fire safety _____, Cleaning _____
Recreation _____, Aesthetic _____, Cooking or heating _____
Injection _____, Other exploratory
• Type of facility: Domestic _____, Public water supply yes
Public institution _____ Farm _____, Industry _____
Commercial _____, Other _____

5. PUMP DATA: Type _____ • Rated H.P. _____
• Intake depth _____ • Capacity _____ at _____ head

6. WELLHEAD: Type well seal _____
Pressure tank _____ gal., Loc. _____
Sample tap _____, Measurement port _____
Well vent _____, Pressure relief valve _____
Gate valve _____, Check valve (when required) _____
Electrical disconnect switch on power supply _____

7. DISINFECTION: Well disinfected _____ yes _____ no
Date _____, Disinfectant used _____
Amount _____, Hours used _____

8. ABANDONMENT (where applicable) • yes _____ no _____
Casing pulled yes _____ no _____ not applicable _____
Plugging grout From _____ to _____ material _____

OVER

BWCM No. _____

Owner Fauquier WSA 6899-77-3423
SD-93-524

9. State law requires submitting to the Virginia State Water Control Board information about groundwater and wells for every well made in the State intended for water, or any other non-exempt well. This information must be submitted whether the well is completed, on standby, or abandoned. Information required includes: an accurately and completely prepared water well completion report, full data from any aquifer pumping tests, drill cuttings taken at ten foot intervals (unless exemption is secured), the results of any chemical analyses, and copies of any geophysical logs. Quarterly pumpage and use reports are required from owners of public supply and industrial wells. County or State permits to drill may be required in some parts of the state. Some counties require submission of a water well completion report. The Virginia State Health Department requires a water well completion report for public supply wells.

10. DRILLERS LOG (use additional Sheets if necessary)

DEPTH (feet) From	To	TYPE OF ROCK OR SOIL (color, material, fossils, hardness, etc.)	REMARKS (water, caving, cavities, broken, core, shot, (etc.)	11. Drilling Time (Min.)	12. DIAGRAM OF WELL CONSTRUCTION (with dimensions)
0	6	overburden			
6	440	redrock			
	60'	5 gpm			
	120'	10 gpm			
	240'	60 gpm	Waterbearing zones		
	346'	15 gpm			
	413'	40 gpm			

13. Well lot dedicated? _____ ; Size _____ ft. X _____ ft.; Well house? _____
Distance to nearest pollutant source _____ ft., Type _____
Distance to nearest property line _____ ft., Building _____ ft.

14. WATER SERVICE PIPE: Checked under _____ p.s.i. for _____ minutes. Pipe size _____ inches, Material _____
Installer _____
Date _____

15. I certify that the information contained herein is true and correct and that this well and/or system has been installed and constructed in accordance with the requirements for well construction as specified in compliance with appropriate county or independent city ordinances and the laws and rules of the Commonwealth of Virginia.

Signature Linda Singhas (Seal), Date _____
(Well driller or authorized person)
License No. #42

WWC 2705-014285 class B

State Water Control Board Regional Offices

Valley Reg. Off.
116 North Main Street
P. O. Box 268
Bridgewater, Va. 22812
703-828-2595

Southwest Reg. Off.
408 East Main Street
P. O. Box 476
Abingdon, Va. 24210
703-628-5183

West Central Reg. Off.
Executive Park
3312 Peters Creek Road
Roanoke, Va. 24019
703-982-7432

Piedmont Reg. Off.
4010 West Broad Street
P. O. Box 6616
Richmond, Va. 23230
804-257-1006

Tidewater Reg. Off.
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Va. Beach, Va. 23462
804-499-8742

Northern Virginia Reg. Off.
5515 Cherokee Avenue
Suite 404
Alexandria, Va. 22312
703-750-9111

APPENDIX B

WATER QUALITY DATA
for
PRODUCTION WELLS B-3, B-4, and MS-5

Emery & Garrett Groundwater, Inc.

PRODUCTION WELL B-3

Emery & Garrett Groundwater, Inc.

LAB #: 1-6

NAME OF WATER SYSTEM: FC[illegible]A MEADOWBROOK

SOURCE: WELL (B-3)

OTHER INFORMATION: DEVELOPMENTAL

REPORT RESULTS TO HEALTH OF[illegible]AL AT:

Name: [illegible] OF WATER PRG.

Address: [illegible] 2nd FL.

City: [illegible] 22701 Zip Code: (703) 829-7310

Water Quality Report

INORGANIC

WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☐ Danville ☐ Richmond ☐ Local Health Dept. ☒ Culpeper ☐ Lexington ☐ Virginia Beach ☐

PLANNING DISTRICT#

SAMPLING LOCATION: WELL

SOURCE TYPE: ☒ Public-Community ☐ Public-Noncommunity

COUNTY: FAUQUIER

CODE: 7-9

INDEPENDENT CITY:

FIELD TESTS: Temp: 15°C Cl2: mg/L CO2 mg/L

pH: 7.00 Alk: mg/L Hard.: 230 mg/L

P.W.S.I.D. #: 6 0 6 1 1 2 9 (10-16)

TRANSACTION CODE: Ø 3 (17-18)

DATE COLLECTED: Mo 05 Day 02 Yr 94 (19-24)

TIME: 0 7 3 0 Am (25-28)

COLLECTED BY: JIM BRADY EGGI

CONTAINER TYPE: ☐ Glass ☒ Plastic

PRESERVATIVE USED: ☒ None ☐ Ice ☒ Other

SAMPLE TYPE: D ☐ Reg. Dist. P ☐ Plant Tap R ☒ Raw Water C ☐ Check M ☐ MCL Check S ☐ Other (29)

CONT. I.D.	CONTAMINANT NAME (Maximum Allowable Level)	MTD.	S	ANALYSIS RESULTS	PRECISION	ANALYSIS DATE Mo Day Yr	A*
1925	pH (6.5-8.5)	135		Ø Ø 8.38 Ø Ø	±	05 03 94	BSO
1927	Alkalinity-Total	157		Ø 205 1 Ø Ø Ø	±	/ / /	/
1928	Alkalinity-Bicarbonate	157		Ø 205 1 Ø Ø Ø	±	/ / /	/
1929	Alkalinity-Carbonate	157		Ø 00 Ø Ø Ø	±	/ / /	/
1915	Hardness-EDTA	141		Ø Ø Ø	±		
1932	Acidity	157		Ø Ø Ø Ø	±		
1910	Corrosion Index	136		Ø Ø 1284 Ø Ø	±		
1025	Fluoride 1.8	107		Ø Ø 014 Ø Ø	±	05 05 94	BSO
1017	Chloride 250.	107		123 Ø Ø Ø	±	05 05 94	BSO
1905	Color (APHA) 15 CU	129	<	Ø Ø 1 Ø Ø Ø Ø	±	05 03 94	[illegible]
0100	Turbidity (FTU) 1.0	001		Ø 057 Ø Ø	±	05 02 94	[illegible]
1027	Hydrogen Sulfide 0.05	155	<	Ø Ø Ø 003 Ø Ø	±	05 03 94	[illegible]
1055	Sulfate 250.	137		Ø 561 Ø Ø Ø	±	05 05 94	BSO
1040	Nitrogen-Nitrate 10.0	163		Ø Ø Ø Ø	±		
1039	Nitrogen-Ammonia	147	<	Ø Ø 004 Ø Ø	±	05 04 94	ES
1038	Nitrogen-Nitrite	163		Ø Ø Ø Ø	±		
1041	Nitrogen-Total Kjeldahl	175		Ø Ø Ø Ø	±		
1043	Phosphate-Total (As P)	162		Ø Ø Ø Ø	±		
1044	Phosphate-Ortho (As P)	162	<	Ø Ø 005 Ø Ø	±	05 05 94	BSO
1926	Specific Conductance (u mhos/cm)	145		510 Ø Ø Ø	±	05 02 94	CF
1930	Total Dissolved Solids (185°C)	139		307 Ø Ø Ø Ø	±	05 02 94	BA
1058	Volatile (550°C)	139		40 Ø Ø Ø Ø	±	/ / /	/
1059	Fixed (550°C)	139		267 Ø Ø Ø Ø	±	/ / /	/
1049	Silica (as SiO_2)	143		Ø 271 Ø Ø	±	05 04 94	ES
1997	Langlier Index 15°C	136		Ø Ø Ø 784 Ø	±		
	Bromide			011	±	05 05 94	BSO
					±		
30-33	LAB I.D. 0 1 0 0 0 (34-38)	39-41	42	43-50	51-53	54-59	

DATE REC:

DATE REP: 5-16-94

PREPARED BY: B. O'Neal

The results on this report are expressed in mg/L unless otherwise indicated. *A = analyst's initials

432565

94 MAY -2 PM 1:07

LAB: 1-6

NAME OF WATER SYSTEM: FCI A - MEADOWBROOK

SOURCE: WELL B-3

OTHER INFORMATION: DEVELOPMENTAL

REPORT RESULTS TO HEALTH OFFICE AT:

Name: VDH-OFC. OF WATER PRG.
Address: 400 S. MAIN ST., 2nd FL.
City: CULPEPER, VA 22701
Zip Code: (703) 829-7340

Water Quality Report

NITRATE-N NITRITE-N HARDNESS
WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☐ Danville ☐ Richmond ☐ Local Health Dept.
☒ Culpeper ☐ Lexington ☐ Virginia Beach ☐

PLANNING DISTRICT#

SAMPLING LOCATION: WELL

SOURCE TYPE: ☒ Public Community ☐ Public-Noncommunity

COUNTY: FAUQUIER

CODE: 7-9

INDEPENDENT CITY:

FIELD TESTS: Temp: 15°C Cl2: mg/L CO2 mg/L
pH: 7.00 Alk: mg/L Hard.: 230 mg/L

P.W.S.I.D. #: 6 0 6 1 1 2 9 (10-16)

TRANSACTION CODE: Ø 3 (17-18)

DATE COLLECTED: Mo 05 Day 02 Yr 94 (19-24)

TIME: 0730 AM (25-28)

COLLECTED BY: JIM BRADY

CONTAINER TYPE: ☐ Glass ☒ Plastic

PRESERVATIVE USED: ☐ None ☐ Ice ☐ Other ☐ Nitric Acid ☒ Sulfuric Acid

SAMPLE TYPE: D ☐ Reg. Dist. P ☐ Plant Tap R ☒ Raw Water C ☐ Check M ☐ MCL Check ☐ Other (29)

CONT. I.D. (30-33)	CONTAMINANT NAME (Maximum Allowable Level)	MTD. (39-41)	S	ANALYSIS RESULTS (43-50)	PRECISION (51-53)	ANALYSIS DATE Mo Day Yr (54-59)	A*
	Nitrate-Nitrogen			0.42	±	05 05 94	BSO
	Nitrite-Nitrogen		<	0.05	±	/ / /	/
	Hardness (Total)			198	±	05 04 94	BSO
	Hardness, Calcium			142	±	/ / /	/

LAB I.D. (34-38)

DATE REC:

DATE REP: 5-16-94

PREPARED BY: B. O'Neal

The results on this report are expressed in mg/L unless otherwise indicated. *A = analyst's initials

RECEIVED Office of Water Programs Office MAY 1994 Culpeper

YB 4325566

LAL [ ] 1-6

NAME OF WATER SYSTEM: 7 WSA MEADOWBROOK

SOURCE: WELL - ~~PRO~~ B3

OTHER INFORMATION: DEVELOPMENTAL

REPORT RESULTS TO HEALTH OF AL AT:

Name: VDH-OFC. OF WATER PRG.
Address: 400 S. MAIN ST., 2nd FL.
City: CULPEPER, VA. 22701 (703) 829 7840

Water Quality Report

METALS

WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: [ ] Abingdon [ ] Danville [ ] Richmond [ ] Local Health Dept.
[x] Culpeper [ ] Lexington [ ] Virginia Beach [ ]

PLANNING DISTRICT#

SAMPLING LOCATION: WELL

SOURCE TYPE: [x] Public Community [ ] Public-Noncommunity

COUNTY: FAUQUIER

CODE: [ ] 7-9

INDEPENDENT CITY:

FIELD TESTS: Temp: 15°C Cl2: mg/L CO2 mg/L
pH: 7.00 Alk: mg/L Hard.: 230 mg/L

P.W.S.I.D.#: 6 0 5 1 1 2 9 (10-16)

TRANSACTION CODE: 0 3 (17-18)

DATE COLLECTED: Mo 0 5 Day 0 3 Yr 9 4 (19-24)

TIME: 0 7 3 0 (25-28)

COLLECTED BY: [illegible]

CONTAINER TYPE:
- [ ] Glass
- [ ] Plastic

PRESERVATIVE USED:
- [ ] None
- [ ] Ice
- [ ] Other
- [ ] Nitric Acid

SAMPLE TYPE:
- D [ ] Reg. Dist.
- P [ ] Plant Tap
- R [ ] Raw Water
- C [ ] Check
- M [ ] MCL Check
- [ ] Other

29

DATE REC:

DATE REP:

SAMPLE NUMBER : 32567 DCLS : BUREAU OF CHEMISTRY

CONT.I.D.	CONTAMINANT NAME (Maximum Allowable Level)		MTD	S	ANALYSIS RESULTS UG/ML
1005	Arsenic	0.05	125	<	0.010
1010	Barium	1.0	108		0.11
1015	Cadmium	0.010	125	<	0.0025
1020	Chromium	0.05	125	<	0.010
1030	Lead	0.05	125	<	0.005
1035	Mercury	0.002	106	<	0.0003
1045	Selenium	0.01	125	<	0.005
1050	Silver	0.05	125	<	0.010
1002	Aluminum		108	<	0.1
1016	Calcium		108		55
1028	Iron	0.30	108		0.01
1031	Magnesium		108		13
1032	Manganese	0.05	108		0.02
1051	Strontium		108		2.19
1095	Zinc	5.0	108		0.1
1022	Copper	1.0	108		0.01
1042	Potassium		108		0.6
1052	Sodium	20.	108		37
1036	Nickel		108	<	0.01
	Thallium		125	<	0.005
1919	Calcium Hardness		108		140
1918	Magnesium Hardness		136		54
1013	Ca & Mg Hardness		136		190
1015	Total Hardness***		136		190
1004	Antimony		125	<	0.010
1036	Beryllium		108	<	0.005

DATE REPORTED : 13-May-94 ANALYST : LOIS THACKER

432567

94 MAY -2 PM 1:07

LA | NA | FW | SYST | FC | SA | ME | WE | K | POR | ULTS | EAL | FICH

1-6

SOURCE: WELL B-

OTHER INFORMATION: DEVELOPMENTAL

VDH OFC. OF WATER PRG.
400 S. MAIN ST., 2nd FL.
CULPEPER, VA 22701
(703) 829-7340

Water Quality Report

VOLATILE ORGANICS

WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: [ ] Abingdon [ ] Danville [ ] Richmond [ ] Local Health Dept.
[X] Culpeper [ ] Lexington [ ] Virginia Beach [ ]

PLANNING DISTRICT#

SAMPLING LOCATION: WELL

SOURCE TYPE: [X] Public Community [ ] Public Noncommunity

COUNTY: FAUQUIER

CODE: 7-9

INDEPENDENT CITY:

FIELD TESTS: Temp. 15°C | Cl_2 mg/l | CO_2 mg/l
pH: 7.00 | Alk. mg/l | Hard 230 mg/l

P.W.S.I.D. #: 6 0 6 1 1 2 9 (10-16) TRANSACTION CODE 8 3 (17-18)

DATE COLLECTED: Mo 05 Day 02 Yr 94 (19-24)

TIME: 07:30 AM (25-28)

COLLECTED BY: JIM BRADY EGGI

CONTAINER TYPE: [X] Glass [ ] Plastic

PRESERVATIVE USED: [ ] None [ ] Ice [ ] Other [ ] Nitric Acid

SAMPLE TYPE: D [ ] Reg Dist. P [ ] Plant Tap R [X] Raw Water C [ ] Check M [ ] MCL Check S [ ] Other (29)

CONT. I.D.	CONTAMINANT NAME (Maximum Allowable Level)	MTD.	S	ANALYSIS RESULTS	PRECISION	ANALYSIS DATE Mo Day Yr	A*
2900	Regulated VOCs	524	<	0000 0005	±	5 10 94	TKP
2990	Benzene 0.005	524		0000	±		
2976	Vinyl Chloride 0.002	524		0000	±		
2982	Carbon Tetrachloride 0.005	524		0000	±		
2980	1,2-Dichloroethane 0.005	524		0000	±		
2984	Trichloroethylene 0.005	524		0000	±		
2977	1,1-Dichloroethylene 0.007	524		0000	±		
2981	1,1,1-Trichloroethane 0.20	524		0000	±		
2969	p-Dichlorobenzene 0.075	524		0000	±		
	c-1,2-dichloroethene 0.07	524		0000	±		
	1,2-dichloropropane 0.005	524		0000	±		
	ethylbenzene 0.7	524		0000	±		
	chlorobenzene 0.1	524		0000	±		
	o-dichlorobenzene 0.6	524		0000	±		
	styrene 0.1	524		0000	±		
	perchloroethene 0.005	524		0000	±		
	toluene 1.	524		0000	±		
	t-1,2-dichloroethene .1	524		0000	±		
	total xylenes 10.	524		0000	±		
					±		
2200	UNREGULATED VOCS	524	<	0000 0005	±		
					±		
					±		
					±		
					±		
	PH 2.8				±		
30-33	LAB I.D. 34-38	39-41	42	43-50	51-53	54-59	

MAY 1994
RECEIVED
Office of Water Programs
Culpeper Office

DATE REC:
DATE REP: 5/17/94

PREPARED BY: [signature]

The results on this report are expressed in mg/l unless otherwise indicated. *A = analyst's initials

432569 YB

94 MAY -2 PM 1:07

NAME OF WATER SYSTEM: WSA MEADOWBROOK
SOURCE: WELL B-3
OTHER INFORMATION: DEVELOPMENTAL

REPORT RESULTS TO HEALTH OFFICIAL AT:
VDH-OFC. OF WATER PRG.
400 S. MAIN ST., 2nd FL.
CULPEPER, VA. 22701
(703) 829-7340

Water Quality Report

RADIOLOGICAL

WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☐ Danville ☐ Richmond ☐ Local Health Dept. ☒ Culpeper ☐ Lexington ☐ Virginia Beach ☐

PLANNING DISTRICT#
SAMPLING LOCATION: WELL
SOURCE TYPE: ☒ Public Community ☐ Public Noncommunity
COUNTY: FAUQUIER
CODE:
INDEPENDENT CITY:
FIELD TESTS: Temp: 15 °C Cl2: mg/L CO2 mg/L
pH: 7.00 Alk: mg/L Hard.: 230 mg/L
P.W.S.I.D. #: 6 0 6 1 1 2 9 (10-16) TRANSACTION CODE 0 3 (17-18)

DATE COLLECTED: Mo 05 Day 02 Yr 94 (19-24)
TIME: 0730 (25-28)
COLLECTED BY: Jim BRADY EGGI
CONTAINER TYPE: ☐ Glass ☒ Plastic
PRESERVATIVE USED: ☒ None ☐ Ice ☐ Other ☐ Nitric Acid
SAMPLE TYPE: D ☐ Reg. Dist. P ☐ Plant Tap R ☒ Raw Water C ☐ Check M ☐ MCL Check S ☐ Other (29)

CONT. I.D.	CONTAMINANT NAME (Maximum Allowable Level)	MTD.	S	ANALYSIS RESULTS	PRECISION	ANALYSIS DATE Mo Day Yr	A*
4000	Gross Alpha 5 pCi/L	419		Ø Ø 20 Ø Ø	± Ø 11	5 3 94	SH
4010	Gross Radium (Alpha)	420		Ø Ø Ø Ø	± Ø		
4020	Radium 226	421		Ø Ø Ø Ø	± Ø		
4030	Radium-228	422		Ø Ø Ø Ø	± Ø		
4100	Gross Beta 50 pCi/L	419		Ø Ø 16 Ø Ø	± Ø 10	5 3 94	SAO
4006	Uranium			Ø Ø Ø Ø	± Ø		
4102	Tritium						

(30-33) (34-38) (39-41) (42) (43-50) (51-53) (54-59)

LAB I.D. 0 1 0 0 0 (34-38)

DATE REC: MAY 2 1994
DATE REP: MAY 6 1994
PREPARED BY: [signature]

The results on this report are expressed in pCi/ Unless otherwise indicated. *A = analyst's initials

MAY 1994 RECEIVED Office of Water Programs Culpeper Office

94 MAY -2 PM 1:07

432568

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS (<2)	05	04	94

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL ____ PPM

L406453

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME
	MEADOWBROOK well B-3	05	02	94		04:00 AM

COLLECTED BY: Jim BRADY-EGGI
TELEPHONE (603) 279-4425 AREA CODE

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER County Water + Sanitation
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	CA

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER ____

SEE REVERSE SIDE FOR COLLECTION INFORMATION

★★ DEVELOPMENTAL ★★

(REV. 2-92)

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS (<2)	05	04	94

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL ____ PPM

L406449

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME
	MEADOWBROOK well B-3	05	02	94		07:30 AM

COLLECTED BY: Jim BRADY-EGGI
TELEPHONE (603) 279-4425 AREA CODE

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER COUNTY WATER + SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER ____

SEE REVERSE SIDE FOR COLLECTION INFORMATION

★★ DEVELOPMENTAL ★★

(REV. 2-92)

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS (<2)	05	04	94

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL ____ PPM

L406451

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME
	MEADOWBROOK well B-3	05	02	94		07:00 AM

COLLECTED BY: Jim BRADY-EGGI
TELEPHONE (603) 279-4425 AREA CODE

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER County WATER + SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ]

SEE REVERSE SIDE FOR COLLECTION INFORMATION

★★ DEVELOPMENTAL ★★

(REV. 2-92)

(MUST PROVIDE)	CODE	CODE	NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS	05	04	94
				<2	L406445			

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL ____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME	
	MEADOWBROOK well B-3	05	02	94		02:00	AM

COLLECTED BY: Jim BRADY
TELEPHONE (603) 279-4425 AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER COUNTY WATER & SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	DBW

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER ____

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS	05	04	94
				<2	L406446			

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL ____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME	
	MEADOWBROOK well B-3	05	02	94		03:00	AM

COLLECTED BY: Jim BRADY-EGGI
TELEPHONE (603) 279-4425 AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER County WATER + SANITATION
BEALETON REGIONAL WATER System
PO. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	DBW

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER ____

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN - Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS	05	04	94
				<2	L406448			

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL ____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME	
	MEADOWBROOK WELL B-3	05	02	94		12:00	AM

COLLECTED BY: JIM BRADY-EGGI
TELEPHONE (603) 279-4425 AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER COUNTY WATER + SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	DBW

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER ____

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN - Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS (<2)	05	04	94

1 7 8 9 10 13 14 16 17 20 21 22 27

L406444

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL _____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME
	MEADOW BROOK well B-3	05	02	94		05:00 Am

28 30 31 36 37 38 41

COLLECTED BY: Jim BRADY - EGGI
TELEPHONE (603) 279-4425
AREA CODE

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER County Water + Sanitation
BEALETON Regional WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	[signature]

42 46

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER _____

SEE REVERSE SIDE FOR COLLECTION INFORMATION (REV. 2-92)

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-COLIFORM	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS (<2)	05	04	94

1 7 8 9 10 13 14 16 17 20 21 22 27

L406442

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL _____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME
	MEADOWBROOK WELL B-3	05	02	94		06:00 Am

28 30 31 36 37 38 41

COLLECTED BY: JIM BRADY - EGGI
TELEPHONE (603) 279-4425
AREA CODE

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER COUNTY WATER AND SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	[signature]

42 46

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER _____

SEE REVERSE SIDE FOR COLLECTION INFORMATION

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS (<2)	05	04	94

1 7 8 9 10 13 14 16 17 20 22 27

L406439

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL _____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME
	MEADOWBROOK well B-3	05	02	94		01:00 Am

28 30 31 36 37 38 41

COLLECTED BY: JIM BRADY - EGGI
TELEPHONE (603) 279-4425
AREA CODE

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER COUNTY WATER + SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	[signature]

42 46

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE

SEE REVERSE SIDE FOR COLLECTION INFORMATION

RECEIVED MAY - 9 1994

NITON® corporation

ENVIRONMENTAL RESEARCH AND MEASUREMENT PRODUCTS FOR RADON AND LEAD

May 6, 1994

EMERY & GARRETT GRNDWTR
170 WAUKEWAN STREET
MEREDITH, NH 03253

SITE ADDRESS:
FCWSA-BEALETON SITE
BEALETON, VA 22712

Thank you for choosing NITON for your radon testing.

Your radon test results are listed by vial number in the space below. These radon results are strictly confidential, though some state laws require reporting (by zip code only in New England).

VIAL NUMBER	TEST LOCATION	TEST BEGIN	RADON CONCENTRATION
727148	WELL B-4	05/02/94	1300 pCi/L
727173	WELL B-3	05/02/94	1100 pCi/L

Radon-laden water can be a source of elevated levels of radon in indoor air, as radon gas escapes from the water into the air. The U.S. E.P.A. is currently setting guidelines for public water systems but has not set guidelines for acceptable levels of radon in private wells. Various states, including Massachusetts, Maine and New Hampshire, have set action guidelines of 10,000 to 20,000 pCi/L.

On average, 10,000 picoCuries of radon in a liter of water contributes about 1 pCi/L of radon to indoor air of a house. Thus, a level of 20,000 picoCuries in the water could result in adding 2 pCi/L to the level of radon in air. A level of 4,800 pCi/L in water could add .48 pCi/L to the air.

Additional information on radon in water may be found enclosed.

Our testing laboratory techniques have consistently passed the U.S. Environmental Protection Agency Proficiency Tests. No commercially available radon tests are more precise. If test instructions were followed, you can be confident that these results are accurate measures of the radon levels at the time the tests were done. Radon levels may fluctuate over time. NOTE: NITON IS NOT RESPONSIBLE FOR INACCURACIES CAUSED BY IMPROPER USE OF THE DETECTORS, INCORRECT OR INCOMPLETE TEST INFORMATION, OR DAMAGE TO THE DETECTORS IN TRANSIT.

P.O.Box 368 • Bedford, MA 01730-0368 • Telephone: 617-275-9275 • Fax: 617-275-2397

Printed on Recycled Paper

RECEIVED MAY 2 5 1994

DATE COLLECTED	DATE RECEIVED	DATE COMPLETED	SAMPLE CODE
05/02/94	05/05/94	05/18/94	9650327

NATIONAL TESTING LABORATORIES INC.
6555 Wilson Mills Road
Cleveland, OH 44143
(216) 449-2525

CUSTOMER ADDRESS

FCWSA-BEALETON SITE
BEALETON WELL
B-3
CONCLUSION OF PUMPING

DEALER ADDRESS

EMERY & GARRETT GROUNDWTR
170 WAUKEWAN ST
MEREDITH, NH 03253-

DRINKING WATER ANALYSIS RESULTS

NOTE: "*" indicates that the MCL (Maximum Contaminant Level) has been exceeded, or in the case of pH is either too high OR too low.
"ND" indicates that none of this contaminant has been detected at or above our detection level.
"**" Result may be invalid due to lack of "Time Collected" or because the sample has exceeded the 30-hour time frame.
"BD" Bacteria destroyed due to lack of collection information or because the sample has exceeded the 48-hour time frame.
TNTC-Too Numerous To Count NBS-No Bacteria Submitted

Analysis performed	MCL (mg/l)	Detection Level	Level Detected
Microbiological:			
Total coliform (organism/100ml)	0	0	BD
Inorganic chemicals - metals:			
Aluminum	0.2	0.1	ND
Arsenic	0.05	0.010	ND
Barium	2.0	0.30	ND
Cadmium	0.005	0.002	ND
Chromium	0.1	0.004	ND
Copper	1.3	0.004	ND
Iron	0.3	0.020	ND
Lead	0.015	0.002	ND
Manganese	0.05	0.004	0.017
Mercury	0.002	0.001	ND
Nickel	0.1	0.02	ND
Selenium	0.05	0.002	ND
Silver	0.1	0.002	ND
Sodium	---	1.0	35
Zinc	5.0	0.004	0.079
Inorganic chemicals - other, and physical factors:			
Alkalinity (Total as CaCO3)	---	10.0	215
Chloride	250	5.0	14
Fluoride	4.0	0.5	ND
Nitrate as N	10	0.5	0.5
Nitrite as N	1.0	0.5	ND
Sulfate	250	5.0	56
Hardness (suggested limit = 100)		10.0	150*
pH (Standard Units)	6.5-8.5	---	7.4
Total Dissolved Solids	500	20.0	295
Turbidity (Turbidity Units)	1.0	0.1	0.2
Organic chemicals - trihalomethanes:			
Bromoform	---	0.004	ND
Bromodichloromethane	---	0.002	ND
Chloroform	---	0.002	ND
Dibromochloromethane	---	0.004	ND
Total THMs (sum of four above)	0.1	0.002	ND
Organic chemicals - volatiles:			
Benzene	0.005	0.001	ND
Vinyl Chloride	0.002	0.001	ND
Carbon Tetrachloride	0.005	0.001	ND
1,2-Dichloroethane	0.005	0.001	ND

Analysis performed	MCL (mg/l)	Detection Level	Level Detected
Trichloroethylene	0.005	0.001	ND
1,4-Dichlorobenzene	0.075	0.001	ND
1,1-Dichloroethylene	0.007	0.001	ND
1,1,1,-Trichloroethane	0.20	0.001	ND
Bromobenzene	---	0.002	ND
Bromomethane	---	0.002	ND
Chlorobenzene	0.1	0.001	ND
Chloroethane	---	0.002	ND
Chloromethane	---	0.002	ND
2-Dichlorotoluene	---	0.001	ND
4-Dichlorotoluene	---	0.001	ND
Dibromochloropropane (DBCP)	---	0.001	ND
Dibromomethane	---	0.002	ND
1,2-Dichlorobenzene	0.6	0.001	ND
1,3-Dichlorobenzene	---	0.001	ND
Dichlorodifluoromethane	---	0.002	ND
1,1-Dichloroethane	---	0.002	ND
Trans-1,2-Dichloroethylene	0.1	0.002	ND
cis-1,2-Dichloroethylene	0.07	0.002	ND
Dichloromethane	0.005	0.002	ND
1,2-Dichloropropane	0.005	0.002	ND
trans-1,3-Dichloropropene	---	0.002	ND
1-3-Dichloropropene	---	0.002	ND
2,2-Dichloropropane	---	0.002	ND
1,1-Dichloropropene	---	0.002	ND
1,3-Dichloropropane	---	0.002	ND
Ethylbenzene	0.7	0.001	ND
Ethylenedibromide (EDB)	---	0.001	ND
Styrene	0.1	0.001	ND
1,1,1,2-Tetrachloroethane	---	0.002	ND
1,1,2,2-Tetrachloroethane	---	0.002	ND
Tetrachloroethylene (PCE)	0.005	0.002	ND
1,2,3-Trichlorobenzene	---	0.002	ND
1,2,4-Trichlorobenzene	---	0.002	ND
1,1,2-Trichloroethane	0.005	0.002	ND
Trichlorofluoromethane	---	0.002	ND
1,2,3-Trichloropropane	---	0.002	ND
Toluene	1.0	0.001	ND
Xylene	10	0.001	ND

I certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods. These test results are intended to be used for infromational purposes only and may not be used for regulatory compliance.

PRESIDENT, NATIONAL TESTING LABORATORIES, INC.

REV. 3-92

PRODUCTION WELL B-4

Emery & Garrett Groundwater, Inc.

LAB # 1-6

NAME OF WATER SYSTEM: [illegible] ISA MEADOWBROOK

SOURCE: WELL ~~[illegible]~~ B-4

OTHER INFORMATION: DEVELOPMENTAL

REPORT RESULTS TO HEALTH OF [illegible] AT:

Name: VDH OFC. OF WATER [illegible]

Address: [illegible] ST. 2nd FL

City: [illegible] Zip Code: [illegible]

Water Quality Report

INORGANIC

WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☐ Danville ☐ Richmond ☐ Local Health Dept. ☒ Culpeper ☐ Lexington ☐ Virginia Beach ☐

PLANNING DISTRICT#

SAMPLING LOCATION: WELL

SOURCE TYPE: ☒ Public-Community ☐ Public-Noncommunity

COUNTY: FAUQUIER

CODE: 7-9

INDEPENDENT CITY:

FIELD TESTS: Temp: 15°C Cl2: mg/L CO2 mg/L

pH: 6.95 Alk: mg/L Hard.: 210 mg/L

P.W.S.I.D. #: 6 0 6 1 1 2 9 (10-16)

TRANSACTION CODE Ø 3 (17-18)

DATE COLLECTED: Mo 05 Day 02 Yr 94 (19-24)

TIME: 0830 AM (25-28)

COLLECTED BY: JIM BRADY EGGI

CONTAINER TYPE: ☐ Glass ☒ Plastic

PRESERVATIVE USED: ☒ None ☐ Ice ☐ Other

SAMPLE TYPE: D ☐ Reg. Dist. P ☐ Plant Tap R ☒ Raw Water C ☐ Check M ☐ MCL Check S ☐ Other (29)

DATE REC:

DATE REP: 5-16-94

CONT. I.D.	CONTAMINANT NAME (Maximum Allowable Level)	MTD.	S	ANALYSIS RESULTS	PRECISION	ANALYSIS DATE Mo Day Yr	A*
1925	pH (6.5-8.5)	135		Ø Ø 827 Ø Ø	±	05 03 94	BSO
1927	Alkalinity-Total	157		Ø 1351 Ø Ø Ø	±	/ / /	/
1928	Alkalinity-Bicarbonate	157		Ø 1351 Ø Ø Ø	±	/ / /	/
1929	Alkalinity-Carbonate	157		Ø 00 Ø Ø Ø	±	/ / /	/
1915	Hardness-EDTA	141		Ø Ø Ø	±		
1932	Acidity	157		Ø Ø Ø Ø	±		
1910	Corrosion Index	136		Ø Ø 1251 Ø Ø	±		
1025	Fluoride 1.8	107		Ø Ø 013 Ø Ø	±	05 05 94	BSO
1017	Chloride 250.	107		88 Ø Ø Ø	±	05 05 94	BSO
1905	Color (APHA) 15 CU	129	<	Ø Ø 1 Ø Ø Ø Ø	±	05 03 94	[illegible]
0100	Turbidity (FTU) 1.0	001		Ø 048 Ø Ø	±	05 02 94	[illegible]
1027	Hydrogen Sulfide 0.05	155	<	Ø Ø Ø 003 Ø Ø	±	05 03 94	[illegible]
1055	Sulfate 250.	137		Ø 822 Ø Ø Ø	±	05 05 94	BSO
1040	Nitrogen-Nitrate 10.0	163		Ø Ø Ø Ø	±		
1039	Nitrogen-Ammonia	147	<	Ø Ø 004 Ø Ø	±	05 04 94	ES
1038	Nitrogen-Nitrite	163		Ø Ø Ø Ø	±		
1041	Nitrogen-Total Kjeldahl	175		Ø Ø Ø Ø	±		
1043	Phosphate-Total (As P)	162		Ø Ø Ø Ø	±		
1044	Phosphate-Ortho (As P)	162	<	Ø Ø 005 Ø Ø	±	05 05 94	BSO
1926	Specific Conductance (u mhos/cm)	145		438 Ø Ø Ø	±	05 02 94	CF
1930	Total Dissolved Solids (185°C)	139		273 Ø Ø Ø Ø	±	05 12 94	BA/BG
1058	Volatile (550°C)	139		30 Ø Ø Ø Ø	±	/ / /	/
1059	Fixed (550°C)	139		243 Ø Ø Ø Ø	±	/ / /	/
1049	Silica (as SiO_2)	143		Ø 258 Ø Ø	±	05 04 94	ES
1997	Langlier Index 15°C	136		Ø Ø Ø 460 Ø	±		
	Bromide			006	±	05 05 94	BSO
					±		
30-33	LAB I.D. 01000 (34-38)	39-41	42	43-50	51-53	54-59	

PREPARED BY: B. Neal

The results on this report are expressed in mg/L unless otherwise indicated. *A = analyst's initials

432570

94 MAY -2 PM 1:07

BUR. OF CHEMISTRY

LAB # 1-6

NAME OF WATER SYSTEM: FCU ... ACADOWNROOK

REPORT RESULTS TO HEALTH ...

SOURCE: WELL B-4

OTHER INFORMATION: DEVELOPMENTAL

Name: VDH OFC. OF WATER PRG.
Address: 400 S. MAIN ST. 2nd FL.
City: CULPEPER, VA. 22701
Code: (703) 829-7349

Water Quality Report

NITRATE-N NITRITE-N HARDNESS

WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☐ Danville ☐ Richmond ☐ Local Health Dept. ☒ Culpeper ☐ Lexington ☐ Virginia Beach ☐

PLANNING DISTRICT#

SAMPLING LOCATION: WELL

SOURCE TYPE: ☒ Public-Community ☐ Public-Noncommunity

COUNTY: FAUQUIER

CODE: 7-9

INDEPENDENT CITY:

FIELD TESTS: Temp: 15 °C Cl2: mg/L CO2 mg/L
pH: 6.95 Alk: mg/L Hard.: 210 mg/L

P.W.S.I.D. #: 6 0 6 1 1 2 9 (10-16)

TRANSACTION CODE: Ø 3 (17-18)

DATE COLLECTED: Mo 05 Day 02 Yr 94 (19-24)

TIME: 0830 AM (25-28)

COLLECTED BY: JIM BRADY EGGI

CONTAINER TYPE: ☐ Glass ☒ Plastic

PRESERVATIVE USED: ☐ None ☐ Ice ☐ Other ☐ Nitric Acid ☒ Sulfuric Acid

SAMPLE TYPE: D ☐ Reg. Dist. P ☐ Plant Tap R ☒ Raw Water C ☐ Check M ☐ MCL Check ☐ Other (29)

CONT. I.D.	CONTAMINANT NAME (Maximum Allowable Level)	MTD.	S	ANALYSIS RESULTS	PRECISION	ANALYSIS DATE Mo	Day	Yr	A*
	Nitrate-Nitrogen			0.42	±	05	05	94	BSO
	Nitrite-Nitrogen		<	0.05	±	/	/	/	/
	Hardness (Total)			179	±	05	04	94	BSO
	Hardness, Calcium			130	±	/	/	/	/
30-33	LAB I.D. 34-38	39-41		43-50	51-53	54-59			

DATE REC:

DATE REP: 5-16-94

PREPARED BY: B. O'Neal

The results on this report are expressed in mg/L unless otherwise indicated. *A = analyst's initials

94 MAY -2 PM 1:07
BUR. OF MINISTRY
MAY 1994
RECEIVED
Office of Water Programs
Culpeper, Ohio

LAB 1-6

NAME OF WATER SYSTEM: F SA MEADOWBROOK
SOURCE: WELL - B4
OTHER INFORMATION: DEVELOPMENTAL

REPORT RESULTS TO HEALTH DEPT. LAB:
Name: VDH-OFC. OF WATER
Address: 400 S. MAIN ST., 2nd FL.
City: CULPEPER, VA. 22701
Zip Code: (703) 829-7340

Water Quality Report

METALS

WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☐ Danville ☐ Richmond ☐ Local Health Dept.
☒ Culpeper ☐ Lexington ☐ Virginia Beach ☐

PLANNING DISTRICT#
COUNTY: FAUQUIER
INDEPENDENT CITY:

SAMPLING LOCATION: WELL
CODE: 7-9

SOURCE TYPE:
☒ Public-Community
☐ Public-Noncommunity

FIELD TESTS: Temp: 15°C pH: 6.95
Cl2: mg/L Alk: mg/L
CO2 mg/L Hard.: 210 mg/L

P.W.S.I.D. #: 6 0 6 1 1 2 9 (10-16)
TRANSACTION CODE: 0 3 (17-18)

DATE COLLECTED
Mo Day Yr
0 5 0 2 9 4 (19-24)

TIME: 0 8 3 0 (25-28)

COLLECTED BY: TOM SADDY

CONTAINER TYPE:
☐ Glass
☐ Plastic

PRESERVATIVE USED:
☐ None
☐ Ice
☐ Other
☒ Nitric Acid

SAMPLE TYPE:
D ☐ Reg. Dist.
P ☐ Plant Tap
R ☐ Raw Water
C ☐ Check
M ☐ MCL Check
☐ Other
29

DATE REC:
DATE REP:

SAMPLE NUMBER : 32572 DCLS : BUREAU OF CHEMISTRY

CONT.I.D.	CONTAMINANT NAME (Maximum Allowable Level)		MTD	S	ANALYSIS RESULTS UG/ML
1005	Arsenic	0.05	125		< 0.010
1010	Barium	1.0	108		0.23
1015	Cadmium	0.010	125		< 0.0025
1020	Chromium	0.05	125		< 0.010
1030	Lead	0.05	125		< 0.005
1035	Mercury	0.002	106		< 0.0003
1045	Selenium	0.01	125		< 0.005
1050	Silver	0.05	125		< 0.010
1002	Aluminum		108		< 0.1
1016	Calcium		108		50
1028	Iron	0.30	108		< 0.01
1031	Magnesium		108		11
1032	Manganese	0.05	108		0.04
1051	Strontium		108		0.78
1095	Zinc	5.0	108		0.15
1022	Copper	1.0	108		0.01
1042	Potassium		108		0.6
1052	Sodium	20.	108		16
1036	Nickel		108		< 0.01
	Thallium		125		< 0.005
1919	Calcium Hardness		108		120
1918	Magnesium Hardness		136		46
1013	Ca & Mg Hardness		136		170
1015	Total Hardness***		136		170
1004	Antimony		125		< 0.010
1036	Beryllium		108		< 0.005

DATE REPORTED : 13-May-94 ANALYST : LOIS THACKER

LAB 1-6 | NAME WATER/STEP FOR FAUQUIER [illegible] REPORT RESULTS AUTHORIZED

SOURCE: WELL B-4

OTHER INFORMATION: DEVELOPMENTAL

Name: VDH OFC. OF WATER PRG.
Address: 400 S. MAIN ST., 2nd FL.
City: CULPEPER, VA 22701
Phone: (703) 829-7340

Water Quality Report

VOLATILE ORGANICS

WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: [ ] Abingdon [ ] Danville [ ] Richmond [ ] Local Health Dept
[X] Culpeper [ ] Lexington [ ] Virginia Beach [ ]

PLANNING DISTRICT #

SAMPLING LOCATION: WELL

SOURCE TYPE: [X] Public Community [ ] Public Noncommunity

COUNTY: FAUQUIER

CODE: 25

INDEPENDENT CITY:

FIELD TESTS: Temp: 15°C Cl2 mg/L CO2 mg/L
pH: 6.95 Alk. mg/L Hard. 210 mg/L

P.W.S.I.D. #: 6 0 6 1 1 2 9 (10-16)

TRANSACTION CODE 1 3 (17-18)

DATE COLLECTED: Mo 05 Day 02 Yr 94 (19-24)

TIME: 0330 AM (25-28)

COLLECTED BY: Jim BRADY EGGI

CONTAINER TYPE: [X] Glass [ ] Plastic

PRESERVATIVE USED: [ ] None [ ] Ice [ ] Other [ ] Nitric Acid

SAMPLE TYPE: D [ ] Reg Dist; P [ ] Plant Tap; R [X] Raw Water; C [ ] Check; M [ ] MCL Check; S [ ] Other (29)

CONT. I.D. (30-33)	CONTAMINANT NAME (Maximum Allowable Level)	MTD. (39-41)	S (42)	ANALYSIS RESULTS (43-50)	PRECISION (51-53)	ANALYSIS DATE Mo Day Yr (54-59)	A*
2900	Regulated VOCs	524	<	0000 0005	±	5 10 94	RC
2990	Benzene 0.001	524		0000	±		
2976	Vinyl Chloride 0.002	524		0000	±		
2982	Carbon Tetrachloride 0.005	524		0000	±		
2980	1,2-Dichloroethane 0.005	524		0000	±		
2984	Trichloroethylene 0.005	524		0000	±		
2977	1,1-Dichloroethylene 0.007	524		0000	±		
2981	1,1,1-Trichloroethane 0.20	524		0000	±		
2969	p-Dichlorobenzene 0.075	524		0000	±		
	-1,2-dichloroethane 0.07	524		0000	±		
	1,2-dichloropropane 0.005	524		0000	±		
	ethylbenzene 0.7	524		0000	±		
	chlorobenzene 0.1	524		0000	±		
	o-dichlorobenzene 0.6	524		0000	±		
	styrene 0.1	524		0000	±		
	rachloroethene 0.005	524		0000	±		
	toluene 1.	524		0000	±		
	-1,2-dichloroethene .1	524		0000	±		
	total xylenes 10.	524		0000	±		
2200	UNREGULATED VOCS	524	<	0000 0005	±		
	pH 2.7						
	LAB I.D. (34-38)						

DATE REC:

DATE REP: 5/23

PREPARED BY: T. Adams

The results on this report are expressed in mg/L unless otherwise indicated. *A = analyst's initials

RECEIVED MAY 1994 Office of Water Programs Culpeper Office

94 MAY -2 PM 1:07

4325774 VB

ME C TER S EM: WS ADOWROOK RE RESULTS TO HEALT FICIAL AT:

SOURCE: WELL B

OTHER INFORMATION: DEVELOPMENTAL

Name VDH-OFC. OF WATER PRG.
Address 400 S. MAIN ST., 2nd FL.
City CULPEPER, VA. 22701 Zip Code (703) 829-7340

Water Quality Report

RADIOLOGICAL

WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☒ Culpeper ☐ Danville ☐ Lexington ☐ Richmond ☐ Virginia Beach ☐ Local Health Dept. ☐

PLANNING DISTRICT#

SAMPLING LOCATION: WELL

SOURCE TYPE: ☒ Public-Community ☐ Public-Noncommunity

COUNTY: FAUQUIER

CODE: 79

INDEPENDENT CITY:

FIELD TESTS: Temp: 15°C Cl2: mg/L CO2 mg/L
pH: 6.95 Alk: mg/L Hard.: 210 mg/L

P.W.S.I.D. #: 6 0 6 1 1 2 9 (10 16)

TRANSACTION CODE Ø 3 (17 18)

DATE COLLECTED: Mo 05 Day 02 Yr 94 (19 24)

TIME: 0830 AM (25 28)

COLLECTED BY: JIM BRADY EGGI

CONTAINER TYPE: ☐ Glass ☒ Plastic

PRESERVATIVE USED: ☒ None ☐ Ice ☐ Other ☐ Nitric Acid

SAMPLE TYPE: D ☐ Reg. Dist. P ☐ Plant Tap R ☒ Raw Water C ☐ Check M ☐ MCL Check S ☐ Other (29)

CONT. I.D.	CONTAMINANT NAME (Maximum Allowable Level)	MTD.	S	ANALYSIS RESULTS	PRECISION	ANALYSIS DATE Mo Day Yr	A*
4000	Gross Alpha 15 pCi/L	419		Ø Ø 35 Ø Ø	± Ø 18	5 4 94	SA
4010	Gross Radium (Alpha) 5	420		Ø Ø Ø Ø	± Ø		
4020	Radium 226	421		Ø Ø ØØ Ø Ø	± Ø Ø2	6 1 94	SAD
4030	Radium-228	422		Ø Ø ØØ Ø Ø	± Ø Ø7	5 28 94	SAD
4100	Gross Beta 50 pCi/L	419		Ø Ø 16 Ø Ø	± Ø 13	5 4 94	SAD
4006	Uranium			Ø Ø Ø Ø	± Ø		
4102	Tritium				±		

LAB I.D. 0 4 0 0 0 (30 33, 34 38, 39 41, 42, 43 50, 51 53, 54 59)

JUN 1994 RECEIVED Office of Water Programs Culpeper Office

DATE REC: MAY 2 1994

DATE REP: JUN 2 1994

PREPARED BY: S. Dugas

The results on this report are expressed in pCi/L unless otherwise indicated. *A = analyst's initials

432573 YB

94 MAY -2 PM 1:07

BUR. OF CHEMISTRY

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	[ ] COLIFORM ABSENT / [ ] COLIFORM PRESENT COLLECT REPEATS	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	<2	05	04	94

L406440

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL ____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME	COLLECTED BY: JIM BRADY - EGGI	TELEPHONE (603) 279-4425 AREA CODE
	MEADOWBROOK well B-4	05	02	94		0700 AM	[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE	

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER County WATER + SANITATION
BEALTON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER

DGS 22-201 (REV. 2-92) — SEE REVERSE SIDE FOR COLLECTION INFORMATION

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	[ ] COLIFORM ABSENT / [ ] COLIFORM PRESENT COLLECT REPEATS	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	FC MPN <2 TC MPN <2	05	06	94

L406441

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL ____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME	COLLECTED BY: JIM BRADY - EGGI	TELEPHONE (603) 279-4425 AREA CODE
	MEADOWBROOK WELL B-4	05	02	94		0300 AM	[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE	

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER COUNTY WATER + SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER

SEE REVERSE SIDE FOR COLLECTION INFORMATION

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	[ ] COLIFORM ABSENT / [ ] COLIFORM PRESENT COLLECT REPEATS	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	FC MPN <2 Total Coliform <2	05	06	94

L406452

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL ____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME	COLLECTED BY: JIM BRADY	TELEPHONE (603) 279-4425 AREA CODE
	MEADOWBROOK well B-4	05	02	94		0500 AM	[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE	

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER County WATER + SANITATION
BEALETON REGIONAL WATER System
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER

SEE REVERSE SIDE FOR COLLECTION INFORMATION

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN - Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS	05	04	94
1 7	8 9	10 13		14 16	17 20	21 22		27

<22> L406438

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL _____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME
	MEADOWBROOK well B-4	05	02	94		06:00 AM
28 30		31		36	37	38 41

COLLECTED BY: JIM BRADY
TELEPHONE (603) 279-4425 AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER County WATER + SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. Box 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	DBW
42 46	

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER _____

SEE REVERSE SIDE FOR COLLECTION INFORMATION

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN - Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS	05	04	94
1 7	8 9	10 13		14 16	17 20	21 22		27

<22> L406437

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL _____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME
	MEADOWBROOK WELL B-4	05	02	94		08:00 AM
28 30		31		36	37	38 41

COLLECTED BY: JIM BRADY-EGGI
TELEPHONE (603) 279-4425 AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER County WATER + SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	DBW
42 46	

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER _____

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN - Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT [ ] COLLECT REPEATS	05	04	94
1 7	8 9	10 13		14 16	17 20	21 22		27

<22> L406436

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL _____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME
	MEADOW BROOK well B-4	05	02	94		01:00 AM
28 30		31		36	37	38 41

COLLECTED BY: JIM BRADY-EGGI
TELEPHONE (603) 279-4425 AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER County WATER + SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME / ANALYST
0100	DBW
42 46	

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER _____

1994 MAY -2 AM 11:26

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	[ ] COLIFORM ABSENT / [ ] COLIFORM PRESENT / [ ] COLLECT REPEATS	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	<2	05	04	94

L406450

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL _____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME	
	MEADOWBROOK well B-4	05	02	94		02:00	AM

COLLECTED BY: Jim BRADY-EGGI
TELEPHONE (603) 279-4425 AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER COUNTY WATER + SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID: 0100 — LABORATORY NAME / ANALYST

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER _____

SEE REVERSE SIDE FOR COLLECTION INFORMATION

A DEL_SPL_int

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	[ ] COLIFORM ABSENT / [ ] COLIFORM PRESENT / [ ] COLLECT REPEATS	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	<2	05	04	94

L406447

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL _____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME	
	MEADOWBROOK well B-4	05	02	94		12:00	AM

COLLECTED BY: JIM BRADY EGGI
TELEPHONE (603) 279-4425 AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER COUNTY WATER + SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID: 0100 — LABORATORY NAME / ANALYST

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER _____

SEE REVERSE SIDE FOR COLLECTION INFORMATION

A DEVELOP INITIAL

(REV. 2-92)

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	[ ] COLIFORM ABSENT / [ ] COLIFORM PRESENT / [ ] COLLECT REPEATS	DATE COMPLETED MO.	DAY	YR.
6061129	05		MPN-Coliform	MPN	<2	05	04	94

L406443

IS SUPPLY CHLORINATED? YES [ ] NO [X] RLS CL _____ PPM

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO.	DAY	YR.	SAMPLE TYPE	TIME	
	MEADOWBROOK well B-4	05	02	94		04:00	AM

COLLECTED BY: JIM BRADY
TELEPHONE (603) 279-4425 AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS
FAUQUIER COUNTY WATER + SANITATION
BEALETON REGIONAL WATER SYSTEM
P.O. BOX 3047
WARRENTON, VA 22186

LAB ID: 0100 — LABORATORY NAME / ANALYST

DCLS LAB USE ONLY
UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER _____

A DEVELOP INITIAL

DJT +C

RECEIVED MAY - 9 1994

NITON® corporation

ENVIRONMENTAL RESEARCH AND MEASUREMENT PRODUCTS FOR RADON AND LEAD

May 6, 1994

EMERY & GARRETT GRNDWTR
170 WAUKEWAN STREET
MEREDITH, NH 03253

SITE ADDRESS:
FCWSA-BEALETON SITE
BEALETON, VA 22712

Thank you for choosing NITON for your radon testing.

Your radon test results are listed by vial number in the space below. These radon results are strictly confidential, though some state laws require reporting (by zip code only in New England).

VIAL NUMBER	TEST LOCATION	TEST BEGIN	RADON CONCENTRATION
727148	WELL B-4	05/02/94	1300 pCi/L
727173	WELL B-3	05/02/94	1100 pCi/L

Radon-laden water can be a source of elevated levels of radon in indoor air, as radon gas escapes from the water into the air. The U.S. E.P.A. is currently setting guidelines for public water systems but has not set guidelines for acceptable levels of radon in private wells. Various states, including Massachusetts, Maine and New Hampshire, have set action guidelines of 10,000 to 20,000 pCi/L.

On average, 10,000 picoCuries of radon in a liter of water contributes about 1 pCi/L of radon to indoor air of a house. Thus, a level of 20,000 picoCuries in the water could result in adding 2 pCi/L to the level of radon in air. A level of 4,800 pCi/L in water could add .48 pCi/L to the air.

Additional information on radon in water may be found enclosed.

Our testing laboratory techniques have consistently passed the U.S. Environmental Protection Agency Proficiency Tests. No commercially available radon tests are more precise. If test instructions were followed, you can be confident that these results are accurate measures of the radon levels at the time the tests were done. Radon levels may fluctuate over time. NOTE: NITON IS NOT RESPONSIBLE FOR INACCURACIES CAUSED BY IMPROPER USE OF THE DETECTORS, INCORRECT OR INCOMPLETE TEST INFORMATION, OR DAMAGE TO THE DETECTORS IN TRANSIT.

P.O.Box 368 • Bedford, MA 01730-0368 • Telephone: 617-275-9275 • Fax: 617-275-2397

Printed on Recycled Paper

RECEIVED MAY 2 5 1994

DATE COLLECTED	DATE RECEIVED	DATE COMPLETED	SAMPLE CODE
05/02/94	05/05/94	05/18/94	9650326

NATIONAL TESTING LABORATORIES INC.
6555 Wilson Mills Road
Cleveland, OH 44143
(216) 449-2525

CUSTOMER ADDRESS

FCWSA-BEALETON SITE
BEALETON WELL
B-4
CONCLUSION OF PUMPING

DEALER ADDRESS

EMERY & GARRETT GROUNDWTR
170 WAUKEWAN ST
MEREDITH, NH 03253-

DRINKING WATER ANALYSIS RESULTS

NOTE: "*" indicates that the MCL (Maximum Contaminant Level) has been exceeded, or in the case of pH is either too high OR too low.
"ND" indicates that none of this contaminant has been detected at or above our detection level.
"**" Result may be invalid due to lack of "Time Collected" or because the sample has exceeded the 30-hour time frame.
"BD" Bacteria destroyed due to lack of collection information or because the sample has exceeded the 48-hour time frame.
TNTC-Too Numerous To Count NBS-No Bacteria Submitted

Analysis performed	MCL (mg/l)	Detection Level	Level Detected
Microbiological:			
Total coliform (organism/100ml)	0	0	BD
Inorganic chemicals - metals:			
Aluminum	0.2	0.1	ND
Arsenic	0.05	0.010	ND
Barium	2.0	0.30	ND
Cadmium	0.005	0.002	ND
Chromium	0.1	0.004	ND
Copper	1.3	0.004	ND
Iron	0.3	0.020	ND
Lead	0.015	0.002	ND
Manganese	0.05	0.004	0.039
Mercury	0.002	0.001	ND
Nickel	0.1	0.02	ND
Selenium	0.05	0.002	ND
Silver	0.1	0.002	ND
Sodium	---	1.0	23
Zinc	5.0	0.004	0.12
Inorganic chemicals - other, and physical factors:			
Alkalinity (Total as CaCO3)	---	10.0	140
Chloride	250	5.0	12
Fluoride	4.0	0.5	ND
Nitrate as N	10	0.5	0.5
Nitrite as N	1.0	0.5	ND
Sulfate	250	5.0	76
Hardness (suggested limit = 100)		10.0	160*
pH (Standard Units)	6.5-8.5	---	7.6
Total Dissolved Solids	500	20.0	260
Turbidity (Turbidity Units)	1.0	0.1	ND
Organic chemicals - trihalomethanes:			
Bromoform	---	0.004	ND
Bromodichloromethane	---	0.002	ND
Chloroform	---	0.002	ND
Dibromochloromethane	---	0.004	ND
Total THMs (sum of four above)	0.1	0.002	ND
Organic chemicals - volatiles:			
Benzene	0.005	0.001	ND
Vinyl Chloride	0.002	0.001	ND
Carbon Tetrachloride	0.005	0.001	ND
1,2-Dichloroethane	0.005	0.001	ND

Analysis performed	MCL (mg/l)	Detection Level	Level Detected
Trichloroethylene	0.005	0.001	ND
1,4-Dichlorobenzene	0.075	0.001	ND
1,1-Dichloroethylene	0.007	0.001	ND
1,1,1,-Trichloroethane	0.20	0.001	ND
Bromobenzene	---	0.002	ND
Bromomethane	---	0.002	ND
Chlorobenzene	0.1	0.001	ND
Chloroethane	---	0.002	ND
Chloromethane	---	0.002	ND
2-Dichlorotoluene	---	0.001	ND
4-Dichlorotoluene	---	0.001	ND
Dibromochloropropane (DBCP)	---	0.001	ND
Dibromomethane	---	0.002	ND
1,2-Dichlorobenzene	0.6	0.001	ND
1,3-Dichlorobenzene	---	0.001	ND
Dichlorodifluoromethane	---	0.002	ND
1,1-Dichloroethane	---	0.002	ND
Trans-1,2-Dichloroethylene	0.1	0.002	ND
cis-1,2-Dichloroethylene	0.07	0.002	ND
Dichloromethane	0.005	0.002	ND
1,2-Dichloropropane	0.005	0.002	ND
trans-1,3-Dichloropropene	---	0.002	ND
1-3-Dichloropropene	---	0.002	ND
2,2-Dichloropropane	---	0.002	ND
1,1-Dichloropropene	---	0.002	ND
1,3-Dichloropropane	---	0.002	ND
Ethylbenzene	0.7	0.001	ND
Ethylenedibromide (EDB)	---	0.001	ND
Styrene	0.1	0.001	ND
1,1,1,2-Tetrachloroethane	---	0.002	ND
1,1,2,2-Tetrachloroethane	---	0.002	ND
Tetrachloroethylene (PCE)	0.005	0.002	ND
1,2,3-Trichlorobenzene	---	0.002	ND
1,2,4-Trichlorobenzene	---	0.002	ND
1,1,2-Trichloroethane	0.005	0.002	ND
Trichlorofluoromethane	---	0.002	ND
1,2,3-Trichloropropane	---	0.002	ND
Toluene	1.0	0.001	ND
Xylene	10	0.001	ND

I certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods.

These test results are intended to be used for infromational purposes only and may not be used for regulatory compliance.

PRESIDENT, NATIONAL TESTING LABORATORIES, INC.

REV. 3-92

PRODUCTION WELL MS-5

Emery & Garrett Groundwater, Inc.

RECEIVED OCT 27 1994

NITON® corporation

ENVIRONMENTAL RESEARCH AND MEASUREMENT PRODUCTS FOR RADON AND LEAD

October 25, 1994

EMERY & GARRETT GRNDWTR
170 WAUKEWAN STREET
MEREDITH, NH 03253

SITE ADDRESS:
BEALETON, VA 22712

Thank you for choosing NITON for your radon testing.

Your radon test results are listed by vial number in the space below. These radon results are strictly confidential, though some state laws require reporting (by zip code only in New England).

VIAL NUMBER	TEST LOCATION	TEST BEGIN	RADON CONCENTRATION
727542	WELL MS-5 (NEW)	10/20/94	1600 pCi/L

Radon-laden water can be a source of elevated levels of radon in indoor air, as radon gas escapes from the water into the air. The U.S. E.P.A. is currently setting guidelines for public water systems but has not set guidelines for acceptable levels of radon in private wells. Various states, including Massachusetts, Maine and New Hampshire, have set action guidelines of 10,000 to 20,000 pCi/L.

On average, 10,000 picoCuries of radon in a liter of water contributes about 1 pCi/L of radon to indoor air of a house. Thus, a level of 20,000 picoCuries in the water could result in adding 2 pCi/L to the level of radon in air. A level of 4,800 pCi/L in water could add .48 pCi/L to the air.

Additional information on radon in water may be found enclosed.

Our testing laboratory techniques have consistently passed the U.S. Environmental Protection Agency Proficiency Tests. No commercially available radon tests are more precise. If test instructions were followed, you can be confident that these results are accurate measures of the radon levels at the time the tests were done. Radon levels may fluctuate over time. NOTE: NITON IS NOT RESPONSIBLE FOR INACCURACIES CAUSED BY IMPROPER USE OF THE DETECTORS, INCORRECT OR INCOMPLETE TEST INFORMATION, OR DAMAGE TO THE DETECTORS IN TRANSIT.

P.O.Box 368 • Bedford, MA 01730-0368 • Telephone: 617-275-9275 • Fax: 617-275-2397

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RECEIVED NOV 1 4 1994

DATE COLLECTED	DATE RECEIVED	DATE COMPLETED	SAMPLE CODE
10/18/94	10/20/94	11/07/94	9700671

NATIONAL TESTING LABORATORIES INC.
6555 Wilson Mills Road
Cleveland, OH 44143
(216) 449-2525

CUSTOMER ADDRESS

WELL MS-5 NEW
20.5 HOURS OF PUMPING
BEALETON VA

DEALER ADDRESS

EMERY & GARRETT GROUNDWTR
170 WAUKEWAN ST
MEREDITH, NH 03253-

DRINKING WATER ANALYSIS RESULTS

NOTE: "*" indicates that the MCL (Maximum Contaminant Level) has been exceeded, or in the case of pH is either too high OR too low.
"ND" indicates that none of this contaminant has been detected at or above our detection level.
"**" Result may be invalid due to lack of "Time Collected" or because the sample has exceeded the 30-hour time frame.
"BD" Bacteria destroyed due to lack of collection information or because the sample has exceeded the 48-hour time frame.
TNTC-Too Numerous To Count NBS-No Bacteria Submitted

Analysis performed	MCL (mg/l)	Detection Level	Level Detected
Microbiological:			
Total coliform (organism/100ml)	0	0	BD
Inorganic chemicals - metals:			
Aluminum	0.2	0.1	ND
Arsenic	0.05	0.010	ND
Barium	2.0	0.30	ND
Cadmium	0.005	0.002	ND
Chromium	0.1	0.004	ND
Copper	1.3	0.004	ND
Iron	0.3	0.020	ND
Lead	0.015	0.002	ND
Manganese	0.05	0.004	0.028
Mercury	0.002	0.001	ND
Nickel	0.1	0.02	ND
Selenium	0.05	0.002	ND
Silver	0.1	0.002	ND
Sodium	---	1.0	18
Zinc	5.0	0.004	0.046
Inorganic chemicals - other, and physical factors:			
Alkalinity (Total as CaCO3)	---	10.0	145
Chloride	250	5.0	16
Fluoride	4.0	0.5	ND
Nitrate as N	10	0.5	ND
Nitrite as N	1.0	0.5	ND
Sulfate	250	5.0	7
Hardness (suggested limit = 100)		10.0	105*
pH (Standard Units)	6.5-8.5	---	8.0
Total Dissolved Solids	500	20.0	170
Turbidity (Turbidity Units)	1.0	0.1	ND
Organic chemicals - trihalomethanes:			
Bromoform	---	0.004	ND
Bromodichloromethane	---	0.002	ND
Chloroform	---	0.002	ND
Dibromochloromethane	---	0.004	ND
Total THMs (sum of four above)	0.1	0.002	ND
Organic chemicals - volatiles:			
Benzene	0.005	0.001	ND
Vinyl Chloride	0.002	0.001	ND
Carbon Tetrachloride	0.005	0.001	ND
1,2-Dichloroethane	0.005	0.001	ND

Analysis performed	MCL (mg/l)	Detection Level	Level Detected
Trichloroethylene	0.005	0.001	ND
1,4-Dichlorobenzene	0.075	0.001	ND
1,1-Dichloroethylene	0.007	0.001	ND
1,1,1,-Trichloroethane	0.20	0.001	ND
Bromobenzene	---	0.002	ND
Bromomethane	---	0.002	ND
Chlorobenzene	0.1	0.001	ND
Chloroethane	---	0.002	ND
Chloromethane	---	0.002	ND
2-Chlorotoluene	---	0.001	ND
4-Chlorotoluene	---	0.001	ND
Dibromochloropropane (DBCP)	---	0.001	ND
Dibromomethane	---	0.002	ND
1,2-Dichlorobenzene	0.6	0.001	ND
1,3-Dichlorobenzene	---	0.001	ND
Dichlorodifluoromethane	---	0.002	ND
1,1-Dichloroethane	---	0.002	ND
Trans-1,2-Dichloroethylene	0.1	0.002	ND
cis-1,2-Dichloroethylene	0.07	0.002	ND
Dichloromethane	0.005	0.002	ND
1,2-Dichloropropane	0.005	0.002	ND
trans-1,3-Dichloropropene	---	0.002	ND
1,3-Dichloropropene	---	0.002	ND
2,2-Dichloropropane	---	0.002	ND
1,1-Dichloropropene	---	0.002	ND
1,3-Dichloropropane	---	0.002	ND
Ethylbenzene	0.7	0.001	ND
Ethylenedibromide (EDB)	---	0.001	ND
Styrene	0.1	0.001	ND
1,1,1,2-Tetrachloroethane	---	0.002	ND
1,1,2,2-Tetrachloroethane	---	0.002	ND
Tetrachloroethylene (PCE)	0.005	0.002	ND
1,2,4-Trichlorobenzene	---	0.002	ND
1,2,3-Trichlorobenzene	---	0.002	ND
1,1,2-Trichloroethane	0.005	0.002	ND
Trichlorofluoromethane	---	0.002	ND
1,2,3-Trichloropropane	---	0.002	ND
Toluene	1.0	0.001	ND
Xylene	10	0.001	ND

Organic chemicals - pesticides, herbicides & PCBs

Alachlor	0.002	0.001	ND
Atrazine	0.003	0.002	ND
Chlordane	0.002	0.001	ND
Aldrin	---	0.002	ND
Dichloran	---	0.002	ND
Dieldren	---	0.001	ND
Endrin	0.002	0.0001	ND
Heptachlor	0.0004	0.0004	ND
Heptachlor Epoxide	0.0002	0.0001	ND
Hexachlorobenzene	0.001	0.0005	ND
Hexachlorocyclopentadiene	0.05	0.001	ND
Lindane	0.0002	0.0002	ND
Methoxychlor	0.04	0.002	ND
PCBs	0.0005	0.0005	ND
Pentachloronitrobenzene	---	0.002	ND
Silvex 2,4,5-TP	0.05	0.005	ND
Simazine	0.004	0.002	ND
Toxaphene	0.003	0.001	ND
Trifluralin	---	0.002	ND
2,4-D	0.07	0.010	ND

I certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods.

These test results are intended to be used for informational purposes only and may not be used for regulatory compliance.

PRESIDENT, NATIONAL TESTING LABORATORIES, INC.

REV. 3-92

DATE COLLECTED	DATE RECEIVED	DATE COMPLETED	SAMPLE CODE
10/20/94	10/24/94	11/10/94	9700776

NATIONAL TESTING LABORATORIES INC.
6555 Wilson Mills Road
Cleveland, OH 44143
(216) 449-2525

RECEIVED NOV 15 1994

CUSTOMER ADDRESS
MS-5
NEW
END OF PUMPING TEST

WELL WATER

DEALER ADDRESS
EMERY & GARRETT GROUNDWTR
170 WAUKEWAN ST
MEREDITH, NH 03253-

DRINKING WATER ANALYSIS RESULTS

NOTE: "*" indicates that the MCL (Maximum Contaminant Level) has been exceeded, or in the case of pH is either too high OR too low.
"ND" indicates that none of this contaminant has been detected at or above our detection level.
"**" Result may be invalid due to lack of "Time Collected" or because the sample has exceeded the 30-hour time frame.
"BD" Bacteria destroyed due to lack of collection information or because the sample has exceeded the 48-hour time frame.
TNTC-Too Numerous To Count NBS-No Bacteria Submitted

Analysis performed	MCL (mg/l)	Detection Level	Level Detected
Microbiological:			
Total coliform (organism/100ml)	0	0	BD
Inorganic chemicals - metals:			
Aluminum	0.2	0.1	ND
Arsenic	0.05	0.010	0.012
Barium	2.0	0.30	ND
Cadmium	0.005	0.002	ND
Chromium	0.1	0.004	ND
Copper	1.3	0.004	ND
Iron	0.3	0.020	ND
Lead	0.015	0.002	ND
Manganese	0.05	0.004	0.033
Mercury	0.002	0.001	ND
Nickel	0.1	0.02	ND
Selenium	0.05	0.002	ND
Silver	0.1	0.002	ND
Sodium	---	1.0	18
Zinc	5.0	0.004	0.045
Inorganic chemicals - other, and physical factors:			
Alkalinity (Total as CaCO3)	---	10.0	140
Chloride	250	5.0	11
Fluoride	4.0	0.5	ND
Nitrate as N	10	0.5	ND
Nitrite as N	1.0	0.5	ND
Sulfate	250	5.0	14
Hardness (suggested limit = 100)		10.0	115*
pH (Standard Units)	6.5-8.5	---	7.5
Total Dissolved Solids	500	20.0	173
Turbidity (Turbidity Units)	1.0	0.1	ND
Organic chemicals - trihalomethanes:			
Bromoform	---	0.004	ND
Bromodichloromethane	---	0.002	ND
Chloroform	---	0.002	ND
Dibromochloromethane	---	0.004	ND
Total THMs (sum of four above)	0.1	0.002	ND
Organic chemicals - volatiles:			
Benzene	0.005	0.001	ND
Vinyl Chloride	0.002	0.001	ND
Carbon Tetrachloride	0.005	0.001	ND
1,2-Dichloroethane	0.005	0.001	ND

Analysis performed	MCL (mg/l)	Detection Level	Level Detected
Trichloroethylene	0.005	0.001	ND
1,4-Dichlorobenzene	0.075	0.001	ND
1,1-Dichloroethylene	0.007	0.001	ND
1,1,1,-Trichloroethane	0.20	0.001	ND
Bromobenzene	---	0.002	ND
Bromomethane	---	0.002	ND
Chlorobenzene	0.1	0.001	ND
Chloroethane	---	0.002	ND
Chloromethane	---	0.002	ND
2-Dichlorotoluene	---	0.001	ND
4-Dichlorotoluene	---	0.001	ND
Dibromochloropropane (DBCP)	---	0.001	ND
Dibromomethane	---	0.002	ND
1,2-Dichlorobenzene	0.6	0.001	ND
1,3-Dichlorobenzene	---	0.001	ND
Dichlorodifluoromethane	---	0.002	ND
1,1-Dichloroethane	---	0.002	ND
Trans-1,2-Dichloroethylene	0.1	0.002	ND
cis-1,2-Dichloroethylene	0.07	0.002	ND
Dichloromethane	0.005	0.002	ND
1,2-Dichloropropane	0.005	0.002	ND
trans-1,3-Dichloropropene	---	0.002	ND
1-3-Dichloropropene	---	0.002	ND
2,2-Dichloropropane	---	0.002	ND
1,1-Dichloropropene	---	0.002	ND
1,3-Dichloropropane	---	0.002	ND
Ethylbenzene	0.7	0.001	ND
Ethylenedibromide (EDB)	---	0.001	ND
Styrene	0.1	0.001	ND
1,1,1,2-Tetrachloroethane	---	0.002	ND
1,1,2,2-Tetrachloroethane	---	0.002	ND
Tetrachloroethylene (PCE)	0.005	0.002	ND
1,2,3-Trichlorobenzene	---	0.002	ND
1,2,4-Trichlorobenzene	---	0.002	ND
1,1,2-Trichloroethane	0.005	0.002	ND
Trichlorofluoromethane	---	0.002	ND
1,2,3-Trichloropropane	---	0.002	ND
Toluene	1.0	0.001	ND
Xylene	10	0.001	ND
Organic chemicals - pesticides, herbicides & PCBs			
Alachlor	0.002	0.001	ND
Atrazine	0.003	0.002	ND
Chlordane	0.002	0.001	ND
Aldrin	---	0.002	ND
Dichloran	---	0.002	ND
Dieldren	---	0.001	ND
Endrin	0.002	0.0001	ND
Heptachlor	0.0004	0.0004	ND
Heptachlor Epoxide	0.0002	0.0001	ND
Hexachlorobenzene	0.001	0.0005	ND
Hexachlorocyclopentadiene	0.05	0.001	ND
Lindane	0.0002	0.0002	ND
Methoxychlor	0.04	0.002	ND
PCBs	0.0005	0.0005	ND
Pentachloronitrobenzene	---	0.002	ND
Silvex 2,4,5-TP	0.05	0.005	ND
Simazine	0.004	0.002	ND
Toxaphene	0.003	0.001	ND
Trifluralin	---	0.002	ND
2,4-D	0.07	0.010	ND

I certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods.

These test results are intended to be used for informational purposes only and may not be used for regulatory compliance.

PRESIDENT, NATIONAL TESTING LABORATORIES, INC.

REV. 3-92

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	[ ]COLIFORM ABSENT [ ]COLIFORM PRESENT [ ]COLLECT REPEATS	DATE COMPLETED MO.	DAY	YR.
6061129	05		coliform	MPN	<2	10	22	94

IS SUPPLY CHLORINATED? YES [ ] RES CL _____ PPM; NO [✓]

L41,970

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO	DAY	YR	SAMPLE TYPE	TIME
	Meadow Brook MS-5 New Well Development	10	20	94	W	1100

COLLECTED BY: CL

TELEPHONE (703) 439-3211 (AREA CODE)

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS: FAUQUIER USA, Culpeper ST, Warrenton, VA 22186

LAB ID.	LABORATORY NAME/ANALYST
0100	[illegible]

DCLS LAB USE ONLY

UNSATISFACTORY: PLEASE RESAMPLE
[ ]INSUFFICIENT DATA [ ]NO FORM ENCLOSED [ ]LEAKED [ ]NO PWSID
[ ]INSUFFICIENT QUANTITY [ ]INCORRECT CONTAINER [ ]RECEIVED OUT OF DATE
[ ]CONFLUENT GROWTH [ ]TNTC [ ]TURBID CULTURE
[ ]OTHER

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	[ ]COLIFORM ABSENT [ ]COLIFORM PRESENT [ ]COLLECT REPEATS	DATE COMPLETED MO.	DAY	YR.
6061129	05		coliform	MPN	<2	10	22	94

IS SUPPLY CHLORINATED? YES [ ] RES CL _____ PPM; NO [✓]

L41,971

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO	DAY	YR	SAMPLE TYPE	TIME
	Meadow Brook MS-5 New Well Development	10	20	94	W	1000

COLLECTED BY: CL

TELEPHONE (703) 439-3211 (AREA CODE)

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS: FAUQUIER USA, Culpeper ST, Warrenton, VA 22186

LAB ID.	LABORATORY NAME/ANALYST
0100	[illegible]

DCLS LAB USE ONLY

UNSATISFACTORY: PLEASE RESAMPLE
[ ]INSUFFICIENT DATA [ ]NO FORM ENCLOSED [ ]LEAKED [ ]NO PWSID
[ ]INSUFFICIENT QUANTITY [ ]INCORRECT CONTAINER [ ]RECEIVED OUT OF DATE
[ ]CONFLUENT GROWTH [ ]TNTC [ ]TURBID CULTURE
[ ]OTHER

BACTERIOLOGICAL ANALYSIS INPUT FORM — DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	[ ]COLIFORM ABSENT [ ]COLIFORM PRESENT [ ]COLLECT REPEATS	DATE COMPLETED MO.	DAY	YR.
6061129	05		coliform	MPN	<2	10	22	94

IS SUPPLY CHLORINATED? YES [ ] RES CL _____ PPM; NO [✓]

L41,972

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO	DAY	YR	SAMPLE TYPE	TIME
	Meadow Brook MS-5 New Well Development	10	20	94	W	0900

COLLECTED BY: CL

TELEPHONE (703) 439-3211 (AREA CODE)

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS: FAUQUIER USA, Culpeper ST, Warrenton, VA 22186

LAB ID.	LABORATORY NAME/ANALYST
0100	[illegible]

DCLS LAB USE ONLY

UNSATISFACTORY: PLEASE RESAMPLE
[ ]INSUFFICIENT DATA [ ]NO FORM ENCLOSED [ ]LEAKED [ ]NO PWSID
[ ]INSUFFICIENT QUANTITY [ ]INCORRECT CONTAINER [ ]RECEIVED OUT OF DATE
[ ]CONFLUENT GROWTH [ ]TNTC [ ]TURBID CULTURE
[ ]OTHER

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD		DATE COMPLETED MO.	DAY	YR.
6061129	05		Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT COLLECT REPEATS	10	22	94

(<2) L414967

IS SUPPLY CHLORINATED? YES [ ] RES CL _____ PPM; NO [✓]

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO	DAY	YR	SAMPLE TYPE	TIME
	Meadowbrook Sub-div MS-5 New Well Developmental	10	20	94	W	0500

COLLECTED BY: CL
TELEPHONE (703) 439 3211
AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

LAB ID.	LABORATORY NAME/ANALYST
0100	[signature]

PUBLIC WATER SYSTEM NAME AND ADDRESS
Fauquier WSA
Culpeper ST
Warrenton, VA 22186

UNSATISFACTORY: PLEASE RESAMPLE — DCLS LAB USE ONLY
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER

1994 OCT 20 PM 2:22

BACTERIOLOGICAL ANALYSIS INPUT FORM

DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD		DATE COMPLETED MO.	DAY	YR.
6061129	05		Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT COLLECT REPEATS	10	22	94

(<2) L414968

IS SUPPLY CHLORINATED? YES [ ] RES CL _____ PPM; NO [✓]

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO	DAY	YR	SAMPLE TYPE	TIME
	Meadowbrook Sub-div MS-5 New Well Developmental	10	20	94	W	0400

COLLECTED BY: CL
TELEPHONE (703) 439-3211
AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

LAB ID.	LABORATORY NAME/ANALYST
0100	[signature]

PUBLIC WATER SYSTEM NAME AND ADDRESS
Fauquier WSA
Culpeper ST
Warrenton, VA 22186

UNSATISFACTORY: PLEASE RESAMPLE — DCLS LAB USE ONLY
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER

1994 OCT 20 PM 2:22

BACTERIOLOGICAL ANALYSIS INPUT FORM

DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD		DATE COMPLETED MO.	DAY	YR.
6061129	05		Coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT COLLECT REPEATS	10	22	94

(<2) L414969

IS SUPPLY CHLORINATED? YES [ ] RES CL _____ PPM; NO [✓]

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO	DAY	YR	SAMPLE TYPE	TIME
	Meadowbrook Sub-div MS-5 New Well Developmental	10	20	94	W	0300

COLLECTED BY: CL
TELEPHONE (703) 439-3211
AREA CODE
[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

LAB ID.	LABORATORY NAME/ANALYST
0100	[signature]

PUBLIC WATER SYSTEM NAME AND ADDRESS
Fauquier WSA
Culpeper ST
WARRENTON, VA 22186

UNSATISFACTORY: PLEASE RESAMPLE — DCLS LAB USE ONLY
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER

1994 OCT 20 PM 2:22

SEE REVERSE SIDE FOR COLLECTION INFORMATION

BACTERIOLOGICAL ANALYSIS INPUT FORM

DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		coliform	MPN	[ ] COLIFORM ABSENT [ ] COLIFORM PRESENT COLLECT REPEATS	10	22	94
1 7	8 9	10 13		14 16	17 20	21	22	27

<2 L4 14964

IS SUPPLY CHLORINATED? YES [ ] RES CL _____ PPM; NO [✓]

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO	DAY	YR	SAMPLE TYPE	TIME
	Meadow brook sub-div MS-5 new well Developmental	10	20	94	W	0800
28 30		31		36	37	38 41

COLLECTED BY: CC

TELEPHONE (703) 439 3211 (AREA CODE)

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS:
FAUQUIER WSA
Culpeper ST
WARRENTON VA 22186

LAB ID.	LABORATORY NAME/ANALYST
0100	[signature]
42 46	

DCLS LAB USE ONLY

UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER _____

BACTERIOLOGICAL ANALYSIS INPUT FORM

DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		coliform	MPN	[✓] COLIFORM ABSENT [ ] COLIFORM PRESENT COLLECT REPEATS	10	22	94
1 7	8 9	10 13		14 16	17 20	21	22	27

<2 L4 14965

IS SUPPLY CHLORINATED? YES [ ] RES CL _____ PPM; NO [✓]

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO	DAY	YR	SAMPLE TYPE	TIME
	Meadow brook sub-div MS-5 new well Developmental	10	20	94	W	0700
28 30		31		36	37	38 41

COLLECTED BY: CC

TELEPHONE (~~[illegible]~~ 703 439 3211 (AREA CODE)

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS:
FAUQUIER WSA
Culpeper ST
WARRENTON VA 22186

LAB ID.	LABORATORY NAME/ANALYST
0100	[signature]
42 46	

DCLS LAB USE ONLY

UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE
[ ] OTHER _____

BACTERIOLOGICAL ANALYSIS INPUT FORM

DO NOT WRITE IN SHADED AREA - DCLS LAB USE ONLY

PWS ID (MUST PROVIDE)	TRANS CODE	CONTAMINANT CODE	CONTAMINANT NAME	LAB ANALYSIS - RESULT METHOD	LAB ANALYSIS - RESULT	DATE COMPLETED MO.	DAY	YR.
6061129	05		coliform	MPN	[✓] COLIFORM ABSENT [ ] COLIFORM PRESENT COLLECT REPEATS	10	22	94
1 7	8 9	10 13		14 16	17 20	21	22	27

<2 L4 14966

IS SUPPLY CHLORINATED? YES [ ] RES CL _____ PPM; NO [✓]

SAMPLE LOCATION CODE	LOCATION NAME	DATE COLLECTED MO	DAY	YR	SAMPLE TYPE	TIME
	Meadow brook sub-div MS-5 new well Developmental	10	20	94	W	0600
28 30		31		36	37	38 41

COLLECTED BY: CC

TELEPHONE (703 439 3211 (AREA CODE)

[ ] MARK HERE IF PREVIOUS SAMPLE WAS CONFLUENT GROWTH, TNTC, OR TURBID CULTURE

PUBLIC WATER SYSTEM NAME AND ADDRESS:
FAUQUIER WSA
Culpeper ST
WARRENTON, VA 22186

LAB ID.	LABORATORY NAME/ANALYST
0100	[signature]
42 46	

DCLS LAB USE ONLY

UNSATISFACTORY: PLEASE RESAMPLE
[ ] INSUFFICIENT DATA [ ] NO FORM ENCLOSED [ ] LEAKED [ ] NO PWSID
[ ] INSUFFICIENT QUANTITY [ ] INCORRECT CONTAINER [ ] RECEIVED OUT OF DATE
[ ] CONFLUENT GROWTH [ ] TNTC [ ] TURBID CULTURE

SEE REVERSE SIDE FOR COLLECTION INFORMATION

PWSID# 6061129

BOC# 462710

COMMONWEALTH of VIRGINIA

DEPARTMENT OF GENERAL SERVICES

BB

DIVISION OF
CONSOLIDATED LABORATORY SERVICES

TDD (804) 786-6152

1 NORTH 14TH S
RICHMOND, VIRGINIA

DATE: 10/24/94

TO: V.D.H. Office of Water Programs
400 S Main St. 2nd Floor
Culpeper, VA 22701

COMMONWEALTH OF V
PWS ID # 6061129
DATE COLLECTED 10-20-94
TIME COLLECTED 11:06
COLLECTED BY CL
DESCRIPTION MS-5
Well Head

FROM: LOUIS H. BAKER JR. SECTION SUPERVISOR, CENTRAL RECEIVING

SUBJECT: SAMPLE REJECTION

WE ARE REJECTING YOUR SAMPLE(S) FOR THE FOLLOWING REASON(S):

____ NO SAMPLE WAS RECEIVED.

____ THE SAMPLE WAS RECEIVED WITHOUT PROPER PAPERWORK.

X THE SAMPLE WAS RECEIVED IN THE WRONG CONTAINER.

____ THE CONTAINER WAS BROKEN OR LEAKED IN TRANSIT.

X THE SAMPLE WAS NOT PROPERLY PRESERVED AT 4°C. (SAMPLES OF METALS AND RADIOLOGICAL ARE THE ONLY EXCEPTIONS).

____ THE NAME OF THE WATER SYSTEM WAS NOT INDICATED.

____ THERE WAS INSUFFICIENT SAMPLE.

____ THE PWSID # (IF APPLICABLE) WAS NOT INDICATED.

____ THE COLLECTION DATE ____ OR TIME ____ WAS NOT INDICATED.

____ THE PAPERWORK DID NOT MATCH THE INFROMATION ON THE SAMPLE.

____ OTHER: _____

IT WILL BE NECESSARY FOR YOU TO RESAMPLE YOUR WATER SUPPLY. PLEASE BE SURE TO FILL OUT THE FORM(S) COMPLETELY AND INCLUDE YOUR FULL ADDRESS.

SAMPLE TO RESUBMIT: Inorganic Sample Kit

1-6

NAME WATER SYSTEM Avo

SOURCE: Well MS-5 New

OTHER INFORMATION: Meadowbrook Sub-division Developmental

REPORT RESULTS TO HEALTH OFFICIAL AT:
Name
Address
City
VIRGINIA DEPARTMENT OF HEALTH
OFFICE OF WATER PROGRAMS
400 S. MAIN ST., 2ND FLOOR
CULPEPER, VA 22701

Water Quality Report

INORGANIC BB

WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☐ Danville ☐ Richmond ☐ Local Health Dept.
☑ Culpeper ☐ Lexington ☐ Virginia Beach ☐

PLANNING DISTRICT# LEE

SAMPLING LOCATION: Well Head

SOURCE TYPE: ☑ Public-Community ☐ Public-Noncommunity

COUNTY: Fauquier

CODE: 7-9

INDEPENDENT CITY: Bealeton

FIELD TESTS: Temp: Cl2: mg/L CO2 mg/L
pH: Alk: mg/L Hard: mg/L

P.W.S.I.D.#: 6 0 6 1 1 2 9 (10-16)

TRANSACTION CODE: 0 3 (17-18)

DATE COLLECTED: Mo 10 Day 20 Yr 1994 (19-24)

TIME: 1106 (25-28)

COLLECTED BY: CC

CONTAINER TYPE: ☐ Glass ☑ Plastic

PRESERVATIVE USED: ☑ None ☐ Ice ☐ Other

SAMPLE TYPE: D ☐ Reg. Dist. P ☐ Plant Tap R ☑ Raw Water C ☐ Check M ☐ MCL Check S ☐ Other (29)

CONT. I.D.	CONTAMINANT NAME (Maximum Allowable Level)	MTD.	S	ANALYSIS RESULTS	PRECISION	ANALYSIS DATE Mo Day Yr	A*
1925	pH (6.5-8.5)	135		Ø Ø Ø	±		
1927	Alkalinity-Total	157		Ø Ø Ø Ø	±		
1928	Alkalinity-Bicarbonate	157		Ø Ø Ø Ø	±		
1929	Alkalinity-Carbonate	157		Ø Ø Ø Ø	±		
1915	Hardness-EDTA	141		Ø Ø Ø	±		
1932	Acidity	157		Ø Ø Ø Ø	±		
1910	Corrosion Index	136		Ø Ø Ø Ø	±		
1025	Fluoride 1.8	107		Ø Ø Ø Ø	±		
1017	Chloride 250.	107		Ø Ø Ø Ø	±		
1905	Color (APHA) 15 CU	129		Ø Ø Ø Ø Ø	±		
0100	Turbidity (FTU) 1.0	001		Ø Ø Ø	±		
1027	Hydrogen Sulfide 0.05	155		Ø Ø Ø Ø Ø	±		
1055	Sulfate 250.	137		Ø Ø Ø Ø	±		
1040	Nitrogen-Nitrate 10.0	163		Ø Ø Ø Ø	±		
1039	Nitrogen-Ammonia	147		Ø Ø Ø Ø	±		
1038	Nitrogen-Nitrite	163		Ø Ø Ø Ø	±		
1041	Nitrogen-Total Kjeldahl	175		Ø Ø Ø Ø	±		
1043	Phosphate-Total (As P)	162		Ø Ø Ø Ø	±		
1044	Phosphate-Ortho (As P)	162		Ø Ø Ø Ø	±		
1926	Specific Conductance (u mhos/cm)	145		Ø Ø Ø Ø	±		
1930	Total Dissolved Solids (185°C)	139		Ø Ø Ø Ø	±		
1058	Volatile (550°C)	139		Ø Ø Ø Ø	±		
1059	Fixed (550°C)	139		Ø Ø Ø Ø	±		
1049	Silica (as SiO_2)	143		Ø Ø Ø Ø	±		
1997	Langlier Index 15°C	136		Ø Ø Ø Ø	±		
					±		

30-33 LAB I.D. 0 1 0 0 0 (34-38) 39-41 42 43-50 51-53 54-59

DATE REC:

DATE REP:

PREPARED BY:

The results on this report are expressed in mg/L unless otherwise indicated. *A = analyst's initials

DEC-7-94 WED 16:15 VDH-OWP CULPEPER P.09
94 OCT 24 AM 10:40
01127 4

LAB #: 1-6

NAME OF WATER SYSTEM: FAUQUIER COUNTY VA — PORT RULTY HEALTH FICI

SOURCE: WELL MS-5 New

OTHER INFORMATION: Meadowbrook Sub-division Development

Name: VIRGINIA DEPARTMENT OF HEALTH
Address: OFFICE OF WATER PROGRAMS
City: 400 S. MAIN ST., 2ND FLOOR
Zip Code: CULPEPER, VA 22701

Water Quality Report

RADIOLOGICAL

WSE 50

BB

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☑ Culpeper ☐ Danville ☐ Lexington ☐ Richmond ☐ Virginia Beach ☐ Local Health Dept. ☐

PLANNING DISTRICT#: LEE

SAMPLING LOCATION: Well Head

SOURCE TYPE: ☑ Public-Community ☐ Public-Noncommunity

COUNTY: FAUQUIER

INDEPENDENT CITY: Bealeton

CODE: ☐☐☐ 7-9

FIELD TESTS: Temp: pH: Cl2: mg/L Alk: mg/L CO2 mg/L Hard.: mg/L

P.W.S.I.D.#: 6 0 6 1 1 2 9 (10-16)

TRANSACTION CODE: Ø 3 (17-18)

DATE COLLECTED: Mo 10 Day 20 Yr 1994 (19-24)

TIME: 1 1 0 5 (25-28)

COLLECTED BY: C.L.

CONTAINER TYPE: ☐ Glass ☑ Plastic

PRESERVATIVE USED: ☑ None ☐ Ice ☐ Other ☐ Nitric Acid

SAMPLE TYPE: D ☐ Reg. Dist. P ☐ Plant Tap R ☑ Raw Water C ☐ Check M ☐ MCL Check S ☐ Other (29)

CONT. I.D.	CONTAMINANT NAME (Maximum Allowable Level)	MTD.	S	ANALYSIS RESULTS	PRECISION	ANALYSIS DATE Mo Day Yr	A*
4 0 0 0	Gross Alpha 5 pCi/L	4 1 9		Ø Ø 10 Ø Ø	7 Ø 11	10 26 94	XD
4 0 1 0	Gross Radium (Alpha)	4 2 0		Ø Ø Ø Ø	± Ø		
4 0 2 0	Radium-226	4 2 1		Ø Ø Ø Ø	± Ø		
4 0 3 0	Radium-228	4 2 2		Ø Ø Ø Ø	± Ø		
4 1 0 0	Gross Beta 50 pCi/L	4 1 9		Ø Ø 14 Ø Ø	± Ø 12	10 26 94	XD
4 0 0 6	Uranium			Ø Ø Ø Ø	± Ø		
4 1 0 2	Tritium				±		

(30-33) LAB I.D. 0 4 0 0 0 (34-38) (39-41) (42) (43-50) (51-53) (54-59)

RECEIVED NOV 1994 Office of Water Programs Culpeper Office

DATE REC: OCT 24 1994

DATE REP: OCT 27 1994

PREPARED BY: S. Dugan

The results on this report are expressed in pCi/ Lunless otherwise indicated. *A = analyst's initials

DEC-1-94 THU 10:08 VDH-OWP CULPEPER P.02

OCT 24 '94 11:08 P.02

LAB #: 1-8

NAME OF WATER SYSTEM: Fauquier WSA

SOURCE: Well MS-5 New

OTHER INFORMATION: Meadowbrook Subdivision Developmental

REPORT RESULTS TO HEALTH OFFICIAL AT:

Name: VIRGINIA DEPARTMENT OF HEALTH

Address: OFFICE OF WATER PROGRAMS

City: 400 S. MAIN ST., 2ND FLOOR

Zip Code: CULPEPER, VA 22701

Water Quality Report

METALS BB

WSE 50

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☐ Danville ☐ Richmond ☐ Local Health Dept. ☑ Culpeper ☐ Lexington ☐ Virginia Beach ☐

PLANNING DISTRICT#: Lee

SAMPLING LOCATION: Well Head

SOURCE TYPE: ☑ Public-Community ☐ Public-Noncommunity

COUNTY: Fauquier

CODE: 7-9

INDEPENDENT CITY: BEALETON

FIELD TESTS: Temp: O_2: mg/L CO_2: mg/L

pH: Alk: mg/L Hard.: mg/L

P.W.S.I.D. #: 6 0 6 1 1 2 9 (10-16)

TRANSACTION CODE: 0 3 (17-18)

SAMPLE NUMBER : 62711 DCLS : BUREAU OF CHEMISTRY

DATE COLLECTED: Mo 10 Day 20 Yr 1994 (19-24)

TIME: 1108 (25-28)

COLLECTED BY: CL

CONTAINER TYPE: ☐ Glass ☐ Plastic

PRESERVATIVE USED: ☐ None ☐ Ice ☐ Other ☐ Nitric Acid

SAMPLE TYPE: D ☐ Reg. Dist. P ☐ Plant Tap R ☑ Raw Water C ☐ Check M ☐ MCL Check ☐ Other (29)

DATE REC:

DATE REP:

CONT.I.D.	CONTAMINANT NAME (Maximum Allowable Level)		MTD	S	ANALYSIS RESULTS UG/ML
1005	Arsenic	0.05	125		0.01
1010	Barium	1.0	108		0.25
1015	Cadmium	0.010	125		< 0.0025
1020	Chromium	0.05	125		< 0.010
1030	Lead	0.05	125		< 0.005
1035	Mercury	0.002	106		< 0.0003
1045	Selenium	0.01	125		< 0.005
1050	Silver	0.05	125		< 0.010
1002	Aluminum		108		< 0.1
1016	Calcium		108		32
1028	Iron	0.30	108		< 0.01
1031	Magnesium		108		7
1032	Manganese	0.05	108		0.03
1051	Strontium		108		0.48
1095	Zinc	5.0	108		0.05
1022	Copper	1.0	108		< 0.01
1042	Potassium		108		0.4
1052	Sodium	20.	108		18
1036	Nickel		108		< 0.01
	Thallium		125		< 0.005
1919	Calcium Hardness		108		80
1918	Magnesium Hardness		136		31
1013	Ca & Mg Hardness		136		110
1015	Total Hardness***		136		110
1004	Antimony		125		< 0.010
1036	Beryllium		108		< 0.005

NOV 1994 RECEIVED Office of Water Programs Culpeper Office

DATE REPORTED : 14-Nov-94

ANALYST : LOIS THACKER

462711

DEC-7-94 WED 16:10 VDH-ONP CULPEPER P.03

PWSID# 6061129

BOC# 462714

COMMONWEALTH of VIRGINIA

DEPARTMENT OF GENERAL SERVICES

BB

DIVISION OF
CONSOLIDATED LABORATORY SERVICES

TDD (804) 786-6152

1 NORTH 14TH S
RICHMOND, VIRGINIA

DATE: 10/24/94

TO: V.D.H. Office of Water Programs
400 S Main St. 2nd Floor
Culpeper, VA 22701

COMMONWEALTH OF V

PWS ID # 6061129
DATE COLLECTED 10-20-94
TIME COLLECTED 11:07
COLLECTED BY SL
DESCRIPTION MS 5 well-head

FROM: LOUIS H. BAKER JR. SECTION SUPERVISOR, CENTRAL RECEIVING

SUBJECT: SAMPLE REJECTION

WE ARE REJECTING YOUR SAMPLE(S) FOR THE FOLLOWING REASON(S):

___ NO SAMPLE WAS RECEIVED.

___ THE SAMPLE WAS RECEIVED WITHOUT PROPER PAPERWORK.

X THE SAMPLE WAS RECEIVED IN THE WRONG CONTAINER.

___ THE CONTAINER WAS BROKEN OR LEAKED IN TRANSIT.

X THE SAMPLE WAS NOT PROPERLY PRESERVED AT 4°C.
(SAMPLES OF METALS AND RADIOLOGICAL ARE THE ONLY EXCEPTIONS).

___ THE NAME OF THE WATER SYSTEM WAS NOT INDICATED.

___ THERE WAS INSUFFICIENT SAMPLE.

___ THE PWSID # (IF APPLICABLE) WAS NOT INDICATED.

___ THE COLLECTION DATE ___ OR TIME ___ WAS NOT INDICATED.

___ THE PAPERWORK DID NOT MATCH THE INFROMATION ON THE SAMPLE.

___ OTHER: _____

IT WILL BE NECESSARY FOR YOU TO RESAMPLE YOUR WATER SUPPLY. PLEASE BE SURE TO FILL OUT THE FORM(S) COMPLETELY AND INCLUDE YOUR FULL ADDRESS.

SAMPLE TO RESUBMIT: Volatile Sample Kit

DGS

DIVISION OF ADMINISTRATIVE SERVICES • DIVISION OF ENGINEERING & BUILDINGS
DIVISION OF PURCHASES & SUPPLY • DIVISION OF CONSOLIDATED LABORATORY SERVICES • DIVISION OF RISK MANAGEMENT

LAB

NAME WATER SYSTEM: Fauquier WSL

SOURCE: WELL MS-5 New

OTHER INFORMATION: Meadowbrook Sub-division Developmental

Name: VDH-OFC. OF WATER PRG.
Address: 400 S. MAIN ST. 2nd FL.
City: CULPEPER, VA. 22701
Code: (703) 829-7340

Water Quality Report

VOLATILE ORGANICS

WSE 50

BB

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☐ Danville ☐ Richmond ☐ Local Health Dept. ☑ Culpeper ☐ Lexington ☐ Virginia Beach ☐

PLANNING DISTRICT# LEE

SAMPLING LOCATION: Well Head

SOURCE TYPE: ☑ Public-Community ☐ Public-Noncommunity

COUNTY: Fauquier

CODE: 7-9

INDEPENDENT CITY: Bealeton

FIELD TESTS: Temp: O_2: mg/L CO_2: mg/L pH: Alk: mg/L Hard: mg/L

P.W.S.I.D.#: 6061129 (10-16)

TRANSACTION CODE: 03 (17-18)

DATE COLLECTED: Mo 10 Day 20 Yr 1994 (19-24)

TIME: 1107 (25-28)

COLLECTED BY: CL

CONTAINER TYPE: ☐ Glass ☐ Plastic

PRESERVATIVE USED: ☑ None ☐ Ice ☐ Other ☐ Nitric Acid

SAMPLE TYPE: D ☐ Reg. Dist. P ☑ Plant Tap R ☑ Raw Water C ☐ Check M ☐ MCL Check S ☐ Other (29)

CONT. I.D.	CONTAMINANT NAME (Maximum Allowable Level)	MTD.	S	ANALYSIS RESULTS	PRECISION	ANALYSIS DATE Mo Day Yr	A*
2900	Regulated VOCs	524		0000	±		
2990	Benzene 0.005	524		0000	±		
2976	Vinyl Chloride 0.002	524		0000	±		
2982	Carbon Tetrachloride 0.005	524		0000	±		
2980	1,2-Dichloroethane 0.005	524		0000	±		
2984	Trichloroethylene 0.005	524		0000	±		
2977	1,1-Dichloroethylene 0.007	524		0000	±		
2981	1,1,1-Trichloroethane 0.20	524		0000	±		
2969	p-Dichlorobenzene 0.075	524		0000	±		
	c-1,2-dichloroethene 0.07	524		0000	±		
	1,2-dichloropropane 0.005	524		0000	±		
	ethylbenzene 0.7	524		0000	±		
	chlorobenzene 0.1	524		0000	±		
	o-dichlorobenzene 0.6	524		0000	±		
	styrene 0.1	524		0000	±		
	perchloroethene 0.005	524		0000	±		
	toluene 1.	524		0000	±		
	t-1,2-dichloroethene .1	524		0000	±		
	total xylenes 10.	524		0000	±		
					±		
2200	UNREGULATED VOCS	524		0000	±		
					±		
					±		
					±		
					±		
					±		
	LAB I.D.						
30-33	34-38	39-41	42	43-50	51-53	54-59	

DATE REC:

DATE REP:

PREPARED BY:

The results on this report are expressed in mg/L unless otherwise indicated. *A = analyst's initials

DEC-7-94 WED 16:11 VDH-OWP CULPEPER P.05

94 OCT 24 AM 10:40

462714

PWSID# 6061129

BOC# 462713

COMMONWEALTH of VIRGINIA

DEPARTMENT OF GENERAL SERVICES

BB

DIVISION OF CONSOLIDATED LABORATORY SERVICES

TDD (804) 786-6152

1 NORTH 14TH S
RICHMOND, VIRGINIA

DATE: 10/24/94

TO: V.D.H. Office of Water Programs
400 S Main St. 2nd Floor
Culpeper, VA 22701

COMMONWEALTH OF V
PWS ID # 6061129
DATE COLLECTED 10-20-94
TIME COLLECTED 11:09
COLLECTED BY CL
DESCRIPTION M.S.-S.

FROM: LOUIS H. BAKER JR. SECTION SUPERVISOR, CENTRAL RECEIVING

SUBJECT: SAMPLE REJECTION

NOV 1994
RECEIVED
Office of Water Programs
Culpeper Office

WE ARE REJECTING YOUR SAMPLE(S) FOR THE FOLLOWING REASON(S):

____ NO SAMPLE WAS RECEIVED.

____ THE SAMPLE WAS RECEIVED WITHOUT PROPER PAPERWORK.

____ THE SAMPLE WAS RECEIVED IN THE WRONG CONTAINER.

____ THE CONTAINER WAS BROKEN OR LEAKED IN TRANSIT.

X THE SAMPLE WAS NOT PROPERLY PRESERVED AT 4°C. (SAMPLES OF METALS AND RADIOLOGICAL ARE THE ONLY EXCEPTIONS).

____ THE NAME OF THE WATER SYSTEM WAS NOT INDICATED.

X THERE WAS INSUFFICIENT SAMPLE.

____ THE PWSID # (IF APPLICABLE) WAS NOT INDICATED.

____ THE COLLECTION DATE ___ OR TIME ___ WAS NOT INDICATED.

____ THE PAPERWORK DID NOT MATCH THE INFROMATION ON THE SAMPLE.

____ OTHER: 3 Bottle Needed

IT WILL BE NECESSARY FOR YOU TO RESAMPLE YOUR WATER SUPPLY. PLEASE BE SURE TO FILL OUT THE FORM(S) COMPLETELY AND INCLUDE YOUR FULL ADDRESS.

SAMPLE TO RESUBMIT: Pesticides Sample Kit

DGS

DIVISION OF ADMINISTRATIVE SERVICES • DIVISION OF ENGINEERING & BUILDINGS
DIVISION OF PURCHASES & SUPPLY • DIVISION OF CONSOLIDATED LABORATORY SERVICES • DIVISION OF RISK MANAGEMENT

LB # 1-6

NAME WATER SYSTEM: Fauquier ... SA
SOURCE: WELL MS-5 New
OTHER INFORMATION: Meadowbrook Sub-division Developmental

REPORT RESULTS TO HEALTH OFFICIAL AT:
Name: VIRGINIA DEPARTMENT OF HEALTH
Address: OFFICE OF WATER PROGRAMS
City: 400 S. MAIN ST. 2ND FLOOR
CULPEPER, VA 22701

Water Quality Report

PESTICIDE

WSE 50

BB

Commonwealth of Virginia
Department of Health
Division of Water Programs
Bureau of Water Supply Engineering

REGION: ☐ Abingdon ☑ Culpeper ☐ Danville ☐ Lexington ☐ Richmond ☐ Virginia Beach ☐ Local Health Dept. ☐

PLANNING DISTRICT*: Lee
COUNTY: Fauquier
INDEPENDENT CITY: Beealeton

SAMPLING LOCATION:
CODE: 7-9

SOURCE TYPE: ☑ Public-Community ☐ Public-Noncommunity

FIELD TESTS: Temp: pH: Cl_2: mg/L Alk: mg/L CO_2: mg/L Hard.: mg/L

P.W.S.I.D.#: 6 0 6 1 1 2 9 (10-16)
TRANSACTION CODE: Ø 3 (17-18)

DATE COLLECTED: Mo 10 Day 20 Yr 1994 (19-24)

TIME: 1 1 0 9 (25-28)

COLLECTED BY: CL

CONTAINER TYPE: ☐ Glass ☐ Plastic

PRESERVATIVE USED: ☐ None ☐ Ice ☐ Other ☐ Nitric Acid

SAMPLE TYPE: D ☐ Reg. Dist. P ☐ Plant Tap R ☑ Raw Water C ☐ Check M ☐ MCL Check ☐ Other (29)

CONT. I.D.	CONTAMINANT NAME (Maximum Allowable Level)		MTD.	S.	ANALYSIS RESULTS	PRECISION	ANALYSIS DATE Mo Day Yr	A*
2005	Endrin	0.0002	201		Ø Ø Ø	±		
2010	Lindane	0.004	201		Ø Ø Ø Ø	±		
2015	Methoxychlor	0.1	201		Ø Ø Ø Ø	±		
2020	Toxaphene	0.005	201		Ø Ø Ø Ø	±		
2105	2,4-D	0.1	206		Ø Ø Ø Ø	±		
2110	2,4,5-TP (Silvex)	0.01	206		Ø Ø Ø Ø	±		

(30-33) LAB I.D. 0 2 0 0 0 (34-38) (39-41) (43-50) (51-53) (54-59)

DATE REC:
DATE REP:

PREPARED BY:

The results on this report are expressed in mg/L unless otherwise indicated. *A = analyst's initials

462713

94 OCT 24 AM 10:40

DEC-7-94 WED 10:15 VDH-OWP CULPEPER P.07

APPENDIX C

LETTERS OF INTENT TO MONITOR DOMESTIC WELLS DURING THE PUMPING TESTS

Emery & Garrett Groundwater, Inc.
170 Waukewan Street
Meredith, New Hampshire 03253

(603) 279-4425 *Fax (603) 279-8717*

March 17, 1994

Carson N. Weaver
Rt 1, Box 325
Bealeton, VA 22712

Dear Mr. Weaver,

Emery and Garrett Groundwater, Inc. (EGGI) has been retained by the County of Fauquier and Fauquier County Water and Sanitation Authority to perform hydrogeologic testing of a well in your area. The purpose of the test is to evaluate the long-term safe yield (productivity) of the well and to determine the potential impacts (if any) of pumping the well on groundwater levels in the immediate area. In an effort to evaluate any and all impacts that the test will have local groundwater resources, we would like to monitor your well during the upcoming test(s).

Monitoring groundwater levels in your well can be accomplished very effectively with the use of an automatic water level recorder. The use of this recording device will not interfere with your daily water use and requires only minimal time on your property for a hydrogeologist to install the instrumentation. The monitoring equipment is comprised of a small probe which is hung on a cable within the well below the water table. At pre-determined time intervals, the instrument computes the depth of water in the well and records it. A small computer datalogger is left outside the well on the ground surface to compile all the readings which are taken.

The operator will initially require approximately one to three hours to install the instrument and will stop by every day or two to ensure that the instruments are working properly. Once installed, the staff of EGGI and the Fauquier County Water and Sanitation Authority will be available at any time to address any concerns you may have regarding the monitoring program.

Your assistance in this matter is greatly appreciated and we can ensure you that the monitoring program will be most valuable in determining the impact of new public water supply wells on your domestic well. The monitoring program is being conducted by the County and will be performed at no cost to the landowner. Upon completion of the test, EGGI will compile the water level data collected and submit those data to the County. Copies of the data collected from your well will be forwarded to you after submittal of the data to the County. This will take four to six weeks following the completion of the tests.

We would appreciate your response to this matter on or before April 5, 1994. Please submit the completed Consent Form using the self-addressed, stamped envelope provided. If you have any questions regarding these matters, please contact either myself or Mr. Wayne Stephens of the Fauquier County Water & Sanitation Authority (703-349-2092). **Thank You.**

Best regards,

James M. Emery
President

RECEIVED MAR 2 8 1994

CONSENT FORM FOR DOMESTIC WELL MONITORING

After reading the information supplied on the previous page, please indicate to us your decision to allow Fauquier County to monitor your well during the pumping tests by circling YES or NO. YES FOR 2 WELLS

YES, I would like my well monitored during the upcoming pumping tests.

NO, Please do not monitor my well during the test. Please NOTE below!!

Signature: Russell L. Cheatham Date: 3/24/94

Homeowner Name: Mr. & Mrs. Russell L. Cheatham
Address: 530 El Dorado Parkway
Fort Lauderdale, FL 33317

Phone (home): 305 792-0207 (work): SAME

WELL INFORMATION SURVEY

It would be most helpful if you could provide any information on the installation and design of your well. If you have knowledge of any of the following information, please fill out the form below. Thank You.

Total depth of the well:	_____	feet
Diameter of well:	_____	inches
Length of steel casing:	_____	feet
Estimated yield (from driller):	_____	gallons per minute
Type of rock or material encountered:	_____	(i.e., siltstone/diabase)
Depth of Pump Setting:	_____	(feet from ground surface)
Type of Pump:	_____	(submersible, jet, etc.)
Is the well easily accessible?	_____	

We have been provided with nothing at this point and you have drilled 4 wells on our land RLC

What does the wellhead look like? (i.e., is it 6-inch casing with a removable cap, a 3-foot diameter cement tile, does it have a rubber seal within the casing?)

We have given you the right to drill only. I have repeat requested that you settle with us at this point on compensation. There is presently damage done by you that has not been addressed. R.L. Cheatham

CONSENT FORM FOR DOMESTIC WELL MONITORING

After reading the information supplied on the previous page, please indicate to us your decision to allow Fauquier County to monitor your well during the pumping tests by circling YES or NO.

YES, I would like my well monitored during the upcoming pumping tests.

NO, Please do not monitor my well during the test.

Signature: [signature], Sr. Date: 3-24-94

Homeowner Name: Charles E. Carroll, Sr. trustee
Address: 729 Bear Wallow Rd.
Warrenton, VA 22186

Phone (home): 703-347-3885 (work): same

property located at Rt 1 Box 136 Denlaton, VA 22712
Rt 12 & 837

WELL INFORMATION SURVEY

It would be most helpful if you could provide any information on the installation and design of your well. If you have knowledge of any of the following information, please fill out the form below. Thank You.

Total depth of the well: ? feet

Diameter of well: 6" inches

Length of steel casing: ? feet

Estimated yield (from driller): ? gallons per minute

Type of rock or material encountered: ? (i.e., siltstone/diabase)

Depth of Pump Setting: ? (feet from ground surface)

Type of Pump: deep well jet (submersible, jet, etc.)

Is the well easily accessible? yes

What does the wellhead look like? (i.e., is it 6-inch casing with a removable cap, a 3-foot diameter cement tile, does it have a rubber seal within the casing?)

has 1/2" pipe vent - 1 1/4" & 1" PVC pipe
I would like to know when monitoring begins & ends
& the results of the monitoring
thank you [signature] Sr.

CONSENT FORM FOR DOMESTIC WELL MONITORING

After reading the information supplied on the previous page, please indicate to us your decision to allow Fauquier County to monitor your well during the pumping tests by circling YES or NO.

YES, I would like my well monitored during the upcoming pumping tests.

NO, Please do not monitor my well during the test.

Signature: Robert H Hodgson Ruby L. Hodgson Date: 3-24-94

Homeowner Name: _____

Address: _____

_____

Phone (home): _____ (work): _____

WELL INFORMATION SURVEY

It would be most helpful if you could provide any information on the installation and design of your well. If you have knowledge of any of the following information, please fill out the form below. Thank You.

Total depth of the well: 120 feet

Diameter of well: _____ inches

Length of steel casing: _____ feet

Estimated yield (from driller): _____ gallons per minute

Type of rock or material encountered: _____ (i.e., siltstone/diabase)

Depth of Pump Setting: _____ (feet from ground surface)

Type of Pump: _____ (submersible, jet, etc.)

Is the well easily accessible? _____

What does the wellhead look like? (i.e., is it 6-inch casing with a removable cap, a 3-foot diameter cement tile, does it have a rubber seal within the casing?)

_____

_____

CONSENT FORM FOR DOMESTIC WELL MONITORING

er reading the information supplied on the previous page, please indicate to us your decision to allow Fauquier unty to monitor your well during the pumping tests by circling YES or NO.

YES, I would like my well monitored during the upcoming pumping tests.

NO, Please do not monitor my well during the test.

Signature: Hazel F. Weaver Date: 2 April 1994
P.O.A. – Ellsworth L. B. Weaver

Homeowner Name: HAZEL F. WEAVER
Address: ROUTE 1 – BOX 331
BEALETON, VIRGINIA 22712-9732

Phone (home): 703-439-3067 (work): N.A.

WELL INFORMATION SURVEY

It would be most helpful if you could provide any information on the installation and design of your
If you have knowledge of any of the following information, please fill out the form below. Thank You.

Total depth of the well: Approx 100 feet
Diameter of well: Approx 6 inches
Length of steel casing: Approx 25 feet
Estimated yield (from driller): UNKNOWN gallons per minute
Type of rock or material encountered: TRIASSIC (i.e., siltstone/diabase)
Depth of Pump Setting: UNKNOWN (feet from ground surface)
Type of Pump: JET (submersible, jet, etc.)
Is the well easily accessible? YES
What does the wellhead look like? (i.e., is it 6-inch casing with a removable cap, a 3-foot diameter cement tile, does it have a rubber seal within the casing?)

SEAL WITHIN THE CASING

CONSENT FORM FOR DOMESTIC WELL MONITORING

ling the information supplied on the previous page, please indicate to us your decision to allow Fauquier nty o monitor your well during the pumping tests by circling YES or NO.

YES, I would like my well monitored during the upcoming pumping tests.

NO, Please do not monitor my well during the test.

ature: Ellsworth L.B. Weaver Date: 2 April 1994

eowner Name: Ellsworth L.B. Weaver
es: Route 1 - Box 331
Bealeton, Virginia 22712-9732

e (home): 703-439-3067 (work): 703-439-9827

WELL INFORMATION SURVEY

would be most helpful if you could provide any information on the installation and design of your l have knowledge of any of the following information, please fill out the form below. Thank You.

depth of the well: Approx 100 feet

ter of well: Approx 6 inches

of steel casing: Approx 25 feet

ted yield (from driller): Unknown gallons per minute

of rock or material encountered: Triassic (i.e., siltstone/diabase)

of Pump Setting: Unknown (feet from ground surface)

f Pump: Jet (submersible, jet, etc.)

vell easily accessible? Yes

oes the wellhead look like? (i.e., is it 6-inch casing with a removable cap, a 3-foot diameter cement tile, hav a rubber seal within the casing?)

Well within the casing

CONSENT FORM FOR DOMESTIC WELL MONITORING

fter reading the information supplied on the previous page, please indicate to us your decision to allow Fauquier County to monitor your well during the pumping tests by circling YES or NO.

(YES) I would like my well monitored during the upcoming pumping tests.

NO, Please do not monitor my well during the test.

Signature: Richard White Date: 3-23-94

Homeowner Name: Richard White
Address: Rt 1 Box 343
Bealeton, VA. 22712

Phone (home): 439-2588 (work): _____

WELL INFORMATION SURVEY

It would be most helpful if you could provide any information on the installation and design of your well. If you have knowledge of any of the following information, please fill out the form below. Thank You.

Total depth of the well: _____ feet

Diameter of well: _____ inches

Length of steel casing: _____ feet

Estimated yield (from driller): _____ gallons per minute

Type of rock or material encountered: _____ (i.e., siltstone/diabase)

Depth of Pump Setting: _____ (feet from ground surface)

Type of Pump: _____ (submersible, jet, etc.)

Is the well easily accessible? _____

What does the wellhead look like? (i.e., is it 6-inch casing with a removable cap, a 3-foot diameter cement tile, does it have a rubber seal within the casing?)

6 inch casing with removable cap

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CONSENT FORM FOR DOMESTIC WELL MONITORING

After reading the information supplied on the previous page, please indicate to us your decision to allow Fauquier County to monitor your well during the pumping tests by circling YES or NO.

YES, I would like my well monitored during the upcoming pumping tests.

✓ NO, Please do not monitor my well during the test.

Signature: Carson N. Weaver Date: 3-22-94

Homeowner Name: Carson N. Weaver
Address: RT. 1 Box 325
Bealeton Va. 22712

Phone (home): _____ (work): _____

WELL INFORMATION SURVEY

It would be most helpful if you could provide any information on the installation and design of your well. If you have knowledge of any of the following information, please fill out the form below. Thank You.

Total depth of the well: _____ feet

Diameter of well: _____ inches

Length of steel casing: _____ feet

Estimated yield (from driller): _____ gallons per minute

Type of rock or material encountered: _____ (i.e., siltstone/diabase)

Depth of Pump Setting: _____ (feet from ground surface)

Type of Pump: _____ (submersible, jet, etc.)

Is the well easily accessible? _____

What does the wellhead look like? (i.e., is it 6-inch casing with a removable cap, a 3-foot diameter cement tile, does it have a rubber seal within the casing?)

_____

_____

CONSENT FORM FOR DOMESTIC WELL MONITORING

After reading the information supplied on the previous page, please indicate to us your decision to allow Fauquier County to monitor your well during the pumping tests by circling YES or NO.

YES, I would like my well monitored during the upcoming pumping tests.

(NO) Please do not monitor my well during the test.

Signature: [illegible] Date: 3-26-94

Homeowner Name: Rt 1. Box 345
Address: Bealeton, Va
22712

Phone (home): 703-439-3853 (work): _____

WELL INFORMATION SURVEY

It would be most helpful if you could provide any information on the installation and design of your well. If you have knowledge of any of the following information, please fill out the form below. Thank You.

Total depth of the well: _____ feet

Diameter of well: _____ inches

Length of steel casing: _____ feet

Estimated yield (from driller): _____ gallons per minute

Type of rock or material encountered: _____ (i.e., siltstone/diabase)

Depth of Pump Setting: _____ (feet from ground surface)

Type of Pump: _____ (submersible, jet, etc.)

Is the well easily accessible? _____

What does the wellhead look like? (i.e., is it 6-inch casing with a removable cap, a 3-foot diameter cement tile, does it have a rubber seal within the casing?)

Please leave my Well Alone

APPENDIX D

RAW WATER LEVEL DATA
STEP TESTS
for
WELLS B-3 and B-4

Emery & Garrett Groundwater, Inc.

WELL B-3

PUMPING TEST DATA COLLECTION FORM

PAGE: 1

PROJECT: Bealeton

PUMPING WELL(S): B3 STEP TEST

MONITORING LOCATION: B3 Step Test

INITIAL WATER LEVEL: _____

MEASURING POINT: Top of access tube

DATE	24-HOUR TIME	CUM. TIME t or t' (min)	WATER LEVEL (FEET)	DISCHARGE Q (GPM)	TOTALIZING FLOWMETER	COMMENTS
7/25/94	10:50		8.39'	Ø	035720.00	
	11:00	0	8.41		35723	
	01		36.02			
	02		33.53		35725	40g/14s
	03		28.66			50/30
	04		26.02			25/13
	05		17.31		728½	
	06		16.61			30g/30s
	07		18.47			30/23s
	08		17.82	77		50/42s // 77/60s
	09		17.72			
	11:10	10	17.66	78		78 gal/60s
	12		17.71		35734	
	14		17.75	83		83 gal/60s
	16		17.74	79		∴ made tiny adjustment to Q
	18		17.78	82		
	20		17.85			50 gal/38s w/ bucket
	25		17.92	78		78/60s (m = meter)
	30		17.93	80 (m)		
	35		18.03	79 (m)		9.18' below toc in B1 @ 11:33
	40		18.16	78 (m)		50 gal/38s (b = bucket)
	45		18.26			
	50		18.34	79 (m)		
	12:00	60	18.51	76 (m)		
	:10	70	18.63	74 ~~80~~ (m)	35780	Very slight Q↓ to ~81

EMERY AND GARRETT GROUNDWATER, INC.

MONITORING LOCATION: B3 p.1

PUMPING TEST DATA COLLECTION FORM

PAGE: 2

PROJECT: BEALETON

PUMPING WELL(S): B3

MONITORING LOCATION: B3 STEP TEST

INITIAL WATER LEVEL: _____ MEASURING POINT: _____

P.2

DATE	24-HOUR TIME	CUM. TIME t or t' (min)	WATER LEVEL (FEET)	DISCHARGE Q (GPM)	TOTALIZING FLOWMETER	COMMENTS
4/25/94	12:20	80	18.72'	76 (m)		
	12:30	90	18.86	74 (m)	35796	Start 2nd Step (Q→125)
	:35	95	25.71	126 (m)	~~35796~~	60g/28s @ 12:33
	40	100	26.00			130 gal (b) 50g/23s
	45	105	26.13	127 (m)		Adjusted Q↑ to 65/30//117/60s (m) attempt to reach 120 (m) =125 (b)
	50	110	25.51	124 (m) @ 12:47 120 (m)		
	13:00	120	25.64	120		
	:10		25.85	122		
	:20		25.99	120		SO_4 ≈ 20 ppm Hard ≈ 240
	:30		26.18	120 (m)		B1 = 11.45' @ 13:27
	:40		26.32	120 (m)		125 gpm / by bucket 50g/24s
	:50		26.44			
	14:00	180	26.61		35905.00	START 3rd STEP (175 gpm) 80g/30s @ 14:02
	:05	185	33.59	170 (m)		(m) 170g/60s @ 14:04
	10	190	34.14	175 (b)		B1 @ 12.21' @ 14:07
	15	195	34.40			
	20	200	34.42	170 (m) = 175 gpm (b)		
	30		34.69	168 (m)		B1 = 12.94' @ 14:32
	40		34.91	168 (m)		
	50		34.83	168 (m)		B1 = 13.38' @ 14:53
	15:00	240	35.00	163 (m)		Q↑ to 168 (m)
	10		35.95	170 (m)		
	20		36.28	165 (m)		B1 = 14.01' @ 15:23
	30	270	36.40	169 (m)	36052	START 4th STEP (225 gpm) 100/30s @ 15:32
	:35	275	44.88	220 (m)		

PUMPING TEST DATA COLLECTION FORM

PAGE: 3

PROJECT: BEALETON

PUMPING WELL(S): B3

MONITORING LOCATION: B3 STEP TEST

INITIAL WATER LEVEL: _____ MEASURING POINT: _____ p. 3

DATE	24-HOUR TIME	CUM. TIME t or t' (min)	WATER LEVEL (FEET)	DISCHARGE Q (GPM)	TOTALIZING FLOWMETER	COMMENTS
4/25/94	15:40	280	46.35	222 (m)		= 227 gpm (bucket)
	:45	285	46.74	50g/12 223(m)		B1 = 14.51' @ 15:42
	:50	290	47.00	~218(m)		50g/13.3s (bucket)
	16:00	300	47.39	222		
	:10		47.62	222		B1 15.65' @ 16:18
	:20		47.82	220		
	:30	330	48.35	220 (m)		B1 16.00' @ 16:33
	:40		48.55	220		
	:50		48.75	220		B1 = 16.48' @ 16:52
	17:00	360	48.91'	220	Δing to 280 17:01 36249.00	START 5TH STEP — 300 gpm —
	:05	365	68.02'	305(m)	50g/8.5s	310 @ 17:03 (m) @ 17:08 → 350 gpm!
	:10	370	68.17'	300(m)	50g/8.9s	Q↓ adjust
	:15	375	67.14'	293(m)		B1 = 17.43' @ 17:17
	:20	380	67.11'	293(m)	50g/9.5s	GET CHEM!
	:30		65.42'	Δed Q to 282(m) @ 17:27 285(m)	50g/9.5 ∴	water slightly yellow ong. cloudy
	:40	400	62.92'	275(m) || 276(m) 17:45	50g/9.7	Q↓ again to 270(m) 50g/9.8s @ 17:37
	:50		63.11'	310 gpm (bucket)	36389.00	B1 = 18.37' @ 17:42
	18:00	420	63.35'	270 on meter to 275	water	beginning to clear @ 17:50 B1 = 18.97' @ 18:02
	:10		63.53'	275 (m) 277 (m)		SO_4 ≈ 30 ppm (running clear again) Hard ≈ 210
	:20		63.77'	277 (m)		B1 = 19.44' @ 18:22
	:30	450	64.05	275 (m)	36500.00	SHUT DOWN Left valve @ ~310 gpm ≈ 270-75 (m)
	31	451	24.30			
	32	452	23.46			
	33	453	22.58			
	34	454	21.81			

EMERY AND GARRETT GROUNDWATER, INC.

MONITORING LOCATION: B3 STEP p.3

PUMPING TEST DATA COLLECTION FORM

PAGE: 4

PROJECT: BEALETON

PUMPING WELL(S): B3

MONITORING LOCATION: B3 STEP TEST

INITIAL WATER LEVEL: _____ MEASURING POINT: _____

DATE	24-HOUR TIME	CUM. TIME t or t' (min)	WATER LEVEL (FEET)	DISCHARGE Q (GPM)	TOTALIZING FLOWMETER	COMMENTS
4/25/94	18:35	455	21.29'	Ø		
	36	456	20.90'			
	37	457	20.55			
	38	458	20.19			
	39	459	19.98			
	40	460	19.56			B1 = 18.91' @ 18:40
	42	462	19.32'			
	44	464	18.99'			
	46	466	18.65			
	48	468	18.43'			B1 = 18.43' @ 18:47
	50	470	18.10'			
	55	475	17.72'			
	19:00	480	17.32'			
	:05	485	17.00'			
	:10	490	16.66			

EMERY AND GARRETT GROUNDWATER, INC.

MONITORING LOCATION: B3 STEP P.4

WELL B-4

PUMPING TEST DATA COLLECTION FORM

PAGE: 1

PROJECT: BEALETON. WSA

PUMPING WELL(S): B-4 STEP

MONITORING LOCATION: B-4

INITIAL WATER LEVEL: 10.03

MEASURING POINT: T.O.C.

DATE	24-HOUR TIME	CUM. TIME t or t' (min)	WATER LEVEL (FEET)	DISCHARGE Q (GPM)	TOTALIZING FLOWMETER	COMMENTS
4/25/94	10:59		10.03		04797690	
	11:00	0				STEP 1 -75 gpm
		1	27.26			
		2	25.45			
		3	24.75	80		
		4	23.31	70		
		5	25.50	80		
		6	25.37	76		
		7	25.36			
		8	25.23			
		9	25.22			
		10	25.26	75 =85		
		12	25.43			
		14	25.72	75 =85		
		16	25.90	75 =85	85 bucket	
		19	26.08		CALIBRATED METER TO READ 85 gpm	
		25	26.37	85		
		33	26.72			
		43	27.09			
		51	27.42			
		60	27.84			
		70	28.27	85	85	
		80	28.52			SO4 = 110 mg/l HCO3 = 200 mg/l
		89	28.68			END STEP 1

EMERY AND GARRETT GROUNDWATER, INC.

MONITORING LOCATION: B-4 STEP

PUMPING TEST DATA COLLECTION FORM

PAGE: 2

PROJECT: BEALETON - WSA

PUMPING WELL(S): B-4 STEP

MONITORING LOCATION: B-4

INITIAL WATER LEVEL: 10.03

MEASURING POINT: T.O.C.

DATE	24-HOUR TIME	CUM. TIME t or t' (min)	WATER LEVEL (FEET)	DISCHARGE Q (GPM)	TOTALIZING FLOWMETER	COMMENTS
4/25/94	12:30	90			START	STEP 2
		91	38.70			125 gpm
		94	40.78			
		97	39.10	125		
	12:41	101	39.41	130	132 b	
		106	39.66			
	12:50	110	39.87			
		120	40.25			
		130	40.60	126		
	13:22	142	40.96			
	13:30	150	41.04	127		
		160	41.41			
		170	41.71			
		178	41.96			
	14:00					START STEP 3
	14:02	182	56.55			175 gpm
		185	59.87			
		190	57.20	175		
		200	57.69	174		
		210	58.11			
		220	58.52			
	14:55	235	59.02	173		
	15:10	250	59.39			
	15:20	260	59.95	172		
	15:29	269	60.17			END 3rd STEP

EMERY AND GARRETT GROUNDWATER, INC.

MONITORING LOCATION: B-4

PUMPING TEST DATA COLLECTION FORM

PAGE: 3

PROJECT: BEALETON - WSA

PUMPING WELL(S): B-4 STEP

MONITORING LOCATION: B-4

INITIAL WATER LEVEL: 10.03

MEASURING POINT: T.O.C

DATE	24-HOUR TIME	CUM. TIME t or t' (min)	WATER LEVEL (FEET)	DISCHARGE Q (GPM)	TOTALIZING FLOWMETER	COMMENTS
1/25/94	15:30					START 4th STEP
	15:32	272	74.70	225		225 gpm
	15:35	275	80.49		225 6	
		285	83.06	225		
	15:55	295	84.24			
	16:05	305	85.07			
	16:15	315	85.86	222		
	16:32	332	87.01	225		
	16:45	345	87.78			
	16:52	352	88.14			
	16:59	359	88.55			
	17:00					START 5th STEP
	17:02	362	130.40	292		300 gpm
	17:05	365	154.95	295	17:07 290	PULLING SMALL CUTTINGS FROM HOLE
	17:10	370	162.26	290		
	17:20	380	157.34	UP TO 300		CASCADING HARD!
	17:23 17:25	383 385	165.40 163.50			
	17:30	390	168.70	295		AIR IN WATER DISCHARGE
	17:35 17:45	395 405	169.50 169.80	292 288		WATER LEVELS FLUCTUATING
	17:57	417	172.88	283 → UP TO 295 → 298		1-2 ft.
	18:05	425	178.52	294		
	18:15	435	179.83	292		
	18:25	445	182.05			
	18:28	448	181.30			

EMERY AND GARRETT GROUNDWATER, INC.

MONITORING LOCATION: B-4

PUMPING TEST DATA COLLECTION FORM

PAGE: 4

PROJECT: BEALETON - W.S.A.

MONITORING LOCATION: B-4

PUMPING WELL(S): B-4 STEP

INITIAL WATER LEVEL: 10.03

MEASURING POINT: T.O.C

DATE	24-HOUR TIME	CUM. TIME t or t' (min)	WATER LEVEL (FEET)	DISCHARGE Q (GPM)	TOTALIZING FLOWMETER	COMMENTS
7/25/94						RECOVERY
	18:31	1.5 451.5	38.2			
		2.5 452.5	32.7			STILL CASCADING; BUT
		3.5 453.5	31.95		DEGASSING!, LARGE QUANTITIES OF AIR BUBBLES RELEASING.	MUCH LESS
		4 454	31.43			ALL QUIET.
		5 455	30.77			
		6 456	30.05			
		8 458	29.00			
		10 460	28.26			
		15 465	26.94			
		20 470	26.26			
		25 475	25.54			
		30 480	24.95			

EMERY AND GARRETT GROUNDWATER, INC.

MONITORING LOCATION: B-4

APPENDIX E

RAW WATER LEVEL DATA
for
CONSTANT RATE PUMPING TEST
of
WELLS B-3 and B-4

Emery & Garrett Groundwater, Inc.

PUMPING WELL B-3

RAW DATA FOR PUMPING WELL B-3
PUMPING TEST B-3 AND B-4
BEALETON, VIRGINIA

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
110	1900	-10860	6.45
110	2000	-10800	6.51
110	2100	-10740	6.58
110	2200	-10680	6.66
110	2300	-10620	6.76
111	0	-10560	6.82
111	100	-10500	6.80
111	200	-10440	6.75
111	300	-10380	6.69
111	400	-10320	6.62
111	500	-10260	6.57
111	600	-10200	6.53
111	700	-10140	6.49
111	800	-10080	6.53
111	900	-10020	6.62
111	1000	-9960	6.74
111	1100	-9900	6.76
111	1200	-9840	6.72
111	1300	-9780	6.68
111	1400	-9720	6.63
111	1500	-9660	6.59
111	1600	-9600	6.55
111	1700	-9540	6.51
111	1800	-9480	6.53
111	1900	-9420	6.62
111	2000	-9360	6.74
111	2100	-9300	6.84
111	2200	-9240	6.92
111	2300	-9180	6.99
112	0	-9120	6.97
112	100	-9060	6.91
112	200	-9000	6.83
112	300	-8940	6.75
112	400	-8880	6.66
112	500	-8820	6.59
112	600	-8760	6.55
112	700	-8700	6.53
112	800	-8640	6.50
112	900	-8580	6.46
112	1800	-8040	7.05
112	1900	-7980	7.16
112	2000	-7920	7.26
112	2100	-7860	7.31
112	2200	-7800	7.30
112	2300	-7740	7.35
113	0	-7680	7.41
113	100	-7620	7.46
113	200	-7560	7.51

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
113	300	-7500	7.54
113	400	-7440	7.50
113	500	-7380	7.43
113	600	-7320	7.36
113	700	-7260	7.29
113	800	-7200	7.22
113	900	-7140	7.17
113	1000	-7080	7.21
113	1100	-7020	7.28
113	1200	-6960	7.38
113	1300	-6900	7.48
113	1400	-6840	7.55
113	1500	-6780	7.63
113	1600	-6720	7.72
113	1700	-6660	7.74
113	1800	-6600	7.77
113	1900	-6540	7.85
113	2000	-6480	7.94
113	2100	-6420	8.02
113	2200	-6360	8.11
113	2300	-6300	8.19
114	0	-6240	8.26
114	100	-6180	8.27
114	200	-6120	8.19
114	300	-6060	8.08
114	400	-6000	7.97
114	500	-5940	7.86
114	600	-5880	7.78
114	700	-5820	7.69
114	800	-5760	7.63
114	900	-5700	7.60
114	1000	-5640	7.57
114	1100	-5580	7.54
114	1200	-5520	7.52
114	1300	-5460	7.57
114	1400	-5400	7.67
114	1500	-5340	7.74
114	1600	-5280	7.82
114	1700	-5220	7.90
114	1800	-5160	7.99
114	1900	-5100	8.06
114	2000	-5040	8.06
114	2100	-4980	8.08
114	2200	-4920	8.15
114	2300	-4860	8.23
115	0	-4800	8.30
115	100	-4740	8.37
115	200	-4680	8.42
115	300	-4620	8.47
115	400	-4560	8.46
115	500	-4500	8.42
115	600	-4440	8.44

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
115	700	-4380	8.50
115	800	-4320	8.56
115	900	-4260	8.63
115	1000	-4200	8.72
115	1410	-3950	34.14
115	1420	-3940	34.44
115	1430	-3930	34.74
115	1440	-3920	34.74
115	1450	-3910	34.94
115	1500	-3900	35.04
115	1510	-3890	36.04
115	1520	-3880	36.24
115	1530	-3870	36.64
115	1540	-3860	46.44
115	1550	-3850	46.94
115	1600	-3840	47.34
115	1610	-3830	47.54
115	1620	-3820	47.94
115	1630	-3810	48.34
115	1640	-3800	48.44
115	1650	-3790	48.94
115	1700	-3780	51.74
115	1710	-3770	68.34
115	1720	-3760	67.14
115	1730	-3750	65.44
115	1740	-3740	62.94
115	1750	-3730	63.24
115	1800	-3720	63.44
115	1810	-3710	63.44
115	1820	-3700	64.04
115	1830	-3690	72.34
115	1840	-3680	19.74
115	1850	-3670	18.24
115	1900	-3660	17.34
115	1910	-3650	16.74
115	1920	-3640	16.24
115	1930	-3630	15.84
115	1940	-3620	15.54
115	1950	-3610	15.24
115	2000	-3600	14.94
115	2010	-3590	14.74
115	2020	-3580	14.54
115	2030	-3570	14.34
115	2040	-3560	14.14
115	2050	-3550	14.04
115	2100	-3540	13.84
115	2110	-3530	13.74
115	2120	-3520	13.64
115	2130	-3510	13.54
115	2140	-3500	13.44
115	2150	-3490	13.34
115	2200	-3480	13.24

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
115	2210	-3470	13.14
115	2220	-3460	13.04
115	2230	-3450	12.94
115	2240	-3440	12.94
115	2250	-3430	12.84
115	2300	-3420	12.74
115	2310	-3410	12.74
115	2320	-3400	12.64
115	2330	-3390	12.54
115	2340	-3380	12.54
115	2350	-3370	12.44
116	0	-3360	12.44
116	10	-3350	12.34
116	20	-3340	12.34
116	30	-3330	12.34
116	40	-3320	12.24
116	50	-3310	12.24
116	100	-3300	12.14
116	110	-3290	12.04
116	120	-3280	12.04
116	130	-3270	11.94
116	140	-3260	11.94
116	150	-3250	11.84
116	200	-3240	11.74
116	210	-3230	11.74
116	220	-3220	11.64
116	230	-3210	11.64
116	240	-3200	11.54
116	250	-3190	11.54
116	300	-3180	11.44
116	310	-3170	11.44
116	320	-3160	11.34
116	330	-3150	11.34
116	340	-3140	11.24
116	350	-3130	11.24
116	400	-3120	11.14
116	410	-3110	11.14
116	420	-3100	11.04
116	430	-3090	11.04
116	440	-3080	10.94
116	450	-3070	10.94
116	500	-3060	10.84
116	510	-3050	10.84
116	520	-3040	10.74
116	530	-3030	10.74
116	540	-3020	10.64
116	550	-3010	10.64
116	600	-3000	10.64
116	610	-2990	10.54
116	620	-2980	10.54
116	630	-2970	10.54
116	640	-2960	10.44

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
116	650	-2950	10.44
116	700	-2940	10.34
116	710	-2930	10.34
116	800	-2880	10.24
116	900	-2820	10.24
116	1000	-2760	10.24
116	1100	-2700	10.34
116	1200	-2640	10.34
116	1300	-2580	10.34
116	1400	-2520	10.34
116	1500	-2460	10.24
116	1600	-2400	10.14
116	1700	-2340	10.04
116	1800	-2280	9.94
116	1900	-2220	9.94
116	2000	-2160	9.84
116	2100	-2100	9.74
116	2200	-2040	9.64
116	2300	-1980	9.54
117	0	-1920	9.44
117	100	-1860	9.34
117	200	-1800	9.24
117	300	-1740	9.14
117	400	-1680	8.94
117	500	-1620	8.84
117	600	-1560	8.74
117	700	-1500	8.64
117	800	-1440	8.54
117	900	-1380	8.54
117	1000	-1320	8.44
117	1100	-1260	8.44
117	1200	-1200	8.54
117	1300	-1140	8.64
117	1400	-1080	8.74
117	1500	-1020	8.74
117	1600	-960	8.74
117	1700	-900	8.84
117	1800	-840	8.84
117	1900	-780	8.84
117	2000	-720	8.84
117	2100	-660	8.84
117	2200	-600	8.84
117	2300	-540	8.84
118	0	-480	8.94
118	100	-420	8.94
118	200	-360	8.94
118	300	-300	8.94
118	400	-240	8.94
118	500	-180	8.94
118	600	-120	8.94
118	700	-60	8.94
Beginning of Pumping			

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
118	800	0	-5.46
118	801	1	20.43
118	802	2	25.51
118	803	3	28.37
118	805	5	36.84
118	806	6	44.55
118	808	8	47.84
118	809.5	9.5	50.22
118	811	11	52.67
118	813	13	54.97
118	815	15	57.03
118	817	17	57.71
118	819	19	58.31
118	822	22	58.71
118	825	25	59.27
118	830	30	59.84
118	837	37	60.61
118	841	41	61.04
118	847	47	61.43
118	854	54	61.96
118	900	60	62.14
118	1000	120	69.34
118	1100	180	71.74
118	1200	240	73.74
118	1300	300	75.34
118	1400	360	76.24
118	1500	420	77.44
118	1600	480	78.34
118	1700	540	79.54
118	1800	600	77.74
118	1900	660	79.44
118	2000	720	80.54
118	2100	780	81.74
118	2200	840	82.34
118	2300	900	83.34
119	0	960	84.14
119	100	1020	84.64
119	200	1080	85.34
119	300	1140	85.84
119	400	1200	86.34
119	500	1260	86.64
119	600	1320	87.34
119	700	1380	87.64
119	800	1440	88.04
119	900	1500	88.54
119	1000	1560	89.24
119	1100	1620	89.74
119	1200	1680	90.24
119	1300	1740	90.54
119	1400	1800	91.14
119	1500	1860	91.74
119	1600	1920	92.24

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
119	1700	1980	92.44
119	1800	2040	95.74
119	1900	2100	92.74
119	2000	2160	92.94
119	2100	2220	93.24
119	2200	2280	93.24
119	2300	2340	93.54
120	0	2400	93.84
120	100	2460	93.74
120	200	2520	93.74
120	300	2580	95.44
120	400	2640	95.84
120	500	2700	95.74
120	600	2760	96.04
120	700	2820	96.44
120	800	2880	96.54
120	900	2940	96.94
120	1000	3000	95.24
120	1100	3060	98.54
120	1200	3120	98.84
120	1300	3180	99.04
120	1400	3240	99.14
120	1500	3300	99.44
120	1600	3360	100.04
120	1700	3420	99.84
120	1800	3480	100.04
120	1900	3540	100.44
120	2000	3600	100.84
120	2100	3660	100.84
120	2200	3720	101.34
120	2300	3780	102.04
121	0	3840	101.94
121	100	3900	101.74
121	200	3960	102.04
121	300	4020	102.24
121	400	4080	102.64
121	500	4140	102.84
121	600	4200	102.54
121	700	4260	102.54
121	800	4320	102.64
121	900	4380	102.84
121	1000	4440	102.74
121	1100	4500	102.74
121	1200	4560	103.14
121	1300	4620	103.64
121	1400	4680	103.44
121	1500	4740	104.04
121	1600	4800	104.04
121	1700	4860	104.34
121	1800	4920	104.14
121	1900	4980	104.54
121	2000	5040	104.74

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
121	2100	5100	105.34
121	2200	5160	105.34
121	2300	5220	105.24
122	0	5280	105.74
122	100	5340	105.64
122	200	5400	105.94
122	300	5460	105.64
122	400	5520	105.54
122	500	5580	105.94
122	600	5640	105.94
122	700	5700	105.84
122	800	5760	105.94
122	900	5820	106.14
BEGIN RECOVERY			
122	1000	5880	58.44
122	1100	5940	36.54
122	1200	6000	34.14
122	1300	6060	32.54
122	1400	6120	31.24
122	1500	6180	30.14
122	1600	6240	29.14
122	1700	6300	28.44
122	1800	6360	27.84
122	1900	6420	27.24
122	2000	6480	26.74
122	2100	6540	26.24
122	2200	6600	25.84
122	2300	6660	25.44
123	0	6720	24.94
123	100	6780	24.44
123	200	6840	24.04
123	300	6900	23.54
123	400	6960	23.14
123	500	7020	22.74
123	600	7080	22.44
123	700	7140	22.14
123	800	7200	21.84
123	900	7260	21.64
123	1000	7320	21.54
123	1100	7380	21.34
123	1200	7440	21.04
123	1300	7500	20.74
123	1400	7560	20.54
123	1500	7620	20.34
123	1600	7680	20.24
123	1700	7740	20.04
123	1800	7800	19.94
123	1900	7860	19.84
123	2000	7920	19.74
123	2100	7980	19.54
123	2200	8040	19.34
123	2300	8100	19.14

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
124	0	8160	18.84
124	100	8220	18.64
124	200	8280	18.44
124	300	8340	18.24
124	400	8400	18.04
124	500	8460	17.94
124	600	8520	17.94
124	700	8580	17.84
124	800	8640	17.84
124	900	8700	17.74
124	1000	8760	17.64
124	1100	8820	17.64
124	1200	8880	17.54
124	1300	8940	17.34
124	1400	9000	17.14
124	1500	9060	16.94
124	1600	9120	16.84
124	1700	9180	16.64
124	1800	9240	16.54
124	1900	9300	16.34
124	2000	9360	16.24
124	2100	9420	16.14
124	2200	9480	16.04
124	2300	9540	16.04
125	0	9600	16.04
125	100	9660	15.94
125	200	9720	15.94
125	300	9780	15.94
125	400	9840	15.94
125	500	9900	15.74
125	600	9960	15.64
125	700	10020	15.54
125	800	10080	15.34
125	900	10140	15.34
125	1000	10200	15.34
125	1100	10260	15.44
125	1200	10320	15.34
125	1300	10380	15.24
125	1400	10440	15.14
125	1500	10500	15.04
125	1600	10560	14.94
125	1700	10620	14.74
125	1800	10680	14.64
125	1900	10740	14.54
125	2000	10800	14.54
125	2100	10860	14.54
125	2200	10920	14.54
125	2300	10980	14.54
126	0	11040	14.54
126	100	11100	14.44
126	200	11160	14.34
126	300	11220	14.24

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
126	400	11280	14.04
126	500	11340	13.94
126	600	11400	13.94
126	700	11460	13.84
126	800	11520	13.74
126	900	11580	13.84
126	1000	11640	13.84
126	1100	11700	13.84
126	1200	11760	13.74
126	1300	11820	13.64
126	1400	11880	13.44
126	1500	11940	13.34
126	1600	12000	13.24
126	1700	12060	13.14
126	1800	12120	13.14
126	1900	12180	13.14
126	2000	12240	13.24
126	2100	12300	13.24
126	2200	12360	13.34
126	2300	12420	13.34
127	0	12480	13.24
127	100	12540	13.04
127	200	12600	12.94
127	300	12660	12.84
127	400	12720	12.74
127	500	12780	12.64
127	600	12840	12.54
127	700	12900	12.44
127	800	12960	12.44
127	900	13020	12.34
127	1000	13080	12.34
127	1100	13140	12.44
127	1200	13200	12.54
127	1300	13260	12.64
127	1400	13320	12.64
127	1500	13380	12.74
127	1600	13440	12.74
127	1700	13500	12.74
127	1800	13560	12.64
127	1900	13620	12.74
127	2000	13680	12.84
127	2100	13740	12.84
127	2200	13800	12.94
127	2300	13860	12.94
128	0	13920	12.94
128	100	13980	12.84
128	200	14040	12.74
128	300	14100	12.64
128	400	14160	12.54
128	500	14220	12.44
128	600	14280	12.24
128	700	14340	12.14

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
128	800	14400	12.14
128	900	14460	12.04
128	1000	14520	12.04
128	1100	14580	12.14
128	1200	14640	12.14
128	1300	14700	12.24
128	1400	14760	12.24
128	1500	14820	12.24
128	1600	14880	12.24
128	1700	14940	12.14
128	1800	15000	12.04
128	1900	15060	11.94
128	2000	15120	11.94
128	2100	15180	11.94
128	2200	15240	12.04
128	2300	15300	12.04
129	0	15360	12.04
129	100	15420	11.94
129	200	15480	11.84
129	300	15540	11.74
129	400	15600	11.64
129	500	15660	11.54
129	600	15720	11.44
129	700	15780	11.34
129	800	15840	11.34
129	900	15900	11.44
129	1000	15960	11.54
129	1100	16020	11.64
129	1200	16080	11.54
129	1300	16140	11.54
129	1400	16200	11.44
129	1500	16260	11.34
129	1600	16320	11.24
129	1700	16380	11.14
129	1800	16440	11.14
129	1900	16500	11.14

PUMPING WELL B-4

Emery & Garrett Groundwater, Inc.

RAW DATA FOR PUMPING WELL B-4
PUMPING TEST B-3 AND B-4
BEALETON, VIRGINIA

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
110	1800	-10920	8.68
110	1900	-10860	8.69
110	2000	-10800	8.69
110	2100	-10740	8.70
110	2200	-10680	8.68
110	2300	-10620	8.70
111	0	-10560	8.69
111	100	-10500	8.64
111	200	-10440	8.63
111	300	-10380	8.63
111	400	-10320	8.62
111	500	-10260	8.62
111	600	-10200	8.62
111	700	-10140	8.61
111	800	-10080	8.60
111	900	-10020	8.62
111	1000	-9960	8.64
111	1100	-9900	8.64
111	1200	-9840	8.66
111	1300	-9780	8.65
111	1400	-9720	8.69
111	1500	-9660	8.69
111	1600	-9600	8.70
111	1700	-9540	8.71
111	1800	-9480	8.72
111	1900	-9420	8.74
111	2000	-9360	8.76
111	2100	-9300	8.76
111	2200	-9240	8.73
111	2300	-9180	8.74
112	0	-9120	8.73
112	100	-9060	8.71
112	200	-9000	8.69
112	300	-8940	8.67
112	400	-8880	8.64
112	500	-8820	8.63
112	600	-8760	8.63
112	700	-8700	8.67
112	800	-8640	8.67
112	900	-8580	8.69
112	1000	-8520	8.67
112	1100	-8460	8.65
112	1200	-8400	8.67
112	1300	-8340	8.67
112	1400	-8280	8.68
112	1500	-8220	8.67
113	1100	-7020	9.99

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
113	1200	-6960	10.03
113	1300	-6900	10.07
113	1400	-6840	10.08
113	1500	-6780	10.12
113	1600	-6720	10.20
113	1700	-6660	10.20
113	1800	-6600	10.21
113	1900	-6540	10.23
113	2000	-6480	10.26
113	2100	-6420	10.29
113	2200	-6360	10.32
113	2300	-6300	10.35
114	0	-6240	10.38
114	100	-6180	10.40
114	200	-6120	10.40
114	300	-6060	10.39
114	400	-6000	10.36
114	500	-5940	10.34
114	600	-5880	10.34
114	700	-5820	10.33
114	800	-5760	10.33
114	900	-5700	10.35
114	1000	-5640	10.38
114	1100	-5580	10.40
114	1200	-5520	10.42
114	1300	-5460	10.43
114	1400	-5400	10.43
114	1500	-5340	10.43
114	1600	-5280	10.43
114	1700	-5220	10.43
114	1800	-5160	10.43
114	1900	-5100	10.44
114	2000	-5040	10.46
114	2100	-4980	10.47
114	2200	-4920	10.50
114	2300	-4860	10.53
115	0	-4800	10.54
115	100	-4740	10.55
115	200	-4680	10.57
115	300	-4620	10.57
115	400	-4560	10.56
115	500	-4500	10.56
115	600	-4440	10.56
115	700	-4380	10.56
115	800	-4320	10.58
115	900	-4260	10.61
115	1000	-4200	10.66
115	2100	-3000	19.39
115	2200	-2940	18.29
115	2300	-2880	17.48
116	0	-2820	16.85

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
116	100	-2760	16.31
116	200	-2700	15.84
116	300	-2640	15.42
116	400	-2580	15.04
116	500	-2520	14.70
116	600	-2460	14.40
116	700	-2400	14.13
116	800	-2340	13.88
116	900	-2280	13.79
116	1000	-2220	13.65
116	1100	-2160	13.51
116	1200	-2100	13.39
116	1300	-2040	13.28
116	1400	-1980	13.16
BEGIN PUMPING			
118	800	0	11.21
118	1101	181	67.00
118	1103	183	55.02
118	1105	185	52.76
118	1106	186	52.74
118	1107	187	52.78
118	1108	188	52.98
118	1109	189	53.22
118	1110	190	53.43
118	1112	192	53.96
118	1114.5	194.5	48.85
118	1116	196	48.40
118	1118	198	49.72
118	1120	200	50.06
118	1125	205	50.53
118	1130	210	51.80
118	1135	215	52.80
118	1140	220	53.21
118	1145	225	53.52
118	1154	234	54.07
118	1204	244	54.55
118	1210	250	54.81
118	1220	260	55.28
118	1230	270	55.63
118	1240	280	56.02
118	1250	290	56.37
118	1300	300	56.75
118	1310	310	57.07
118	1320	320	57.41
118	1330	330	57.76
118	1340	340	58.02
118	1350	350	58.30
118	1400	360	58.45
118	1430	390	59.40
118	1500	420	60.08
118	1530	450	60.60

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
118	1600	480	61.25
118	1700	540	61.95
118	1730	570	62.49
118	1800	600	62.91
118	1830	630	63.33
118	1900	660	63.85
118	1930	690	64.40
118	2000	720	64.85
118	2100	780	65.19
118	2200	840	65.82
118	2300	900	66.69
119	0	960	70.32
119	100	1020	71.15
119	200	1080	71.93
119	300	1140	72.65
119	400	1200	72.12
119	500	1260	73.60
119	600	1320	73.95
119	700	1380	74.90
119	800	1440	75.28
119	900	1500	75.70
119	1000	1560	76.03
119	1100	1620	75.60
119	1200	1680	75.82
119	1300	1740	76.17
119	1400	1800	76.45
119	1500	1860	76.69
119	1600	1920	76.98
119	1700	1980	77.26
119	1800	2040	77.29
119	1900	2100	77.39
119	2000	2160	77.62
119	2100	2220	77.96
119	2200	2280	78.14
119	2300	2340	78.44
120	0	2400	78.62
120	100	2460	78.97
120	200	2520	79.14
120	300	2580	79.38
120	400	2640	79.15
120	500	2700	79.89
120	600	2760	80.28
120	700	2820	80.51
120	800	2880	80.77
120	900	2940	80.88
120	1000	3000	81.17
120	1100	3060	81.43
120	1200	3120	81.65
120	1300	3180	81.93
120	1400	3240	82.12
120	1500	3300	82.25

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
120	1600	3360	82.48
120	1700	3420	82.61
120	1800	3480	82.77
120	1900	3540	83.08
120	2000	3600	83.30
120	2100	3660	83.51
120	2200	3720	83.57
120	2300	3780	83.92
121	0	3840	84.13
121	100	3900	84.30
121	200	3960	84.47
121	300	4020	84.65
121	400	4080	84.87
121	500	4140	85.02
121	600	4200	85.21
121	700	4260	85.53
121	800	4320	85.71
121	900	4380	86.03
121	1000	4440	86.22
121	1100	4500	86.44
121	1200	4560	86.68
121	1300	4620	86.79
121	1400	4680	86.96
121	1500	4740	87.12
121	1600	4800	87.26
121	1700	4860	87.38
121	1800	4920	87.55
121	1900	4980	87.80
121	2000	5040	88.02
121	2100	5100	88.35
121	2200	5160	88.56
121	2300	5220	88.70
122	0	5280	88.92
122	100	5340	89.01
122	200	5400	89.23
122	300	5460	89.38
122	400	5520	89.55
122	500	5580	89.74
122	600	5640	90.02
122	700	5700	92.09
122	800	5760	92.47
122	900	5820	92.45
122	1000	5880	92.92
BEGIN RECOVERY			
122	1230	6030	41.19
122	1300	6060	40.50
122	1330	6090	39.87
122	1400	6120	39.32
122	1430	6150	38.84
122	1500	6180	38.32
122	1530	6210	37.89

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
122	1600	6240	37.43
122	1630	6270	37.00
122	1700	6300	36.57
122	1730	6330	36.16
122	1800	6360	35.78
122	1830	6390	35.42
122	1900	6420	35.11
122	1930	6450	34.72
122	2000	6480	34.34
122	2030	6510	34.08
122	2100	6540	33.71
122	2130	6570	33.39
122	2200	6600	33.05
122	2230	6630	32.78
122	2300	6660	32.51
122	2330	6690	32.15
123	0	6720	31.92
123	30	6750	31.72
123	100	6780	31.40
123	130	6810	31.15
123	200	6840	30.89
123	230	6870	30.69
123	300	6900	30.48
123	330	6930	30.20
123	400	6960	30.00
123	430	6990	29.70
123	500	7020	29.50
123	530	7050	29.35
123	600	7080	29.05
123	630	7110	28.85
123	700	7140	28.68
123	730	7170	28.49
123	800	7200	28.29
123	830	7230	28.10
123	900	7260	27.89
123	930	7290	27.72
123	1000	7320	27.58
123	1030	7350	27.39
123	1100	7380	27.22
123	1130	7410	27.03
123	1200	7440	26.87
123	1230	7470	26.70
123	1300	7500	26.61
123	1330	7530	26.43
123	1400	7560	26.31
123	1430	7590	26.19
123	1500	7620	25.99
123	1530	7650	25.89
123	1600	7680	25.77
123	1630	7710	25.59
123	1700	7740	25.54

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
123	1730	7770	25.34
123	1800	7800	25.22
123	1830	7830	25.14
123	1900	7860	24.99
123	1930	7890	24.91
123	2000	7920	24.82
123	2030	7950	24.66
123	2100	7980	24.56
123	2130	8010	24.44
123	2200	8040	24.31
123	2230	8070	24.21
123	2300	8100	24.06
123	2330	8130	23.99
124	0	8160	23.81
124	30	8190	23.77
124	100	8220	23.59
124	130	8250	23.52
124	200	8280	23.40
124	230	8310	23.29
124	300	8340	23.22
124	330	8370	23.07
124	400	8400	22.95
124	430	8430	22.88
124	500	8460	22.82
124	530	8490	22.70
124	600	8520	22.65
124	630	8550	22.58
124	700	8580	22.48
124	730	8610	22.34
124	800	8640	22.29
124	830	8670	22.26
124	900	8700	22.10
124	930	8730	21.98
124	1000	8760	21.93
124	1030	8790	21.88
124	1100	8820	21.77
124	1130	8850	21.81
124	1200	8880	21.61
124	1230	8910	21.60
124	1300	8940	21.47
124	1330	8970	21.46
124	1400	9000	21.37
124	1430	9030	21.24
124	1500	9060	21.19
124	1530	9090	21.09
124	1600	9120	20.99
124	1630	9150	20.93
124	1700	9180	20.79
124	1730	9210	20.74
124	1800	9240	20.70
124	1830	9270	20.66

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
124	1900	9300	20.63
124	1930	9330	20.56
124	2000	9360	20.39
124	2030	9390	20.38
124	2100	9420	20.31
124	2130	9450	20.24
124	2200	9480	20.13
124	2230	9510	20.13
124	2300	9540	20.05
124	2330	9570	19.96
125	0	9600	19.91
125	30	9630	19.87
125	100	9660	19.77
125	130	9690	19.70
125	200	9720	19.65
125	230	9750	19.67
125	300	9780	19.55
125	330	9810	19.50
125	400	9840	19.49
125	430	9870	19.39
125	500	9900	19.32
125	530	9930	19.30
125	600	9960	19.23
125	630	9990	19.10
125	700	10020	19.01
125	730	10050	18.99
125	800	10080	18.97
125	830	10110	18.85
125	900	10140	18.85
125	930	10170	18.86
125	1000	10200	18.81
125	1030	10230	18.70
125	1100	10260	18.69
125	1130	10290	18.66
125	1200	10320	18.57
125	1230	10350	18.50
125	1300	10380	18.49
125	1330	10410	18.45
125	1400	10440	18.41
125	1430	10470	18.35
125	1500	10500	18.31
125	1530	10530	18.24
125	1600	10560	18.14
125	1630	10590	18.08
125	1700	10620	18.11
125	1730	10650	18.04
125	1800	10680	17.99
125	1830	10710	17.94
125	1900	10740	17.93
125	1930	10770	17.82
125	2000	10800	17.75

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
125	2030	10830	17.75
125	2100	10860	17.75
125	2130	10890	17.73
125	2200	10920	17.62
125	2230	10950	17.62
125	2300	10980	17.56
125	2330	11010	17.49
126	0	11040	17.48
126	30	11070	17.40
126	100	11100	17.43
126	130	11130	17.33
126	200	11160	17.35
126	230	11190	17.27
126	300	11220	17.29
126	330	11250	17.20
126	400	11280	17.18
126	430	11310	17.12
126	500	11340	17.23
126	530	11370	17.07
126	600	11400	17.06
126	630	11430	16.96
126	700	11460	16.98
126	730	11490	16.90
126	800	11520	16.85
126	830	11550	16.84
126	900	11580	16.79
126	930	11610	16.78
126	1000	11640	16.78
126	1030	11670	16.67
126	1100	11700	16.67
126	1130	11730	16.63
126	1200	11760	16.61
126	1230	11790	16.55
126	1300	11820	16.51
126	1330	11850	16.43
126	1400	11880	16.41
126	1430	11910	16.38
126	1500	11940	16.30
126	1530	11970	16.33
126	1600	12000	16.26
126	1630	12030	16.20
126	1700	12060	16.21
126	1730	12090	16.16
126	1800	12120	16.11
126	1830	12150	16.05
126	1900	12180	16.05
126	1930	12210	16.04
126	2000	12240	16.04
126	2030	12270	15.96
126	2100	12300	15.96
126	2130	12330	15.86

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
126	2200	12360	15.91
126	2230	12390	15.86
126	2300	12420	15.85
126	2330	12450	15.78
127	0	12480	15.81
127	30	12510	15.73
127	100	12540	15.67
127	130	12570	15.66
127	200	12600	15.61
127	230	12630	15.60
127	300	12660	15.55
127	330	12690	15.49
127	400	12720	15.44
127	430	12750	15.46
127	500	12780	15.37
127	530	12810	15.40
127	600	12840	15.38
127	630	12870	15.31
127	700	12900	15.31
127	730	12930	15.29
127	800	12960	15.27
127	830	12990	15.23
127	900	13020	15.18
127	930	13050	15.17
127	1000	13080	15.12
127	1030	13110	15.13
127	1100	13140	15.09
127	1130	13170	15.12
127	1200	13200	15.10
127	1230	13230	15.09
127	1300	13260	15.12
127	1330	13290	15.00
127	1400	13320	15.01
127	1430	13350	15.00
127	1500	13380	15.01
127	1530	13410	15.01
127	1600	13440	14.97
127	1630	13470	15.00
127	1700	13500	14.92
127	1730	13530	14.94
127	1800	13560	14.94
127	1830	13590	14.91
127	1900	13620	14.98
127	1930	13650	14.94
127	2000	13680	14.89
127	2030	13710	14.89
127	2100	13740	14.94
127	2130	13770	14.94
127	2200	13800	14.95
127	2230	13830	14.89
127	2300	13860	14.93

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
127	2330	13890	14.94
128	0	13920	14.90
128	30	13950	14.92
128	100	13980	14.84
128	130	14010	14.86
128	200	14040	14.83
128	230	14070	14.81
128	300	14100	14.83
128	330	14130	14.80
128	400	14160	14.69
128	430	14190	14.70
128	500	14220	14.70
128	530	14250	14.68
128	600	14280	14.59
128	630	14310	14.59
128	700	14340	14.54
128	730	14370	14.53
128	800	14400	14.50
128	830	14430	14.54
128	900	14460	14.47
128	930	14490	14.46
128	1000	14520	14.40
128	1030	14550	14.46
128	1100	14580	14.43
128	1130	14610	14.40
128	1200	14640	14.32
128	1230	14670	14.36
128	1300	14700	14.39
128	1330	14730	14.34
128	1400	14760	14.35
128	1430	14790	14.27
128	1500	14820	14.28
128	1530	14850	14.23
128	1600	14880	14.22
128	1630	14910	14.20
128	1700	14940	14.14
128	1730	14970	14.15
128	1800	15000	14.16
128	1830	15030	14.10
128	1900	15060	14.06
128	1930	15090	14.05
128	2000	15120	14.01
128	2030	15150	14.01
128	2100	15180	14.01
128	2130	15210	13.99
128	2200	15240	13.93
128	2230	15270	13.96
128	2300	15300	13.99
128	2330	15330	13.90
129	0	15360	13.93
129	30	15390	13.87

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
129	100	15420	13.86
129	130	15450	13.84
129	200	15480	13.85
129	230	15510	13.85
129	300	15540	13.79
129	330	15570	13.78
129	400	15600	13.69
129	430	15630	13.72
129	500	15660	13.70
129	530	15690	13.72
129	600	15720	13.63
129	630	15750	13.62
129	700	15780	13.58
129	730	15810	13.59
129	800	15840	13.58
129	830	15870	13.53
129	900	15900	13.52
129	930	15930	13.51
129	1000	15960	13.54
129	1030	15990	13.55
129	1100	16020	13.55
129	1130	16050	13.57
129	1200	16080	13.52
129	1230	16110	13.52
129	1300	16140	13.56
129	1330	16170	13.47
129	1400	16200	13.51
129	1430	16230	13.44
129	1500	16260	13.49
129	1530	16290	13.46
129	1600	16320	13.41
129	1630	16350	13.36
129	1700	16380	13.38
129	1730	16410	13.37
129	1800	16440	13.33
129	1830	16470	13.33
129	1900	16500	13.26
129	1930	16530	13.28

MONITORING WELL B-1

Emery & Garrett Groundwater, Inc.

RAW DATA FOR MONITORING WELL B-1
PUMPING TEST B-3 AND B-4
BEALETON, VIRGINIA

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
115	1430	-3930	12.94
115	1440	-3920	13.19
115	1450	-3910	13.40
115	1500	-3900	13.61
115	1510	-3890	13.82
115	1520	-3880	14.03
115	1530	-3870	14.22
115	1540	-3860	14.58
115	1550	-3850	14.92
115	1600	-3840	15.24
115	1610	-3830	15.53
115	1620	-3820	15.80
115	1630	-3810	16.07
115	1640	-3800	16.31
115	1650	-3790	16.55
115	1700	-3780	16.77
115	1710	-3770	17.29
115	1720	-3760	17.73
115	1730	-3750	18.12
115	1740	-3740	18.43
115	1750	-3730	18.73
115	1800	-3720	19.01
115	1810	-3710	19.29
115	1820	-3700	22.70
115	1830	-3690	19.82
115	1840	-3680	18.97
115	1850	-3670	18.31
115	1900	-3660	17.76
115	1910	-3650	17.30
115	1920	-3640	16.88
115	1930	-3630	16.51
115	1940	-3620	16.18
115	1950	-3610	15.89
115	2000	-3600	15.62
115	2010	-3590	15.41
115	2020	-3580	15.18
115	2030	-3570	14.97
115	2040	-3560	14.79
115	2050	-3550	14.61
115	2100	-3540	14.44
115	2110	-3530	14.29
115	2120	-3520	14.16
115	2130	-3510	14.04
115	2140	-3500	13.91
115	2150	-3490	13.79
115	2200	-3480	13.68
115	2210	-3470	13.58
115	2220	-3460	13.48
115	2230	-3450	13.39
115	2240	-3440	13.31

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
115	2250	-3430	13.23
115	2300	-3420	13.15
115	2310	-3410	13.08
115	2320	-3400	13.01
115	2330	-3390	12.94
115	2340	-3380	12.87
115	2350	-3370	12.81
116	0	-3360	12.76
116	10	-3350	12.69
116	20	-3340	12.64
116	30	-3330	12.59
116	40	-3320	12.53
116	50	-3310	12.47
116	100	-3300	12.41
116	110	-3290	12.36
116	120	-3280	12.31
116	130	-3270	12.25
116	140	-3260	12.20
116	150	-3250	12.14
116	200	-3240	12.08
116	210	-3230	12.02
116	220	-3220	11.96
116	230	-3210	11.91
116	240	-3200	11.85
116	250	-3190	11.80
116	300	-3180	11.74
116	310	-3170	11.69
116	320	-3160	11.64
116	330	-3150	11.59
116	340	-3140	11.54
116	350	-3130	11.49
116	400	-3120	11.44
116	410	-3110	11.39
116	420	-3100	11.34
116	430	-3090	11.29
116	440	-3080	11.24
116	450	-3070	11.20
116	500	-3060	11.15
116	510	-3050	11.11
116	520	-3040	11.06
116	530	-3030	11.02
116	540	-3020	10.98
116	550	-3010	10.95
116	600	-3000	10.91
116	610	-2990	10.86
116	620	-2980	10.83
116	630	-2970	10.80
116	640	-2960	10.76
116	650	-2950	10.73
116	700	-2940	10.69
116	710	-2930	10.65
116	800	-2880	10.51
116	900	-2820	10.53
116	1000	-2760	10.50

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
116	1100	-2700	10.48
116	1200	-2640	10.47
116	1300	-2580	10.47
116	1400	-2520	10.42
116	1500	-2460	10.37
116	1600	-2400	10.26
116	1700	-2340	10.15
116	1800	-2280	10.07
116	1900	-2220	9.99
116	2000	-2160	9.92
116	2100	-2100	9.83
116	2200	-2040	9.75
116	2300	-1980	9.69
117	0	-1920	9.61
117	100	-1860	9.52
117	200	-1800	9.44
117	300	-1740	9.33
117	400	-1680	9.22
117	500	-1620	9.11
117	600	-1560	9.01
117	700	-1500	8.88
117	800	-1440	8.18
117	900	-1380	8.12
117	1000	-1320	8.08
117	1100	-1260	8.05
117	1200	-1200	8.07
117	1300	-1140	8.14
117	1400	-1080	9.38
117	1500	-1020	8.22
117	1600	-960	8.26
117	1700	-900	8.28
117	1800	-840	8.26
117	1900	-780	8.25
117	2000	-720	8.23
117	2100	-660	8.22
117	2200	-600	8.24
117	2300	-540	8.25
118	0	-480	8.28
118	100	-420	8.30
118	200	-360	8.31
118	300	-300	8.32
118	400	-240	8.31
118	500	-180	8.28
118	600	-120	8.27
118	700	-60	8.25
118	800	0	8.25
118	900	60	12.91
118	1000	120	17.02
118	1100	180	20.31
118	1200	240	19.37
118	1300	300	20.63
118	1400	360	21.69
118	1500	420	22.61
118	1600	480	23.42

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
118	1700	540	24.17
118	1800	600	24.38
118	1900	660	25.26
118	2000	720	25.96
118	2100	780	26.60
118	2200	840	27.17
118	2300	900	27.72
119	0	960	28.24
119	100	1020	28.67
119	200	1080	29.06
119	300	1140	29.43
119	400	1200	29.77
119	500	1260	30.08
119	600	1320	30.37
119	700	1380	30.64
119	800	1440	30.91
119	900	1500	31.22
119	1000	1560	31.54
119	1100	1620	31.88
119	1200	1680	32.24
119	1300	1740	32.56
119	1400	1800	32.88
119	1500	1860	33.15
119	1600	1920	33.38
119	1700	1980	33.60
119	1800	2040	36.56
119	1900	2100	34.00
119	2000	2160	34.22
119	2100	2220	34.41
119	2200	2280	34.58
119	2300	2340	34.74
120	0	2400	34.86
120	100	2460	34.98
120	200	2520	35.11
120	300	2580	35.25
120	400	2640	35.37
120	500	2700	35.52
120	600	2760	35.62
120	700	2820	35.72
120	800	2880	35.82
120	900	2940	35.99
120	1000	3000	36.19
120	1100	3060	36.42
120	1200	3120	36.65
120	1300	3180	36.87
120	1400	3240	37.12
120	1500	3300	37.30
120	1600	3360	37.46
120	1700	3420	37.60
120	1800	3480	37.76
120	1900	3540	37.92
120	2000	3600	38.08
120	2100	3660	38.22
120	2200	3720	38.36

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
120	2300	3780	38.52
121	0	3840	38.61
121	100	3900	38.73
121	200	3960	38.87
121	300	4020	39.02
121	400	4080	39.12
121	500	4140	39.17
121	600	4200	39.21
121	700	4260	39.23
121	800	4320	39.26
121	900	4380	39.29
121	1000	4440	39.36
121	1100	4500	39.47
121	1200	4560	39.61
121	1300	4620	39.76
121	1400	4680	39.89
121	1500	4740	40.03
121	1600	4800	40.18
121	1700	4860	40.28
121	1800	4920	40.32
121	1900	4980	40.39
121	2000	5040	40.45
121	2100	5100	40.51
121	2200	5160	40.58
121	2300	5220	40.68
122	0	5280	40.75
122	100	5340	40.81
122	200	5400	40.83
122	300	5460	40.85
122	400	5520	40.88
122	500	5580	40.89
122	600	5640	40.89
122	700	5700	40.94
122	800	5760	41.01
122	900	5820	41.10
BEGIN RECOVERY			
122	1000	5880	41.20
122	1100	5940	37.16
122	1200	6000	34.84
122	1300	6060	33.20
122	1400	6120	31.89
122	1500	6180	30.78
122	1600	6240	29.83
122	1700	6300	29.03
122	1800	6360	28.36
122	1900	6420	27.77
122	2000	6480	27.24
122	2100	6540	26.72
122	2200	6600	26.26
122	2300	6660	25.80
123	0	6720	25.35
123	100	6780	24.89
123	200	6840	24.44
123	300	6900	24.01

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
123	400	6960	23.62
123	500	7020	23.21
123	600	7080	22.84
123	700	7140	22.50
123	800	7200	22.23
123	900	7260	22.00
123	1000	7320	21.78
123	1100	7380	21.56
123	1200	7440	21.30
123	1300	7500	21.03
123	1400	7560	20.78
123	1500	7620	20.58
123	1600	7680	20.41
123	1700	7740	20.26
123	1800	7800	20.10
123	1900	7860	19.97
123	2000	7920	19.84
123	2100	7980	19.70
123	2200	8040	19.48
123	2300	8100	19.26
124	0	8160	19.02
124	100	8220	18.80
124	200	8280	18.60
124	300	8340	18.41
124	400	8400	18.20
124	500	8460	18.05
124	600	8520	17.96
124	700	8580	17.90
124	800	8640	17.82
124	900	8700	17.72
124	1000	8760	17.63
124	1100	8820	17.55
124	1200	8880	17.45
124	1300	8940	17.30
124	1400	9000	17.15
124	1500	9060	16.98
124	1600	9120	16.82
124	1700	9180	16.68
124	1800	9240	16.54
124	1900	9300	16.43
124	2000	9360	16.30
124	2100	9420	16.16
124	2200	9480	16.02
124	2300	9540	15.95
125	0	9600	15.90
125	100	9660	15.86
125	200	9720	15.83
125	300	9780	15.79
125	400	9840	15.73
125	500	9900	15.61
125	600	9960	15.50
125	700	10020	15.38
125	800	10080	15.26
125	900	10140	15.21

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
125	1000	10200	15.17
125	1100	10260	15.15
125	1200	10320	15.10
125	1300	10380	15.02
125	1400	10440	14.92
125	1500	10500	14.79
125	1600	10560	14.71
125	1700	10620	14.59
125	1800	10680	14.47
125	1900	10740	14.37
125	2000	10800	14.33
125	2100	10860	14.30
125	2200	10920	14.28
125	2300	10980	14.26
126	0	11040	14.22
126	100	11100	14.15
126	200	11160	14.06
126	300	11220	13.96
126	400	11280	13.85
126	500	11340	13.76
126	600	11400	13.66
126	700	11460	13.58
126	800	11520	13.51
126	900	11580	13.51
126	1000	11640	13.50
126	1100	11700	13.46
126	1200	11760	13.39
126	1300	11820	13.30
126	1400	11880	13.20
126	1500	11940	13.09
126	1600	12000	13.00
126	1700	12060	12.89
126	1800	12120	12.82
126	1900	12180	12.83
126	2000	12240	12.85
126	2100	12300	12.86
126	2200	12360	12.86
126	2300	12420	12.86
127	0	12480	12.79
127	100	12540	12.70
127	200	12600	12.59
127	300	12660	12.51
127	400	12720	12.40
127	500	12780	12.31
127	600	12840	12.23
127	700	12900	12.17
127	800	12960	12.10
127	900	13020	12.05
127	1000	13080	12.04
127	1100	13140	12.07
127	1200	13200	12.10
127	1300	13260	12.15
127	1400	13320	12.18
127	1500	13380	12.24

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
127	1600	13440	12.24
127	1700	13500	12.23
127	1800	13560	12.23
127	1900	13620	12.26
127	2000	13680	12.30
127	2100	13740	12.36
127	2200	13800	12.40
127	2300	13860	12.44
128	0	13920	12.42
128	100	13980	12.34
128	200	14040	12.30
128	300	14100	12.19
128	400	14160	12.09
128	500	14220	12.00
128	600	14280	11.89
128	700	14340	11.81
128	800	14400	11.76
128	900	14460	11.68
128	1000	14520	11.64
128	1100	14580	11.65
128	1200	14640	11.65
128	1300	14700	11.70
128	1400	14760	11.69
128	1500	14820	11.69
128	1600	14880	11.69
128	1700	14940	11.65
128	1800	15000	11.58
128	1900	15060	11.50
128	2000	15120	11.46
128	2100	15180	11.44
128	2200	15240	11.48
128	2300	15300	11.49
129	0	15360	11.49
129	100	15420	11.44
129	200	15480	11.36
129	300	15540	11.29
129	400	15600	11.17
129	500	15660	11.06
129	600	15720	10.97
129	700	15780	10.91
129	800	15840	10.88
129	900	15900	10.90
129	1000	15960	10.97
129	1100	16020	11.04
129	1200	16080	11.05
129	1300	16140	11.01
129	1400	16200	10.94
129	1500	16260	10.86
129	1600	16320	10.79
129	1700	16380	10.71
129	1800	16440	10.66
129	1900	16500	10.65

MONITORING WELL B-2

Emery & Garrett Groundwater, Inc.

RAW DATA FOR MONITORING WELL B-2
PUMPING TEST B-3 AND B-4
BEALETON, VIRGINIA

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
110	1200	-11280	9.47
110	1300	-11220	9.54
110	1400	-11160	9.59
110	1500	-11100	9.66
110	1600	-11040	9.65
110	1700	-10980	9.74
110	1800	-10920	9.76
110	2200	-10680	9.53
110	2300	-10620	9.59
111	0	-10560	9.45
111	100	-10500	9.42
111	200	-10440	9.39
111	300	-10380	9.39
111	400	-10320	9.40
111	500	-10260	9.39
111	600	-10200	9.40
111	700	-10140	9.36
111	800	-10080	9.48
111	900	-10020	9.46
111	1000	-9960	9.58
111	1100	-9900	9.64
111	1200	-9840	9.64
111	1300	-9780	9.65
111	1400	-9720	9.67
111	1500	-9660	9.68
111	1600	-9600	9.67
111	1700	-9540	9.61
111	1800	-9480	9.65
111	1900	-9420	9.67
111	2000	-9360	9.63
111	2100	-9300	9.65
111	2200	-9240	9.67
111	2300	-9180	9.65
112	0	-9120	9.59
112	100	-9060	9.56
112	200	-9000	9.49
112	300	-8940	9.46
112	400	-8880	9.44
112	500	-8820	9.41
112	600	-8760	9.39
112	700	-8700	9.47
112	800	-8640	9.45
112	900	-8580	9.47
112	1000	-8520	9.48
112	1100	-8460	9.51
112	1200	-8400	9.46
112	1300	-8340	9.54
112	1400	-8280	9.64
112	1500	-8220	9.63

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
112	1600	-8160	9.60
112	1700	-8100	9.57
112	1800	-8040	9.67
112	1900	-7980	9.57
112	2000	-7920	9.60
112	2100	-7860	9.61
112	2200	-7800	9.71
112	2300	-7740	9.70
113	0	-7680	9.64
113	100	-7620	9.55
113	200	-7560	9.54
113	300	-7500	9.52
113	400	-7440	9.48
113	500	-7380	9.43
113	600	-7320	9.47
113	700	-7260	9.48
113	800	-7200	9.51
113	900	-7140	9.50
113	1000	-7080	9.59
113	1100	-7020	9.62
113	1200	-6960	9.61
113	1300	-6900	9.64
113	1400	-6840	9.62
113	1500	-6780	9.60
113	1600	-6720	9.63
113	1700	-6660	9.68
113	1800	-6600	9.67
113	1900	-6540	9.74
113	2000	-6480	9.73
113	2100	-6420	9.75
113	2200	-6360	9.74
113	2300	-6300	9.79
114	0	-6240	9.86
114	100	-6180	9.81
114	200	-6120	9.79
114	300	-6060	9.77
114	400	-6000	9.74
114	500	-5940	9.67
114	600	-5880	9.79
114	700	-5820	9.78
114	800	-5760	9.79
114	900	-5700	9.77
114	1000	-5640	9.85
114	1100	-5580	9.87
114	1200	-5520	9.97
114	1300	-5460	10.02
114	1400	-5400	9.99
114	1500	-5340	10.03
114	1600	-5280	9.97
114	1700	-5220	9.94
114	1800	-5160	9.96
114	1900	-5100	9.94
114	2000	-5040	9.94

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
114	2100	-4980	10.00
114	2200	-4920	10.06
114	2300	-4860	10.10
115	0	-4800	10.02
115	100	-4740	10.03
115	200	-4680	10.00
115	300	-4620	10.01
115	400	-4560	9.96
115	500	-4500	9.97
115	600	-4440	9.97
115	700	-4380	9.95
115	800	-4320	9.97
115	900	-4260	10.06
115	1000	-4200	10.08
115	1100	-4140	10.19
115	1200	-4080	10.56
115	1300	-4020	10.94
115	1400	-3960	11.53
115	1500	-3900	12.33
115	1600	-3840	13.34
115	1700	-3780	14.63
115	1800	-3720	15.98
115	1900	-3660	16.84
115	2000	-3600	16.81
115	2100	-3540	16.63
115	2200	-3480	16.42
115	2300	-3420	16.30
116	0	-3360	16.14
116	100	-3300	15.91
116	200	-3240	15.75
116	300	-3180	15.55
116	400	-3120	15.37
116	500	-3060	15.20
116	600	-3000	15.03
116	700	-2940	14.90
116	800	-2880	14.75
116	900	-2820	14.70
116	1000	-2760	14.67
116	1100	-2700	14.68
116	1200	-2640	14.62
116	1300	-2580	14.59
116	1400	-2520	14.50
116	1500	-2460	14.51
116	1600	-2400	14.39
116	1700	-2340	14.25
116	1800	-2280	14.17
116	1900	-2220	14.03
116	2000	-2160	14.07
116	2100	-2100	13.98
116	2200	-2040	13.93
116	2300	-1980	13.87
117	0	-1920	13.84
117	100	-1860	13.77

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
117	200	-1800	13.68
117	300	-1740	13.62
117	400	-1680	13.58
117	500	-1620	13.46
117	600	-1560	13.38
117	700	-1500	13.36
117	800	-1440	13.36
117	900	-1380	13.32
117	1000	-1320	13.31
117	1100	-1260	13.29
117	1200	-1200	13.33
117	1300	-1140	13.30
117	1400	-1080	13.29
117	1500	-1020	13.27
117	1600	-960	13.35
117	1700	-900	13.37
117	1800	-840	13.28
117	1900	-780	13.21
117	2000	-720	13.15
117	2100	-660	13.11
117	2200	-600	13.02
117	2300	-540	13.05
118	0	-480	13.06
118	100	-420	13.04
118	200	-360	13.02
118	300	-300	12.96
118	400	-240	12.91
118	500	-180	12.89
118	600	-120	12.79
118	700	-60	12.73
118	715	-45	12.73
118	730	-30	12.72
118	745	-15	12.70
118	800	0	12.69
118	815	15	12.72
118	830	30	12.73
118	845	45	12.73
118	900	60	12.69
118	915	75	12.71
118	930	90	12.76
118	945	105	12.74
118	1000	120	12.74
118	1015	135	12.74
118	1030	150	12.77
118	1045	165	12.81
118	1100	180	12.82
118	1115	195	12.98
118	1130	210	13.20
118	1145	225	13.39
118	1200	240	13.64
118	1215	255	13.86
118	1230	270	14.07
118	1245	285	14.33

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
118	1300	300	14.50
118	1315	315	14.75
118	1330	330	14.93
118	1345	345	15.13
118	1400	360	15.28
118	1415	375	15.49
118	1430	390	15.72
118	1445	405	15.88
118	1500	420	16.03
118	1515	435	16.19
118	1530	450	16.36
118	1545	465	16.55
118	1600	480	16.67
118	1615	495	16.84
118	1630	510	16.98
118	1645	525	17.17
118	1700	540	17.28
118	1715	555	17.43
118	1730	570	17.57
118	1745	585	17.71
118	1800	600	17.87
118	1815	615	18.04
118	1830	630	18.16
118	1845	645	18.29
118	1900	660	18.41
118	1915	675	18.51
118	1930	690	18.63
118	1945	705	18.74
118	2000	720	18.87
118	2015	735	18.98
118	2030	750	19.10
118	2045	765	19.23
118	2100	780	19.35
118	2115	795	19.45
118	2130	810	19.53
118	2145	825	19.66
118	2200	840	19.77
118	2215	855	19.87
118	2230	870	19.96
118	2245	885	20.07
118	2300	900	20.19
118	2315	915	20.28
118	2330	930	20.39
118	2345	945	20.52
119	0	960	20.64
119	15	975	20.68
119	30	990	20.77
119	45	1005	20.92
119	100	1020	21.01
119	115	1035	21.16
119	130	1050	21.24
119	145	1065	21.34
119	200	1080	21.47

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
119	215	1095	21.51
119	230	1110	21.62
119	245	1125	21.69
119	300	1140	21.78
119	315	1155	21.86
119	330	1170	21.99
119	345	1185	22.05
119	400	1200	22.12
119	415	1215	22.23
119	430	1230	22.37
119	445	1245	22.41
119	500	1260	22.52
119	515	1275	22.63
119	530	1290	22.66
119	545	1305	22.76
119	600	1320	22.86
119	615	1335	22.94
119	630	1350	23.00
119	645	1365	23.08
119	700	1380	23.12
119	715	1395	23.19
119	730	1410	23.30
119	745	1425	23.36
119	800	1440	23.44
119	815	1455	23.53
119	830	1470	23.58
119	845	1485	23.66
119	900	1500	23.71
119	1000	1560	24.06
119	1100	1620	24.31
119	1200	1680	24.60
119	1300	1740	24.85
119	1400	1800	25.07
119	1500	1860	25.40
119	1600	1920	25.56
119	1700	1980	25.73
119	1800	2040	26.05
119	1900	2100	26.14
119	2000	2160	26.30
119	2100	2220	26.46
119	2200	2280	26.65
119	2300	2340	26.78
120	0	2400	27.00
120	100	2460	27.12
120	200	2520	27.27
120	300	2580	27.44
120	400	2640	27.57
120	500	2700	27.73
120	600	2760	27.88
120	700	2820	27.97
120	800	2880	28.13
120	900	2940	28.26
120	1000	3000	28.39

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
120	1100	3060	28.53
120	1200	3120	28.68
120	1300	3180	28.84
120	1400	3240	28.96
120	1500	3300	29.10
120	1600	3360	29.23
120	1700	3420	29.41
120	1800	3480	29.48
120	1900	3540	29.57
120	2000	3600	29.66
120	2100	3660	29.84
120	2200	3720	29.89
120	2300	3780	30.07
121	0	3840	30.10
121	100	3900	30.25
121	200	3960	30.39
121	300	4020	30.48
121	400	4080	30.56
121	500	4140	30.63
121	600	4200	30.72
121	700	4260	30.77
121	800	4320	30.80
121	900	4380	30.92
121	1000	4440	30.98
121	1100	4500	31.07
121	1200	4560	31.16
121	1300	4620	31.24
121	1400	4680	31.33
121	1500	4740	31.36
121	1600	4800	31.41
121	1700	4860	31.51
121	1800	4920	31.51
121	1900	4980	31.59
121	2000	5040	31.59
121	2100	5100	31.62
121	2200	5160	31.72
121	2300	5220	31.66
122	0	5280	31.82
122	100	5340	31.84
122	200	5400	31.83
122	300	5460	31.97
122	400	5520	32.01
122	500	5580	32.06
122	600	5640	32.11
122	700	5700	32.12
122	800	5760	30.89
122	900	5820	32.26
BEGIN RECOVERY			
122	1000	5880	32.31
122	1100	5940	32.00
122	1200	6000	31.69
122	1300	6060	31.28
122	1400	6120	30.97

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
122	1500	6180	30.68
122	1600	6240	30.36
122	1700	6300	30.02
122	1800	6360	29.76
122	1900	6420	29.48
122	2000	6480	29.14
122	2100	6540	28.84
122	2200	6600	28.48
122	2300	6660	28.22
123	0	6720	27.95
123	100	6780	27.64
123	200	6840	27.39
123	300	6900	27.15
123	400	6960	26.95
123	500	7020	26.73
123	600	7080	26.40
123	700	7140	26.18
123	800	7200	25.93
123	900	7260	25.73
123	1000	7320	25.48
123	1100	7380	25.54
123	1200	7440	25.44
123	1300	7500	25.34
123	1400	7560	25.23
123	1500	7620	24.87
123	1600	7680	24.62
123	1700	7740	24.47
123	1800	7800	24.28
123	1900	7860	24.10
123	2000	7920	23.94
123	2100	7980	23.70
123	2200	8040	23.50
123	2300	8100	23.31
124	0	8160	23.13
124	100	8220	22.92
124	200	8280	22.80
124	300	8340	22.67
124	400	8400	22.53
124	500	8460	22.39
124	600	8520	22.26
124	700	8580	22.16
124	800	8640	21.99
124	900	8700	21.88
124	1000	8760	21.69
124	1100	8820	21.61
124	1200	8880	21.48
124	1300	8940	21.34
124	1400	9000	21.27
124	1500	9060	21.16
124	1600	9120	21.01
124	1700	9180	20.94
124	1800	9240	20.84
124	1900	9300	20.76

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
124	2000	9360	20.65
124	2100	9420	20.58
124	2200	9480	20.43
124	2300	9540	20.34
125	0	9600	20.20
125	100	9660	20.12
125	200	9720	20.02
125	300	9780	19.91
125	400	9840	19.85
125	500	9900	19.72
125	600	9960	19.64
125	700	10020	19.54
125	800	10080	19.47
125	900	10140	19.45
125	1000	10200	19.36
125	1100	10260	19.31
125	1200	10320	19.26
125	1300	10380	19.16
125	1400	10440	19.06
125	1500	10500	18.94
125	1600	10560	18.85
125	1700	10620	18.80
125	1800	10680	18.71
125	1900	10740	18.64
125	2000	10800	18.54
125	2100	10860	18.47
125	2200	10920	18.44
125	2300	10980	18.37
126	0	11040	18.26
126	100	11100	18.20
126	200	11160	18.09
126	300	11220	18.07
126	400	11280	18.00
126	500	11340	17.95
126	600	11400	17.90
126	700	11460	17.83
126	800	11520	17.75
126	900	11580	17.72
126	1000	11640	17.66
126	1100	11700	17.55
126	1200	11760	17.52
126	1300	11820	17.48
126	1400	11880	17.37
126	1500	11940	17.35
126	1600	12000	17.27
126	1700	12060	17.21
126	1800	12120	17.15
126	1900	12180	17.12
126	2000	12240	17.11
126	2100	12300	16.99
126	2200	12360	16.95
126	2300	12420	16.89
127	0	12480	16.85

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
127	100	12540	16.74
127	200	12600	16.66
127	300	12660	16.61
127	400	12720	16.52
127	500	12780	16.47
127	600	12840	16.45
127	700	12900	16.39
127	800	12960	16.39
127	900	13020	16.33
127	1000	13080	16.31
127	1100	13140	16.29
127	1200	13200	16.30
127	1300	13260	16.26
127	1400	13320	16.26
127	1500	13380	16.25
127	1600	13440	16.17
127	1700	13500	16.19
127	1800	13560	16.16
127	1900	13620	16.18
127	2000	13680	16.14
127	2100	13740	16.19
127	2200	13800	16.16
127	2300	13860	16.16
128	0	13920	16.15
128	100	13980	16.04
128	200	14040	16.10
128	300	14100	16.01
128	400	14160	15.97
128	500	14220	15.93
128	600	14280	15.88
128	700	14340	15.80
128	800	14400	15.80
128	900	14460	15.80
128	1000	14520	15.75
128	1100	14580	15.69
128	1200	14640	15.69
128	1300	14700	15.62
128	1400	14760	15.58
128	1500	14820	15.54
128	1600	14880	15.54
128	1700	14940	15.43
128	1800	15000	15.41
128	1900	15060	15.37
128	2000	15120	15.33
128	2100	15180	15.33
128	2200	15240	15.26
128	2300	15300	15.26
129	0	15360	15.20
129	100	15420	15.21
129	200	15480	15.17
129	300	15540	15.08
129	400	15600	15.07
129	500	15660	15.09

MONITORING WELL: B-2

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
129	600	15720	15.02
129	700	15780	14.96
129	800	15840	14.94
129	900	15900	14.89
129	1000	15960	14.93
129	1100	16020	14.90
129	1200	16080	14.88

CARROLL DOMESTIC WELL

Emery & Garrett Groundwater, Inc.

RAW DATA FOR CARROLL MONITORING WELL
PUMPING TEST B-3 AND B-4
BEALETON, VIRGINIA

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
110	1200	-11280	17.6
110	1230	-11250	18.6
110	1300	-11220	17.9
110	1330	-11190	17.7
110	1400	-11160	19.3
110	1430	-11130	18.8
110	1500	-11100	18.5
110	1530	-11070	18.3
110	1600	-11040	25.5
110	1630	-11010	26.4
110	1700	-10980	24.4
110	1730	-10950	21.5
110	1800	-10920	20.0
110	1830	-10890	19.8
110	1900	-10860	17.6
110	1930	-10830	17.6
110	2000	-10800	17.6
110	2030	-10770	23.4
110	2100	-10740	19.0
110	2130	-10710	20.8
110	2200	-10680	19.5
110	2230	-10650	19.2
110	2300	-10620	17.5
110	2330	-10590	17.4
111	0	-10560	17.4
111	30	-10530	17.5
111	100	-10500	17.5
111	130	-10470	17.7
111	200	-10440	18.1
111	230	-10410	16.9
111	300	-10380	17.0
111	330	-10350	17.1
111	400	-10320	17.2
111	430	-10290	17.3
111	500	-10260	17.5
111	530	-10230	17.6
111	600	-10200	17.0
111	630	-10170	16.9
111	700	-10140	20.1
111	730	-10110	18.1
111	800	-10080	17.7
111	830	-10050	17.7
111	900	-10020	20.4
111	930	-9990	26.1
111	1000	-9960	26.7
111	1030	-9930	23.0
111	1100	-9900	19.4
111	1130	-9870	18.5

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
111	1200	-9840	18.3
111	1230	-9810	18.8
111	1300	-9780	17.4
111	1330	-9750	17.5
111	1400	-9720	17.6
111	1430	-9690	17.0
111	1500	-9660	18.3
111	1530	-9630	17.9
111	1600	-9600	19.5
111	1630	-9570	18.7
111	1700	-9540	17.3
111	1730	-9510	17.3
111	1800	-9480	17.3
111	1830	-9450	25.6
111	1900	-9420	20.3
111	1930	-9390	18.8
111	2000	-9360	18.4
111	2030	-9330	18.6
111	2100	-9300	17.3
111	2130	-9270	17.4
111	2200	-9240	17.6
111	2230	-9210	17.4
111	2300	-9180	17.5
111	2330	-9150	17.7
112	0	-9120	16.9
112	30	-9090	17.1
112	100	-9060	17.3
112	130	-9030	17.6
112	200	-9000	16.8
112	230	-8970	17.0
112	300	-8940	17.3
112	330	-8910	17.6
112	400	-8880	16.7
112	430	-8850	17.0
112	500	-8820	17.3
112	530	-8790	17.4
112	600	-8760	16.8
112	630	-8730	17.0
112	700	-8700	17.2
112	730	-8670	22.2
112	800	-8640	27.2
112	830	-8610	26.7
112	900	-8580	23.5
112	930	-8550	19.5
112	1000	-8520	18.8
112	1030	-8490	19.0
112	1100	-8460	17.4
112	1130	-8430	17.5
112	1200	-8400	17.9
112	1230	-8370	17.0
112	1300	-8340	17.2
112	1330	-8310	17.5

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
112	1400	-8280	18.0
112	1430	-8250	17.0
112	1500	-8220	19.8
112	1530	-8190	36.2
112	1600	-8160	33.2
112	1630	-8130	40.3
112	1700	-8100	30.4
112	1730	-8070	35.6
112	1800	-8040	36.6
112	1830	-8010	42.8
112	1900	-7980	37.8
112	1930	-7950	30.4
112	2000	-7920	25.9
112	2030	-7890	23.4
112	2100	-7860	35.7
112	2130	-7830	33.6
112	2200	-7800	27.7
112	2230	-7770	24.4
112	2300	-7740	20.9
112	2330	-7710	19.8
113	0	-7680	19.6
113	30	-7650	19.8
113	100	-7620	18.1
113	130	-7590	18.3
113	200	-7560	18.7
113	230	-7530	17.5
113	300	-7500	17.7
113	330	-7470	18.0
113	400	-7440	18.7
113	430	-7410	17.4
113	500	-7380	17.5
113	530	-7350	18.0
113	600	-7320	17.3
113	630	-7290	19.1
113	700	-7260	17.4
113	730	-7230	17.4
113	800	-7200	20.3
113	830	-7170	20.9
113	900	-7140	18.0
113	930	-7110	22.3
113	1000	-7080	34.1
113	1030	-7050	24.7
113	1100	-7020	21.7
113	1130	-6990	19.1
113	1200	-6960	51.8
113	1230	-6930	41.7
113	1300	-6900	32.3
113	1330	-6870	27.6
113	1400	-6840	23.2
113	1430	-6810	21.3
113	1500	-6780	20.1
113	1530	-6750	18.9

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
113	1600	-6720	19.0
113	1630	-6690	19.5
113	1700	-6660	17.9
113	1730	-6630	18.2
113	1800	-6600	18.7
113	1830	-6570	19.8
113	1900	-6540	19.1
113	1930	-6510	18.7
113	2000	-6480	18.5
113	2030	-6450	18.3
113	2100	-6420	19.4
113	2130	-6390	18.8
113	2200	-6360	18.6
113	2230	-6330	18.5
113	2300	-6300	19.6
113	2330	-6270	21.1
114	0	-6240	19.6
114	30	-6210	19.4
114	100	-6180	19.2
114	130	-6150	19.4
114	200	-6120	17.7
114	230	-6090	17.7
114	300	-6060	17.7
114	330	-6030	17.8
114	400	-6000	17.9
114	430	-5970	19.4
114	500	-5940	20.9
114	530	-5910	21.1
114	600	-5880	19.6
114	630	-5850	18.9
114	700	-5820	18.6
114	730	-5790	18.5
114	800	-5760	18.4
114	830	-5730	18.3
114	900	-5700	19.9
114	930	-5670	23.4
114	1000	-5640	21.0
114	1030	-5610	19.9
114	1100	-5580	19.4
114	1130	-5550	34.5
114	1200	-5520	27.8
114	1230	-5490	24.3
114	1300	-5460	23.6
114	1330	-5430	21.0
114	1400	-5400	19.8
114	1430	-5370	19.2
114	1500	-5340	18.8
114	1530	-5310	18.6
114	1600	-5280	20.3
114	1630	-5250	20.1
114	1700	-5220	19.9
114	1730	-5190	19.7

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
114	1800	-5160	19.5
114	1830	-5130	19.4
114	1900	-5100	19.3
114	1930	-5070	19.2
114	2000	-5040	19.2
114	2030	-5010	24.4
114	2100	-4980	28.7
114	2130	-4950	24.4
114	2200	-4920	24.7
114	2230	-4890	21.8
114	2300	-4860	20.6
114	2330	-4830	20.0
115	0	-4800	19.8
115	30	-4770	19.6
115	100	-4740	19.6
115	130	-4710	19.6
115	200	-4680	19.6
115	230	-4650	19.8
115	300	-4620	18.0
115	330	-4590	18.1
115	400	-4560	18.1
115	430	-4530	18.2
115	500	-4500	18.2
115	530	-4470	18.3
115	600	-4440	18.5
115	630	-4410	18.6
115	700	-4380	20.9
115	730	-4350	19.6
115	800	-4320	19.3
115	830	-4290	19.4
115	900	-4260	27.3
115	930	-4230	23.4
115	1000	-4200	22.3
115	1030	-4170	25.2
115	1100	-4140	22.3
115	1130	-4110	21.1
115	1200	-4080	20.6
115	1230	-4050	20.3
115	1300	-4020	19.8
115	1330	-3990	26.2
115	1400	-3960	29.8
115	1430	-3930	25.8
115	1500	-3900	22.8
115	1530	-3870	21.4
115	1600	-3840	20.7
115	1630	-3810	20.3
115	1700	-3780	20.2
115	1730	-3750	20.1
115	1800	-3720	20.0
115	1830	-3690	20.3
115	1900	-3660	20.7
115	1930	-3630	21.0

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
115	2000	-3600	22.0
115	2030	-3570	26.8
115	2100	-3540	26.9
115	2130	-3510	24.4
115	2200	-3480	25.6
115	2230	-3450	23.4
115	2300	-3420	24.9
115	2330	-3390	23.4
116	0	-3360	22.6
116	30	-3330	22.3
116	100	-3300	22.1
116	130	-3270	21.9
116	200	-3240	21.8
116	230	-3210	21.8
116	300	-3180	21.7
116	330	-3150	21.7
116	400	-3120	21.6
116	430	-3090	21.6
116	500	-3060	21.6
116	530	-3030	21.5
116	600	-3000	21.5
116	630	-2970	21.4
116	700	-2940	21.4
116	730	-2910	21.4
116	800	-2880	22.6
116	830	-2850	34.6
116	900	-2820	37.2
116	930	-2790	30.9
116	1000	-2760	26.8
116	1030	-2730	29.2
116	1100	-2700	25.7
116	1130	-2670	23.4
116	1200	-2640	22.0
116	1230	-2610	22.7
116	1300	-2580	22.0
116	1330	-2550	25.7
116	1400	-2520	28.4
116	1430	-2490	26.2
116	1500	-2460	23.6
116	1530	-2430	23.8
116	1600	-2400	22.1
116	1630	-2370	25.1
116	1700	-2340	27.2
116	1730	-2310	41.6
116	1800	-2280	33.7
116	1830	-2250	28.4
116	1900	-2220	25.2
116	1930	-2190	24.8
116	2000	-2160	23.7
116	2030	-2130	22.9
116	2100	-2100	22.5
116	2130	-2070	22.1

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
116	2200	-2040	21.5
116	2230	-2010	21.7
116	2300	-1980	21.6
116	2330	-1950	20.6
117	0	-1920	20.3
117	30	-1890	20.2
117	100	-1860	21.1
117	130	-1830	21.6
117	200	-1800	20.5
117	230	-1770	21.4
117	300	-1740	21.3
117	330	-1710	21.3
117	400	-1680	21.7
117	430	-1650	21.6
117	500	-1620	21.5
117	530	-1590	21.5
117	600	-1560	21.0
117	630	-1530	20.8
117	700	-1500	20.7
117	730	-1470	20.7
117	800	-1440	31.6
117	830	-1410	25.8
117	900	-1380	27.8
117	930	-1350	26.2
117	1000	-1320	28.6
117	1030	-1290	25.3
117	1100	-1260	31.8
117	1130	-1230	26.5
117	1200	-1200	26.0
117	1230	-1170	27.3
117	1300	-1140	24.7
117	1330	-1110	28.6
117	1400	-1080	26.7
117	1430	-1050	29.2
117	1500	-1020	55.4
117	1530	-990	67.2
117	1600	-960	58.0
117	1630	-930	41.3
117	1700	-900	43.0
117	1730	-870	37.3
117	1800	-840	31.9
117	1830	-810	27.4
117	1900	-780	25.7
117	1930	-750	25.0
117	2000	-720	26.9
117	2030	-690	26.0
117	2100	-660	24.4
117	2130	-630	26.3
117	2200	-600	26.6
117	2230	-570	29.4
117	2300	-540	25.9
117	2330	-510	23.8

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
118	0	-480	22.4
118	30	-450	21.6
118	100	-420	22.9
118	130	-390	22.3
118	200	-360	21.9
118	230	-330	21.5
118	300	-300	21.3
118	330	-270	21.0
118	400	-240	20.8
118	430	-210	20.6
118	500	-180	21.7
118	530	-150	21.1
118	600	-120	30.9
118	630	-90	25.8
118	700	-60	23.5
118	730	-30	22.4
118	800	0	21.8
118	830	30	21.5
118	900	60	21.4
118	930	90	20.9
118	1000	120	24.7
118	1030	150	23.0
118	1100	180	22.4
118	1130	210	22.3
118	1200	240	22.0
118	1230	270	21.8
118	1300	300	23.6
118	1330	330	22.8
118	1400	360	22.4
118	1430	390	22.4
118	1500	420	22.4
118	1530	450	22.4
118	1600	480	22.5
118	1630	510	22.6
118	1700	540	23.4
118	1730	570	24.5
118	1800	600	24.5
118	1830	630	24.4
118	1900	660	24.5
118	1930	690	25.4
118	2000	720	24.8
118	2030	750	27.4
118	2100	780	26.5
118	2130	810	25.9
118	2200	840	25.7
118	2230	870	25.6
118	2300	900	25.5
118	2330	930	25.5
119	0	960	25.5
119	30	990	25.4
119	100	1020	25.5
119	130	1050	25.5

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
119	200	1080	25.6
119	230	1110	25.6
119	300	1140	25.7
119	330	1170	25.7
119	400	1200	25.8
119	430	1230	25.8
119	500	1260	25.9
119	530	1290	25.9
119	600	1320	26.0
119	630	1350	26.0
119	700	1380	26.0
119	730	1410	26.1
119	800	1440	26.1
119	830	1470	31.7
119	900	1500	32.7
119	930	1530	34.3
119	1000	1560	42.9
119	1030	1590	36.5
119	1100	1620	33.9
119	1130	1650	32.7
119	1200	1680	31.4
119	1230	1710	30.4
119	1300	1740	29.9
119	1330	1770	29.6
119	1400	1800	29.5
119	1430	1830	29.5
119	1500	1860	29.3
119	1530	1890	29.2
119	1600	1920	29.3
119	1630	1950	29.2
119	1700	1980	29.2
119	1730	2010	29.2
119	1800	2040	29.3
119	1830	2070	29.2
119	1900	2100	29.2
119	1930	2130	29.2
119	2000	2160	29.2
119	2030	2190	29.2
119	2100	2220	29.3
119	2130	2250	29.3
119	2200	2280	29.3
119	2230	2310	29.3
119	2300	2340	29.3
119	2330	2370	29.4
120	0	2400	29.5
120	30	2430	29.5
120	100	2460	29.5
120	130	2490	29.6
120	200	2520	29.6
120	230	2550	29.6
120	300	2580	29.7
120	330	2610	29.7

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
120	400	2640	29.8
120	430	2670	29.8
120	500	2700	29.8
120	530	2730	29.8
120	600	2760	29.9
120	630	2790	29.8
120	700	2820	29.9
120	730	2850	29.9
120	800	2880	29.9
120	830	2910	30.0
120	900	2940	34.6
120	930	2970	32.7
120	1000	3000	31.3
120	1030	3030	32.1
120	1100	3060	33.3
120	1130	3090	32.6
120	1200	3120	32.2
120	1230	3150	31.9
120	1300	3180	31.8
120	1330	3210	31.7
120	1400	3240	31.7
120	1430	3270	31.7
120	1500	3300	31.7
120	1530	3330	31.6
120	1600	3360	31.7
120	1630	3390	31.8
120	1700	3420	31.8
120	1730	3450	31.8
120	1800	3480	31.8
120	1830	3510	31.8
120	1900	3540	31.9
120	1930	3570	33.9
120	2000	3600	34.9
120	2030	3630	33.4
120	2100	3660	32.9
120	2130	3690	32.6
120	2200	3720	32.4
120	2230	3750	32.2
120	2300	3780	32.3
120	2330	3810	32.2
121	0	3840	32.1
121	30	3870	32.1
121	100	3900	32.0
121	130	3930	32.0
121	200	3960	32.0
121	230	3990	31.9
121	300	4020	32.0
121	330	4050	32.0
121	400	4080	31.9
121	430	4110	33.9
121	500	4140	34.0
121	530	4170	33.9

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
121	600	4200	33.9
121	630	4230	33.8
121	700	4260	33.7
121	730	4290	33.6
121	800	4320	33.5
121	830	4350	33.4
121	900	4380	33.4
121	930	4410	33.4
121	1000	4440	37.5
121	1030	4470	47.0
121	1100	4500	46.1
121	1130	4530	40.6
121	1200	4560	37.5
121	1230	4590	37.3
121	1300	4620	37.2
121	1330	4650	36.7
121	1400	4680	36.1
121	1430	4710	35.5
121	1500	4740	35.1
121	1530	4770	34.9
121	1600	4800	34.7
121	1630	4830	34.6
121	1700	4860	34.3
121	1730	4890	34.3
121	1800	4920	34.2
121	1830	4950	34.0
121	1900	4980	35.9
121	1930	5010	40.7
121	2000	5040	37.5
121	2030	5070	36.8
121	2100	5100	36.4
121	2130	5130	35.9
121	2200	5160	35.5
121	2230	5190	35.1
121	2300	5220	34.9
121	2330	5250	34.7
122	0	5280	34.6
122	30	5310	34.6
122	100	5340	36.2
122	130	5370	36.0
122	200	5400	35.8
122	230	5430	35.6
122	300	5460	35.4
122	330	5490	35.3
122	400	5520	35.2
122	430	5550	35.1
122	500	5580	35.0
122	530	5610	34.9
122	600	5640	34.8
122	630	5670	36.3
122	700	5700	40.5
122	730	5730	47.8

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
122	800	5760	51.6
122	830	5790	43.2
122	900	5820	40.7
122	930	5850	38.2
BEGIN RECOVERY			
122	1000	5880	37.1
122	1030	5910	38.1
122	1100	5940	37.4
122	1130	5970	37.0
122	1200	6000	37.2
122	1230	6030	49.6
122	1300	6060	66.9
122	1330	6090	65.6
122	1400	6120	49.8
122	1430	6150	42.5
122	1500	6180	40.2
122	1530	6210	39.9
122	1600	6240	38.2
122	1630	6270	37.3
122	1700	6300	36.8
122	1730	6330	36.9
122	1800	6360	36.9
122	1830	6390	37.2
122	1900	6420	36.6
122	1930	6450	36.2
122	2000	6480	37.1
122	2030	6510	37.4
122	2100	6540	36.4
122	2130	6570	35.6
122	2200	6600	36.1
122	2230	6630	35.4
122	2300	6660	34.9
122	2330	6690	34.5
123	0	6720	34.1
123	30	6750	33.9
123	100	6780	33.6
123	130	6810	33.4
123	200	6840	33.2
123	230	6870	32.9
123	300	6900	32.8
123	330	6930	32.5
123	400	6960	32.2
123	430	6990	32.0
123	500	7020	33.6
123	530	7050	33.2
123	600	7080	32.8
123	630	7110	32.5
123	700	7140	35.8
123	730	7170	33.4
123	800	7200	41.3
123	830	7230	54.3
123	900	7260	42.3

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
123	930	7290	37.5
123	1000	7320	36.0
123	1030	7350	34.1
123	1100	7380	33.0
123	1130	7410	32.6
123	1200	7440	35.0
123	1230	7470	33.7
123	1300	7500	33.1
123	1330	7530	42.1
123	1400	7560	66.9
123	1430	7590	52.2
123	1500	7620	41.8
123	1530	7650	37.4
123	1600	7680	36.1
123	1630	7710	34.0
123	1700	7740	32.9
123	1730	7770	32.5
123	1800	7800	34.1
123	1830	7830	33.5
123	1900	7860	32.7
123	1930	7890	32.1
123	2000	7920	31.7
123	2030	7950	31.3
123	2100	7980	31.0
123	2130	8010	30.6
123	2200	8040	30.5
123	2230	8070	32.1
123	2300	8100	31.5
123	2330	8130	31.1
124	0	8160	30.7
124	30	8190	30.4
124	100	8220	30.1
124	130	8250	29.8
124	200	8280	29.7
124	230	8310	31.6
124	300	8340	31.1
124	330	8370	30.7
124	400	8400	30.4
124	430	8430	30.1
124	500	8460	29.8
124	530	8490	29.5
124	600	8520	29.3
124	630	8550	29.1
124	700	8580	31.0
124	730	8610	30.6
124	800	8640	36.7
124	830	8670	33.4
124	900	8700	35.3
124	930	8730	41.1
124	1000	8760	36.7
124	1030	8790	34.6
124	1100	8820	33.1

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
124	1130	8850	35.9
124	1200	8880	34.2
124	1230	8910	32.7
124	1300	8940	31.5
124	1330	8970	30.5
124	1400	9000	31.7
124	1430	9030	30.7
124	1500	9060	30.0
124	1530	9090	29.4
124	1600	9120	30.5
124	1630	9150	31.1
124	1700	9180	30.2
124	1730	9210	32.7
124	1800	9240	30.6
124	1830	9270	31.3
124	1900	9300	29.9
124	1930	9330	29.2
124	2000	9360	34.6
124	2030	9390	34.4
124	2100	9420	33.5
124	2130	9450	67.2
124	2200	9480	48.9
124	2230	9510	39.8
124	2300	9540	36.0
124	2330	9570	33.1
125	0	9600	33.6
125	30	9630	32.2
125	100	9660	31.0
125	130	9690	30.1
125	200	9720	29.5
125	230	9750	31.2
125	300	9780	30.3
125	330	9810	29.6
125	400	9840	29.2
125	430	9870	28.8
125	500	9900	28.5
125	530	9930	30.1
125	600	9960	29.5
125	630	9990	29.0
125	700	10020	28.6
125	730	10050	33.4
125	800	10080	32.3
125	830	10110	29.8
125	900	10140	28.9
125	930	10170	28.5
125	1000	10200	30.1
125	1030	10230	28.7
125	1100	10260	28.8
125	1130	10290	29.5
125	1200	10320	29.0
125	1230	10350	28.5
125	1300	10380	28.3

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
125	1330	10410	28.0
125	1400	10440	27.8
125	1430	10470	27.5
125	1500	10500	29.2
125	1530	10530	28.7
125	1600	10560	28.3
125	1630	10590	30.8
125	1700	10620	28.6
125	1730	10650	27.7
125	1800	10680	29.2
125	1830	10710	28.6
125	1900	10740	28.1
125	1930	10770	27.7
125	2000	10800	27.5
125	2030	10830	30.8
125	2100	10860	30.3
125	2130	10890	30.4
125	2200	10920	29.2
125	2230	10950	28.5
125	2300	10980	28.0
125	2330	11010	27.7
126	0	11040	27.4
126	30	11070	27.3
126	100	11100	28.2
126	130	11130	28.4
126	200	11160	27.9
126	230	11190	27.6
126	300	11220	27.4
126	330	11250	27.3
126	400	11280	27.2
126	430	11310	27.1
126	500	11340	28.2
126	530	11370	27.7
126	600	11400	32.3
126	630	11430	29.0
126	700	11460	27.8
126	730	11490	27.4
126	800	11520	28.5
126	830	11550	27.9
126	900	11580	27.4
126	930	11610	35.0
126	1000	11640	31.8
126	1030	11670	34.7
126	1100	11700	30.9
126	1130	11730	34.9
126	1200	11760	37.0
126	1230	11790	35.3
126	1300	11820	32.4
126	1330	11850	32.3
126	1400	11880	30.2
126	1430	11910	28.9
126	1500	11940	28.2

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
126	1530	11970	27.7
126	1600	12000	27.4
126	1630	12030	27.3
126	1700	12060	28.5
126	1730	12090	27.8
126	1800	12120	28.8
126	1830	12150	28.0
126	1900	12180	37.1
126	1930	12210	32.7
126	2000	12240	31.0
126	2030	12270	28.8
126	2100	12300	27.7
126	2130	12330	27.3
126	2200	12360	28.7
126	2230	12390	28.1
126	2300	12420	27.6
126	2330	12450	27.3
127	0	12480	30.0
127	30	12510	28.1
127	100	12540	27.4
127	130	12570	27.1
127	200	12600	27.0
127	230	12630	26.8
127	300	12660	27.4
127	330	12690	27.2
127	400	12720	27.0
127	430	12750	26.9
127	500	12780	26.8
127	530	12810	26.6
127	600	12840	26.4
127	630	12870	27.1
127	700	12900	26.9
127	730	12930	26.8
127	800	12960	26.6
127	830	12990	26.5
127	900	13020	26.3
127	930	13050	35.3
127	1000	13080	33.3
127	1030	13110	31.1
127	1100	13140	28.8
127	1130	13170	32.2
127	1200	13200	29.2
127	1230	13230	31.0
127	1300	13260	29.5
127	1330	13290	28.1
127	1400	13320	27.3
127	1430	13350	28.2
127	1500	13380	27.4
127	1530	13410	27.1
127	1600	13440	26.9
127	1630	13470	29.0
127	1700	13500	27.6

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
127	1730	13530	27.2
127	1800	13560	46.7
127	1830	13590	51.0
127	1900	13620	39.2
127	1930	13650	35.8
127	2000	13680	32.5
127	2030	13710	30.4
127	2100	13740	30.5
127	2130	13770	28.8
127	2200	13800	27.7
127	2230	13830	28.6
127	2300	13860	27.7
127	2330	13890	28.8
128	0	13920	27.8
128	30	13950	30.7
128	100	13980	28.5
128	130	14010	27.7
128	200	14040	27.4
128	230	14070	27.2
128	300	14100	26.9
128	330	14130	27.6
128	400	14160	27.4
128	430	14190	27.1
128	500	14220	26.9
128	530	14250	26.8
128	600	14280	26.5
128	630	14310	26.4
128	700	14340	27.0
128	730	14370	26.6
128	800	14400	26.4
128	830	14430	27.0
128	900	14460	26.8
128	930	14490	29.6
128	1000	14520	35.0
128	1030	14550	34.8
128	1100	14580	33.4
128	1130	14610	30.0
128	1200	14640	28.0
128	1230	14670	27.3
128	1300	14700	28.1
128	1330	14730	27.4
128	1400	14760	27.0
128	1430	14790	26.7
128	1500	14820	26.4
128	1530	14850	27.1
128	1600	14880	26.8
128	1630	14910	26.4
128	1700	14940	26.2
128	1730	14970	26.9
128	1800	15000	26.6
128	1830	15030	27.3
128	1900	15060	33.2

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
128	1930	15090	28.8
128	2000	15120	27.3
128	2030	15150	27.3
128	2100	15180	38.4
128	2130	15210	37.4
128	2200	15240	34.3
128	2230	15270	31.4
128	2300	15300	28.6
128	2330	15330	27.4
129	0	15360	27.0
129	30	15390	27.4
129	100	15420	27.0
129	130	15450	26.6
129	200	15480	26.3
129	230	15510	26.0
129	300	15540	26.8
129	330	15570	26.4
129	400	15600	26.1
129	430	15630	25.8
129	500	15660	25.5
129	530	15690	26.4
129	600	15720	26.0
129	630	15750	25.7
129	700	15780	31.5
129	730	15810	28.0
129	800	15840	27.9
129	830	15870	27.0
129	900	15900	28.9
129	930	15930	27.1
129	1000	15960	27.2
129	1030	15990	26.8
129	1100	16020	26.3
129	1130	16050	25.9
129	1200	16080	25.5
129	1230	16110	26.5
129	1300	16140	26.1
129	1330	16170	25.9
129	1400	16200	26.8
129	1430	16230	26.8
129	1500	16260	26.2
129	1530	16290	26.7
129	1600	16320	26.1
129	1630	16350	25.7
129	1700	16380	26.2
129	1730	16410	25.7
129	1800	16440	26.6
129	1830	16470	26.0
129	1900	16500	25.5

CHEATHAM DOMESTIC WELL

Emery & Garrett Groundwater, Inc.

RAW DATA FOR CHEATHAM MONITORING WELL PUMPING TEST B-3 AND B-4 BEALETON, VIRGINIA			
Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
110	1200	-11280	0.00
110	1230	-11250	-0.10
110	1300	-11220	-0.10
110	1330	-11190	-0.18
110	1400	-11160	-5.41
110	1430	-11130	-0.55
110	1500	-11100	-0.19
110	1530	-11070	-0.20
110	1600	-11040	-0.16
110	1630	-11010	-0.47
110	1700	-10980	-0.31
110	1730	-10950	-0.20
110	1800	-10920	-0.24
110	1830	-10890	-0.16
110	1900	-10860	-0.12
110	1930	-10830	-0.07
110	2000	-10800	-0.08
110	2030	-10770	-0.14
110	2100	-10740	-1.30
110	2130	-10710	-0.17
110	2200	-10680	-0.09
110	2230	-10650	-0.05
110	2300	-10620	-0.05
110	2330	-10590	-0.01
111	0	-10560	0.01
111	30	-10530	0.05
111	100	-10500	0.05
111	130	-10470	0.09
111	200	-10440	0.12
111	230	-10410	0.09
111	300	-10380	0.10
111	330	-10350	-0.25
111	400	-10320	0.11
111	430	-10290	0.09
111	500	-10260	0.12
111	530	-10230	0.13
111	600	-10200	0.12
111	630	-10170	0.12
111	700	-10140	-10.22
111	730	-10110	-0.31
111	800	-10080	-0.05
111	830	-10050	0.03
111	900	-10020	0.02
111	930	-9990	0.06
111	1000	-9960	-0.90
111	1030	-9930	-0.32
111	1100	-9900	-0.29
111	1130	-9870	-0.16
111	1200	-9840	-0.43

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
111	1230	-9810	-0.19
111	1300	-9780	-0.29
111	1330	-9750	-0.28
111	1400	-9720	-0.41
111	1430	-9690	-0.41
111	1500	-9660	-0.24
111	1530	-9630	-0.20
111	1600	-9600	-0.34
111	1630	-9570	-0.20
111	1700	-9540	-0.19
111	1730	-9510	-0.27
111	1800	-9480	-0.26
111	1830	-9450	-0.28
111	1900	-9420	-0.26
111	1930	-9390	-0.17
111	2000	-9360	-0.21
111	2030	-9330	-0.31
111	2100	-9300	-0.21
111	2130	-9270	-0.22
111	2200	-9240	-0.25
111	2230	-9210	-0.21
111	2300	-9180	-0.22
111	2330	-9150	-0.19
112	0	-9120	-0.17
112	30	-9090	-0.08
112	100	-9060	-0.09
112	130	-9030	-0.04
112	200	-9000	-0.02
112	230	-8970	-0.02
112	300	-8940	0.00
112	330	-8910	0.01
112	400	-8880	0.08
112	430	-8850	0.10
112	500	-8820	0.11
112	530	-8790	0.07
112	600	-8760	0.06
112	630	-8730	0.09
112	700	-8700	-0.03
112	730	-8670	0.01
112	800	-8640	0.02
112	830	-8610	-0.06
112	900	-8580	-0.04
112	930	-8550	-0.02
112	1000	-8520	-0.03
112	1030	-8490	-0.05
112	1100	-8460	-0.06
112	1130	-8430	-0.01
112	1200	-8400	0.00
112	1230	-8370	-0.16
112	1300	-8340	-0.08
112	1330	-8310	-3.92
112	1400	-8280	-1.28
112	1430	-8250	-0.38

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
112	1500	-8220	-0.16
112	1530	-8190	-0.41
112	1600	-8160	-0.18
112	1630	-8130	-0.12
112	1700	-8100	-0.11
112	1730	-8070	-0.16
112	1800	-8040	-0.22
112	1830	-8010	-0.15
112	1900	-7980	-0.15
112	1930	-7950	-0.13
112	2000	-7920	-0.13
112	2030	-7890	-0.25
112	2100	-7860	-0.18
112	2130	-7830	-0.17
112	2200	-7800	-1.04
112	2230	-7770	-0.25
112	2300	-7740	-0.19
112	2330	-7710	-0.18
113	0	-7680	-0.13
113	30	-7650	-0.13
113	100	-7620	-0.10
113	130	-7590	-0.10
113	200	-7560	-0.05
113	230	-7530	-0.02
113	300	-7500	-0.02
113	330	-7470	-0.03
113	400	-7440	0.01
113	430	-7410	0.06
113	500	-7380	0.02
113	530	-7350	0.06
113	600	-7320	0.08
113	630	-7290	0.05
113	700	-7260	-0.05
113	730	-7230	0.02
113	800	-7200	-0.15
113	830	-7170	-0.02
113	900	-7140	-0.02
113	930	-7110	-0.03
113	1000	-7080	-0.16
113	1030	-7050	-0.29
113	1100	-7020	-0.24
113	1130	-6990	-0.25
113	1200	-6960	-0.24
113	1230	-6930	-0.24
113	1300	-6900	-0.24
113	1330	-6870	-0.25
113	1400	-6840	-0.24
113	1430	-6810	-0.21
113	1500	-6780	-0.20
113	1530	-6750	-0.18
113	1600	-6720	-0.17
113	1630	-6690	-0.33
113	1700	-6660	-0.21

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
113	1730	-6630	-0.18
113	1800	-6600	-0.70
113	1830	-6570	-0.26
113	1900	-6540	-0.22
113	1930	-6510	-0.25
113	2000	-6480	-0.23
113	2030	-6450	-0.23
113	2100	-6420	-0.28
113	2130	-6390	-0.31
113	2200	-6360	-0.31
113	2230	-6330	-0.31
113	2300	-6300	-0.32
113	2330	-6270	-0.34
114	0	-6240	-0.42
114	30	-6210	-0.36
114	100	-6180	-0.40
114	130	-6150	-0.34
114	200	-6120	-0.35
114	230	-6090	-0.29
114	300	-6060	-0.31
114	330	-6030	-0.29
114	400	-6000	-0.25
114	430	-5970	-0.24
114	500	-5940	-0.24
114	530	-5910	-6.42
114	600	-5880	-0.31
114	630	-5850	-0.28
114	700	-5820	-0.27
114	730	-5790	-0.28
114	800	-5760	-0.28
114	830	-5730	-0.28
114	900	-5700	-0.31
114	930	-5670	-0.35
114	1000	-5640	-0.40
114	1030	-5610	-0.38
114	1100	-5580	-0.46
114	1130	-5550	-0.43
114	1200	-5520	-0.68
114	1230	-5490	-0.69
114	1300	-5460	-0.62
114	1330	-5430	-0.65
114	1400	-5400	-0.62
114	1430	-5370	-0.61
114	1500	-5340	-0.66
114	1530	-5310	-0.58
114	1600	-5280	-0.54
114	1630	-5250	-0.57
114	1700	-5220	-0.53
114	1730	-5190	-0.54
114	1800	-5160	-0.51
114	1830	-5130	-0.51
114	1900	-5100	-0.48
114	1930	-5070	-0.52

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
114	2000	-5040	-0.54
114	2030	-5010	-0.53
114	2100	-4980	-0.54
114	2130	-4950	-0.58
114	2200	-4920	-0.74
114	2230	-4890	-0.66
114	2300	-4860	-0.66
114	2330	-4830	-0.66
115	0	-4800	-0.70
115	30	-4770	-0.64
115	100	-4740	-0.60
115	130	-4710	-0.58
115	200	-4680	-0.57
115	230	-4650	-0.57
115	300	-4620	-0.54
115	330	-4590	-0.54
115	400	-4560	-0.50
115	430	-4530	-0.62
115	500	-4500	-0.54
115	530	-4470	-0.53
115	600	-4440	-0.50
115	630	-4410	-0.51
115	700	-4380	-0.46
115	730	-4350	-0.55
115	800	-4320	-0.54
115	830	-4290	-0.52
115	900	-4260	-0.71
115	930	-4230	-0.92
115	1000	-4200	-0.67
115	1030	-4170	-0.63
115	1100	-4140	-4.04
115	1130	-4110	-1.15
115	1200	-4080	-1.04
115	1230	-4050	-1.02
115	1300	-4020	-1.12
115	1330	-3990	-1.23
115	1400	-3960	-1.41
115	1430	-3930	-1.70
115	1500	-3900	-1.94
115	1530	-3870	-2.25
115	1600	-3840	-2.62
115	1630	-3810	-3.03
115	1700	-3780	-3.52
115	1730	-3750	-4.15
115	1800	-3720	-4.55
115	1830	-3690	-5.09
115	1900	-3660	-5.49
115	1930	-3630	-5.79
115	2000	-3600	-5.95
115	2030	-3570	-5.97
115	2100	-3540	-6.04
115	2130	-3510	-6.05
115	2200	-3480	-6.04

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
115	2230	-3450	-6.01
115	2300	-3420	-6.00
115	2330	-3390	-15.63
116	0	-3360	-5.95
116	30	-3330	-5.85
116	100	-3300	-5.78
116	130	-3270	-5.69
116	200	-3240	-5.61
116	230	-3210	-5.56
116	300	-3180	-5.47
116	330	-3150	-5.43
116	400	-3120	-5.33
116	430	-3090	-5.34
116	500	-3060	-5.22
116	530	-3030	-5.14
116	600	-3000	-5.07
116	630	-2970	-5.01
116	700	-2940	-4.95
116	730	-2910	-4.89
116	800	-2880	-4.88
116	830	-2850	-4.78
116	900	-2820	-5.84
116	930	-2790	-4.95
116	1000	-2760	-13.68
116	1030	-2730	-5.24
116	1100	-2700	-4.87
116	1130	-2670	-4.88
116	1200	-2640	-5.32
116	1230	-2610	-4.86
116	1300	-2580	-4.78
116	1330	-2550	-4.72
116	1400	-2520	-10.49
116	1430	-2490	-16.53
116	1500	-2460	-5.36
116	1530	-2430	-4.89
116	1600	-2400	-4.78
116	1630	-2370	-4.67
116	1700	-2340	-4.59
116	1730	-2310	-4.48
116	1800	-2280	-4.41
116	1830	-2250	-4.35
116	1900	-2220	-4.36
116	1930	-2190	-4.34
116	2000	-2160	-5.47
116	2030	-2130	-4.49
116	2100	-2100	-4.41
116	2130	-2070	-4.37
116	2200	-2040	-4.34
116	2230	-2010	-4.28
116	2300	-1980	-4.19
116	2330	-1950	-4.26
117	0	-1920	-4.18
117	30	-1890	-4.12

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
117	100	-1860	-4.06
117	130	-1830	-4.01
117	200	-1800	-4.00
117	230	-1770	-3.94
117	300	-1740	-3.91
117	330	-1710	-3.89
117	400	-1680	-3.82
117	430	-1650	-3.79
117	500	-1620	-3.75
117	530	-1590	-3.69
117	600	-1560	-3.69
117	630	-1530	-3.65
117	700	-1500	-3.62
117	730	-1470	-3.65
117	800	-1440	-4.06
117	830	-1410	-3.64
117	900	-1380	-3.63
117	930	-1350	-3.63
117	1000	-1320	-3.68
117	1030	-1290	-3.69
117	1100	-1260	-3.72
117	1130	-1230	-3.69
117	1200	-1200	-3.65
117	1230	-1170	-3.62
117	1300	-1140	-3.62
117	1330	-1110	-3.61
117	1400	-1080	-3.65
117	1430	-1050	-3.67
117	1500	-1020	-3.56
117	1530	-990	-3.98
117	1600	-960	-3.73
117	1630	-930	-4.90
117	1700	-900	-3.67
117	1730	-870	-3.62
117	1800	-840	-3.55
117	1830	-810	-3.54
117	1900	-780	-3.48
117	1930	-750	-3.46
117	2000	-720	-14.97
117	2030	-690	-3.50
117	2100	-660	-3.43
117	2130	-630	-3.36
117	2200	-600	-3.34
117	2230	-570	-3.37
117	2300	-540	-3.35
117	2330	-510	-3.36
118	0	-480	-3.35
118	30	-450	-3.30
118	100	-420	-3.31
118	130	-390	-3.27
118	200	-360	-3.27
118	230	-330	-3.29
118	300	-300	-3.27

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
118	330	-270	-3.23
118	400	-240	-3.21
118	430	-210	-3.31
118	500	-180	-3.18
118	530	-150	-3.14
118	600	-120	-3.09
118	630	-90	-3.09
118	700	-60	-3.03
118	730	-30	-3.03
118	800	0	-3.05
118	830	30	-3.11
118	900	60	-3.08
118	930	90	-3.26
118	1000	120	-3.13
118	1030	150	-3.09
118	1100	180	-3.17
118	1130	210	-3.37
118	1200	240	-3.50
118	1230	270	-3.78
118	1300	300	-4.12
118	1330	330	-4.44
118	1400	360	-4.72
118	1430	390	-5.05
118	1500	420	-5.34
118	1530	450	-5.60
118	1600	480	-5.89
118	1630	510	-6.17
118	1700	540	-6.40
118	1730	570	-6.64
118	1800	600	-8.20
118	1830	630	-7.15
118	1900	660	-7.39
118	1930	690	-7.59
118	2000	720	-7.80
118	2030	750	-8.00
118	2100	780	-8.23
118	2130	810	-8.42
118	2200	840	-8.62
118	2230	870	-8.76
118	2300	900	-8.99
118	2330	930	-9.19
119	0	960	-9.36
119	30	990	-9.52
119	100	1020	-9.70
119	130	1050	-9.93
119	200	1080	-10.08
119	230	1110	-10.26
119	300	1140	-10.40
119	330	1170	-10.61
119	400	1200	-10.73
119	430	1230	-10.88
119	500	1260	-11.10
119	530	1290	-11.25

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
119	600	1320	-11.50
119	630	1350	-11.60
119	700	1380	-11.69
119	730	1410	-11.83
119	800	1440	-11.98
119	830	1470	-12.13
119	900	1500	-12.30
119	930	1530	-12.92
119	1000	1560	-12.67
119	1030	1590	-12.74
119	1100	1620	-12.88
119	1130	1650	-13.02
119	1200	1680	-13.15
119	1230	1710	-13.25
119	1300	1740	-13.41
119	1330	1770	-13.59
119	1400	1800	-13.69
119	1430	1830	-13.97
119	1500	1860	-13.97
119	1530	1890	-14.07
119	1600	1920	-14.15
119	1630	1950	-14.21
119	1700	1980	-14.33
119	1730	2010	-14.71
119	1800	2040	-23.85
119	1830	2070	-14.69
119	1900	2100	-14.68
119	1930	2130	-14.73
119	2000	2160	-14.84
119	2030	2190	-14.87
119	2100	2220	-21.93
119	2130	2250	-15.08
119	2200	2280	-15.16
119	2230	2310	-15.21
119	2300	2340	-15.30
119	2330	2370	-15.39
120	0	2400	-16.09
120	30	2430	-15.62
120	100	2460	-15.65
120	130	2490	-15.72
120	200	2520	-15.83
120	230	2550	-15.91
120	300	2580	-15.94
120	330	2610	-16.03
120	400	2640	-16.09
120	430	2670	-16.16
120	500	2700	-16.24
120	530	2730	-16.29
120	600	2760	-16.35
120	630	2790	-16.42
120	700	2820	-16.50
120	730	2850	-16.71
120	800	2880	-16.66

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
120	830	2910	-16.73
120	900	2940	-16.74
120	930	2970	-16.83
120	1000	3000	-16.91
120	1030	3030	-16.99
120	1100	3060	-17.07
120	1130	3090	-17.14
120	1200	3120	-17.51
120	1230	3150	-17.30
120	1300	3180	-17.40
120	1330	3210	-17.51
120	1400	3240	-17.52
120	1430	3270	-17.59
120	1500	3300	-17.66
120	1530	3330	-17.74
120	1600	3360	-17.76
120	1630	3390	-18.75
120	1700	3420	-17.96
120	1730	3450	-17.96
120	1800	3480	-18.05
120	1830	3510	-18.11
120	1900	3540	-18.11
120	1930	3570	-18.16
120	2000	3600	-18.22
120	2030	3630	-18.64
120	2100	3660	-19.23
120	2130	3690	-18.65
120	2200	3720	-18.51
120	2230	3750	-18.70
120	2300	3780	-18.63
120	2330	3810	-18.63
121	0	3840	-18.66
121	30	3870	-18.72
121	100	3900	-18.77
121	130	3930	-19.06
121	200	3960	-18.90
121	230	3990	-18.94
121	300	4020	-18.95
121	330	4050	-19.05
121	400	4080	-19.09
121	430	4110	-19.12
121	500	4140	-19.16
121	530	4170	-19.20
121	600	4200	-19.22
121	630	4230	-19.26
121	700	4260	-19.28
121	730	4290	-19.31
121	800	4320	-19.34
121	830	4350	-19.45
121	900	4380	-19.51
121	930	4410	-19.48
121	1000	4440	-19.51
121	1030	4470	-19.56

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
121	1100	4500	-19.58
121	1130	4530	-19.60
121	1200	4560	-19.63
121	1230	4590	-28.75
121	1300	4620	-19.87
121	1330	4650	-19.83
121	1400	4680	-19.86
121	1430	4710	-19.89
121	1500	4740	-19.92
121	1530	4770	-19.95
121	1600	4800	-20.00
121	1630	4830	-20.01
121	1700	4860	-20.04
121	1730	4890	-20.09
121	1800	4920	-20.07
121	1830	4950	-20.11
121	1900	4980	-20.17
121	1930	5010	-20.17
121	2000	5040	-20.17
121	2030	5070	-20.27
121	2100	5100	-20.21
121	2130	5130	-20.21
121	2200	5160	-20.23
121	2230	5190	-20.31
121	2300	5220	-20.30
121	2330	5250	-20.33
122	0	5280	-20.34
122	30	5310	-20.34
122	100	5340	-20.35
122	130	5370	-20.39
122	200	5400	-20.40
122	230	5430	-20.41
122	300	5460	-20.46
122	330	5490	-20.49
122	400	5520	-20.53
122	430	5550	-20.65
122	500	5580	-20.59
122	530	5610	-20.61
122	600	5640	-20.68
122	630	5670	-20.70
122	700	5700	-20.69
122	730	5730	-20.71
122	800	5760	-20.74
122	830	5790	-20.78
122	900	5820	-21.06
122	930	5850	-20.86
BEGIN RECOVERY			
122	1000	5880	-20.87
122	1030	5910	-20.87
122	1100	5940	-20.79
122	1130	5970	-21.23
122	1200	6000	-20.70
122	1230	6030	-20.99

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
122	1300	6060	-23.49
122	1330	6090	-20.41
122	1400	6120	-20.50
122	1430	6150	-20.16
122	1500	6180	-20.18
122	1530	6210	-24.25
122	1600	6240	-19.87
122	1630	6270	-19.70
122	1700	6300	-19.56
122	1730	6330	-25.26
122	1800	6360	-19.92
122	1830	6390	-26.93
122	1900	6420	-19.17
122	1930	6450	-18.99
122	2000	6480	-18.83
122	2030	6510	-18.65
122	2100	6540	-18.55
122	2130	6570	-21.07
122	2200	6600	-18.37
122	2230	6630	-18.19
122	2300	6660	-18.04
122	2330	6690	-17.93
123	0	6720	-17.81
123	30	6750	-17.68
123	100	6780	-17.53
123	130	6810	-17.42
123	200	6840	-17.28
123	230	6870	-17.38
123	300	6900	-17.16
123	330	6930	-17.01
123	400	6960	-16.88
123	430	6990	-16.77
123	500	7020	-16.67
123	530	7050	-16.56
123	600	7080	-16.45
123	630	7110	-16.34
123	700	7140	-16.20
123	730	7170	-16.11
123	800	7200	-16.03
123	830	7230	-15.93
123	900	7260	-16.19
123	930	7290	-15.88
123	1000	7320	-15.67
123	1030	7350	-16.66
123	1100	7380	-16.48
123	1130	7410	-25.78
123	1200	7440	-22.81
123	1230	7470	-18.19
123	1300	7500	-16.90
123	1330	7530	-16.47
123	1400	7560	-15.80
123	1430	7590	-15.43
123	1500	7620	-15.33

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
123	1530	7650	-15.08
123	1600	7680	-14.98
123	1630	7710	-14.96
123	1700	7740	-27.79
123	1730	7770	-14.87
123	1800	7800	-14.65
123	1830	7830	-14.59
123	1900	7860	-14.58
123	1930	7890	-14.36
123	2000	7920	-14.36
123	2030	7950	-14.19
123	2100	7980	-14.05
123	2130	8010	-13.96
123	2200	8040	-13.85
123	2230	8070	-13.77
123	2300	8100	-13.65
123	2330	8130	-13.58
124	0	8160	-13.51
124	30	8190	-13.42
124	100	8220	-13.34
124	130	8250	-13.22
124	200	8280	-13.17
124	230	8310	-13.08
124	300	8340	-13.03
124	330	8370	-12.98
124	400	8400	-14.70
124	430	8430	-12.85
124	500	8460	-12.77
124	530	8490	-12.73
124	600	8520	-12.64
124	630	8550	-12.60
124	700	8580	-12.53
124	730	8610	-12.47
124	800	8640	-12.39
124	830	8670	-12.33
124	900	8700	-12.26
124	930	8730	-12.20
124	1000	8760	-12.11
124	1030	8790	-12.09
124	1100	8820	-12.02
124	1130	8850	-11.94
124	1200	8880	-11.89
124	1230	8910	-11.83
124	1300	8940	-11.77
124	1330	8970	-11.70
124	1400	9000	-11.66
124	1430	9030	-11.75
124	1500	9060	-11.63
124	1530	9090	-11.53
124	1600	9120	-11.47
124	1630	9150	-11.42
124	1700	9180	-11.40
124	1730	9210	-11.35

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
124	1800	9240	-11.30
124	1830	9270	-11.24
124	1900	9300	-16.88
124	1930	9330	-11.21
124	2000	9360	-11.11
124	2030	9390	-11.04
124	2100	9420	-11.11
124	2130	9450	-11.02
124	2200	9480	-10.93
124	2230	9510	-10.93
124	2300	9540	-10.88
124	2330	9570	-10.78
125	0	9600	-10.69
125	30	9630	-10.65
125	100	9660	-10.60
125	130	9690	-10.54
125	200	9720	-10.51
125	230	9750	-10.47
125	300	9780	-10.40
125	330	9810	-10.34
125	400	9840	-10.30
125	430	9870	-10.22
125	500	9900	-10.18
125	530	9930	-10.14
125	600	9960	-10.11
125	630	9990	-10.07
125	700	10020	-12.25
125	730	10050	-10.07
125	800	10080	-10.00
125	830	10110	-9.92
125	900	10140	-10.05
125	930	10170	-12.83
125	1000	10200	-9.86
125	1030	10230	-9.81
125	1100	10260	-10.46
125	1130	10290	-9.94
125	1200	10320	-10.02
125	1230	10350	-9.70
125	1300	10380	-9.70
125	1330	10410	-9.60
125	1400	10440	-9.81
125	1430	10470	-9.52
125	1500	10500	-10.38
125	1530	10530	-9.46
125	1600	10560	-9.38
125	1630	10590	-9.37
125	1700	10620	-9.41
125	1730	10650	-16.24
125	1800	10680	-9.34
125	1830	10710	-9.34
125	1900	10740	-9.21
125	1930	10770	-9.19
125	2000	10800	-9.10

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
125	2030	10830	-9.06
125	2100	10860	-9.02
125	2130	10890	-9.02
125	2200	10920	-8.94
125	2230	10950	-8.90
125	2300	10980	-8.87
125	2330	11010	-8.80
126	0	11040	-8.75
126	30	11070	-8.83
126	100	11100	-8.69
126	130	11130	-8.66
126	200	11160	-8.65
126	230	11190	-8.57
126	300	11220	-8.53
126	330	11250	-8.52
126	400	11280	-8.48
126	430	11310	-13.68
126	500	11340	-8.50
126	530	11370	-8.48
126	600	11400	-8.43
126	630	11430	-8.38
126	700	11460	-8.36
126	730	11490	-8.35
126	800	11520	-8.33
126	830	11550	-8.30
126	900	11580	-8.23
126	930	11610	-8.23
126	1000	11640	-8.21
126	1030	11670	-8.15
126	1100	11700	-8.11
126	1130	11730	-8.08
126	1200	11760	-8.02
126	1230	11790	-8.05
126	1300	11820	-8.00
126	1330	11850	-7.96
126	1400	11880	-7.93
126	1430	11910	-7.89
126	1500	11940	-7.99
126	1530	11970	-7.90
126	1600	12000	-7.82
126	1630	12030	-7.80
126	1700	12060	-7.79
126	1730	12090	-7.73
126	1800	12120	-7.71
126	1830	12150	-7.66
126	1900	12180	-9.33
126	1930	12210	-7.88
126	2000	12240	-7.68
126	2030	12270	-7.61
126	2100	12300	-7.60
126	2130	12330	-7.53
126	2200	12360	-7.49
126	2230	12390	-7.46

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
126	2300	12420	-7.40
126	2330	12450	-7.42
127	0	12480	-7.52
127	30	12510	-7.36
127	100	12540	-7.30
127	130	12570	-7.25
127	200	12600	-7.20
127	230	12630	-7.19
127	300	12660	-7.14
127	330	12690	-7.11
127	400	12720	-7.08
127	430	12750	-7.05
127	500	12780	-7.03
127	530	12810	-6.98
127	600	12840	-6.99
127	630	12870	-6.95
127	700	12900	-6.93
127	730	12930	-7.02
127	800	12960	-6.97
127	830	12990	-6.86
127	900	13020	-6.92
127	930	13050	-6.91
127	1000	13080	-6.88
127	1030	13110	-6.89
127	1100	13140	-6.88
127	1130	13170	-7.25
127	1200	13200	-6.86
127	1230	13230	-6.88
127	1300	13260	-6.83
127	1330	13290	-6.83
127	1400	13320	-6.83
127	1430	13350	-6.80
127	1500	13380	-6.85
127	1530	13410	-6.76
127	1600	13440	-6.74
127	1630	13470	-6.74
127	1700	13500	-6.76
127	1730	13530	-6.77
127	1800	13560	-6.76
127	1830	13590	-6.73
127	1900	13620	-6.70
127	1930	13650	-6.74
127	2000	13680	-6.71
127	2030	13710	-6.72
127	2100	13740	-6.75
127	2130	13770	-6.73
127	2200	13800	-6.79
127	2230	13830	-6.79
127	2300	13860	-6.71
127	2330	13890	-6.77
128	0	13920	-6.66
128	30	13950	-6.66
128	100	13980	-6.58

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
128	130	14010	-6.63
128	200	14040	-6.64
128	230	14070	-6.56
128	300	14100	-6.58
128	330	14130	-6.49
128	400	14160	-6.50
128	430	14190	-6.48
128	500	14220	-6.47
128	530	14250	-6.44
128	600	14280	-6.43
128	630	14310	-6.39
128	700	14340	-6.35
128	730	14370	-6.34
128	800	14400	-6.39
128	830	14430	-6.35
128	900	14460	-6.34
128	930	14490	-6.30
128	1000	14520	-6.29
128	1030	14550	-6.32
128	1100	14580	-6.24
128	1130	14610	-6.27
128	1200	14640	-6.27
128	1230	14670	-6.20
128	1300	14700	-6.19
128	1330	14730	-6.26
128	1400	14760	-6.16
128	1430	14790	-6.13
128	1500	14820	-6.11
128	1530	14850	-6.26
128	1600	14880	-6.13
128	1630	14910	-6.09
128	1700	14940	-6.03
128	1730	14970	-5.97
128	1800	15000	-5.97
128	1830	15030	-5.97
128	1900	15060	-5.94
128	1930	15090	-5.98
128	2000	15120	-5.97
128	2030	15150	-5.94
128	2100	15180	-5.88
128	2130	15210	-5.84
128	2200	15240	-5.86
128	2230	15270	-5.88
128	2300	15300	-5.78
128	2330	15330	-5.78
129	0	15360	-5.78
129	30	15390	-5.72
129	100	15420	-5.88
129	130	15450	-5.76
129	200	15480	-5.73
129	230	15510	-5.66
129	300	15540	-5.64
129	330	15570	-5.63

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
129	400	15600	-5.57
129	430	15630	-5.74
129	500	15660	-5.65
129	530	15690	-5.60
129	600	15720	-5.57
129	630	15750	-5.53
129	700	15780	-5.51
129	730	15810	-5.49
129	800	15840	-5.50
129	830	15870	-5.47
129	900	15900	-5.41
129	930	15930	-5.65
129	1000	15960	-5.50
129	1030	15990	-5.49
129	1100	16020	-5.47
129	1130	16050	-5.46
129	1200	16080	-5.46
129	1230	16110	-5.47
129	1300	16140	-5.52
129	1330	16170	-5.55
129	1400	16200	-5.51
129	1430	16230	-5.44
129	1500	16260	-5.49
129	1530	16290	-5.46
129	1600	16320	-5.39
129	1630	16350	-5.36
129	1700	16380	-5.35
129	1730	16410	-5.37
129	1800	16440	-5.38
129	1830	16470	-5.39

HODGSON DOMESTIC WELL

Emery & Garrett Groundwater, Inc.

RAW DATA FOR HODGDON MONITORING WELL PUMPING TEST B-3 AND B-4 BEALETON, VIRGINIA			
Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
116	1130	-2670	37.13
116	1200	-2640	35.58
116	1230	-2610	35.58
116	1300	-2580	35.57
116	1330	-2550	35.56
116	1400	-2520	35.54
116	1430	-2490	35.52
116	1500	-2460	35.49
116	1530	-2430	35.46
116	1600	-2400	35.41
116	1630	-2370	35.36
116	1700	-2340	36.13
116	1730	-2310	35.3
116	1800	-2280	35.25
116	1830	-2250	35.21
116	1900	-2220	35.17
116	1930	-2190	35.14
116	2000	-2160	35.1
116	2030	-2130	35.17
116	2100	-2100	35.04
116	2130	-2070	34.98
116	2200	-2040	34.96
116	2230	-2010	34.94
116	2300	-1980	34.9
116	2330	-1950	34.87
117	0	-1920	34.84
117	30	-1890	34.8
117	100	-1860	34.77
117	130	-1830	34.73
117	200	-1800	34.88
117	230	-1770	34.67
117	300	-1740	34.61
117	330	-1710	34.56
117	400	-1680	34.5
117	430	-1650	34.45
117	500	-1620	34.4
117	530	-1590	34.35
117	600	-1560	34.3
117	630	-1530	36.94
117	700	-1500	34.26
117	730	-1470	34.2
117	800	-1440	34.16
117	830	-1410	34.12
117	900	-1380	34.1
117	930	-1350	34.82
117	1000	-1320	34.09
117	1030	-1290	34.06

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
117	1100	-1260	34.04
117	1130	-1230	34.04
117	1200	-1200	34.05
117	1230	-1170	34.06
117	1300	-1140	34.09
117	1330	-1110	34.12
117	1400	-1080	34.16
117	1430	-1050	34.18
117	1500	-1020	34.14
117	1530	-990	34.16
117	1600	-960	38.13
117	1630	-930	34.24
117	1700	-900	34.23
117	1730	-870	34.23
117	1800	-840	34.22
117	1830	-810	34.21
117	1900	-780	34.2
117	1930	-750	34.19
117	2000	-720	34.18
117	2030	-690	34.18
117	2100	-660	34.18
117	2130	-630	34.18
117	2200	-600	34.38
117	2230	-570	34.23
117	2300	-540	34.22
117	2330	-510	34.22
118	0	-480	34.23
118	30	-450	34.23
118	100	-420	34.24
118	130	-390	34.24
118	200	-360	34.25
118	230	-330	34.26
118	300	-300	34.26
118	330	-270	34.25
118	400	-240	34.25
118	430	-210	34.24
118	500	-180	34.22
118	530	-150	34.2
118	600	-120	34.6
118	630	-90	34.22
118	700	-60	39.45
118	730	-30	34.24
118	800	0	34.2
118	830	30	35.97
118	900	60	37.73
118	930	90	39.12
118	1000	120	41.77
118	1030	150	41.43
118	1100	180	42.3
118	1130	210	43.12
118	1200	240	43.83

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
118	1230	270	44.48
118	1300	300	45.07
118	1330	330	45.61
118	1400	360	46.13
118	1430	390	46.6
118	1500	420	47.06
118	1530	450	47.46
118	1600	480	47.81
118	1630	510	48.17
118	1700	540	48.53
118	1730	570	48.89
118	1800	600	51.03
118	1830	630	49.88
118	1900	660	49.96
118	1930	690	50.28
118	2000	720	50.36
118	2030	750	53.06
118	2100	780	50.96
118	2130	810	51.21
118	2200	840	51.46
118	2230	870	51.71
118	2300	900	51.95
118	2330	930	52.2
119	0	960	52.45
119	30	990	52.68
119	100	1020	52.91
119	130	1050	53.13
119	200	1080	53.32
119	230	1110	53.51
119	300	1140	53.69
119	330	1170	53.85
119	400	1200	54.01
119	430	1230	54.16
119	500	1260	54.31
119	530	1290	54.46
119	600	1320	54.6
119	630	1350	57.15
119	700	1380	54.95
119	730	1410	55.04
119	800	1440	55.17
119	830	1470	55.3
119	900	1500	55.51
119	930	1530	55.6
119	1000	1560	55.75
119	1030	1590	55.9
119	1100	1620	56.05
119	1130	1650	56.22
119	1200	1680	56.39
119	1230	1710	56.55
119	1300	1740	56.71
119	1330	1770	56.88

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
119	1400	1800	57.03
119	1430	1830	57.18
119	1500	1860	57.3
119	1530	1890	57.41
119	1600	1920	57.53
119	1630	1950	57.63
119	1700	1980	57.83
119	1730	2010	57.87
119	1800	2040	57.96
119	1830	2070	58.04
119	1900	2100	58.12
119	1930	2130	65.06
119	2000	2160	58.4
119	2030	2190	58.43
119	2100	2220	58.53
119	2130	2250	58.61
119	2200	2280	58.71
119	2230	2310	58.79
119	2300	2340	58.88
119	2330	2370	58.97
120	0	2400	59.03
120	30	2430	59.1
120	100	2460	59.17
120	130	2490	59.23
120	200	2520	59.31
120	230	2550	59.37
120	300	2580	59.44
120	330	2610	59.51
120	400	2640	59.57
120	430	2670	59.65
120	500	2700	60.37
120	530	2730	59.8
120	600	2760	59.82
120	630	2790	59.86
120	700	2820	60.04
120	730	2850	60.08
120	800	2880	60.06
120	830	2910	60.11
120	900	2940	60.18
120	930	2970	60.27
120	1000	3000	60.36
120	1030	3030	60.45
120	1100	3060	60.56
120	1130	3090	60.67
120	1200	3120	60.78
120	1230	3150	60.89
120	1300	3180	61
120	1330	3210	61.1
120	1400	3240	62.62
120	1430	3270	61.67
120	1500	3300	61.6

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
120	1530	3330	62.17
120	1600	3360	61.73
120	1630	3390	61.73
120	1700	3420	61.77
120	1730	3450	61.83
120	1800	3480	61.89
120	1830	3510	61.97
120	1900	3540	62.03
120	1930	3570	62.75
120	2000	3600	62.23
120	2030	3630	62.26
120	2100	3660	62.32
120	2130	3690	62.39
120	2200	3720	62.45
120	2230	3750	62.59
120	2300	3780	62.63
120	2330	3810	62.67
121	0	3840	62.72
121	30	3870	62.77
121	100	3900	62.83
121	130	3930	62.9
121	200	3960	62.98
121	230	3990	63.05
121	300	4020	63.14
121	330	4050	63.21
121	400	4080	63.26
121	430	4110	63.3
121	500	4140	63.34
121	530	4170	63.37
121	600	4200	63.39
121	630	4230	63.41
121	700	4260	63.51
121	730	4290	65.11
121	800	4320	63.54
121	830	4350	63.51
121	900	4380	63.53
121	930	4410	63.56
121	1000	4440	63.59
121	1030	4470	63.63
121	1100	4500	63.68
121	1130	4530	63.74
121	1200	4560	63.9
121	1230	4590	63.89
121	1300	4620	63.96
121	1330	4650	64.01
121	1400	4680	64.07
121	1430	4710	64.13
121	1500	4740	64.18
121	1530	4770	64.25
121	1600	4800	66.96
121	1630	4830	64.92

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
121	1700	4860	64.52
121	1730	4890	64.49
121	1800	4920	64.49
121	1830	4950	64.51
121	1900	4980	64.67
121	1930	5010	64.6
121	2000	5040	64.61
121	2030	5070	64.62
121	2100	5100	64.66
121	2130	5130	64.69
121	2200	5160	64.73
121	2230	5190	64.83
121	2300	5220	64.9
121	2330	5250	64.89
122	0	5280	64.91
122	30	5310	64.94
122	100	5340	64.97
122	130	5370	64.99
122	200	5400	65.01
122	230	5430	65.03
122	300	5460	65.05
122	330	5490	65.97
122	400	5520	65.13
122	430	5550	65.11
122	500	5580	65.11
122	530	5610	65.11
122	600	5640	65.12
122	630	5670	65.39
122	700	5700	69.15
122	730	5730	65.25
122	800	5760	65.25
122	830	5790	65.28
122	900	5820	65.33
122	930	5850	65.37
BEGIN RECOVERY			
122	1000	5880	65.43
122	1030	5910	63.97
122	1100	5940	62.45
122	1130	5970	61.28
122	1200	6000	60.29
122	1230	6030	59.47
122	1300	6060	58.71
122	1330	6090	58.03
122	1400	6120	57.47
122	1430	6150	61.49
122	1500	6180	56.41
122	1530	6210	55.9
122	1600	6240	55.45
122	1630	6270	55.04
122	1700	6300	54.66
122	1730	6330	54.31

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
122	1800	6360	53.99
122	1830	6390	53.71
122	1900	6420	53.43
122	1930	6450	53.15
122	2000	6480	52.96
122	2030	6510	52.61
122	2100	6540	52.36
122	2130	6570	52.21
122	2200	6600	53.25
122	2230	6630	51.76
122	2300	6660	51.5
122	2330	6690	51.28
123	0	6720	51.05
123	30	6750	50.84
123	100	6780	50.63
123	130	6810	50.41
123	200	6840	50.2
123	230	6870	49.99
123	300	6900	49.79
123	330	6930	49.61
123	400	6960	49.55
123	430	6990	49.22
123	500	7020	49.03
123	530	7050	48.86
123	600	7080	48.66
123	630	7110	48.48
123	700	7140	48.32
123	730	7170	48.15
123	800	7200	48.04
123	830	7230	47.92
123	900	7260	47.8
123	930	7290	48.42
123	1000	7320	47.58
123	1030	7350	47.5
123	1100	7380	47.4
123	1130	7410	47.28
123	1200	7440	47.17
123	1230	7470	47.05
123	1300	7500	46.92
123	1330	7530	46.8
123	1400	7560	46.67
123	1430	7590	46.55
123	1500	7620	46.48
123	1530	7650	46.39
123	1600	7680	46.29
123	1630	7710	46.2
123	1700	7740	46.11
123	1730	7770	46.02
123	1800	7800	45.96
123	1830	7830	45.88
123	1900	7860	45.82

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
123	1930	7890	45.74
123	2000	7920	45.74
123	2030	7950	45.6
123	2100	7980	46.4
123	2130	8010	45.53
123	2200	8040	45.39
123	2230	8070	45.34
123	2300	8100	45.16
123	2330	8130	45.08
124	0	8160	44.97
124	30	8190	44.87
124	100	8220	44.77
124	130	8250	44.66
124	200	8280	44.59
124	230	8310	44.49
124	300	8340	44.41
124	330	8370	44.32
124	400	8400	44.21
124	430	8430	44.13
124	500	8460	44.06
124	530	8490	44
124	600	8520	43.96
124	630	8550	45.49
124	700	8580	44.16
124	730	8610	43.84
124	800	8640	43.81
124	830	8670	43.75
124	900	8700	43.71
124	930	8730	43.66
124	1000	8760	43.61
124	1030	8790	43.57
124	1100	8820	43.53
124	1130	8850	43.9
124	1200	8880	43.43
124	1230	8910	43.39
124	1300	8940	43.32
124	1330	8970	43.25
124	1400	9000	43.18
124	1430	9030	43.09
124	1500	9060	43.01
124	1530	9090	42.95
124	1600	9120	42.87
124	1630	9150	42.8
124	1700	9180	42.73
124	1730	9210	42.66
124	1800	9240	43.19
124	1830	9270	42.49
124	1900	9300	50.66
124	1930	9330	42.53
124	2000	9360	42.46
124	2030	9390	42.3

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
124	2100	9420	42.26
124	2130	9450	42.18
124	2200	9480	42.12
124	2230	9510	42.07
124	2300	9540	42.05
124	2330	9570	41.99
125	0	9600	41.96
125	30	9630	41.94
125	100	9660	41.91
125	130	9690	41.89
125	200	9720	41.87
125	230	9750	41.85
125	300	9780	41.83
125	330	9810	42
125	400	9840	41.75
125	430	9870	41.74
125	500	9900	41.69
125	530	9930	41.69
125	600	9960	41.63
125	630	9990	41.81
125	700	10020	41.68
125	730	10050	41.43
125	800	10080	41.4
125	830	10110	41.36
125	900	10140	41.33
125	930	10170	41.31
125	1000	10200	41.3
125	1030	10230	41.27
125	1100	10260	43.15
125	1130	10290	41.22
125	1200	10320	41.23
125	1230	10350	41.2
125	1300	10380	41.17
125	1330	10410	41.13
125	1400	10440	41.08
125	1430	10470	41.03
125	1500	10500	40.97
125	1530	10530	40.93
125	1600	10560	40.9
125	1630	10590	40.85
125	1700	10620	40.79
125	1730	10650	40.74
125	1800	10680	40.69
125	1830	10710	40.63
125	1900	10740	40.58
125	1930	10770	40.54
125	2000	10800	42.42
125	2030	10830	40.66
125	2100	10860	46.56
125	2130	10890	40.47
125	2200	10920	40.56

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
125	2230	10950	40.45
125	2300	10980	41.73
125	2330	11010	40.4
126	0	11040	40.42
126	30	11070	40.39
126	100	11100	40.35
126	130	11130	40.3
126	200	11160	40.26
126	230	11190	40.21
126	300	11220	40.55
126	330	11250	40.11
126	400	11280	40.08
126	430	11310	40.05
126	500	11340	39.99
126	530	11370	39.95
126	600	11400	39.9
126	630	11430	42.33
126	700	11460	45.29
126	730	11490	39.79
126	800	11520	39.78
126	830	11550	39.74
126	900	11580	40.02
126	930	11610	39.7
126	1000	11640	46.42
126	1030	11670	39.67
126	1100	11700	39.68
126	1130	11730	39.65
126	1200	11760	39.62
126	1230	11790	39.57
126	1300	11820	39.54
126	1330	11850	39.49
126	1400	11880	39.45
126	1430	11910	39.39
126	1500	11940	39.35
126	1530	11970	39.31
126	1600	12000	39.27
126	1630	12030	39.23
126	1700	12060	39.17
126	1730	12090	39.12
126	1800	12120	39.09
126	1830	12150	39.17
126	1900	12180	39.19
126	1930	12210	40.97
126	2000	12240	39.11
126	2030	12270	47.62
126	2100	12300	39.11
126	2130	12330	39.11
126	2200	12360	39.1
126	2230	12390	39.09
126	2300	12420	39.09
126	2330	12450	39.07

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
127	0	12480	39.03
127	30	12510	39
127	100	12540	38.96
127	130	12570	38.91
127	200	12600	38.86
127	230	12630	38.82
127	300	12660	38.73
127	330	12690	38.74
127	400	12720	38.68
127	430	12750	38.65
127	500	12780	38.6
127	530	12810	38.57
127	600	12840	38.54
127	630	12870	38.5
127	700	12900	39.34
127	730	12930	38.44
127	800	12960	38.42
127	830	12990	38.39
127	900	13020	38.36
127	930	13050	38.34
127	1000	13080	38.34
127	1030	13110	44.22
127	1100	13140	38.32
127	1130	13170	38.37
127	1200	13200	38.38
127	1230	13230	38.39
127	1300	13260	38.47
127	1330	13290	38.46
127	1400	13320	38.46
127	1430	13350	44.02
127	1500	13380	38.55
127	1530	13410	38.53
127	1600	13440	38.51
127	1630	13470	38.51
127	1700	13500	38.5
127	1730	13530	38.5
127	1800	13560	38.5
127	1830	13590	38.5
127	1900	13620	38.51
127	1930	13650	38.8
127	2000	13680	38.52
127	2030	13710	38.57
127	2100	13740	38.6
127	2130	13770	38.61
127	2200	13800	38.62
127	2230	13830	38.63
127	2300	13860	38.65
127	2330	13890	38.66
128	0	13920	38.63
128	30	13950	38.64
128	100	13980	38.58

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
128	130	14010	38.6
128	200	14040	38.57
128	230	14070	38.5
128	300	14100	38.48
128	330	14130	38.42
128	400	14160	38.39
128	430	14190	38.34
128	500	14220	38.3
128	530	14250	38.25
128	600	14280	38.21
128	630	14310	38.16
128	700	14340	39.82
128	730	14370	42.39
128	800	14400	38.62
128	830	14430	38.32
128	900	14460	38.07
128	930	14490	38.05
128	1000	14520	38.01
128	1030	14550	38
128	1100	14580	38.96
128	1130	14610	37.92
128	1200	14640	37.99
128	1230	14670	38.12
128	1300	14700	38.21
128	1330	14730	37.99
128	1400	14760	38.02
128	1430	14790	38.01
128	1500	14820	38
128	1530	14850	38.92
128	1600	14880	37.94
128	1630	14910	37.98
128	1700	14940	38
128	1730	14970	37.96
128	1800	15000	37.94
128	1830	15030	37.9
128	1900	15060	37.81
128	1930	15090	38.17
128	2000	15120	37.9
128	2030	15150	37.76
128	2100	15180	37.74
128	2130	15210	37.75
128	2200	15240	37.94
128	2230	15270	37.75
128	2300	15300	37.79
128	2330	15330	37.79
129	0	15360	37.78
129	30	15390	37.76
129	100	15420	37.74
129	130	15450	37.72
129	200	15480	37.68
129	230	15510	37.64

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
129	300	15540	39.89
129	330	15570	37.59
129	400	15600	37.52
129	430	15630	37.46
129	500	15660	37.43
129	530	15690	37.4
129	600	15720	37.35
129	630	15750	37.42
129	700	15780	37.41
129	730	15810	37.26
129	800	15840	37.24
129	830	15870	37.24
129	900	15900	37.25
129	930	15930	37.29
129	1000	15960	37.3
129	1030	15990	37.34
129	1100	16020	37.36
129	1130	16050	37.37
129	1200	16080	37.38
129	1230	16110	37.37
129	1300	16140	37.36
129	1330	16170	37.34
129	1400	16200	37.3
129	1430	16230	37.28
129	1500	16260	37.24
129	1530	16290	37.21
129	1600	16320	37.17
129	1630	16350	37.13
129	1700	16380	40.29
129	1730	16410	37.07
129	1800	16440	37.02
129	1830	16470	37.01
129	1900	16500	37
129	1930	16530	37.01
129	2000	16560	37.01
129	2030	16590	37.08
129	2100	16620	37.05
129	2130	16650	37.06
129	2200	16680	44.42
129	2230	16710	37.16
129	2300	16740	37.13
129	2330	16770	37.16
130	0	16800	37.16
130	30	16830	37.15
130	100	16860	37.13
130	130	16890	37.3
130	200	16920	37.11
130	230	16950	37.06
130	300	16980	38.4
130	330	17010	36.99
130	400	17040	36.96

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
130	430	17070	36.91
130	500	17100	36.85
130	530	17130	36.8
130	600	17160	36.76
130	630	17190	36.87

MEADOWBROOKE PRODUCTION WELL

Emery & Garrett Groundwater, Inc.

RAW DATA FOR MEADOWBROOKE PRODUCTION WELL
PUMPING TEST B-3 AND B-4
BEALETON, VIRGINIA

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
116	1900	-2220	52.3
116	1930	-2190	52.53
116	2000	-2160	38.98
116	2030	-2130	38.48
116	2100	-2100	48.18
116	2130	-2070	43.48
116	2200	-2040	37.83
116	2230	-2010	45.52
116	2300	-1980	36.87
116	2330	-1950	36.49
117	0	-1920	36.26
117	30	-1890	36.09
117	100	-1860	35.96
117	130	-1830	35.85
117	200	-1800	35.75
117	230	-1770	35.66
117	300	-1740	35.58
117	330	-1710	35.51
117	400	-1680	35.42
117	430	-1650	35.34
117	500	-1620	35.27
117	530	-1590	35.19
117	600	-1560	35.13
117	630	-1530	35.05
117	700	-1500	35
117	730	-1470	34.93
117	800	-1440	34.88
117	830	-1410	34.82
117	900	-1380	34.79
117	930	-1350	35.64
117	1000	-1320	34.93
117	1030	-1290	34.82
117	1100	-1260	51.42
117	1130	-1230	51.78
117	1200	-1200	51.94
117	1230	-1170	52.16
117	1300	-1140	52.42
117	1330	-1110	52.53
117	1400	-1080	52.66
117	1430	-1050	36.92
117	1500	-1020	50.76
117	1530	-990	51.11
117	1600	-960	51.24
117	1630	-930	51.47
117	1700	-900	51.78
117	1730	-870	51.85
117	1800	-840	51.92
117	1830	-810	51.97
117	1900	-780	52.02

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
117	1930	-750	52.07
117	2000	-720	52.09
117	2030	-690	52.15
117	2100	-660	52.22
117	2130	-630	52.27
117	2200	-600	52.35
117	2230	-570	52.43
117	2300	-540	52.44
117	2330	-510	52.49
118	0	-480	52.51
118	30	-450	52.49
118	100	-420	52.47
118	130	-390	52.6
118	200	-360	52.65
118	230	-330	52.68
118	300	-300	52.71
118	330	-270	52.81
118	400	-240	53.11
118	430	-210	53.12
118	500	-180	53.21
118	530	-150	53.51
118	600	-120	53.59
118	630	-90	53.64
118	700	-60	53.68
118	730	-30	53.76
118	800	0	37.95
118	830	30	37.19
118	900	60	36.99
118	930	90	37.01
118	1000	120	37.24
118	1030	150	37.34
118	1100	180	37.54
118	1130	210	37.75
118	1200	240	37.99
118	1230	270	38.25
118	1300	300	38.52
118	1330	330	38.78
118	1400	360	39.04
118	1430	390	39.29
118	1500	420	39.55
118	1530	450	39.81
118	1600	480	53.38
118	1630	510	54.42
118	1700	540	55.03
118	1730	570	55.46
118	1800	600	55.89
118	1830	630	56.23
118	1900	660	56.51
118	1930	690	56.78
118	2000	720	57.17
118	2030	750	57.47
118	2100	780	57.85
118	2130	810	58.11

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
118	2200	840	58.35
118	2230	870	58.69
118	2300	900	58.93
118	2330	930	45.55
119	0	960	45.12
119	30	990	44.94
119	100	1020	44.87
119	130	1050	44.88
119	200	1080	44.91
119	230	1110	44.98
119	300	1140	45.05
119	330	1170	45.14
119	400	1200	45.21
119	430	1230	45.3
119	500	1260	45.39
119	530	1290	45.51
119	600	1320	45.62
119	630	1350	45.72
119	700	1380	45.81
119	730	1410	45.91
119	800	1440	62.66
119	830	1470	63.35
119	900	1500	63.93
119	930	1530	64.26
119	1000	1560	64.66
119	1030	1590	64.9
119	1100	1620	65.15
119	1130	1650	65.34
119	1200	1680	65.58
119	1230	1710	65.76
119	1300	1740	65.96
119	1330	1770	66.14
119	1400	1800	66.5
119	1430	1830	66.58
119	1500	1860	66.67
119	1530	1890	50.39
119	1600	1920	49.92
119	1630	1950	67.47
119	1700	1980	67.97
119	1730	2010	67.62
119	1800	2040	67.84
119	1830	2070	68.16
119	1900	2100	68.36
119	1930	2130	68.61
119	2000	2160	68.77
119	2030	2190	68.91
119	2100	2220	68.97
119	2130	2250	52.3
119	2200	2280	51.45
119	2230	2310	51.03
119	2300	2340	50.78
119	2330	2370	50.63
120	0	2400	50.52

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
120	30	2430	50.45
120	100	2460	50.41
120	130	2490	50.37
120	200	2520	50.37
120	230	2550	50.36
120	300	2580	50.35
120	330	2610	50.37
120	400	2640	50.37
120	430	2670	50.4
120	500	2700	50.42
120	530	2730	50.45
120	600	2760	50.48
120	630	2790	50.49
120	700	2820	50.5
120	730	2850	68.58
120	800	2880	68.14
120	830	2910	68.56
120	900	2940	68.97
120	930	2970	69.22
120	1000	3000	69.47
120	1030	3030	69.67
120	1100	3060	69.87
120	1130	3090	70.14
120	1200	3120	70.33
120	1230	3150	70.48
120	1300	3180	70.61
120	1330	3210	70.76
120	1400	3240	70.88
120	1430	3270	56.41
120	1500	3300	54.06
120	1530	3330	70.25
120	1600	3360	71.09
120	1630	3390	71.52
120	1700	3420	71.77
120	1730	3450	72.05
120	1800	3480	72.28
120	1830	3510	72.37
120	1900	3540	72.51
120	1930	3570	72.7
120	2000	3600	72.78
120	2030	3630	72.85
120	2100	3660	72.99
120	2130	3690	73.05
120	2200	3720	73.15
120	2230	3750	73.13
120	2300	3780	55.96
120	2330	3810	55.13
121	0	3840	73.05
121	30	3870	73.73
121	100	3900	73.73
121	130	3930	73.87
121	200	3960	74
121	230	3990	74.11

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
121	300	4020	56.09
121	330	4050	55.44
121	400	4080	55.05
121	430	4110	54.79
121	500	4140	54.62
121	530	4170	54.49
121	600	4200	54.38
121	630	4230	54.29
121	700	4260	54.21
121	730	4290	54.15
121	800	4320	54.09
121	830	4350	54.05
121	900	4380	54.03
121	930	4410	73.1
121	1000	4440	73.65
121	1030	4470	73.98
121	1100	4500	74.27
121	1130	4530	74.48
121	1200	4560	74.72
121	1230	4590	75.02
121	1300	4620	75.09
121	1330	4650	75.19
121	1400	4680	75.31
121	1430	4710	75.39
121	1500	4740	75.48
121	1530	4770	75.57
121	1600	4800	75.7
121	1630	4830	58.15
121	1700	4860	56.83
121	1730	4890	73.17
121	1800	4920	73.6
121	1830	4950	73.68
121	1900	4980	73.81
121	1930	5010	73.92
121	2000	5040	73.98
121	2030	5070	74.03
121	2100	5100	74.11
121	2130	5130	74.18
121	2200	5160	74.19
121	2230	5190	74.19
121	2300	5220	74.17
121	2330	5250	74.17
122	0	5280	74.21
122	30	5310	58.67
122	100	5340	57.37
122	130	5370	56.84
122	200	5400	56.51
122	230	5430	56.31
122	300	5460	56.16
122	330	5490	56.04
122	400	5520	55.93
122	430	5550	55.85
122	500	5580	55.77

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
122	530	5610	55.72
122	600	5640	72.75
122	630	5670	73.84
122	700	5700	74.36
122	730	5730	74.64
122	800	5760	74.71
122	830	5790	74.87
122	900	5820	75.03
122	930	5850	75.13
BEGIN RECOVERY			
122	1000	5880	75.22
122	1030	5910	75.2
122	1100	5940	75
122	1130	5970	74.73
122	1200	6000	57.93
122	1230	6030	56.2
122	1300	6060	55.36
122	1330	6090	54.66
122	1400	6120	54.12
122	1430	6150	53.63
122	1500	6180	53.31
122	1530	6210	52.82
122	1600	6240	52.44
122	1630	6270	70.26
122	1700	6300	70.7
122	1730	6330	70.8
122	1800	6360	70.86
122	1830	6390	70.81
122	1900	6420	70.76
122	1930	6450	70.71
122	2000	6480	70.62
122	2030	6510	70.49
122	2100	6540	70.14
122	2130	6570	70.02
122	2200	6600	69.9
122	2230	6630	69.7
122	2300	6660	69.53
122	2330	6690	51.61
123	0	6720	50.55
123	30	6750	50.04
123	100	6780	49.61
123	130	6810	49.24
123	200	6840	48.92
123	230	6870	48.63
123	300	6900	48.38
123	330	6930	48.15
123	400	6960	47.94
123	430	6990	47.73
123	500	7020	47.52
123	530	7050	47.34
123	600	7080	47.18
123	630	7110	65.4
123	700	7140	66.02

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
123	730	7170	66.26
123	800	7200	66.38
123	830	7230	66.59
123	900	7260	66.8
123	930	7290	66.78
123	1000	7320	66.63
123	1030	7350	66.71
123	1100	7380	47.98
123	1130	7410	47.28
123	1200	7440	46.87
123	1230	7470	46.58
123	1300	7500	46.33
123	1330	7530	52.95
123	1400	7560	64.01
123	1430	7590	64.12
123	1500	7620	64.34
123	1530	7650	64.57
123	1600	7680	64.89
123	1630	7710	64.99
123	1700	7740	65.03
123	1730	7770	65.07
123	1800	7800	65.1
123	1830	7830	65.06
123	1900	7860	65.12
123	1930	7890	65.14
123	2000	7920	65.1
123	2030	7950	65.09
123	2100	7980	47.2
123	2130	8010	46.37
123	2200	8040	45.86
123	2230	8070	45.46
123	2300	8100	45.17
123	2330	8130	44.94
124	0	8160	44.74
124	30	8190	44.56
124	100	8220	44.41
124	130	8250	44.26
124	200	8280	44.15
124	230	8310	44.02
124	300	8340	43.92
124	330	8370	43.8
124	400	8400	43.66
124	430	8430	61.52
124	500	8460	61.96
124	530	8490	62.32
124	600	8520	62.45
124	630	8550	62.57
124	700	8580	62.66
124	730	8610	62.82
124	800	8640	62.89
124	830	8670	62.85
124	900	8700	62.94
124	930	8730	62.9

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
124	1000	8760	62.98
124	1030	8790	63.06
124	1100	8820	63.15
124	1130	8850	45.55
124	1200	8880	44.64
124	1230	8910	44.18
124	1300	8940	43.87
124	1330	8970	43.62
124	1400	9000	43.4
124	1430	9030	43.21
124	1500	9060	43.06
124	1530	9090	42.92
124	1600	9120	42.79
124	1630	9150	42.68
124	1700	9180	42.58
124	1730	9210	42.48
124	1800	9240	42.38
124	1830	9270	42.29
124	1900	9300	42.23
124	1930	9330	42.14
124	2000	9360	42.07
124	2030	9390	41.97
124	2100	9420	41.89
124	2130	9450	59.34
124	2200	9480	59.99
124	2230	9510	60.38
124	2300	9540	60.64
124	2330	9570	60.88
125	0	9600	61
125	30	9630	61.06
125	100	9660	61.14
125	130	9690	61.22
125	200	9720	61.32
125	230	9750	61.43
125	300	9780	61.32
125	330	9810	44.9
125	400	9840	43.36
125	430	9870	42.85
125	500	9900	42.51
125	530	9930	42.26
125	600	9960	42.03
125	630	9990	41.85
125	700	10020	41.7
125	730	10050	61.29
125	800	10080	61.83
125	830	10110	63.05
125	900	10140	63.15
125	930	10170	63.36
125	1000	10200	63.55
125	1030	10230	63.78
125	1100	10260	63.83
125	1130	10290	63.94
125	1200	10320	43.75

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
125	1230	10350	42.82
125	1300	10380	42.35
125	1330	10410	42.02
125	1400	10440	41.76
125	1430	10470	41.56
125	1500	10500	61.14
125	1530	10530	42.51
125	1600	10560	41.76
125	1630	10590	41.46
125	1700	10620	41.27
125	1730	10650	41.11
125	1800	10680	40.93
125	1830	10710	40.83
125	1900	10740	57.79
125	1930	10770	58.39
125	2000	10800	58.69
125	2030	10830	58.87
125	2100	10860	59
125	2130	10890	59.2
125	2200	10920	59.3
125	2230	10950	59.24
125	2300	10980	59.33
125	2330	11010	59.32
126	0	11040	42.32
126	30	11070	41.7
126	100	11100	41.37
126	130	11130	41.12
126	200	11160	40.91
126	230	11190	40.75
126	300	11220	40.63
126	330	11250	40.5
126	400	11280	40.38
126	430	11310	40.28
126	500	11340	40.18
126	530	11370	40.11
126	600	11400	40.04
126	630	11430	39.94
126	700	11460	39.87
126	730	11490	56.19
126	800	11520	60.96
126	830	11550	61.5
126	900	11580	61.68
126	930	11610	61.82
126	1000	11640	43
126	1030	11670	41.34
126	1100	11700	40.84
126	1130	11730	40.58
126	1200	11760	40.36
126	1230	11790	40.15
126	1300	11820	40
126	1330	11850	39.86
126	1400	11880	39.74
126	1430	11910	39.61

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
126	1500	11940	39.52
126	1530	11970	39.44
126	1600	12000	39.36
126	1630	12030	39.28
126	1700	12060	39.22
126	1730	12090	59.15
126	1800	12120	59.84
126	1830	12150	60.36
126	1900	12180	60.7
126	1930	12210	60.86
126	2000	12240	61.05
126	2030	12270	61.16
126	2100	12300	61.24
126	2130	12330	61.21
126	2200	12360	61.25
126	2230	12390	41.82
126	2300	12420	40.91
126	2330	12450	40.49
127	0	12480	40.16
127	30	12510	39.9
127	100	12540	39.7
127	130	12570	39.52
127	200	12600	39.38
127	230	12630	39.26
127	300	12660	39.15
127	330	12690	39.05
127	400	12720	38.96
127	430	12750	38.88
127	500	12780	38.8
127	530	12810	38.73
127	600	12840	38.68
127	630	12870	38.61
127	700	12900	38.55
127	730	12930	38.51
127	800	12960	38.47
127	830	12990	38.44
127	900	13020	57.75
127	930	13050	58.8
127	1000	13080	59.32
127	1030	13110	59.73
127	1100	13140	59.89
127	1130	13170	60.11
127	1200	13200	60.21
127	1230	13230	60.36
127	1300	13260	60.56
127	1330	13290	60.67
127	1400	13320	60.83
127	1430	13350	60.88
127	1500	13380	60.9
127	1530	13410	41.21
127	1600	13440	40.43
127	1630	13470	58.69
127	1700	13500	59.05

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
127	1730	13530	59.29
127	1800	13560	59.24
127	1830	13590	59.39
127	1900	13620	59.43
127	1930	13650	59.62
127	2000	13680	59.69
127	2030	13710	59.72
127	2100	13740	59.85
127	2130	13770	59.88
127	2200	13800	59.96
127	2230	13830	60.05
127	2300	13860	60.15
127	2330	13890	42.24
128	0	13920	40.96
128	30	13950	40.51
128	100	13980	40.1
128	130	14010	39.86
128	200	14040	39.66
128	230	14070	39.44
128	300	14100	39.29
128	330	14130	39.15
128	400	14160	39.03
128	430	14190	38.91
128	500	14220	38.81
128	530	14250	38.71
128	600	14280	38.63
128	630	14310	38.53
128	700	14340	38.45
128	730	14370	38.37
128	800	14400	38.31
128	830	14430	38.25
128	900	14460	55.32
128	930	14490	58.07
128	1000	14520	58.62
128	1030	14550	59.04
128	1100	14580	59.43
128	1130	14610	59.6
128	1200	14640	59.81
128	1230	14670	59.96
128	1300	14700	60.01
128	1330	14730	60.06
128	1400	14760	60.05
128	1430	14790	60.15
128	1500	14820	60.05
128	1530	14850	60.14
128	1600	14880	40.65
128	1630	14910	39.91
128	1700	14940	39.48
128	1730	14970	39.18
128	1800	15000	38.95
128	1830	15030	38.77
128	1900	15060	56.77
128	1930	15090	58.1

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs, min)	Cumulative Time (minutes)	Water Level (feet)
128	2000	15120	58.49
128	2030	15150	58.81
128	2100	15180	59.06
128	2130	15210	59.25
128	2200	15240	59.36
128	2230	15270	59.12
128	2300	15300	59.17
128	2330	15330	41.29
129	0	15360	39.99
129	30	15390	39.47
129	100	15420	39.16
129	130	15450	38.91
129	200	15480	38.71
129	230	15510	38.53
129	300	15540	38.38
129	330	15570	38.25
129	400	15600	38.13
129	430	15630	38.02
129	500	15660	37.92
129	530	15690	37.87
129	600	15720	37.81
129	630	15750	37.72
129	700	15780	56.19
129	730	15810	57.04
129	800	15840	57.42
129	830	15870	57.64
129	900	15900	57.67
129	930	15930	57.71
129	1000	15960	57.88
129	1030	15990	59.98
129	1100	16020	39.86
129	1130	16050	39.15
129	1200	16080	38.79
129	1230	16110	38.53
129	1300	16140	38.34
129	1330	16170	38.18
129	1400	16200	38.05
129	1430	16230	37.93
129	1500	16260	37.83
129	1530	16290	37.74
129	1600	16320	37.65
129	1630	16350	37.57
129	1700	16380	37.49
129	1730	16410	56.35
129	1800	16440	56.96
129	1830	16470	57.43
129	1900	16500	57.67

MEADOWBROOKE SUBDIVISION WELL MS-3

Emery & Garrett Groundwater, Inc.

RAW DATA FOR MONITORING WELL MS-3
PUMPING TEST B-3 AND B-4
BEALETON, VIRGINIA

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
109	1700	-11780	7.10
109	1800	-11880	7.14
109	1900	-11980	7.17
109	2000	-12080	7.26
109	2100	-12180	7.30
109	2200	-12280	7.37
109	2300	-12380	7.41
110	0	-10080	7.43
110	100	-10180	7.38
110	200	-10280	7.30
110	300	-10380	7.25
110	400	-10480	7.19
110	500	-10580	7.12
110	600	-10680	7.05
110	700	-10780	6.99
110	800	-10880	6.96
110	900	-10980	7.01
110	1000	-11080	7.09
110	1100	-11180	7.16
110	1200	-11280	7.21
110	1300	-11220	7.22
110	1400	-11160	7.21
110	1500	-11100	7.19
110	1600	-11040	7.18
110	1700	-10980	7.14
110	1800	-10920	7.09
110	1900	-10860	7.05
110	2000	-10800	7.05
110	2100	-10740	7.09
110	2200	-10680	7.14
110	2300	-10620	7.21
111	0	-10560	7.25
111	100	-10500	7.23
111	200	-10440	7.20
111	300	-10380	7.16
111	400	-10320	7.11
111	500	-10260	7.07
111	600	-10200	7.03
111	700	-10140	6.97
111	800	-10080	6.99
111	900	-10020	7.05
111	1000	-9960	7.14
111	1100	-9900	7.18
111	1200	-9840	7.18
111	1300	-9780	7.17
111	1400	-9720	7.16
111	1500	-9660	7.13
111	1600	-9600	7.11
111	1700	-9540	7.07

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
111	1800	-9480	7.07
111	1900	-9420	7.13
111	2000	-9360	7.20
111	2100	-9300	7.27
111	2200	-9240	7.33
111	2300	-9180	7.37
112	0	-9120	7.37
112	100	-9060	7.35
112	200	-9000	7.28
112	300	-8940	7.21
112	400	-8880	7.14
112	500	-8820	7.07
112	600	-8760	7.01
112	700	-8700	6.99
112	800	-8640	6.95
112	900	-8580	6.93
112	1000	-8520	6.89
112	1100	-8460	6.84
112	1200	-8400	6.82
112	1300	-8340	6.80
112	1400	-8280	6.80
112	1500	-8220	6.84
112	1600	-8160	6.91
112	1700	-8100	6.97
112	1800	-8040	7.03
112	1900	-7980	7.10
112	2000	-7920	7.16
112	2100	-7860	7.21
112	2200	-7800	7.21
112	2300	-7740	7.26
113	0	-7680	7.31
113	100	-7620	7.35
113	200	-7560	7.38
113	300	-7500	7.41
113	400	-7440	7.41
113	500	-7380	7.36
113	600	-7320	7.30
113	700	-7260	7.23
113	800	-7200	7.18
113	900	-7140	7.14
113	1000	-7080	7.16
113	1100	-7020	7.22
113	1200	-6960	7.30
113	1300	-6900	7.37
113	1400	-6840	7.45
113	1500	-6780	7.52
113	1600	-6720	7.59
113	1700	-6660	7.62
113	1800	-6600	7.63
113	1900	-6540	7.70
113	2000	-6480	7.78
113	2100	-6420	7.84
113	2200	-6360	7.92

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
113	2300	-6300	7.98
114	0	-6240	8.05
114	100	-6180	8.06
114	200	-6120	8.02
114	300	-6060	7.95
114	400	-6000	7.87
114	500	-5940	7.79
114	600	-5880	7.72
114	700	-5820	7.66
114	800	-5760	7.60
114	900	-5700	7.57
114	1000	-5640	7.55
114	1100	-5580	7.53
114	1200	-5520	7.51
114	1300	-5460	7.57
114	1400	-5400	7.64
114	1500	-5340	7.70
114	1600	-5280	7.77
114	1700	-5220	7.83
114	1800	-5160	7.90
114	1900	-5100	7.96
114	2000	-5040	7.97
114	2100	-4980	7.98
114	2200	-4920	8.01
114	2300	-4860	8.09
115	0	-4800	8.14
115	100	-4740	8.19
115	200	-4680	8.22
115	300	-4620	8.27
115	400	-4560	8.28
115	500	-4500	8.24
115	600	-4440	8.25
115	700	-4380	8.26
115	800	-4320	8.32
115	900	-4260	8.37
115	1000	-4200	8.44
115	1100	-4140	8.51
115	1200	-4080	8.63
115	1300	-4020	8.75
115	1400	-3960	8.86
115	1500	-3900	9.04
115	1600	-3840	9.25
115	1700	-3780	9.50
115	1800	-3720	9.86
115	1900	-3660	10.19
115	2000	-3600	10.18
115	2100	-3540	10.11
115	2200	-3480	10.04
115	2300	-3420	10.02
116	0	-3360	10.00
116	100	-3300	9.94
116	200	-3240	9.84
116	300	-3180	9.69

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
116	400	-3120	9.56
116	500	-3060	9.41
116	600	-3000	9.29
116	700	-2940	9.17
116	800	-2880	9.11
116	900	-2820	9.11
116	1000	-2760	9.16
116	1100	-2700	9.22
116	1200	-2640	9.28
116	1300	-2580	9.34
116	1400	-2520	9.31
116	1500	-2460	9.31
116	1600	-2400	9.25
116	1700	-2340	9.19
116	1800	-2280	9.16
116	1900	-2220	9.12
116	2000	-2160	9.11
116	2100	-2100	9.02
116	2200	-2040	8.99
116	2300	-1980	8.97
117	0	-1920	8.92
117	100	-1860	8.87
117	200	-1800	8.82
117	300	-1740	8.74
117	400	-1680	8.66
117	500	-1620	8.58
117	600	-1560	8.49
117	700	-1500	8.44
117	800	-1440	8.39
117	900	-1380	8.37
117	1000	-1320	8.35
117	1100	-1260	8.37
117	1200	-1200	8.41
117	1300	-1140	8.48
117	1400	-1080	8.55
117	1500	-1020	8.52
117	1600	-960	8.57
117	1700	-900	8.59
117	1800	-840	8.58
117	1900	-780	8.56
117	2000	-720	8.57
117	2100	-660	8.57
117	2200	-600	8.58
117	2300	-540	8.61
118	0	-480	8.64
118	100	-420	8.68
118	200	-360	8.70
118	300	-300	8.71
118	400	-240	8.70
118	500	-180	8.66
118	600	-120	8.63
118	700	-60	8.60
118	800	0	8.59

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
118	900	60	8.81
118	1000	120	9.26
118	1100	180	9.76
118	1200	240	10.24
118	1300	300	10.68
118	1400	360	11.10
118	1500	420	11.48
118	1600	480	11.83
118	1700	540	12.18
118	1800	600	12.51
118	1900	660	12.81
118	2000	720	13.14
118	2100	780	13.44
118	2200	840	13.74
118	2300	900	14.04
119	0	960	14.31
119	100	1020	14.54
119	200	1080	14.75
119	300	1140	14.96
119	400	1200	15.15
119	500	1260	15.33
119	600	1320	15.47
119	700	1380	15.64
119	800	1440	15.78
119	900	1500	15.98
119	1000	1560	16.22
119	1100	1620	16.48
119	1200	1680	16.77
119	1300	1740	17.03
119	1400	1800	17.29
119	1500	1860	17.51
119	1600	1920	17.68
119	1700	1980	17.84
119	1800	2040	18.03
119	1900	2100	18.15
119	2000	2160	18.31
119	2100	2220	18.45
119	2200	2280	18.59
119	2300	2340	18.70
120	0	2400	18.77
120	100	2460	18.86
120	200	2520	18.91
120	300	2580	18.95
120	400	2640	18.98
120	500	2700	19.03
120	600	2760	19.08
120	700	2820	19.08
120	800	2880	19.14
120	900	2940	19.29
120	1000	3000	19.46
120	1100	3060	19.65
120	1200	3120	19.83
120	1300	3180	20.04

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
120	1400	3240	20.24
120	1500	3300	20.40
120	1600	3360	20.52
120	1700	3420	20.64
120	1800	3480	20.77
120	1900	3540	20.92
120	2000	3600	21.02
120	2100	3660	21.17
120	2200	3720	21.29
120	2300	3780	21.42
121	0	3840	21.49
121	100	3900	21.55
121	200	3960	21.67
121	300	4020	21.80
121	400	4080	21.88
121	500	4140	21.90
121	600	4200	21.87
121	700	4260	21.83
121	800	4320	21.78
121	900	4380	21.79
121	1000	4440	21.82
121	1100	4500	21.91
121	1200	4560	22.05
121	1300	4620	22.20
121	1400	4680	22.33
121	1500	4740	22.47
121	1600	4800	22.57
121	1700	4860	22.66
121	1800	4920	22.68
121	1900	4980	22.75
121	2000	5040	22.80
121	2100	5100	22.86
121	2200	5160	22.91
121	2300	5220	22.97
122	0	5280	23.03
122	100	5340	23.09
122	200	5400	23.08
122	300	5460	23.06
122	400	5520	23.04
122	500	5580	22.98
122	600	5640	22.95
122	700	5700	22.97
122	800	5760	23.04
122	900	5820	23.15
BEGIN RECOVERY			
122	1000	5880	23.27
122	1100	5940	23.03
122	1200	6000	22.65
122	1300	6060	22.18
122	1400	6120	21.74
122	1500	6180	21.30
122	1600	6240	20.90
122	1700	6300	20.58

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
122	1800	6360	20.31
122	1900	6420	20.08
122	2000	6480	19.89
122	2100	6540	19.67
122	2200	6600	19.45
122	2300	6660	19.28
123	0	6720	19.06
123	100	6780	18.80
123	200	6840	18.51
123	300	6900	18.25
123	400	6960	18.01
123	500	7020	17.75
123	600	7080	17.52
123	700	7140	17.34
123	800	7200	17.23
123	900	7260	17.14
123	1000	7320	17.08
123	1100	7380	16.99
123	1200	7440	16.86
123	1300	7500	16.71
123	1400	7560	16.57
123	1500	7620	16.47
123	1600	7680	16.39
123	1700	7740	16.32
123	1800	7800	16.24
123	1900	7860	16.18
123	2000	7920	16.11
123	2100	7980	16.02
123	2200	8040	15.91
123	2300	8100	15.74
124	0	8160	15.61
124	100	8220	15.47
124	200	8280	15.34
124	300	8340	15.24
124	400	8400	15.09
124	500	8460	15.02
124	600	8520	14.96
124	700	8580	14.94
124	800	8640	14.90
124	900	8700	14.86
124	1000	8760	14.82
124	1100	8820	14.78
124	1200	8880	14.74
124	1300	8940	14.64
124	1400	9000	14.52
124	1500	9060	14.42
124	1600	9120	14.32
124	1700	9180	14.22
124	1800	9240	14.14
124	1900	9300	14.06
124	2000	9360	13.99
124	2100	9420	13.92
124	2200	9480	13.85

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
124	2300	9540	13.82
125	0	9600	13.82
125	100	9660	13.81
125	200	9720	13.78
125	300	9780	13.77
125	400	9840	13.72
125	500	9900	13.63
125	600	9960	13.51
125	700	10020	13.41
125	800	10080	13.33
125	900	10140	13.33
125	1000	10200	13.39
125	1100	10260	13.39
125	1200	10320	13.41
125	1300	10380	13.40
125	1400	10440	13.30
125	1500	10500	13.22
125	1600	10560	13.17
125	1700	10620	13.07
125	1800	10680	12.98
125	1900	10740	12.87
125	2000	10800	12.85
125	2100	10860	12.86
125	2200	10920	12.89
125	2300	10980	12.91
126	0	11040	12.91
126	100	11100	12.85
126	200	11160	12.78
126	300	11220	12.69
126	400	11280	12.59
126	500	11340	12.51
126	600	11400	12.43
126	700	11460	12.35
126	800	11520	12.31
126	900	11580	12.33
126	1000	11640	12.38
126	1100	11700	12.37
126	1200	11760	12.35
126	1300	11820	12.29
126	1400	11880	12.20
126	1500	11940	12.11
126	1600	12000	12.04
126	1700	12060	11.94
126	1800	12120	11.88
126	1900	12180	11.90
126	2000	12240	11.95
126	2100	12300	11.99
126	2200	12360	12.03
126	2300	12420	12.07
127	0	12480	12.01
127	100	12540	11.93
127	200	12600	11.82
127	300	12660	11.74

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
127	400	12720	11.64
127	500	12780	11.55
127	600	12840	11.49
127	700	12900	11.42
127	800	12960	11.35
127	900	13020	11.30
127	1000	13080	11.35
127	1100	13140	11.41
127	1200	13200	11.48
127	1300	13260	11.57
127	1400	13320	11.63
127	1500	13380	11.69
127	1600	13440	11.71
127	1700	13500	11.71
127	1800	13560	11.73
127	1900	13620	11.76
127	2000	13680	11.78
127	2100	13740	11.84
127	2200	13800	11.86
127	2300	13860	11.89
128	0	13920	11.86
128	100	13980	11.81
128	200	14040	11.80
128	300	14100	11.68
128	400	14160	11.61
128	500	14220	11.48
128	600	14280	11.40
128	700	14340	11.29
128	800	14400	11.21
128	900	14460	11.15
128	1000	14520	11.15
128	1100	14580	11.16
128	1200	14640	11.22
128	1300	14700	11.28
128	1400	14760	11.31
128	1500	14820	11.34
128	1600	14880	11.36
128	1700	14940	11.32
128	1800	15000	11.23
128	1900	15060	11.16
128	2000	15120	11.13
128	2100	15180	11.13
128	2200	15240	11.16
128	2300	15300	11.21
129	0	15360	11.23
129	100	15420	11.21
129	200	15480	11.13
129	300	15540	11.05
129	400	15600	10.94
129	500	15660	10.85
129	600	15720	10.77
129	700	15780	10.69
129	800	15840	10.68

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
129	900	15900	10.74
129	1000	15960	10.81
129	1100	16020	10.91
129	1200	16080	10.93
129	1300	16140	10.93
129	1400	16200	10.89
129	1500	16260	10.82
129	1600	16320	10.77
129	1700	16380	10.68
129	1800	16440	10.63
129	1900	16500	10.65
129	2000	16560	10.70
129	2100	16620	10.74
129	2200	16680	10.79
129	2300	16740	10.83
130	0	16800	10.89
130	100	16860	10.84
130	200	16920	10.80
130	300	16980	10.70
130	400	17040	10.60
130	500	17100	10.52
130	600	17160	10.43

MEADOWBROOKE SUBDIVISION WELL MS-5

Emery & Garrett Groundwater, Inc.

RAW DATA FOR MONITORING WELL MS-5
PUMPING TEST B-3 AND B-4
BEALETON, VIRGINIA

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
110	1400	-11160	16.95
110	1500	-11100	16.95
110	1600	-11040	16.95
110	1700	-10980	17.05
110	1800	-10920	17.05
110	1900	-10860	17.05
110	2000	-10800	17.15
110	2100	-10740	17.15
110	2200	-10680	17.05
110	2300	-10620	17.15
111	0	-10560	17.05
111	100	-10500	17.05
111	200	-10440	17.05
111	300	-10380	17.05
111	400	-10320	17.05
111	500	-10260	17.05
111	600	-10200	17.05
111	700	-10140	17.05
111	800	-10080	16.95
111	900	-10020	16.95
113	1600	-6720	31.29
113	1700	-6660	30.8
113	1800	-6600	30.67
113	1900	-6540	30.66
113	2000	-6480	30.69
113	2100	-6420	30.72
113	2200	-6360	30.77
113	2300	-6300	30.82
114	0	-6240	30.87
114	100	-6180	30.88
114	200	-6120	30.88
114	300	-6060	30.85
114	400	-6000	30.81
114	500	-5940	30.76
114	600	-5880	30.75
114	700	-5820	30.73
114	800	-5760	30.73
114	900	-5700	30.74
114	1000	-5640	30.77
114	1100	-5580	30.78
114	1200	-5520	30.79
114	1300	-5460	30.82
114	1400	-5400	30.84
114	1500	-5340	30.85
114	1600	-5280	30.88
114	1700	-5220	30.9
114	1800	-5160	30.94
114	1900	-5100	30.98
114	2000	-5040	31.01
114	2100	-4980	31.04

114	2200	-4920	31.08
114	2300	-4860	31.13
115	0	-4800	31.18
115	100	-4740	31.21
115	200	-4680	31.24
115	300	-4620	31.26
115	400	-4560	31.26
115	500	-4500	31.25
115	600	-4440	31.26
115	700	-4380	31.27
115	800	-4320	31.32
115	900	-4260	31.38
115	1400	-3960	31.92
115	1415	-3945	32.07
115	1430	-3930	32.26
115	1445	-3915	32.45
115	1500	-3900	32.65
115	1515	-3885	32.87
115	1530	-3870	33.03
115	1545	-3855	33.26
115	1600	-3840	33.53
115	1615	-3825	33.78
115	1630	-3810	34
115	1645	-3795	34.22
115	1700	-3780	34.45
115	1715	-3765	34.72
115	1730	-3750	35.12
115	1745	-3735	35.52
115	1800	-3720	35.9
115	1815	-3705	36.27
115	1830	-3690	36.65
115	1845	-3675	36.94
115	1900	-3660	36.99
115	1915	-3645	36.98
115	1930	-3630	36.93
115	1945	-3615	36.88
115	2000	-3600	36.83
115	2015	-3585	36.77
115	2030	-3570	36.71
115	2045	-3555	36.65
115	2100	-3540	36.59
115	2115	-3525	36.54
115	2130	-3510	36.48
115	2145	-3495	36.42
115	2200	-3480	36.36
115	2215	-3465	36.32
115	2230	-3450	36.27
115	2245	-3435	36.22
115	2300	-3420	36.17
115	2315	-3405	36.12
115	2330	-3390	36.07
115	2345	-3375	36.02
116	0	-3360	35.97
116	15	-3345	35.92
116	30	-3330	35.88
116	45	-3315	35.82
116	100	-3300	35.77

116	115	-3285	35.71
116	130	-3270	35.66
116	145	-3255	35.59
116	200	-3240	35.53
116	215	-3225	35.46
116	230	-3210	35.39
116	245	-3195	35.32
116	300	-3180	35.26
116	315	-3165	35.18
116	330	-3150	35.11
116	345	-3135	35.04
116	400	-3120	34.97
116	415	-3105	34.9
116	430	-3090	34.83
116	445	-3075	34.77
116	500	-3060	34.7
116	515	-3045	34.64
116	530	-3030	34.58
116	545	-3015	34.53
116	600	-3000	34.47
116	615	-2985	34.42
116	630	-2970	34.37
116	645	-2955	34.33
116	700	-2940	34.28
116	715	-2925	34.24
116	730	-2910	34.2
116	745	-2895	34.16
116	1800	-2280	35.59
116	1815	-2265	35.55
116	1830	-2250	35.5
116	1845	-2235	35.46
116	1900	-2220	35.43
116	1915	-2205	35.39
116	1930	-2190	35.39
116	1945	-2175	35.36
116	2000	-2160	35.33
116	2015	-2145	35.3
116	2030	-2130	35.26
116	2045	-2115	35.21
116	2100	-2100	35.16
116	2115	-2085	35.13
116	2130	-2070	35.09
116	2145	-2055	35.04
116	2200	-2040	35.02
116	2215	-2025	35
116	2230	-2010	34.98
116	2245	-1995	34.95
116	2300	-1980	34.92
116	2315	-1965	34.91
116	2330	-1950	34.91
116	2345	-1935	34.96
117	0	-1920	34.94
117	15	-1905	34.92
117	30	-1890	34.91
117	45	-1875	34.9
117	100	-1860	34.89
117	115	-1845	34.88

117	130	-1830	34.85
117	145	-1815	34.83
117	200	-1800	34.83
117	215	-1785	34.8
117	230	-1770	34.78
117	245	-1755	34.75
117	300	-1740	34.73
117	315	-1725	34.71
117	330	-1710	34.69
117	345	-1695	34.69
117	400	-1680	34.66
117	415	-1665	34.62
117	430	-1650	34.6
117	445	-1635	34.56
117	500	-1620	34.53
117	515	-1605	34.51
117	530	-1590	34.49
117	545	-1575	34.46
117	600	-1560	34.44
117	615	-1545	34.41
117	630	-1530	34.4
117	645	-1515	34.37
117	700	-1500	34.35
117	715	-1485	34.34
117	730	-1470	34.32
117	745	-1455	34.31
117	800	-1440	34.3
117	815	-1425	34.28
117	830	-1410	34.27
117	845	-1395	34.25
117	1530	-990	34.86
117	1545	-975	34.58
117	1600	-960	34.36
117	1615	-945	34.14
117	1630	-930	33.98
117	1645	-915	33.84
117	1700	-900	33.7
117	1715	-885	33.58
117	1730	-870	33.48
117	1745	-855	33.37
117	1800	-840	33.28
117	1815	-825	33.19
117	1830	-810	33.09
117	1845	-795	33.02
117	1900	-780	32.94
117	1915	-765	32.87
117	1930	-750	32.8
117	1945	-735	32.74
117	2000	-720	32.67
117	2015	-705	32.61
117	2030	-690	32.55
117	2045	-675	32.5
117	2100	-660	32.45
117	2115	-645	32.4
117	2130	-630	32.35
117	2145	-615	32.31
117	2200	-600	32.27

117	2215	-585	32.23
117	2230	-570	32.21
117	2245	-555	32.17
117	2300	-540	32.14
117	2315	-525	32.11
117	2330	-510	32.09
117	2345	-495	32.06
118	0	-480	32.03
118	15	-465	32.01
118	30	-450	31.98
118	45	-435	31.95
118	100	-420	31.94
118	115	-405	31.91
118	130	-390	31.89
118	145	-375	31.87
118	200	-360	31.85
118	215	-345	31.83
118	230	-330	31.82
118	245	-315	31.8
118	300	-300	31.78
118	315	-285	31.75
118	330	-270	31.73
118	345	-255	31.71
118	400	-240	31.69
118	415	-225	31.66
118	430	-210	31.64
118	445	-195	31.61
118	500	-180	31.59
118	515	-165	31.57
118	530	-150	31.54
118	545	-135	31.52
118	600	-120	31.5
118	615	-105	31.49
118	630	-90	31.46
118	645	-75	31.44
118	700	-60	31.42
118	715	-45	31.41
118	730	-30	31.39
118	745	-15	31.38
118	800	0	31.36
118	815	15	31.34
118	830	30	31.33
118	845	45	31.33
118	900	60	31.32
118	915	75	31.33
118	930	90	31.34
118	945	105	31.36
118	1000	120	31.37
118	1015	135	31.4
118	1030	150	31.43
118	1045	165	31.45
118	1100	180	31.49
118	1115	195	31.58
118	1130	210	31.77
118	1145	225	32.01
118	1200	240	32.27
118	1215	255	32.54

118	1230	270	32.81
118	1245	285	33.04
118	1300	300	33.28
118	1315	315	33.5
118	1330	330	33.73
118	1345	345	33.95
118	1400	360	34.18
118	1415	375	34.42
118	1430	390	34.63
118	1445	405	34.85
118	1500	420	35.07
118	1515	435	35.28
118	1530	450	35.48
118	1545	465	35.68
118	1600	480	35.88
118	1615	495	36.07
118	1630	510	36.26
118	1645	525	36.45
118	1700	540	36.64
118	1715	555	36.85
118	1730	570	37.04
118	1745	585	37.24
118	1800	600	37.42
118	1815	615	37.61
118	1830	630	37.79
118	1845	645	37.97
118	1900	660	38.14
118	1915	675	38.31
118	1930	690	38.47
118	1945	705	38.63
118	2000	720	38.79
118	2015	735	38.95
118	2030	750	39.11
118	2045	765	39.29
118	2100	780	39.47
118	2115	795	39.64
118	2130	810	39.8
118	2145	825	39.97
118	2200	840	40.16
118	2215	855	40.32
118	2230	870	40.46
118	2245	885	40.62
118	2300	900	40.78
118	2315	915	40.94
118	2330	930	41.1
118	2345	945	41.25
119	0	960	41.41
119	15	975	41.55
119	30	990	41.69
119	45	1005	41.83
119	100	1020	41.98
119	115	1035	42.12
119	130	1050	42.26
119	145	1065	42.41
119	200	1080	42.54
119	215	1095	42.67
119	230	1110	42.8

119	245	1125	42.93
119	300	1140	43.05
119	315	1155	43.17
119	330	1170	43.29
119	345	1185	43.41
119	400	1200	43.52
119	415	1215	43.63
119	430	1230	43.75
119	445	1245	43.85
119	500	1260	43.97
119	515	1275	44.07
119	530	1290	44.17
119	545	1305	44.26
119	600	1320	44.35
119	615	1335	44.45
119	630	1350	44.55
119	645	1365	44.64
119	700	1380	44.73
119	715	1395	44.83
119	730	1410	44.92
119	745	1425	45.02
119	800	1440	45.12
119	815	1455	45.23
119	830	1470	45.32
119	845	1485	45.42
119	900	1500	45.52
119	915	1515	45.61
119	930	1530	45.71
119	945	1545	45.8
119	1000	1560	45.9
119	1015	1575	46
119	1030	1590	46.09
119	1045	1605	46.18
119	1100	1620	46.27
119	1115	1635	46.37
119	1130	1650	46.47
119	1145	1665	46.57
119	1200	1680	46.67
119	1215	1695	46.77
119	1230	1710	46.85
119	1245	1725	46.93
119	1300	1740	47.03
119	1315	1755	47.13
119	1330	1770	47.21
119	1345	1785	47.3
119	1400	1800	47.38
119	1415	1815	47.46
119	1430	1830	47.55
119	1445	1845	47.62
119	1500	1860	47.69
119	1515	1875	47.75
119	1530	1890	47.82
119	1545	1905	47.9
119	1600	1920	47.98
119	1615	1935	48.05
119	1630	1950	48.1
119	1645	1965	48.17

119	1700	1980	48.24
119	1715	1995	48.31
119	1730	2010	48.38
119	1745	2025	48.44
119	1800	2040	48.5
119	1815	2055	48.55
119	1830	2070	48.6
119	1845	2085	48.64
119	1900	2100	48.7
119	1915	2115	48.76
119	1930	2130	48.81
119	1945	2145	48.87
119	2000	2160	48.92
119	2015	2175	48.97
119	2030	2190	49.01
119	2045	2205	49.08
119	2100	2220	49.14
119	2115	2235	49.18
119	2130	2250	49.23
119	2145	2265	49.29
119	2200	2280	49.34
119	2215	2295	49.4
119	2230	2310	49.46
119	2245	2325	49.5
119	2300	2340	49.56
119	2315	2355	49.61
119	2330	2370	49.66
119	2345	2385	49.7
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120	100	2460	49.93
120	115	2475	49.98
120	130	2490	50.02
120	145	2505	50.07
120	200	2520	50.13
120	215	2535	50.17
120	230	2550	50.21
120	245	2565	50.25
120	300	2580	50.3
120	315	2595	50.34
120	330	2610	50.39
120	345	2625	50.43
120	400	2640	50.46
120	415	2655	50.51
120	430	2670	50.55
120	445	2685	50.59
120	500	2700	50.63
120	515	2715	50.67
120	530	2730	50.71
120	545	2745	50.74
120	600	2760	50.78
120	615	2775	50.81
120	630	2790	50.84
120	645	2805	50.87
120	700	2820	50.91

120	715	2835	50.94
120	730	2850	50.98
120	745	2865	51.02
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120	815	2895	51.1
120	830	2910	51.15
120	845	2925	51.19
120	900	2940	51.23
120	915	2955	51.27
120	930	2970	51.32
120	945	2985	51.36
120	1000	3000	51.41
120	1015	3015	51.46
120	1030	3030	51.51
120	1045	3045	51.56
120	1100	3060	51.6
120	1115	3075	51.66
120	1130	3090	51.71
120	1145	3105	51.76
120	1200	3120	51.81
120	1215	3135	51.86
120	1230	3150	51.91
120	1245	3165	51.96
120	1300	3180	52.01
120	1315	3195	52.06
120	1330	3210	52.11
120	1345	3225	52.17
120	1400	3240	52.22
120	1415	3255	52.26
120	1430	3270	52.31
120	1445	3285	52.36
120	1500	3300	52.41
120	1515	3315	52.45
120	1530	3330	52.5
120	1545	3345	52.54
120	1600	3360	52.59
120	1615	3375	52.63
120	1630	3390	52.68
120	1645	3405	52.71
120	1700	3420	52.75
120	1715	3435	52.78
120	1730	3450	52.82
120	1745	3465	52.86
120	1800	3480	52.9
120	1815	3495	52.94
120	1830	3510	52.98
120	1845	3525	53.01
120	1900	3540	53.03
120	1915	3555	53.3
120	1930	3570	53.33
120	1945	3585	53.35
120	2000	3600	53.37
120	2015	3615	53.39
120	2030	3630	53.42
120	2045	3645	53.44
120	2100	3660	53.47
120	2115	3675	53.5

120	2130	3690	53.53
120	2145	3705	53.56
120	2200	3720	53.59
120	2215	3735	53.62
120	2230	3750	53.66
120	2245	3765	53.69
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121	15	3855	53.85
121	30	3870	53.89
121	45	3885	53.93
121	100	3900	53.95
121	115	3915	53.98
121	130	3930	54.01
121	145	3945	54.05
121	200	3960	54.09
121	215	3975	54.12
121	230	3990	54.16
121	245	4005	54.21
121	300	4020	54.24
121	315	4035	54.28
121	330	4050	54.33
121	345	4065	54.35
121	400	4080	54.38
121	415	4095	54.4
121	730	4290	54.62
121	745	4305	54.64
121	800	4320	54.66
121	815	4335	54.67
121	830	4350	54.68
121	845	4365	54.71
121	900	4380	54.73
121	915	4395	54.76
121	930	4410	54.78
121	945	4425	54.8
121	1000	4440	54.83
121	1015	4455	54.85
121	1030	4470	54.87
121	1045	4485	54.9
121	1100	4500	54.92
121	1115	4515	54.95
121	1130	4530	54.98
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121	1215	4575	55.09
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121	1330	4650	55.26
121	1345	4665	55.29
121	1400	4680	55.33
121	1415	4695	55.36
121	1430	4710	55.39

121	1445	4725	55.42
121	1500	4740	55.45
121	1515	4755	55.47
121	1530	4770	55.5
121	1545	4785	55.53
121	1600	4800	55.56
121	1615	4815	55.57
121	1630	4830	55.59
121	1645	4845	55.62
121	1700	4860	55.64
121	1715	4875	55.65
121	1730	4890	55.67
121	1745	4905	55.67
121	1800	4920	55.69
121	1815	4935	55.71
121	1830	4950	55.72
121	1845	4965	55.74
121	1900	4980	55.76
121	1915	4995	55.76
121	1930	5010	55.78
121	1945	5025	55.8
121	2000	5040	55.81
121	2015	5055	55.81
121	2030	5070	55.83
121	2045	5085	55.84
121	2100	5100	55.86
121	2115	5115	55.87
121	2130	5130	55.89
121	2145	5145	55.91
121	2200	5160	55.91
121	2215	5175	55.92
121	2230	5190	55.94
121	2245	5205	55.97
121	2300	5220	55.99
121	2315	5235	56
121	2330	5250	56.02
121	2345	5265	56.04
122	0	5280	56.06
122	15	5295	56.07
122	30	5310	56.09
122	45	5325	56.1
122	100	5340	56.12
122	115	5355	56.14
122	130	5370	56.15
122	145	5385	56.16
122	200	5400	56.18
122	215	5415	56.19
122	230	5430	56.2
122	245	5445	56.22
122	300	5460	56.23
122	315	5475	56.25
122	330	5490	56.26
122	345	5505	56.28
122	400	5520	56.29
122	415	5535	56.3
122	430	5550	56.32
122	445	5565	56.34

122	500	5580	56.34
122	515	5595	56.35
122	530	5610	56.36
122	545	5625	56.37
122	600	5640	56.38
122	615	5655	56.39
122	630	5670	56.4
122	645	5685	56.42
122	700	5700	56.43
122	715	5715	56.45
122	730	5730	56.47
122	745	5745	56.49
122	800	5760	56.51
122	815	5775	56.53
122	830	5790	56.54
122	845	5805	56.57
122	900	5820	56.59
122	915	5835	56.62
122	930	5850	56.64
122	945	5865	56.66
BEGIN RECOVERY			
122	1000	5880	56.69
122	1015	5895	56.68
122	1030	5910	56.56
122	1045	5925	56.4
122	1100	5940	56.24
122	1115	5955	56.07
122	1130	5970	55.91
122	1145	5985	55.74
122	1200	6000	55.59
122	1215	6015	55.42
122	1230	6030	55.25
122	1245	6045	55.08
122	1300	6060	54.91
122	1315	6075	54.74
122	1330	6090	54.58
122	1345	6105	54.43
122	1400	6120	54.26
122	1415	6135	54.1
122	1430	6150	53.94
122	1445	6165	53.8
122	1500	6180	53.65
122	1515	6195	53.5
122	1530	6210	53.36
122	1545	6225	53.22
122	1600	6240	53.07
122	1615	6255	52.92
122	1630	6270	52.78
122	1645	6285	52.64
122	1700	6300	52.48
122	1715	6315	52.33
122	1730	6330	52.18
122	1745	6345	52.04
122	1800	6360	51.91
122	1815	6375	51.78
122	1830	6390	51.66
122	1845	6405	51.54

122	1900	6420	51.42
122	1915	6435	51.3
122	1930	6450	51.19
122	1945	6465	51.07
122	2000	6480	50.96
122	2015	6495	50.85
122	2030	6510	50.74
122	2045	6525	50.63
122	2100	6540	50.51
122	2115	6555	50.4
122	2130	6570	50.28
122	2145	6585	50.16
122	2200	6600	50.04
122	2215	6615	49.93
122	2230	6630	49.82
122	2245	6645	49.71
122	2300	6660	49.61
122	2315	6675	49.51
122	2330	6690	49.4
122	2345	6705	49.3
123	0	6720	49.19
123	15	6735	49.09
123	30	6750	48.99
123	45	6765	48.89
123	100	6780	48.79
123	115	6795	48.69
123	130	6810	48.58
123	145	6825	48.49
123	200	6840	48.39
123	215	6855	48.29
123	230	6870	48.2
123	245	6885	48.1
123	300	6900	48
123	315	6915	47.91
123	330	6930	47.81
123	345	6945	47.71
123	400	6960	47.61
123	415	6975	47.51
123	430	6990	47.4
123	445	7005	47.3
123	500	7020	47.2
123	515	7035	47.11
123	530	7050	47.02
123	545	7065	46.94
123	600	7080	46.85
123	615	7095	46.77
123	630	7110	46.71
123	645	7125	46.63
123	700	7140	46.56
123	715	7155	46.5
123	730	7170	46.43
123	745	7185	46.36
123	800	7200	46.3
123	815	7215	46.24
123	830	7230	46.18
123	845	7245	46.12
123	900	7260	46.06

123	915	7275	45.99
123	930	7290	45.92
123	945	7305	45.85
123	1000	7320	45.78
123	1015	7335	45.7
123	1030	7350	45.63
123	1045	7365	45.55
123	1100	7380	45.47
123	1115	7395	45.39
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123	1230	7470	45.04
123	1245	7485	44.97
123	1300	7500	44.9
123	1315	7515	44.84
123	1330	7530	44.78
123	1345	7545	44.73
123	1400	7560	44.67
123	1415	7575	44.62
123	1430	7590	44.56
123	1445	7605	44.51
123	1500	7620	44.46
123	1515	7635	44.42
123	1530	7650	44.37
123	1545	7665	44.32
123	1600	7680	44.27
123	1615	7695	44.23
123	1630	7710	44.18
123	1645	7725	44.13
123	1700	7740	44.09
123	1715	7755	44.05
123	1730	7770	44
123	1745	7785	43.96
123	1800	7800	43.92
123	1815	7815	43.87
123	1830	7830	43.82
123	1845	7845	43.78
123	1900	7860	43.74
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123	1930	7890	43.64
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123	2015	7935	43.49
123	2030	7950	43.45
123	2045	7965	43.39
123	2100	7980	43.33
123	2115	7995	43.29
123	2130	8010	43.24
123	2145	8025	43.2
123	2200	8040	43.14
123	2215	8055	43.09
123	2230	8070	43.02
123	2245	8085	42.96
123	2300	8100	42.9
123	2315	8115	42.85

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123	2345	8145	42.74
124	0	8160	42.69
124	15	8175	42.64
124	30	8190	42.59
124	45	8205	42.54
124	100	8220	42.49
124	115	8235	42.44
124	130	8250	42.39
124	145	8265	42.36
124	200	8280	42.32
124	215	8295	42.27
124	230	8310	42.21
124	245	8325	42.17
124	300	8340	42.14
124	315	8355	42.09
124	330	8370	42.05
124	345	8385	41.99
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124	415	8415	41.9
124	430	8430	41.87
124	445	8445	41.84
124	500	8460	41.8
124	515	8475	41.77
124	530	8490	41.74
124	545	8505	41.71
124	600	8520	41.68
124	615	8535	41.65
124	630	8550	41.61
124	645	8565	41.58
124	700	8580	41.55
124	715	8595	41.52
124	730	8610	41.49
124	745	8625	41.46
124	800	8640	41.42
124	815	8655	41.38
124	830	8670	41.35
124	845	8685	41.32
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124	915	8715	41.25
124	930	8730	41.2
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124	1000	8760	41.13
124	1015	8775	41.1
124	1030	8790	41.07
124	1045	8805	41.03
124	1100	8820	41
124	1115	8835	40.96
124	1130	8850	40.93
124	1145	8865	40.89
124	1200	8880	40.86
124	1215	8895	40.82
124	1230	8910	40.77
124	1245	8925	40.74
124	1300	8940	40.7
124	1315	8955	40.66
124	1330	8970	40.63

124	1345	8985	40.59
124	1400	9000	40.55
124	1415	9015	40.51
124	1430	9030	40.47
124	1445	9045	40.44
124	1500	9060	40.41
124	1515	9075	40.37
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124	1545	9105	40.3
124	1600	9120	40.27
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124	1630	9150	40.21
124	1645	9165	40.18
124	1700	9180	40.15
124	1715	9195	40.12
124	1730	9210	40.09
124	1745	9225	40.06
124	1800	9240	40.03
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124	1830	9270	39.97
124	1845	9285	39.95
124	1900	9300	39.92
124	1915	9315	39.89
124	1930	9330	39.87
124	1945	9345	39.84
124	2000	9360	39.81
124	2015	9375	39.78
124	2030	9390	39.76
124	2045	9405	39.72
124	2100	9420	39.7
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124	2245	9525	39.49
124	2300	9540	39.47
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124	2330	9570	39.42
124	2345	9585	39.4
125	0	9600	39.37
125	15	9615	39.35
125	30	9630	39.33
125	45	9645	39.31
125	100	9660	39.28
125	115	9675	39.26
125	130	9690	39.24
125	145	9705	39.22
125	200	9720	39.2
125	215	9735	39.18
125	230	9750	39.15
125	245	9765	39.13
125	300	9780	39.12
125	315	9795	39.09
125	330	9810	39.05
125	345	9825	39.03

125	400	9840	39
125	415	9855	38.98
125	430	9870	38.95
125	445	9885	38.92
125	500	9900	38.89
125	515	9915	38.86
125	530	9930	38.83
125	545	9945	38.8
125	600	9960	38.78
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125	630	9990	38.72
125	645	10005	38.68
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125	745	10065	38.58
125	800	10080	38.55
125	815	10095	38.53
125	830	10110	38.51
125	845	10125	38.5
125	900	10140	38.48
125	915	10155	38.47
125	930	10170	38.45
125	945	10185	38.43
125	1000	10200	38.42
125	1015	10215	38.4
125	1030	10230	38.38
125	1045	10245	38.37
125	1100	10260	38.35
125	1115	10275	38.33
125	1130	10290	38.32
125	1145	10305	38.3
125	1200	10320	38.28
125	1215	10335	38.26
125	1230	10350	38.24
125	1245	10365	38.22
125	1300	10380	38.2
125	1315	10395	38.17
125	1330	10410	38.15
125	1345	10425	38.13
125	1400	10440	38.1
125	1415	10455	38.07
125	1430	10470	38.03
125	1445	10485	38.01
125	1500	10500	37.98
125	1515	10515	37.96
125	1530	10530	37.93
125	1545	10545	37.91
125	1600	10560	37.89
125	1615	10575	37.86
125	1630	10590	37.84
125	1645	10605	37.82
125	1700	10620	37.79
125	1715	10635	37.76
125	1730	10650	37.74
125	1745	10665	37.71
125	1800	10680	37.68

125	1815	10695	37.66
125	1830	10710	37.64
125	1845	10725	37.62
125	1900	10740	37.59
125	1915	10755	37.58
125	1930	10770	37.56
125	1945	10785	37.54
125	2000	10800	37.52
125	2015	10815	37.51
125	2030	10830	37.5
125	2045	10845	37.49
125	2100	10860	37.48
125	2115	10875	37.47
125	2130	10890	37.45
125	2145	10905	37.43
125	2200	10920	37.42
125	2215	10935	37.41
125	2230	10950	37.4
125	2245	10965	37.38
125	2300	10980	37.37
125	2315	10995	37.35
125	2330	11010	37.34
125	2345	11025	37.32
126	0	11040	37.31
126	15	11055	37.29
126	30	11070	37.27
126	45	11085	37.24
126	100	11100	37.23
126	115	11115	37.2
126	130	11130	37.18
126	145	11145	37.16
126	200	11160	37.14
126	215	11175	37.11
126	230	11190	37.09
126	245	11205	37.06
126	300	11220	37.04
126	315	11235	37.02
126	330	11250	37
126	345	11265	36.97
126	400	11280	36.94
126	415	11295	36.92
126	430	11310	36.9
126	445	11325	36.88
126	500	11340	36.86
126	515	11355	36.84
126	530	11370	36.82
126	545	11385	36.8
126	600	11400	36.77
126	615	11415	36.75
126	630	11430	36.72
126	645	11445	36.7
126	700	11460	36.69
126	715	11475	36.66
126	730	11490	36.65
126	745	11505	36.63
126	800	11520	36.62
126	815	11535	36.6

126	830	11550	36.58
126	845	11565	36.57
126	900	11580	36.57
126	915	11595	36.55
126	930	11610	36.55
126	945	11625	36.55
126	1000	11640	36.53
126	1015	11655	36.53
126	1030	11670	36.5
126	1045	11685	36.48
126	1100	11700	36.46
126	1115	11715	36.44
126	1130	11730	36.43
126	1145	11745	36.42
126	1200	11760	36.4
126	1215	11775	36.38
126	1230	11790	36.35
126	1245	11805	36.34
126	1300	11820	36.32
126	1315	11835	36.3
126	1330	11850	36.27
126	1345	11865	36.25
126	1400	11880	36.23
126	1415	11895	36.21
126	1430	11910	36.18
126	1445	11925	36.16
126	1500	11940	36.15
126	1515	11955	36.13
126	1530	11970	36.1
126	1545	11985	36.09
126	1600	12000	36.07
126	1615	12015	36.04
126	1630	12030	36.03
126	1645	12045	36.01
126	1700	12060	35.99
126	1715	12075	35.96
126	1730	12090	35.94
126	1745	12105	35.93
126	1800	12120	35.91
126	1815	12135	35.9
126	1830	12150	35.89
126	1845	12165	35.88
126	1900	12180	35.87
126	1915	12195	35.86
126	1930	12210	35.85
126	1945	12225	35.84
126	2000	12240	35.84
126	2015	12255	35.83
126	2030	12270	35.83
126	2045	12285	35.82
126	2100	12300	35.82
126	2115	12315	35.81
126	2130	12330	35.8
126	2145	12345	35.8
126	2200	12360	35.79
126	2215	12375	35.78
126	2230	12390	35.77

126	2245	12405	35.77
126	2300	12420	35.76
126	2315	12435	35.75
126	2330	12450	35.74
126	2345	12465	35.72
127	0	12480	35.7
127	15	12495	35.69
127	30	12510	35.67
127	45	12525	35.65
127	100	12540	35.63
127	115	12555	35.62
127	130	12570	35.59
127	145	12585	35.57
127	200	12600	35.55
127	215	12615	35.52
127	230	12630	35.5
127	245	12645	35.49
127	300	12660	35.47
127	315	12675	35.44
127	330	12690	35.43
127	345	12705	35.4
127	400	12720	35.38
127	415	12735	35.37
127	430	12750	35.35
127	445	12765	35.33
127	500	12780	35.31
127	515	12795	35.29
127	530	12810	35.28
127	545	12825	35.26
127	600	12840	35.26
127	615	12855	35.23
127	630	12870	35.21
127	645	12885	35.2
127	700	12900	35.18
127	715	12915	35.17
127	730	12930	35.15
127	745	12945	35.15
127	800	12960	35.13
127	815	12975	35.12
127	830	12990	35.11
127	845	13005	35.1
127	900	13020	35.09
127	915	13035	35.08
127	930	13050	35.07
127	945	13065	35.07
127	1000	13080	35.06
127	1015	13095	35.06
127	1030	13110	35.05
127	1045	13125	35.05
127	1100	13140	35.05
127	1115	13155	35.05
127	1130	13170	35.04
127	1145	13185	35.04
127	1200	13200	35.04
127	1215	13215	35.04
127	1230	13230	35.04
127	1245	13245	35.03

127	1300	13260	35.04
127	1315	13275	35.03
127	1330	13290	35.03
127	1345	13305	35.03
127	1400	13320	35.03
127	1415	13335	35.03
127	1430	13350	35.03
127	1445	13365	35.03
127	1500	13380	35.04
127	1515	13395	35.03
127	1530	13410	35.03
127	1545	13425	35.02
127	1600	13440	35.01
127	1615	13455	35.01
127	1630	13470	35
127	1645	13485	35.01
127	1700	13500	35
127	1715	13515	34.99
127	1730	13530	34.99
127	1745	13545	34.98
127	1800	13560	34.97
127	1815	13575	34.97
127	1830	13590	34.97
127	1845	13605	34.98
127	1900	13620	34.97
127	1915	13635	34.99
127	1930	13650	35.01
127	1945	13665	34.98
127	2000	13680	34.98
127	2015	13695	35
127	2030	13710	35
127	2045	13725	35.01
127	2100	13740	35.03
127	2115	13755	35.02
127	2130	13770	35.03
127	2145	13785	35.03
127	2200	13800	35.03
127	2215	13815	35.04
127	2230	13830	35.04
127	2245	13845	35.04
127	2300	13860	35.05
127	2315	13875	35.05
127	2330	13890	35.05
127	2345	13905	35.04
128	0	13920	35.02
128	15	13935	35.01
128	30	13950	35.02
128	45	13965	35
128	100	13980	34.95
128	115	13995	34.96
128	130	14010	34.96
128	145	14025	34.95
128	200	14040	34.95
128	215	14055	34.91
128	230	14070	34.88
128	245	14085	34.86
128	300	14100	34.85

128	315	14115	34.82
128	330	14130	34.79
128	345	14145	34.77
128	400	14160	34.76
128	415	14175	34.73
128	430	14190	34.71
128	445	14205	34.7
128	500	14220	34.68
128	515	14235	34.65
128	530	14250	34.63
128	545	14265	34.6
128	600	14280	34.59
128	615	14295	34.57
128	630	14310	34.54
128	645	14325	34.53
128	700	14340	34.51
128	715	14355	34.49
128	730	14370	34.48
128	745	14385	34.46
128	800	14400	34.45
128	815	14415	34.44
128	830	14430	34.43
128	845	14445	34.42
128	900	14460	34.42
128	915	14475	34.41
128	930	14490	34.39
128	945	14505	34.39
128	1000	14520	34.39
128	1015	14535	34.38
128	1030	14550	34.38
128	1045	14565	34.38
128	1100	14580	34.35
128	1115	14595	34.35
128	1130	14610	34.34
128	1145	14625	34.33
128	1200	14640	34.34
128	1215	14655	34.33
128	1230	14670	34.33
128	1245	14685	34.33
128	1300	14700	34.32
128	1315	14715	34.32
128	1330	14730	34.3
128	1345	14745	34.3
128	1400	14760	34.29
128	1415	14775	34.28
128	1430	14790	34.28
128	1445	14805	34.26
128	1500	14820	34.26
128	1515	14835	34.25
128	1530	14850	34.24
128	1545	14865	34.22
128	1600	14880	34.21
128	1615	14895	34.21
128	1630	14910	34.19
128	1645	14925	34.18
128	1700	14940	34.16
128	1715	14955	34.14

128	1730	14970	34.12
128	1745	14985	34.11
128	1800	15000	34.09
128	1815	15015	34.08
128	1830	15030	34.06
128	1845	15045	34.05
128	1900	15060	34.04
128	1915	15075	34.02
128	1930	15090	34.01
128	1945	15105	34
128	2000	15120	33.99
128	2015	15135	33.99
128	2030	15150	33.98
128	2045	15165	33.97
128	2100	15180	33.97
128	2115	15195	33.97
128	2130	15210	33.96
128	2145	15225	33.96
128	2200	15240	33.96
128	2215	15255	33.96
128	2230	15270	33.96
128	2245	15285	33.96
128	2300	15300	33.96
128	2315	15315	33.96
128	2330	15330	33.96
128	2345	15345	33.96
129	0	15360	33.95
129	15	15375	33.94
129	30	15390	33.93
129	45	15405	33.93
129	100	15420	33.92
129	115	15435	33.9
129	130	15450	33.89
129	145	15465	33.88
129	200	15480	33.86
129	215	15495	33.84
129	230	15510	33.83
129	245	15525	33.81
129	300	15540	33.79
129	315	15555	33.78
129	330	15570	33.76
129	345	15585	33.74
129	400	15600	33.72
129	415	15615	33.7
129	430	15630	33.68
129	445	15645	33.67
129	500	15660	33.65
129	515	15675	33.64
129	530	15690	33.63
129	545	15705	33.61
129	600	15720	33.59
129	615	15735	33.58
129	630	15750	33.57
129	645	15765	33.55
129	700	15780	33.54
129	715	15795	33.53
129	730	15810	33.52

129	745	15825	33.52
129	800	15840	33.52
129	815	15855	33.52
129	830	15870	33.52
129	845	15885	33.52
129	900	15900	33.52
129	915	15915	33.53
129	930	15930	33.53
129	945	15945	33.53
129	1000	15960	33.55
129	1015	15975	33.57
129	1030	15990	33.58
129	1045	16005	33.58
129	1100	16020	33.58
129	1115	16035	33.58
129	1130	16050	33.59
129	1145	16065	33.59
129	1200	16080	33.59
129	1215	16095	33.58
129	1230	16110	33.58
129	1245	16125	33.58
129	1300	16140	33.57
129	1315	16155	33.56
129	1330	16170	33.56
129	1345	16185	33.54
129	1400	16200	33.53
129	1415	16215	33.51
129	1430	16230	33.5
129	1445	16245	33.49
129	1500	16260	33.47
129	1515	16275	33.46
129	1530	16290	33.44
129	1545	16305	33.43
129	1600	16320	33.41
129	1615	16335	33.4
129	1630	16350	33.38
129	1645	16365	33.37
129	1700	16380	33.35
129	1715	16395	33.33
129	1730	16410	33.32
129	1745	16425	33.3
129	1800	16440	33.3
129	1815	16455	33.29
129	1830	16470	33.28
129	1845	16485	33.28
129	1900	16500	33.27
129	1915	16515	33.27

WEAVER DOMESTIC WELL

Emery & Garrett Groundwater, Inc.

RAW DATA FOR WEAVER MONITORING WELL
PUMPING TEST B-3 AND B-4
BEALETON, VIRGINIA

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
110	1200	-11280	0.00
110	1230	-11250	0.23
110	1300	-11220	-1.30
110	1330	-11190	-0.85
110	1400	-11160	3.33
110	1430	-11130	7.32
110	1500	-11100	0.04
110	1530	-11070	0.32
110	1600	-11040	2.46
110	1630	-11010	-0.89
110	1700	-10980	0.33
110	1730	-10950	6.97
110	1800	-10920	5.60
110	1830	-10890	7.25
110	1900	-10860	1.36
110	1930	-10830	4.16
110	2000	-10800	4.68
110	2030	-10770	3.54
110	2100	-10740	-0.17
110	2130	-10710	-0.49
110	2200	-10680	4.32
110	2230	-10650	13.12
110	2300	-10620	7.84
110	2330	-10590	2.13
111	0	-10560	1.63
111	30	-10530	4.31
111	100	-10500	2.62
111	130	-10470	-0.43
111	200	-10440	0.14
111	230	-10410	-0.36
111	300	-10380	0.45
111	330	-10350	-1.27
111	400	-10320	-0.60
111	430	-10290	-0.11
111	500	-10260	0.38
111	530	-10230	-0.58
111	600	-10200	0.47
111	630	-10170	1.75
111	700	-10140	0.33
111	730	-10110	0.83
111	800	-10080	1.39
111	830	-10050	0.86
111	900	-10020	-0.30
111	930	-9990	3.37
111	1000	-9960	4.53
111	1030	-9930	3.80
111	1100	-9900	-0.28

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
111	1130	-9870	-0.03
111	1200	-9840	-0.36
111	1230	-9810	2.20
111	1300	-9780	1.25
111	1330	-9750	-0.99
111	1400	-9720	-0.99
111	1430	-9690	0.61
111	1500	-9660	-1.48
111	1530	-9630	-1.22
111	1600	-9600	1.52
111	1630	-9570	-1.33
111	1700	-9540	2.12
111	1730	-9510	1.78
111	1800	-9480	1.24
111	1830	-9450	38.55
111	1900	-9420	13.71
111	1930	-9390	12.02
111	2000	-9360	7.74
111	2030	-9330	4.01
111	2100	-9300	1.24
111	2130	-9270	0.61
111	2200	-9240	1.94
111	2230	-9210	2.71
111	2300	-9180	0.51
111	2330	-9150	0.00
112	0	-9120	6.47
112	30	-9090	1.09
112	100	-9060	0.35
112	130	-9030	7.41
112	200	-9000	5.54
112	230	-8970	0.30
112	300	-8940	-0.07
112	330	-8910	-1.12
112	400	-8880	2.40
112	430	-8850	4.67
112	500	-8820	0.36
112	530	-8790	-0.08
112	600	-8760	-1.34
112	630	-8730	0.04
112	700	-8700	-0.21
112	730	-8670	1.16
112	800	-8640	0.95
112	830	-8610	-0.12
112	900	-8580	0.21
112	930	-8550	-1.28
112	1000	-8520	1.67
112	1030	-8490	3.83
112	1100	-8460	0.23
112	1130	-8430	1.02
112	1200	-8400	-1.13
112	1230	-8370	-1.11

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
112	1300	-8340	0.10
112	1330	-8310	0.06
112	1400	-8280	1.25
112	1430	-8250	1.11
112	1500	-8220	-0.51
112	1530	-8190	-0.82
112	1600	-8160	-0.17
112	1630	-8130	0.38
112	1700	-8100	3.50
112	1730	-8070	7.55
112	1800	-8040	1.13
112	1830	-8010	0.93
112	1900	-7980	2.52
112	1930	-7950	7.19
112	2000	-7920	8.13
112	2030	-7890	2.11
112	2100	-7860	0.20
112	2130	-7830	2.35
112	2200	-7800	0.70
112	2230	-7770	0.30
112	2300	-7740	17.13
112	2330	-7710	5.54
113	0	-7680	1.77
113	30	-7650	3.36
113	100	-7620	0.73
113	130	-7590	1.50
113	200	-7560	-0.80
113	230	-7530	-0.29
113	300	-7500	-1.44
113	330	-7470	-1.22
113	400	-7440	-0.51
113	430	-7410	1.96
113	500	-7380	0.79
113	530	-7350	7.33
113	600	-7320	0.90
113	630	-7290	3.04
113	700	-7260	2.75
113	730	-7230	0.22
113	800	-7200	-0.41
113	830	-7170	-1.49
113	900	-7140	-1.25
113	930	-7110	4.39
113	1000	-7080	9.72
113	1030	-7050	6.02
113	1100	-7020	2.60
113	1130	-6990	5.98
113	1200	-6960	3.57
113	1230	-6930	1.12
113	1300	-6900	12.40
113	1330	-6870	6.57
113	1400	-6840	2.11

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
113	1430	-6810	1.85
113	1500	-6780	1.80
113	1530	-6750	16.30
113	1600	-6720	19.25
113	1630	-6690	7.42
113	1700	-6660	5.81
113	1730	-6630	2.31
113	1800	-6600	6.43
113	1830	-6570	18.98
113	1900	-6540	20.19
113	1930	-6510	6.88
113	2000	-6480	3.31
113	2030	-6450	0.89
113	2100	-6420	1.12
113	2130	-6390	4.13
113	2200	-6360	0.48
113	2230	-6330	1.72
113	2300	-6300	0.61
113	2330	-6270	2.66
114	0	-6240	11.17
114	30	-6210	1.59
114	100	-6180	0.67
114	130	-6150	1.71
114	200	-6120	-0.36
114	230	-6090	0.11
114	300	-6060	-0.88
114	330	-6030	-0.57
114	400	-6000	0.23
114	430	-5970	-1.07
114	500	-5940	-0.63
114	530	-5910	0.94
114	600	-5880	-1.08
114	630	-5850	-0.36
114	700	-5820	2.21
114	730	-5790	1.85
114	800	-5760	2.94
114	830	-5730	2.52
114	900	-5700	0.30
114	930	-5670	9.82
114	1000	-5640	11.79
114	1030	-5610	7.06
114	1100	-5580	16.94
114	1130	-5550	15.64
114	1200	-5520	7.34
114	1230	-5490	3.13
114	1300	-5460	4.57
114	1330	-5430	1.92
114	1400	-5400	1.94
114	1430	-5370	1.38
114	1500	-5340	0.61
114	1530	-5310	0.45

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
114	1600	-5280	2.63
114	1630	-5250	-0.20
114	1700	-5220	0.84
114	1730	-5190	1.75
114	1800	-5160	0.84
114	1830	-5130	4.31
114	1900	-5100	-0.02
114	1930	-5070	2.75
114	2000	-5040	7.65
114	2030	-5010	5.41
114	2100	-4980	0.60
114	2130	-4950	4.16
114	2200	-4920	2.81
114	2230	-4890	11.49
114	2300	-4860	2.97
114	2330	-4830	3.27
115	0	-4800	1.21
115	30	-4770	3.10
115	100	-4740	2.26
115	130	-4710	0.69
115	200	-4680	1.67
115	230	-4650	-0.30
115	300	-4620	0.96
115	330	-4590	-0.67
115	400	-4560	0.07
115	430	-4530	-0.98
115	500	-4500	2.34
115	530	-4470	-0.50
115	600	-4440	-0.54
115	630	-4410	-0.18
115	700	-4380	4.11
115	730	-4350	2.49
115	800	-4320	1.71
115	830	-4290	3.03
115	900	-4260	2.51
115	930	-4230	1.46
115	1000	-4200	9.17
115	1030	-4170	6.74
115	1100	-4140	6.19
115	1130	-4110	5.52
115	1200	-4080	4.50
115	1230	-4050	5.25
115	1300	-4020	3.63
115	1330	-3990	18.16
115	1400	-3960	5.58
115	1430	-3930	6.04
115	1500	-3900	1.26
115	1530	-3870	4.34
115	1600	-3840	3.41
115	1630	-3810	1.85
115	1700	-3780	1.24

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
115	1730	-3750	0.87
115	1800	-3720	-0.26
115	1830	-3690	1.04
115	1900	-3660	3.45
115	1930	-3630	1.40
115	2000	-3600	0.82
115	2030	-3570	-0.31
115	2100	-3540	0.27
115	2130	-3510	4.00
115	2200	-3480	1.71
115	2230	-3450	1.78
115	2300	-3420	1.77
115	2330	-3390	-0.23
116	0	-3360	0.53
116	30	-3330	1.58
116	100	-3300	-0.46
116	130	-3270	0.58
116	200	-3240	-0.76
116	230	-3210	-0.08
116	300	-3180	1.21
116	330	-3150	-0.91
116	400	-3120	-0.23
116	430	-3090	3.13
116	500	-3060	1.20
116	530	-3030	0.74
116	600	-3000	1.25
116	630	-2970	-0.74
116	700	-2940	1.26
116	730	-2910	1.77
116	800	-2880	3.13
116	830	-2850	-0.44
116	900	-2820	-0.42
116	930	-2790	-1.25
116	1000	-2760	0.17
116	1030	-2730	-1.13
116	1100	-2700	-0.71
116	1130	-2670	2.27
116	1200	-2640	-0.80
116	1230	-2610	0.56
116	1300	-2580	-1.17
116	1330	-2550	0.11
116	1400	-2520	-0.57
116	1430	-2490	1.79
116	1500	-2460	-1.03
116	1530	-2430	-0.06
116	1600	-2400	0.33
116	1630	-2370	-1.35
116	1700	-2340	-0.03
116	1730	-2310	0.31
116	1800	-2280	0.35
116	1830	-2250	2.10

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
116	1900	-2220	0.11
116	1930	-2190	-0.58
116	2000	-2160	-0.39
116	2030	-2130	-1.49
116	2100	-2100	1.07
116	2130	-2070	-0.37
116	2200	-2040	-0.34
116	2230	-2010	0.87
116	2300	-1980	-1.34
116	2330	-1950	1.83
117	0	-1920	2.41
117	30	-1890	-0.68
117	100	-1860	1.47
117	130	-1830	-1.07
117	200	-1800	-0.91
117	230	-1770	-1.67
117	300	-1740	-1.31
117	330	-1710	0.33
117	400	-1680	-1.60
117	430	-1650	-1.16
117	500	-1620	-0.73
117	530	-1590	-1.24
117	600	-1560	1.86
117	630	-1530	0.11
117	700	-1500	0.17
117	730	-1470	13.21
117	800	-1440	15.65
117	830	-1410	7.67
117	900	-1380	1.82
117	930	-1350	3.63
117	1000	-1320	1.62
117	1030	-1290	2.49
117	1100	-1260	-0.59
117	1130	-1230	5.97
117	1200	-1200	2.04
117	1230	-1170	3.60
117	1300	-1140	1.04
117	1330	-1110	1.00
117	1400	-1080	5.77
117	1430	-1050	5.92
117	1500	-1020	3.27
117	1530	-990	-0.08
117	1600	-960	-0.19
117	1630	-930	0.99
117	1700	-900	1.83
117	1730	-870	4.10
117	1800	-840	3.65
117	1830	-810	2.18
117	1900	-780	8.31
117	1930	-750	3.17
117	2000	-720	4.27

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
117	2030	-690	2.13
117	2100	-660	2.45
117	2130	-630	0.41
117	2200	-600	0.09
117	2230	-570	2.61
117	2300	-540	2.77
117	2330	-510	3.21
118	0	-480	2.21
118	30	-450	4.63
118	100	-420	0.89
118	130	-390	0.11
118	200	-360	-0.23
118	230	-330	-0.65
118	300	-300	0.86
118	330	-270	-1.01
118	400	-240	3.66
118	430	-210	1.70
118	500	-180	1.77
118	530	-150	-0.77
118	600	-120	-0.12
118	630	-90	-0.06
118	700	-60	-1.34
118	730	-30	-0.82
118	800	0	2.05
118	830	30	-1.02
118	900	60	-1.00
118	930	90	-1.68
118	1000	120	1.87
118	1030	150	-0.97
118	1100	180	1.00
118	1130	210	0.29
118	1200	240	0.01
118	1230	270	0.54
118	1300	300	-1.27
118	1330	330	-0.42
118	1400	360	1.33
118	1430	390	0.80
118	1500	420	1.36
118	1530	450	-1.16
118	1600	480	-0.86
118	1630	510	1.86
118	1700	540	-0.67
118	1730	570	-0.44
118	1800	600	-1.59
118	1830	630	-1.06
118	1900	660	2.33
118	1930	690	3.17
118	2000	720	12.56
118	2030	750	1.79
118	2100	780	2.61
118	2130	810	5.10

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
118	2200	840	0.67
118	2230	870	4.24
118	2300	900	3.80
118	2330	930	1.78
119	0	960	1.18
119	30	990	-0.03
119	100	1020	1.77
119	130	1050	-0.91
119	200	1080	0.22
119	230	1110	-1.31
119	300	1140	-0.47
119	330	1170	0.14
119	400	1200	-0.11
119	430	1230	-0.86
119	500	1260	3.90
119	530	1290	-0.52
119	600	1320	-0.15
119	630	1350	-0.39
119	700	1380	-0.44
119	730	1410	2.25
119	800	1440	3.70
119	830	1470	2.46
119	900	1500	1.05
119	930	1530	1.12
119	1000	1560	8.62
119	1030	1590	4.00
119	1100	1620	2.97
119	1130	1650	5.44
119	1200	1680	3.37
119	1230	1710	0.93
119	1300	1740	2.65
119	1330	1770	-0.18
119	1400	1800	4.58
119	1430	1830	0.08
119	1500	1860	0.47
119	1530	1890	0.08
119	1600	1920	1.83
119	1630	1950	0.52
119	1700	1980	0.62
119	1730	2010	0.53
119	1800	2040	0.19
119	1830	2070	0.82
119	1900	2100	5.83
119	1930	2130	0.97
119	2000	2160	0.00
119	2030	2190	0.69
119	2100	2220	0.23
119	2130	2250	0.96
119	2200	2280	1.02
119	2230	2310	2.14
119	2300	2340	-0.39

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
119	2330	2370	0.16
120	0	2400	-1.00
120	30	2430	-0.64
120	100	2460	0.29
120	130	2490	2.51
120	200	2520	0.87
120	230	2550	-0.99
120	300	2580	-0.50
120	330	2610	1.50
120	400	2640	-1.07
120	430	2670	0.20
120	500	2700	-1.36
120	530	2730	-0.49
120	600	2760	-1.57
120	630	2790	-0.90
120	700	2820	0.43
120	730	2850	-0.36
120	800	2880	-0.38
120	830	2910	0.51
120	900	2940	1.29
120	930	2970	1.93
120	1000	3000	2.40
120	1030	3030	4.60
120	1100	3060	2.51
120	1130	3090	0.59
120	1200	3120	2.15
120	1230	3150	0.42
120	1300	3180	5.35
120	1330	3210	1.01
120	1400	3240	1.08
120	1430	3270	0.11
120	1500	3300	0.97
120	1530	3330	-0.74
120	1600	3360	-0.47
120	1630	3390	1.57
120	1700	3420	-0.47
120	1730	3450	6.26
120	1800	3480	6.45
120	1830	3510	15.20
120	1900	3540	5.17
120	1930	3570	15.41
120	2000	3600	7.86
120	2030	3630	3.21
120	2100	3660	0.62
120	2130	3690	0.55
120	2200	3720	1.12
120	2230	3750	3.56
120	2300	3780	1.43
120	2330	3810	5.29
121	0	3840	2.65
121	30	3870	1.71

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
121	100	3900	2.67
121	130	3930	3.98
121	200	3960	1.15
121	230	3990	1.72
121	300	4020	3.17
121	330	4050	0.12
121	400	4080	0.36
121	430	4110	3.26
121	500	4140	0.23
121	530	4170	0.45
121	600	4200	-0.57
121	630	4230	-0.20
121	700	4260	1.20
121	730	4290	-0.57
121	800	4320	0.40
121	830	4350	-0.76
121	900	4380	2.30
121	930	4410	2.46
121	1000	4440	5.15
121	1030	4470	4.48
121	1100	4500	9.14
121	1130	4530	5.94
121	1200	4560	2.76
121	1230	4590	0.48
121	1300	4620	0.47
121	1330	4650	1.18
121	1400	4680	2.29
121	1430	4710	5.89
121	1500	4740	1.44
121	1530	4770	1.53
121	1600	4800	0.88
121	1630	4830	0.67
121	1700	4860	2.69
121	1730	4890	1.95
121	1800	4920	1.63
121	1830	4950	0.45
121	1900	4980	0.89
121	1930	5010	1.77
121	2000	5040	-0.16
121	2030	5070	-0.13
121	2100	5100	8.71
121	2130	5130	1.82
121	2200	5160	1.43
121	2230	5190	2.27
121	2300	5220	3.92
121	2330	5250	3.35
122	0	5280	0.15
122	30	5310	0.23
122	100	5340	1.96
122	130	5370	-0.44
122	200	5400	0.33

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
122	230	5430	-0.80
122	300	5460	-0.38
122	330	5490	1.12
122	400	5520	4.80
122	430	5550	1.13
122	500	5580	1.03
122	530	5610	0.08
122	600	5640	0.08
122	630	5670	1.72
122	700	5700	-0.63
122	730	5730	0.15
122	800	5760	-0.10
122	830	5790	-0.20
122	900	5820	0.58
122	930	5850	-0.11
BEGIN RECOVERY			
122	1000	5880	6.99
122	1030	5910	2.59
122	1100	5940	7.23

WHITE DOMESTIC WELL

Emery & Garrett Groundwater, Inc.

RAW DATA FOR WHITE MONITORING WELL
PUMPING TEST B-3 AND B-4
BEALETON, VIRGINIA

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
110	1200	-11280	70.73
110	1230	-11250	67.50
110	1300	-11220	64.60
110	1330	-11190	62.54
110	1400	-11160	62.46
110	1430	-11130	60.68
110	1500	-11100	59.23
110	1530	-11070	58.13
110	1600	-11040	57.06
110	1630	-11010	57.01
110	1700	-10980	56.04
110	1730	-10950	56.30
110	1800	-10920	55.27
110	1830	-10890	54.45
110	1900	-10860	53.76
110	1930	-10830	54.26
110	2000	-10800	53.38
110	2030	-10770	52.72
110	2100	-10740	52.20
110	2130	-10710	51.77
110	2200	-10680	52.74
110	2230	-10650	51.94
110	2300	-10620	51.41
110	2330	-10590	50.89
111	0	-10560	52.02
111	30	-10530	52.40
111	100	-10500	51.53
111	130	-10470	50.96
111	200	-10440	50.68
111	230	-10410	50.24
111	300	-10380	49.80
111	330	-10350	49.51
111	400	-10320	49.18
111	430	-10290	48.79
111	500	-10260	49.30
111	530	-10230	49.19
111	600	-10200	48.70
111	630	-10170	48.30
111	700	-10140	47.99
111	730	-10110	50.69
111	800	-10080	51.04
111	830	-10050	54.28
111	900	-10020	54.55
111	930	-9990	55.53
111	1000	-9960	54.71
111	1030	-9930	53.84
111	1100	-9900	52.86

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
111	1130	-9870	53.83
111	1200	-9840	53.16
111	1230	-9810	53.00
111	1300	-9780	52.10
111	1330	-9750	51.38
111	1400	-9720	52.27
111	1430	-9690	51.41
111	1500	-9660	50.67
111	1530	-9630	50.24
111	1600	-9600	49.70
111	1630	-9570	49.35
111	1700	-9540	48.95
111	1730	-9510	48.63
111	1800	-9480	48.28
111	1830	-9450	48.85
111	1900	-9420	48.35
111	1930	-9390	47.99
111	2000	-9360	47.71
111	2030	-9330	51.67
111	2100	-9300	50.48
111	2130	-9270	49.75
111	2200	-9240	49.20
111	2230	-9210	48.68
111	2300	-9180	48.27
111	2330	-9150	48.34
112	0	-9120	49.16
112	30	-9090	49.46
112	100	-9060	48.69
112	130	-9030	48.15
112	200	-9000	47.73
112	230	-8970	47.33
112	300	-8940	47.03
112	330	-8910	46.67
112	400	-8880	46.44
112	430	-8850	46.21
112	500	-8820	46.00
112	530	-8790	45.77
112	600	-8760	46.73
112	630	-8730	46.30
112	700	-8700	45.92
112	730	-8670	48.30
112	800	-8640	47.56
112	830	-8610	48.16
112	900	-8580	47.77
112	930	-8550	55.44
112	1000	-8520	59.47
112	1030	-8490	57.63
112	1100	-8460	59.29
112	1130	-8430	59.98
112	1200	-8400	57.89
112	1230	-8370	57.47

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
112	1300	-8340	55.85
112	1330	-8310	54.70
112	1400	-8280	55.25
112	1430	-8250	54.08
112	1500	-8220	53.07
112	1530	-8190	52.33
112	1600	-8160	51.55
112	1630	-8130	51.05
112	1700	-8100	50.52
112	1730	-8070	49.96
112	1800	-8040	49.56
112	1830	-8010	49.13
112	1900	-7980	48.71
112	1930	-7950	48.36
112	2000	-7920	52.21
112	2030	-7890	57.06
112	2100	-7860	59.92
112	2130	-7830	57.42
112	2200	-7800	55.76
112	2230	-7770	54.45
112	2300	-7740	53.52
112	2330	-7710	53.18
113	0	-7680	53.61
113	30	-7650	52.48
113	100	-7620	51.73
113	130	-7590	51.07
113	200	-7560	50.58
113	230	-7530	50.08
113	300	-7500	49.65
113	330	-7470	49.23
113	400	-7440	48.84
113	430	-7410	48.46
113	500	-7380	48.11
113	530	-7350	47.83
113	600	-7320	47.52
113	630	-7290	48.13
113	700	-7260	47.65
113	730	-7230	49.33
113	800	-7200	51.28
113	830	-7170	54.45
113	900	-7140	56.16
113	930	-7110	57.95
113	1000	-7080	58.04
113	1030	-7050	56.87
113	1100	-7020	60.06
113	1130	-6990	59.71
113	1200	-6960	58.78
113	1230	-6930	57.91
113	1300	-6900	58.82
113	1330	-6870	57.57
113	1400	-6840	57.42

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
113	1430	-6810	56.86
113	1500	-6780	57.29
113	1530	-6750	62.69
113	1600	-6720	65.36
113	1630	-6690	65.27
113	1700	-6660	62.50
113	1730	-6630	62.47
113	1800	-6600	62.39
113	1830	-6570	60.38
113	1900	-6540	67.79
113	1930	-6510	69.72
113	2000	-6480	70.64
113	2030	-6450	67.21
113	2100	-6420	66.50
113	2130	-6390	70.67
113	2200	-6360	70.22
113	2230	-6330	71.36
113	2300	-6300	68.33
113	2330	-6270	66.10
114	0	-6240	64.41
114	30	-6210	63.60
114	100	-6180	62.22
114	130	-6150	61.18
114	200	-6120	60.06
114	230	-6090	59.21
114	300	-6060	58.39
114	330	-6030	57.80
114	400	-6000	57.06
114	430	-5970	57.28
114	500	-5940	56.26
114	530	-5910	55.65
114	600	-5880	55.13
114	630	-5850	54.55
114	700	-5820	54.04
114	730	-5790	56.06
114	800	-5760	59.88
114	830	-5730	63.63
114	900	-5700	62.17
114	930	-5670	60.20
114	1000	-5640	59.64
114	1030	-5610	61.09
114	1100	-5580	59.79
114	1130	-5550	59.30
114	1200	-5520	58.52
114	1230	-5490	57.44
114	1300	-5460	66.31
114	1330	-5430	64.19
114	1400	-5400	62.92
114	1430	-5370	61.24
114	1500	-5340	60.62
114	1530	-5310	60.27

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
114	1600	-5280	58.98
114	1630	-5250	58.73
114	1700	-5220	57.69
114	1730	-5190	56.96
114	1800	-5160	56.90
114	1830	-5130	57.40
114	1900	-5100	56.34
114	1930	-5070	55.60
114	2000	-5040	56.05
114	2030	-5010	56.13
114	2100	-4980	55.48
114	2130	-4950	54.70
114	2200	-4920	56.00
114	2230	-4890	55.64
114	2300	-4860	54.66
114	2330	-4830	54.00
115	0	-4800	53.40
115	30	-4770	52.95
115	100	-4740	52.53
115	130	-4710	52.14
115	200	-4680	51.79
115	230	-4650	51.41
115	300	-4620	51.08
115	330	-4590	50.78
115	400	-4560	50.46
115	430	-4530	50.14
115	500	-4500	49.85
115	530	-4470	49.62
115	600	-4440	50.11
115	630	-4410	49.80
115	700	-4380	49.36
115	730	-4350	49.10
115	800	-4320	50.50
115	830	-4290	50.62
115	900	-4260	50.53
115	930	-4230	52.64
115	1000	-4200	58.22
115	1030	-4170	60.40
115	1100	-4140	59.52
115	1130	-4110	59.01
115	1200	-4080	59.78
115	1230	-4050	62.35
115	1300	-4020	59.98
115	1330	-3990	59.41
115	1400	-3960	58.79
115	1430	-3930	57.39
115	1500	-3900	56.53
115	1530	-3870	55.67
115	1600	-3840	55.78
115	1630	-3810	56.03
115	1700	-3780	54.71

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
115	1730	-3750	54.02
115	1800	-3720	53.29
115	1830	-3690	52.74
115	1900	-3660	52.24
115	1930	-3630	51.77
115	2000	-3600	52.91
115	2030	-3570	53.66
115	2100	-3540	55.96
115	2130	-3510	55.06
115	2200	-3480	54.42
115	2230	-3450	54.60
115	2300	-3420	53.63
115	2330	-3390	52.81
116	0	-3360	53.03
116	30	-3330	52.31
116	100	-3300	51.73
116	130	-3270	51.21
116	200	-3240	50.86
116	230	-3210	50.43
116	300	-3180	50.04
116	330	-3150	49.82
116	400	-3120	49.42
116	430	-3090	49.09
116	500	-3060	48.87
116	530	-3030	48.53
116	600	-3000	48.29
116	630	-2970	48.09
116	700	-2940	49.69
116	730	-2910	49.43
116	800	-2880	49.11
116	830	-2850	49.53
116	900	-2820	56.67
116	930	-2790	60.20
116	1000	-2760	59.53
116	1030	-2730	57.13
116	1100	-2700	55.59
116	1130	-2670	54.44
116	1200	-2640	55.13
116	1230	-2610	54.00
116	1300	-2580	53.11
116	1330	-2550	52.47
116	1400	-2520	53.63
116	1430	-2490	53.38
116	1500	-2460	52.56
116	1530	-2430	51.88
116	1600	-2400	51.26
116	1630	-2370	50.69
116	1700	-2340	50.31
116	1730	-2310	49.89
116	1800	-2280	49.48
116	1830	-2250	49.09

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
116	1900	-2220	48.82
116	1930	-2190	48.46
116	2000	-2160	48.12
116	2030	-2130	47.84
116	2100	-2100	47.59
116	2130	-2070	47.32
116	2200	-2040	47.11
116	2230	-2010	46.96
116	2300	-1980	46.69
116	2330	-1950	46.53
117	0	-1920	47.58
117	30	-1890	47.84
117	100	-1860	47.80
117	130	-1830	47.36
117	200	-1800	46.97
117	230	-1770	46.69
117	300	-1740	46.49
117	330	-1710	46.21
117	400	-1680	45.99
117	430	-1650	45.71
117	500	-1620	45.52
117	530	-1590	45.39
117	600	-1560	45.16
117	630	-1530	45.03
117	700	-1500	44.83
117	730	-1470	49.89
117	800	-1440	57.23
117	830	-1410	57.87
117	900	-1380	61.99
117	930	-1350	65.15
117	1000	-1320	65.25
117	1030	-1290	63.89
117	1100	-1260	63.99
117	1130	-1230	62.98
117	1200	-1200	61.86
117	1230	-1170	59.87
117	1300	-1140	58.81
117	1330	-1110	57.48
117	1400	-1080	57.83
117	1430	-1050	56.91
117	1500	-1020	55.69
117	1530	-990	54.77
117	1600	-960	54.06
117	1630	-930	53.42
117	1700	-900	53.08
117	1730	-870	52.46
117	1800	-840	51.94
117	1830	-810	51.41
117	1900	-780	50.98
117	1930	-750	50.75
117	2000	-720	50.40

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
117	2030	-690	49.95
117	2100	-660	49.54
117	2130	-630	49.20
117	2200	-600	48.89
117	2230	-570	48.58
117	2300	-540	48.64
117	2330	-510	48.33
118	0	-480	49.72
118	30	-450	50.12
118	100	-420	49.48
118	130	-390	48.93
118	200	-360	48.53
118	230	-330	48.21
118	300	-300	48.25
118	330	-270	47.75
118	400	-240	47.40
118	430	-210	47.09
118	500	-180	46.87
118	530	-150	46.68
118	600	-120	46.63
118	630	-90	46.33
118	700	-60	49.31
118	730	-30	50.82
118	800	0	51.59
118	830	30	52.37
118	900	60	51.98
118	930	90	50.80
118	1000	120	50.06
118	1030	150	49.36
118	1100	180	50.87
118	1130	210	52.57
118	1200	240	52.08
118	1230	270	51.03
118	1300	300	50.66
118	1330	330	51.05
118	1400	360	51.36
118	1430	390	50.46
118	1500	420	49.80
118	1530	450	49.30
118	1600	480	48.82
118	1630	510	49.71
118	1700	540	49.38
118	1730	570	48.81
118	1800	600	48.38
118	1830	630	48.28
118	1900	660	47.79
118	1930	690	47.46
118	2000	720	47.12
118	2030	750	46.83
118	2100	780	47.45
118	2130	810	46.89

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
118	2200	840	46.54
118	2230	870	47.05
118	2300	900	46.57
118	2330	930	46.29
119	0	960	48.15
119	30	990	48.04
119	100	1020	47.36
119	130	1050	46.93
119	200	1080	46.52
119	230	1110	46.25
119	300	1140	45.99
119	330	1170	45.74
119	400	1200	45.53
119	430	1230	46.00
119	500	1260	46.15
119	530	1290	46.12
119	600	1320	45.68
119	630	1350	45.33
119	700	1380	45.06
119	730	1410	47.07
119	800	1440	47.68
119	830	1470	51.29
119	900	1500	54.74
119	930	1530	56.47
119	1000	1560	61.93
119	1030	1590	59.60
119	1100	1620	63.91
119	1130	1650	64.20
119	1200	1680	66.88
119	1230	1710	68.30
119	1300	1740	64.63
119	1330	1770	62.43
119	1400	1800	62.00
119	1430	1830	60.20
119	1500	1860	58.78
119	1530	1890	57.53
119	1600	1920	56.54
119	1630	1950	55.59
119	1700	1980	55.14
119	1730	2010	54.44
119	1800	2040	53.68
119	1830	2070	53.03
119	1900	2100	52.50
119	1930	2130	52.70
119	2000	2160	52.12
119	2030	2190	55.45
119	2100	2220	54.04
119	2130	2250	53.13
119	2200	2280	53.42
119	2230	2310	52.53
119	2300	2340	51.84

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
119	2330	2370	51.85
120	0	2400	52.57
120	30	2430	51.85
120	100	2460	51.24
120	130	2490	50.72
120	200	2520	50.30
120	230	2550	49.92
120	300	2580	49.56
120	330	2610	49.26
120	400	2640	48.88
120	430	2670	48.64
120	500	2700	48.34
120	530	2730	49.04
120	600	2760	48.44
120	630	2790	48.86
120	700	2820	48.62
120	730	2850	50.16
120	800	2880	49.77
120	830	2910	55.26
120	900	2940	56.75
120	930	2970	55.95
120	1000	3000	54.36
120	1030	3030	53.47
120	1100	3060	52.55
120	1130	3090	51.77
120	1200	3120	51.93
120	1230	3150	51.19
120	1300	3180	51.38
120	1330	3210	51.74
120	1400	3240	51.82
120	1430	3270	52.10
120	1500	3300	52.43
120	1530	3330	55.66
120	1600	3360	59.90
120	1630	3390	58.80
120	1700	3420	57.85
120	1730	3450	56.69
120	1800	3480	56.65
120	1830	3510	57.55
120	1900	3540	61.37
120	1930	3570	59.58
120	2000	3600	60.62
120	2030	3630	59.18
120	2100	3660	60.01
120	2130	3690	59.30
120	2200	3720	59.66
120	2230	3750	60.05
120	2300	3780	58.51
120	2330	3810	57.71
121	0	3840	56.69
121	30	3870	55.74

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
121	100	3900	55.01
121	130	3930	54.37
121	200	3960	53.74
121	230	3990	53.23
121	300	4020	53.06
121	330	4050	52.58
121	400	4080	52.07
121	430	4110	52.04
121	500	4140	51.56
121	530	4170	52.13
121	600	4200	51.53
121	630	4230	52.60
121	700	4260	51.72
121	730	4290	51.05
121	800	4320	50.64
121	830	4350	52.25
121	900	4380	51.36
121	930	4410	56.53
121	1000	4440	62.71
121	1030	4470	62.74
121	1100	4500	71.65
121	1130	4530	76.68
121	1200	4560	76.78
121	1230	4590	80.48
121	1300	4620	80.05
121	1330	4650	76.23
121	1400	4680	74.66
121	1430	4710	71.59
121	1500	4740	69.33
121	1530	4770	69.01
121	1600	4800	67.71
121	1630	4830	66.26
121	1700	4860	64.67
121	1730	4890	64.40
121	1800	4920	63.52
121	1830	4950	63.60
121	1900	4980	62.37
121	1930	5010	75.15
121	2000	5040	70.59
121	2030	5070	68.85
121	2100	5100	71.14
121	2130	5130	69.38
121	2200	5160	68.12
121	2230	5190	66.23
121	2300	5220	65.49
121	2330	5250	64.58
122	0	5280	63.37
122	30	5310	62.51
122	100	5340	61.57
122	130	5370	60.74
122	200	5400	59.98

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
122	230	5430	59.25
122	300	5460	58.60
122	330	5490	58.02
122	400	5520	57.50
122	430	5550	56.99
122	500	5580	56.48
122	530	5610	56.47
122	600	5640	55.98
122	630	5670	56.89
122	700	5700	57.19
122	730	5730	57.81
122	800	5760	61.88
122	830	5790	62.39
122	900	5820	61.73
122	930	5850	60.38
BEGIN RECOVERY			
122	1000	5880	59.85
122	1030	5910	59.00
122	1100	5940	58.02
122	1130	5970	57.78
122	1200	6000	56.99
122	1230	6030	56.95
122	1300	6060	56.29
122	1330	6090	55.65
122	1400	6120	55.44
122	1430	6150	54.82
122	1500	6180	54.42
122	1530	6210	54.07
122	1600	6240	53.61
122	1630	6270	53.98
122	1700	6300	56.27
122	1730	6330	57.57
122	1800	6360	60.87
122	1830	6390	58.71
122	1900	6420	57.73
122	1930	6450	56.75
122	2000	6480	56.00
122	2030	6510	55.28
122	2100	6540	54.73
122	2130	6570	54.92
122	2200	6600	54.34
122	2230	6630	53.80
122	2300	6660	54.30
122	2330	6690	54.18
123	0	6720	53.54
123	30	6750	53.06
123	100	6780	52.62
123	130	6810	52.50
123	200	6840	52.11
123	230	6870	51.73
123	300	6900	51.37

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
123	330	6930	51.16
123	400	6960	50.84
123	430	6990	50.58
123	500	7020	50.75
123	530	7050	50.39
123	600	7080	50.11
123	630	7110	49.92
123	700	7140	49.65
123	730	7170	50.28
123	800	7200	53.47
123	830	7230	52.40
123	900	7260	52.59
123	930	7290	53.18
123	1000	7320	53.09
123	1030	7350	53.56
123	1100	7380	55.79
123	1130	7410	55.98
123	1200	7440	56.03
123	1230	7470	55.98
123	1300	7500	59.66
123	1330	7530	62.91
123	1400	7560	63.81
123	1430	7590	68.11
123	1500	7620	68.02
123	1530	7650	71.52
123	1600	7680	71.26
123	1630	7710	68.82
123	1700	7740	66.48
123	1730	7770	65.02
123	1800	7800	63.75
123	1830	7830	62.54
123	1900	7860	61.29
123	1930	7890	60.51
123	2000	7920	60.31
123	2030	7950	63.34
123	2100	7980	61.70
123	2130	8010	60.40
123	2200	8040	59.60
123	2230	8070	58.68
123	2300	8100	58.13
123	2330	8130	58.23
124	0	8160	58.34
124	30	8190	57.95
124	100	8220	57.40
124	130	8250	56.62
124	200	8280	56.37
124	230	8310	55.75
124	300	8340	55.47
124	330	8370	54.93
124	400	8400	54.73
124	430	8430	54.55

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
124	500	8460	54.10
124	530	8490	53.92
124	600	8520	53.46
124	630	8550	53.31
124	700	8580	53.72
124	730	8610	54.94
124	800	8640	55.01
124	830	8670	54.87
124	900	8700	54.43
124	930	8730	54.36
124	1000	8760	54.03
124	1030	8790	53.69
124	1100	8820	55.28
124	1130	8850	55.08
124	1200	8880	55.08
124	1230	8910	54.71
124	1300	8940	53.98
124	1330	8970	55.74
124	1400	9000	54.65
124	1430	9030	54.60
124	1500	9060	54.39
124	1530	9090	53.66
124	1600	9120	53.62
124	1630	9150	58.09
124	1700	9180	59.83
124	1730	9210	60.25
124	1800	9240	62.28
124	1830	9270	60.32
124	1900	9300	58.79
124	1930	9330	57.65
124	2000	9360	57.98
124	2030	9390	56.85
124	2100	9420	56.48
124	2130	9450	56.95
124	2200	9480	56.00
124	2230	9510	55.75
124	2300	9540	55.02
124	2330	9570	55.85
125	0	9600	55.09
125	30	9630	54.93
125	100	9660	54.16
125	130	9690	53.66
125	200	9720	53.22
125	230	9750	52.78
125	300	9780	52.38
125	330	9810	52.07
125	400	9840	51.69
125	430	9870	51.34
125	500	9900	51.94
125	530	9930	51.45
125	600	9960	51.13

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
125	630	9990	50.83
125	700	10020	51.65
125	730	10050	53.05
125	800	10080	52.93
125	830	10110	52.61
125	900	10140	51.85
125	930	10170	54.18
125	1000	10200	53.46
125	1030	10230	54.03
125	1100	10260	53.43
125	1130	10290	52.94
125	1200	10320	52.58
125	1230	10350	53.98
125	1300	10380	56.27
125	1330	10410	55.50
125	1400	10440	54.26
125	1430	10470	53.41
125	1500	10500	57.23
125	1530	10530	60.01
125	1600	10560	57.91
125	1630	10590	56.49
125	1700	10620	55.50
125	1730	10650	55.01
125	1800	10680	57.78
125	1830	10710	56.34
125	1900	10740	55.33
125	1930	10770	55.90
125	2000	10800	54.52
125	2030	10830	53.90
125	2100	10860	53.34
125	2130	10890	52.76
125	2200	10920	52.45
125	2230	10950	51.94
125	2300	10980	51.58
125	2330	11010	52.21
126	0	11040	51.61
126	30	11070	53.16
126	100	11100	52.23
126	130	11130	51.66
126	200	11160	51.23
126	230	11190	50.86
126	300	11220	50.53
126	330	11250	50.20
126	400	11280	49.91
126	430	11310	49.65
126	500	11340	49.52
126	530	11370	50.00
126	600	11400	49.62
126	630	11430	49.73
126	700	11460	50.05
126	730	11490	51.27

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
126	800	11520	50.38
126	830	11550	50.21
126	900	11580	50.67
126	930	11610	50.11
126	1000	11640	49.72
126	1030	11670	49.37
126	1100	11700	49.04
126	1130	11730	48.70
126	1200	11760	50.99
126	1230	11790	50.99
126	1300	11820	50.51
126	1330	11850	50.03
126	1400	11880	50.44
126	1430	11910	49.76
126	1500	11940	49.39
126	1530	11970	49.02
126	1600	12000	48.69
126	1630	12030	52.50
126	1700	12060	54.27
126	1730	12090	59.64
126	1800	12120	56.85
126	1830	12150	55.26
126	1900	12180	54.10
126	1930	12210	53.58
126	2000	12240	52.80
126	2030	12270	52.11
126	2100	12300	51.60
126	2130	12330	51.09
126	2200	12360	50.72
126	2230	12390	50.28
126	2300	12420	53.02
126	2330	12450	52.02
127	0	12480	51.28
127	30	12510	51.96
127	100	12540	51.15
127	130	12570	50.62
127	200	12600	51.47
127	230	12630	50.51
127	300	12660	50.07
127	330	12690	49.68
127	400	12720	49.32
127	430	12750	48.95
127	500	12780	48.72
127	530	12810	48.40
127	600	12840	48.17
127	630	12870	47.93
127	700	12900	49.65
127	730	12930	50.27
127	800	12960	49.82
127	830	12990	49.52
127	900	13020	53.07

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
127	930	13050	51.46
127	1000	13080	51.51
127	1030	13110	50.71
127	1100	13140	50.15
127	1130	13170	49.66
127	1200	13200	49.30
127	1230	13230	49.27
127	1300	13260	49.36
127	1330	13290	50.63
127	1400	13320	49.79
127	1430	13350	49.33
127	1500	13380	57.20
127	1530	13410	58.31
127	1600	13440	59.29
127	1630	13470	57.49
127	1700	13500	56.36
127	1730	13530	55.37
127	1800	13560	54.36
127	1830	13590	54.25
127	1900	13620	53.40
127	1930	13650	53.24
127	2000	13680	52.54
127	2030	13710	54.67
127	2100	13740	53.69
127	2130	13770	53.74
127	2200	13800	53.28
127	2230	13830	52.53
127	2300	13860	52.81
127	2330	13890	52.14
128	0	13920	51.56
128	30	13950	51.07
128	100	13980	50.66
128	130	14010	50.41
128	200	14040	50.00
128	230	14070	49.73
128	300	14100	49.47
128	330	14130	49.14
128	400	14160	48.88
128	430	14190	49.42
128	500	14220	48.96
128	530	14250	48.70
128	600	14280	48.40
128	630	14310	48.17
128	700	14340	49.01
128	730	14370	48.75
128	800	14400	49.32
128	830	14430	49.84
128	900	14460	49.16
128	930	14490	49.10
128	1000	14520	49.31
128	1030	14550	48.83

Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
128	1100	14580	52.08
128	1130	14610	50.83
128	1200	14640	50.41
128	1230	14670	49.75
128	1300	14700	49.57
128	1330	14730	50.15
128	1400	14760	49.43
128	1430	14790	50.00
128	1500	14820	49.25
128	1530	14850	48.80
128	1600	14880	49.14
128	1630	14910	49.73
128	1700	14940	51.03
128	1730	14970	52.13
128	1800	15000	52.01
128	1830	15030	52.06
128	1900	15060	52.19
128	1930	15090	52.78
128	2000	15120	52.52
128	2030	15150	52.31
128	2100	15180	52.21
128	2130	15210	51.64
128	2200	15240	54.08
128	2230	15270	53.56
128	2300	15300	52.61
128	2330	15330	51.74
129	0	15360	51.09
129	30	15390	51.26
129	100	15420	50.78
129	130	15450	50.24
129	200	15480	49.81
129	230	15510	49.51
129	300	15540	49.11
129	330	15570	48.76
129	400	15600	48.46
129	430	15630	48.21
129	500	15660	47.97
129	530	15690	47.75
129	600	15720	47.53
129	630	15750	48.22
129	700	15780	48.67
129	730	15810	49.96
129	800	15840	50.93
129	830	15870	50.33
129	900	15900	49.67
129	930	15930	49.17
129	1000	15960	48.71
129	1030	15990	48.39
129	1100	16020	48.44
129	1130	16050	48.90
129	1200	16080	49.20

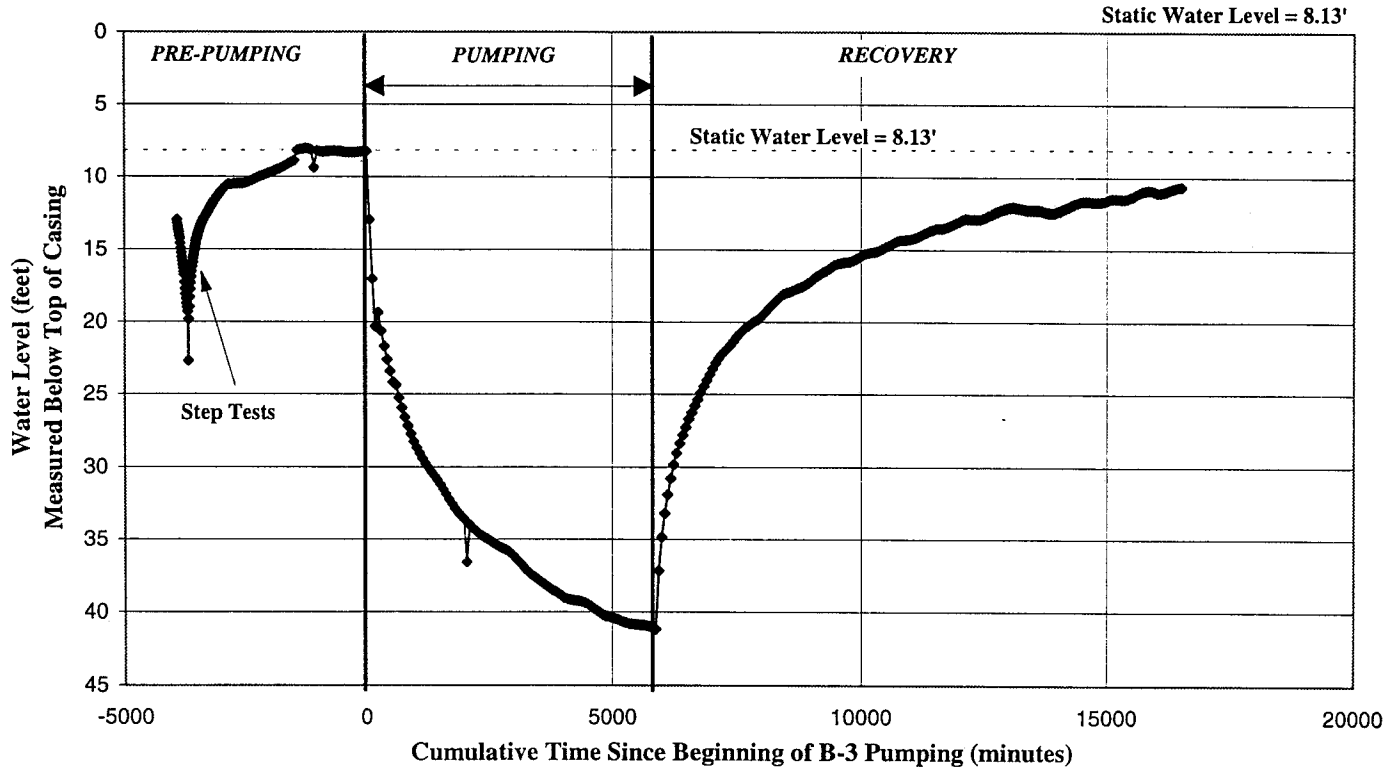
Julian Day (Days since the beginning of year)	Time (24 hour) (hrs,min)	Cumulative Time (minutes)	Water Level (feet)
129	1230	16110	48.58
129	1300	16140	48.19
129	1330	16170	47.87
129	1400	16200	48.35
129	1430	16230	47.93
129	1500	16260	47.63
129	1530	16290	47.42
129	1600	16320	47.12
129	1630	16350	46.87
129	1700	16380	46.65
129	1730	16410	47.31
129	1800	16440	46.88
129	1830	16470	47.36
129	1900	16500	46.95
129	1930	16530	46.55
129	2000	16560	46.33
129	2030	16590	46.13
129	2100	16620	45.98
129	2130	16650	45.79
129	2200	16680	45.68
129	2230	16710	45.51
129	2300	16740	45.43
129	2330	16770	46.09
130	0	16800	46.29
130	30	16830	46.95
130	100	16860	46.46
130	130	16890	46.21
130	200	16920	45.98
130	230	16950	45.75
130	300	16980	45.55
130	330	17010	45.36
130	400	17040	45.16
130	430	17070	45.02
130	500	17100	44.89
130	530	17130	44.71
130	600	17160	44.60
130	630	17190	45.19
130	700	17220	45.90

APPENDIX F

PLOTS FOR CONSTANT RATE PUMPING TEST
of
WELLS B-3 and B-4

Emery & Garrett Groundwater, Inc.

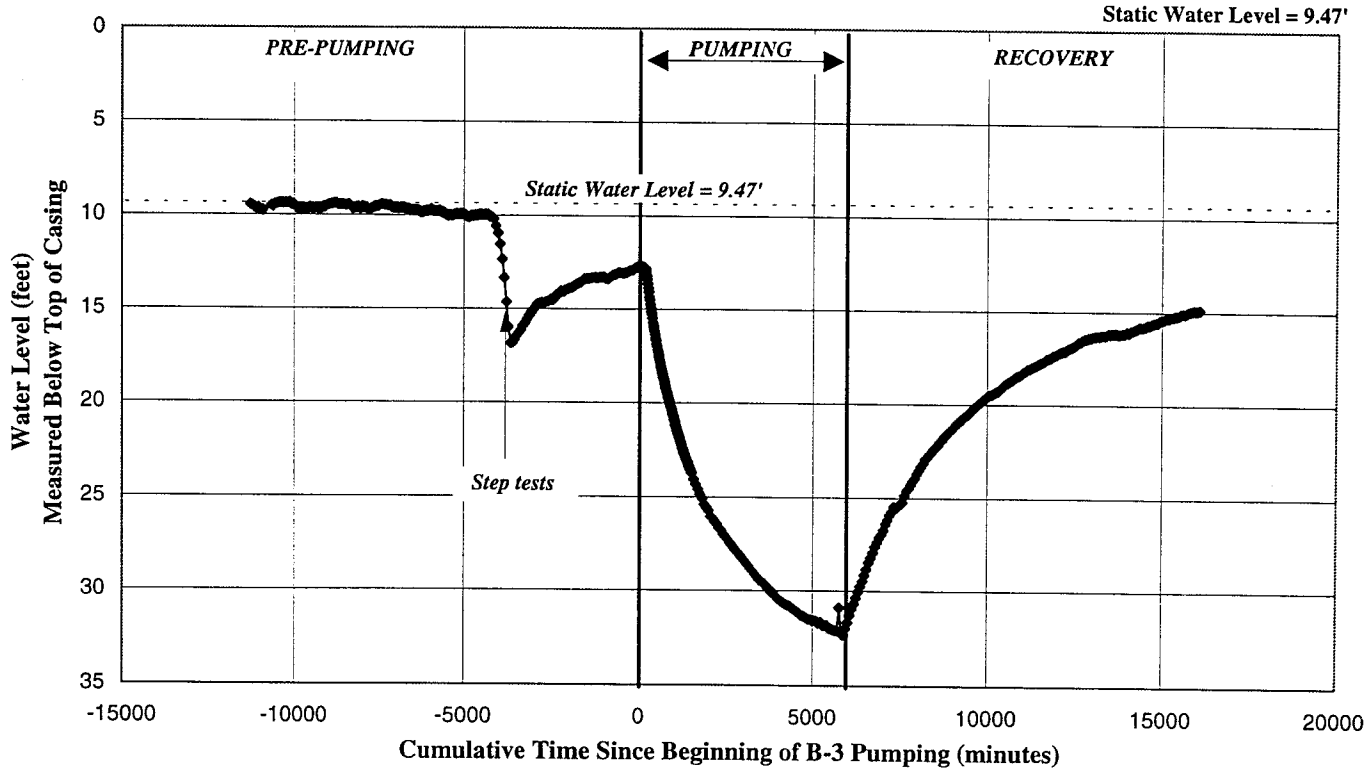
MONITORING WELL B-1 RESPONSE DURING THE B-3 AND B-4 PUMPING TESTS



Arithmetic Plot of Time versus Water Level of Monitoring Well B-1 Throughout the Monitoring Period April 20 to May 9, 1994, Bealeton, Virginia

Emery and Garrett Groundwater, Inc.

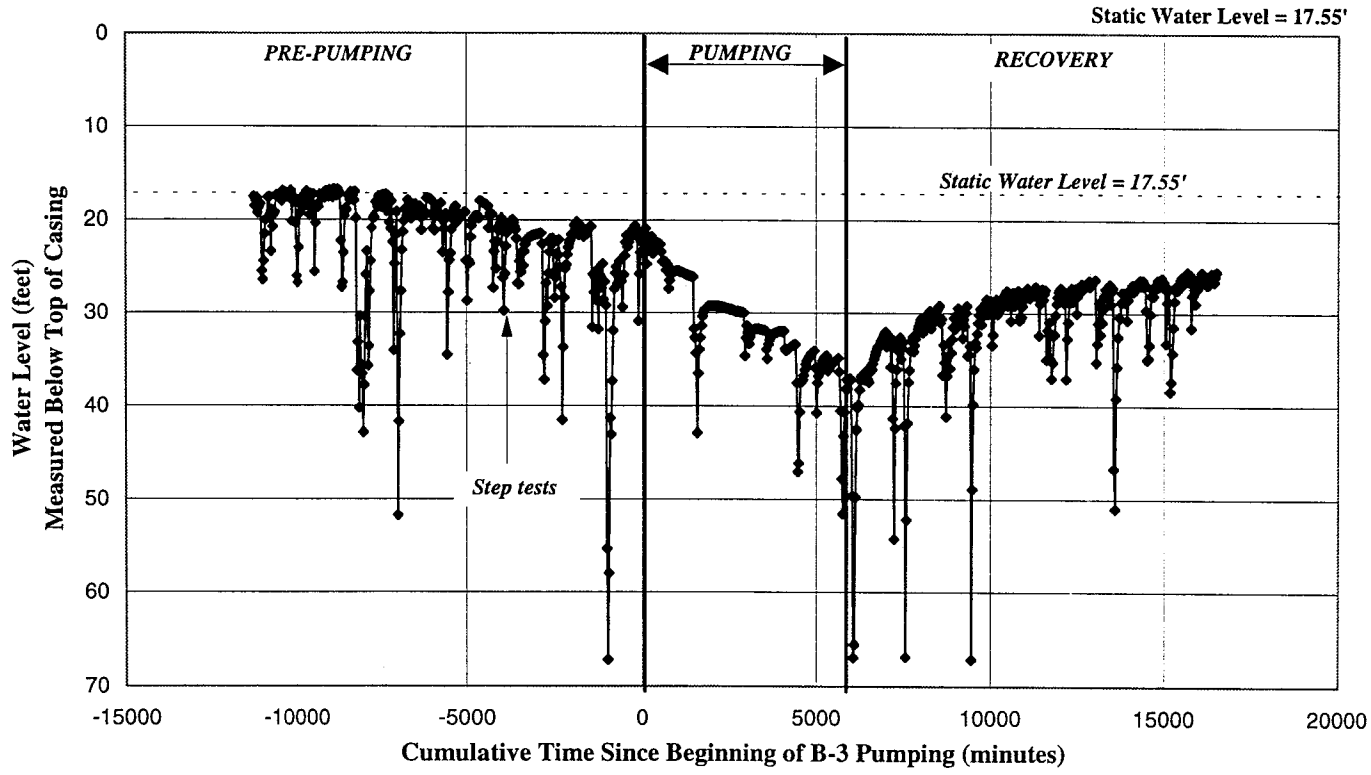
MONITORING WELL B-2 RESPONSE
DURING THE B-3 AND B-4 PUMPING TESTS



Arithmetic Plot of Time versus Water Level of Monitoring Well B-2 Throughout the Monitoring Period April 20 to May 9, 1994, Bealeton, Virginia

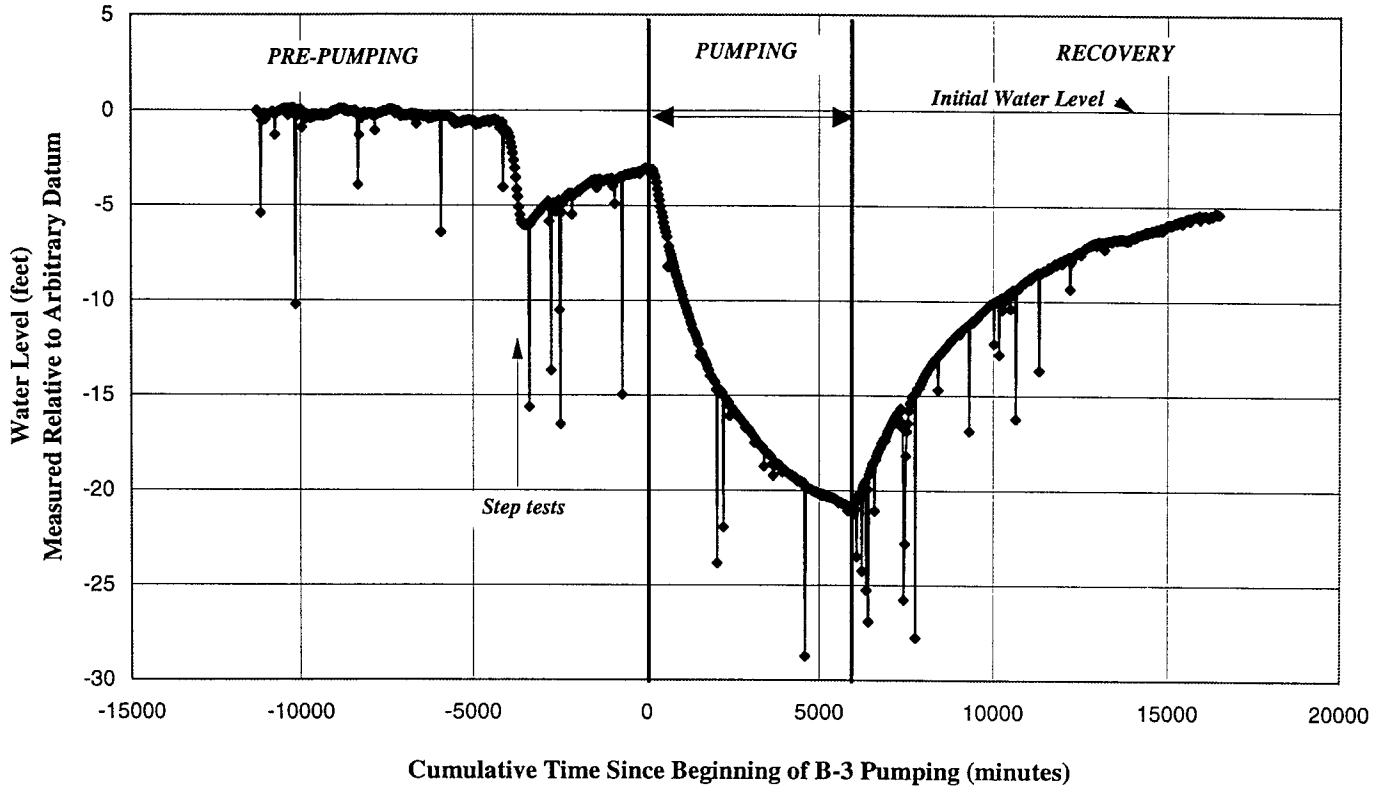
Emery and Garrett Groundwater, Inc.

CARROLL DOMESTIC WELL RESPONSE DURING THE B-3 AND B-4 PUMPING TESTS



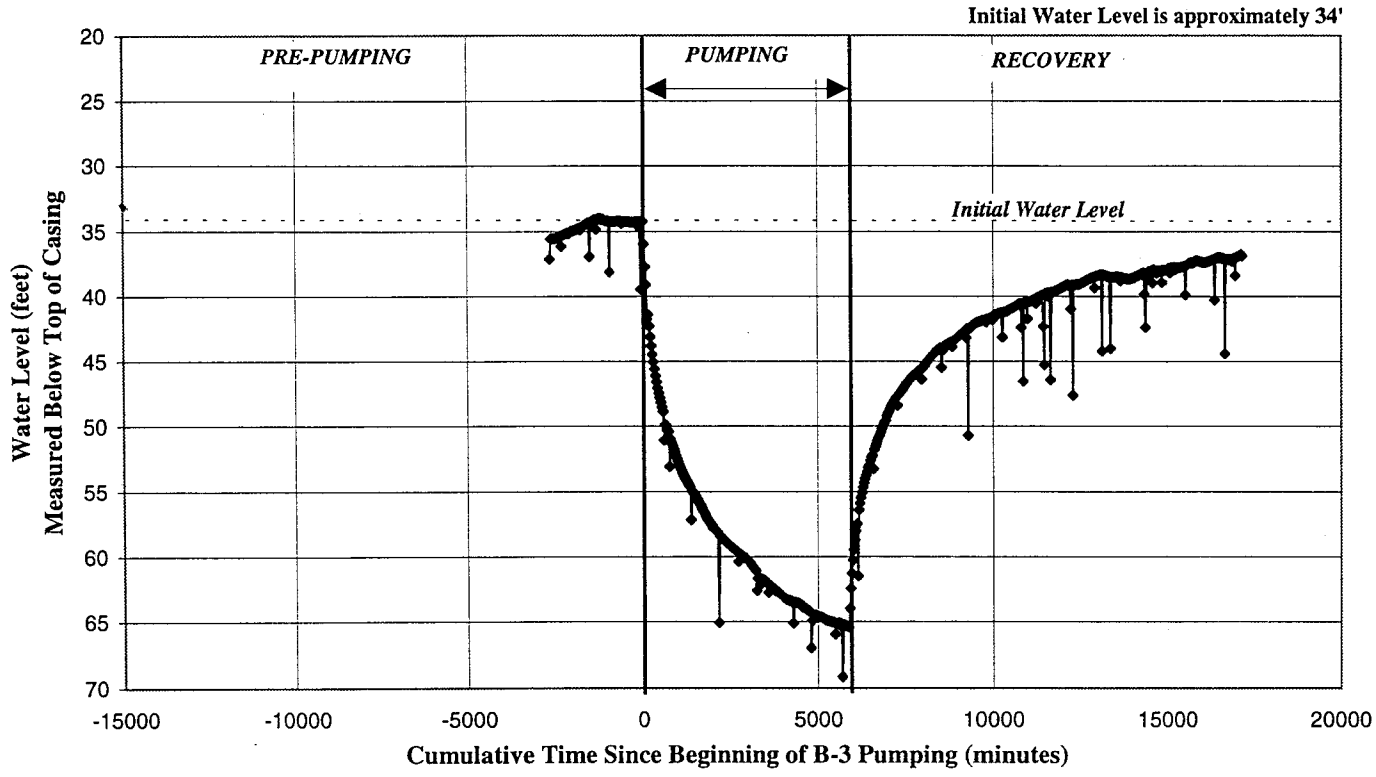
Arithmetic Plot of Time versus Water Level of Carroll Domestic Well Throughout the Monitoring Period April 20 to May 9, 1994, Bealeton, Virginia

CHEATHAM DOMESTIC WELL RESPONSE DURING THE B-3 AND B-4 PUMPING TESTS



Arithmetic Plot of Time versus Water Level of Cheatham Domestic Well Throughout the Monitoring Period April 20 to May 9, 1994, Bealeton, Virginia

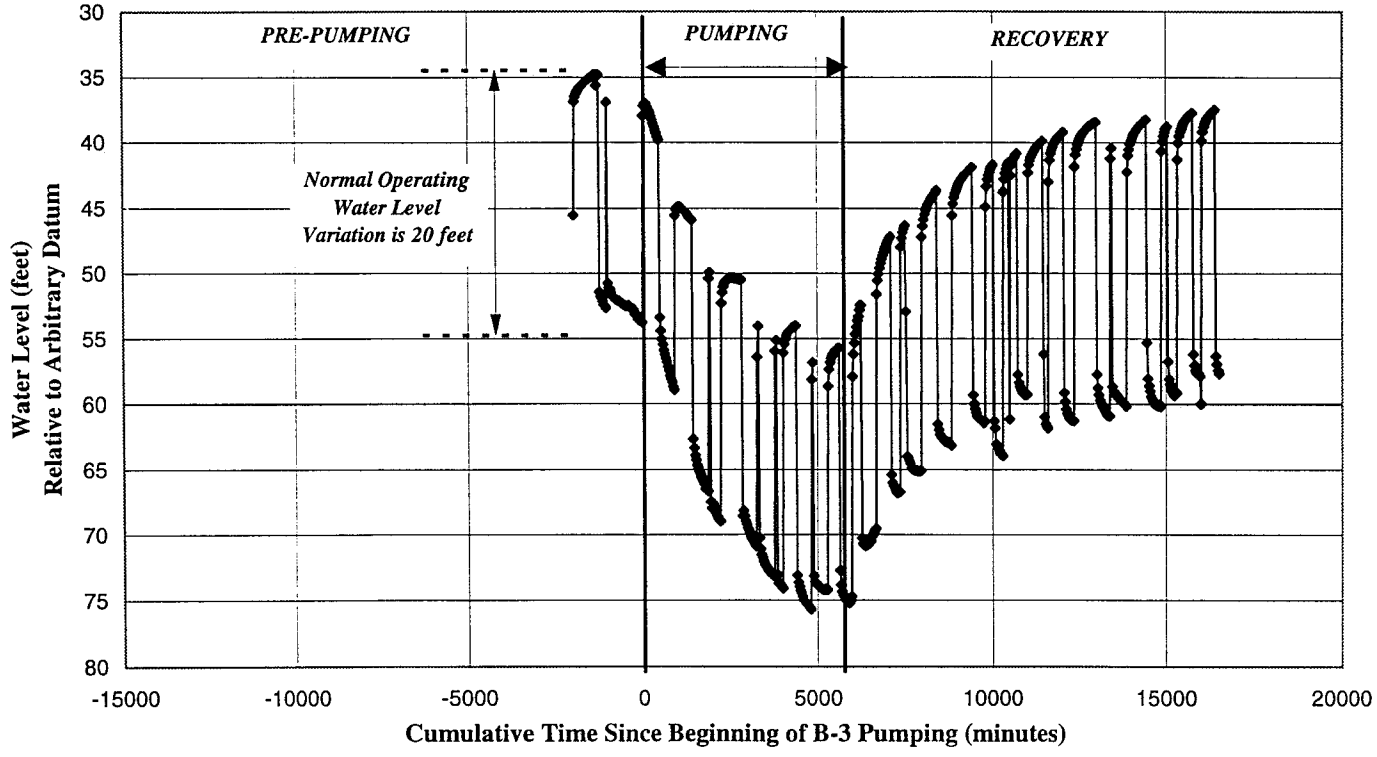
HODGSON DOMESTIC WELL RESPONSE DURING THE B-3 AND B-4 PUMPING TESTS



Arithmetic Plot of Time versus Water Level of Hodgson Domestic Well Throughout the Monitoring Period April 20 to May 9, 1994, Bealeton, Virginia

Emery and Garrett Groundwater, Inc.

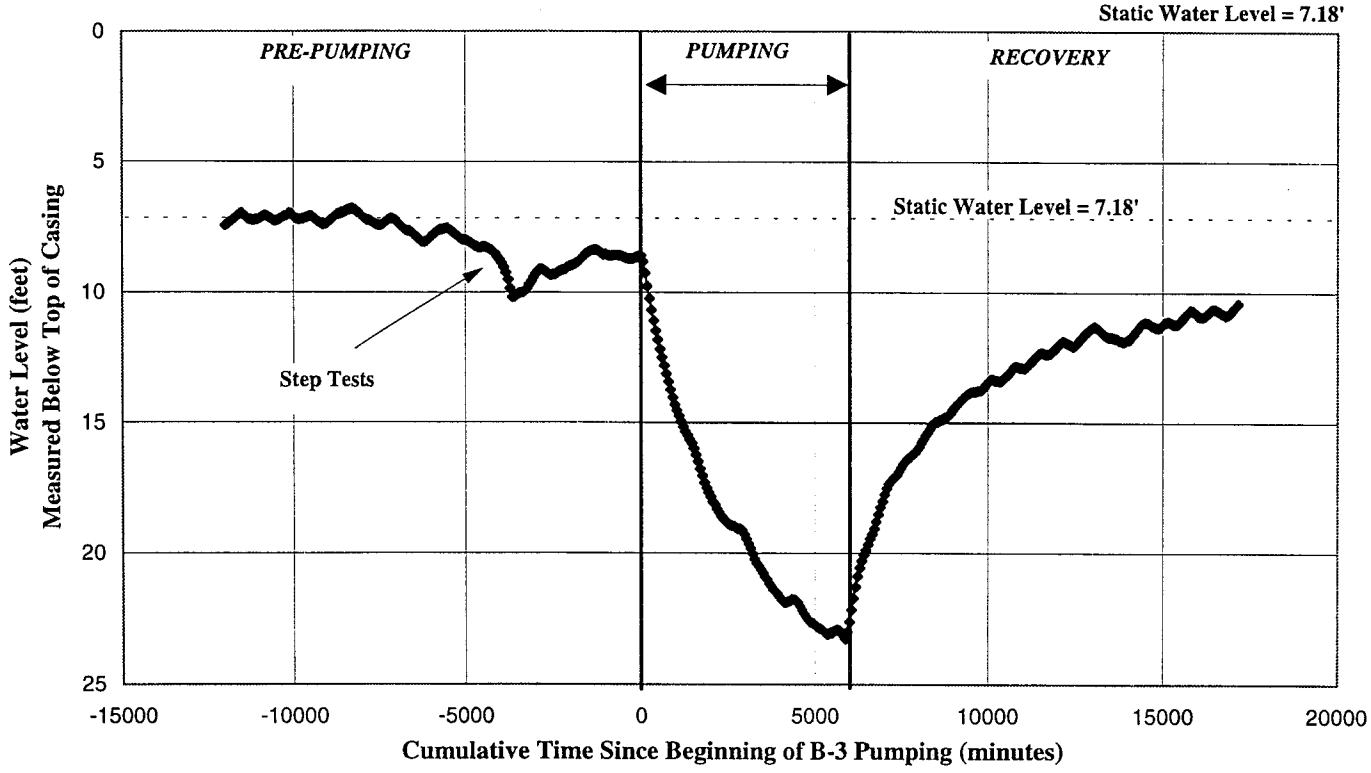
EXISTING MEADOWBROOKE PRODUCTION WELL RESPONSE DURING THE B-3 AND B-4 PUMPING TESTS



Arithmetic Plot of Time versus Water Level of Existing Meadowbrooke Subdivision Production Well Throughout the Monitoring Period April 20 to May 9, 1994, Bealeton, Virginia

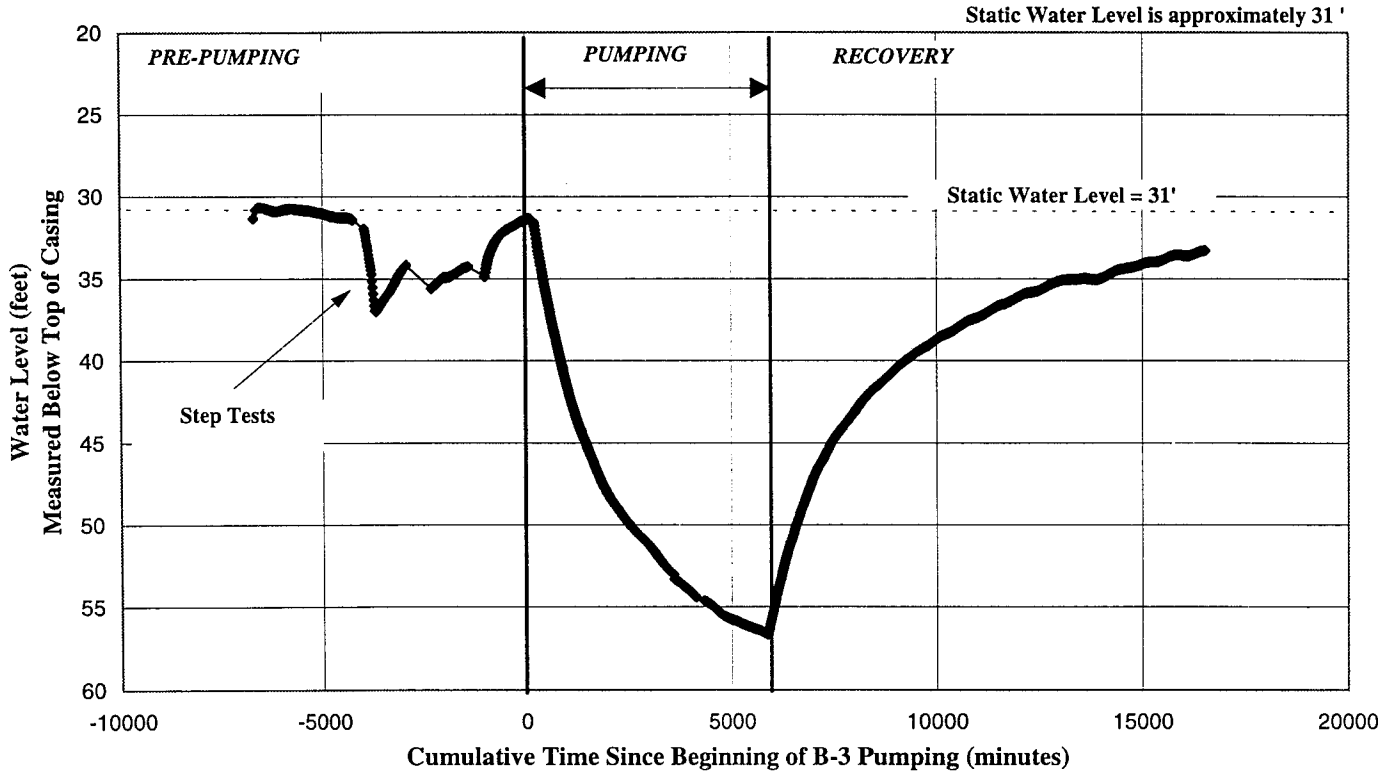
Emery and Garrett Groundwater, Inc.

MEADOWBROOKE SUBDIVISION: WELL MS-3 RESPONSE DURING THE B-3 AND B-4 PUMPING TESTS



Arithmetic Plot of Time versus Water Level of Meadowbrooke Subdivision Well MS-3 Throughout the Monitoring Period April 20 to May 9, 1994, Bealeton, Virginia

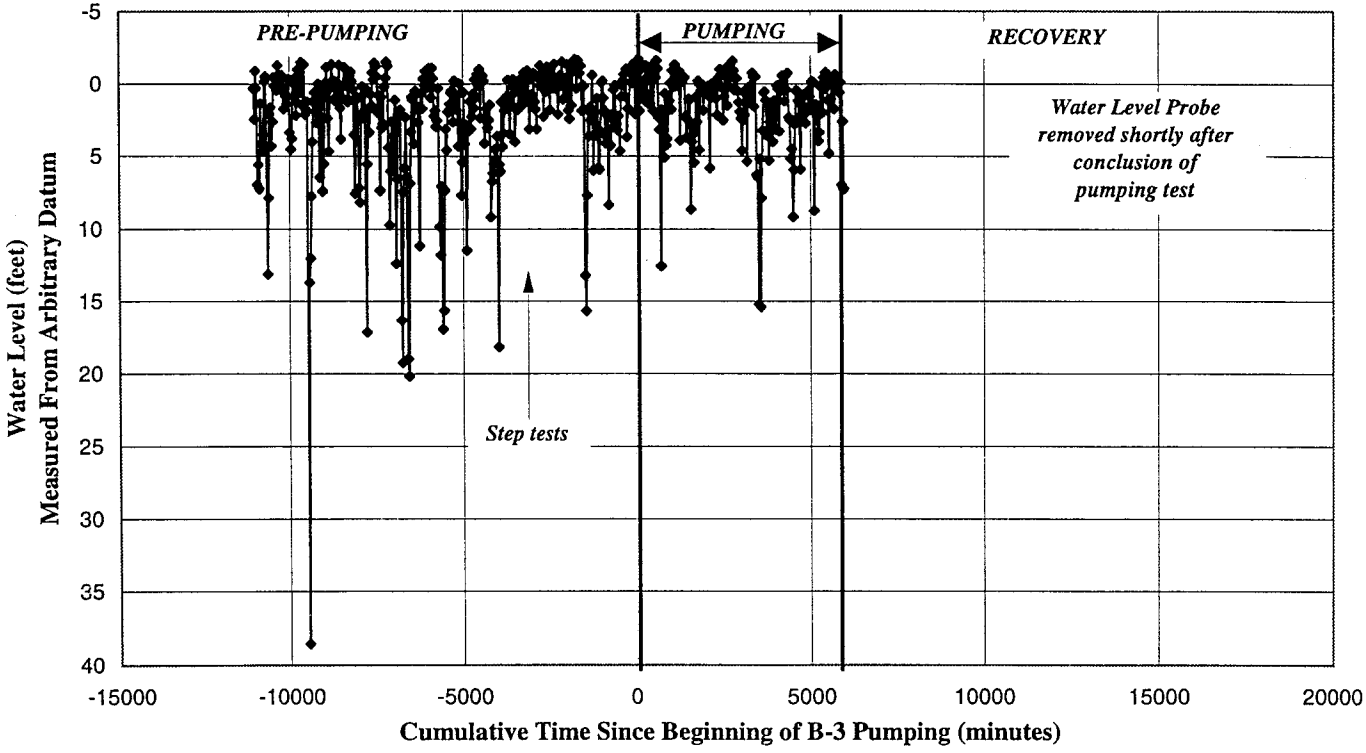
MEADOWBROOKE SUBDIVISION: WELL MS-5 RESPONSE DURING THE B-3 AND B-4 PUMPING TESTS



Arithmetic Plot of Time versus Water Level of Non-Pumping Production Well MS-5 Throughout the Monitoring Period April 20 to May 9, 1994, Bealeton, Virginia

Emery and Garrett Groundwater, Inc.

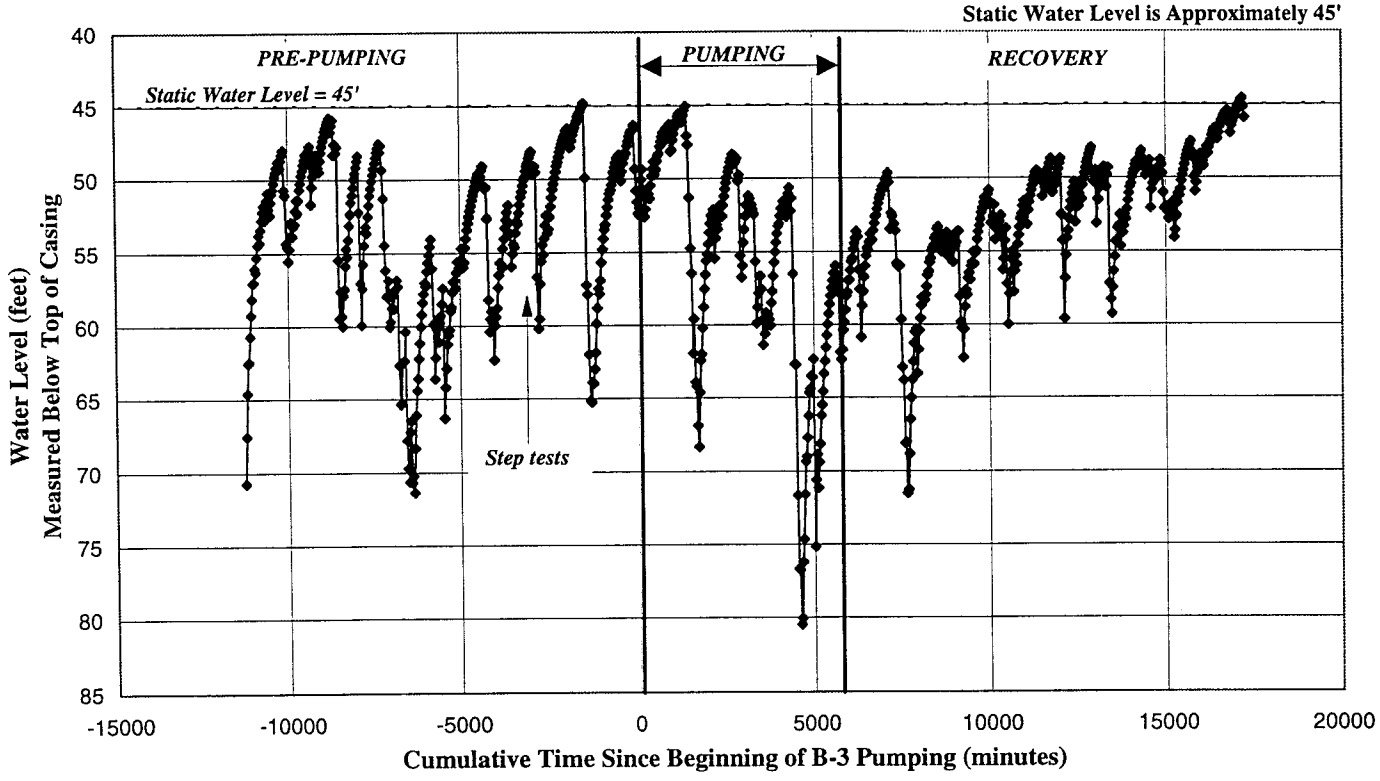
WEAVER DOMESTIC WELL RESPONSE DURING THE B-3 AND B-4 PUMPING TESTS



Arithmetic Plot of Time versus Water Level of Weaver Domestic Well Throughout the Monitoring Period April 20 to May 9, 1994, Bealeton, Virginia

Emery and Garrett Groundwater, Inc.

WHITE DOMESTIC WELL RESPONSE
DURING THE B-3 AND B-4 PUMPING TESTS



Arithmetic Plot of Time versus Water Level of White Domestic Well Throughout the Monitoring Period April 20 to May 9, 1994, Bealeton, Virginia

Emery and Garrett Groundwater, Inc.

APPENDIX G

RAW WATER LEVEL DATA
for
CONSTANT RATE PUMPING TEST
of
WELL MS-5 NEW

Emery & Garrett Groundwater, Inc.

PUMPING WELL MS-5 NEW

Emery & Garrett Groundwater, Inc.

PUMPING TEST DATA SHEET FOR PUMPING WELL MS-5 NEW

PROJECT: Bealeton, Virginia
SUBCONTRACTOR: Leazer Bros. Inc.
PUMP/PUMP SETTING:
DISCHARGE RATE:135-140 GPM

PUMPING WELL: MS-5 NEW
STATIC WATER LEVEL: 33.85 feet
MAXIMUM DRAWDOWN: 180.75 feet
MEASURING POINT: TOC
OTHER PUMPING WELL(S): None

	Date	Hour	Minute
Start of Pumping:	10/17/94	12	0
Start of Recovery:	10/20/94	12	0

Duration of Pumping	72	Hours
Duration of Recovery	21.33	Hours

PUMPING DATA

Date	24 Hour Time		Cum. Time	Water Level	Drawdown	Discharge
	Hour	Minute	(minutes)	(feet)	(feet)	Q (GPM)
10/17/94	12	0.1	0.1	33.85	0	
10/17/94	12	1	1	72.99	-39.14	
10/17/94	12	2	2	90.98	-57.13	
10/17/94	12	3	3	100.87	-67.02	
10/17/94	12	4	4	107.93	-74.08	
10/17/94	12	5	5	111.7	-77.85	
10/17/94	12	6	6	118.88	-85.03	138
10/17/94	12	7	7	124.33	-90.48	
10/17/94	12	8	8	128.26	-94.41	
10/17/94	12	9	9	131.58	-97.73	
10/17/94	12	10	10	135.28	-101.43	
10/17/94	12	12	12	140.97	-107.12	
10/17/94	12	14	14	145.99	-112.14	
10/17/94	12	16	16	151.5	-117.65	
10/17/94	12	18	18	153.97	-120.12	
10/17/94	12	20	20	155.97	-122.12	135
10/17/94	12	22	22	157.87	-124.02	
10/17/94	12	24	24	159.21	-125.36	
10/17/94	12	26	26	161.5	-127.65	
10/17/94	12	28	28	163.6	-129.75	
10/17/94	12	30	30	165.39	-131 54	
10/17/94	12	35	35	168.25	-134.4	
10/17/94	12	40	40	170	-136.15	135
10/17/94	12	45	45	171.45	-137.6	
10/17/94	12	50	50	172.59	-138.74	
10/17/94	12	55	55	173.2	-139.35	
10/17/94	13	0	60	173.78	-139.93	
10/17/94	13	10	70	176.05	-142.2	
10/17/94	13	20	80	177.41	-143.56	
10/17/94	13	30	90	178.96	-145.11	135
10/17/94	13	40	100	179.8	-145.95	
10/17/94	13	50	110	180.5	-146.65	
10/17/94	14	0	120	180.94	-147.09	
10/17/94	14	20	140	181.8	-147.95	
10/17/94	14	40	160	183.55	-149.7	
10/17/94	15	0	180	185.73	-151.88	
10/17/94	15	20	200	187.57	-153.72	
10/17/94	15	40	220	192.51	-158.66	
10/17/94	16	0	240	193.03	-159.18	
10/17/94	16	30	270	193.9	-160.05	
10/17/94	17	0	300	194.62	-160.77	
10/17/94	17	30	330	195.3	-161.45	
10/17/94	18	0	360	196.07	-162.22	
10/17/94	18	30	390	197.46	-163.61	
10/17/94	19	0	420	198.38	-164.53	
10/17/94	19	30	450	198.43	-164.58	
10/17/94	20	0	480	199.13	-165.28	
10/17/94	20	30	510	199.62	-165.77	
10/17/94	21	0	540	200.16	-166.31	
10/17/94	21	30	570	200.43	-166.58	
10/17/94	22	0	600	200.37	-166.52	
10/17/94	22	30	630	203.76	-169.91	
10/17/94	23	0	660	205.25	-171.4	
10/18/94	0	0	720	205.97	-172.12	
10/18/94	1	0	780	206.19	-172.34	
10/18/94	2	0	840	206.67	-172.82	
10/18/94	3	0	900	207.11	-173.26	
10/18/94	4	0	960	207.6	-173.75	
10/18/94	5	0	1020	207.76	-173.91	

RECOVERY DATA

Date	24 Hour Time		Cum. Time	Cum. Time	Water Level	Drawdown
	Hour	Minute	t (minutes)	t' (minutes)	(feet)	(feet)
10/20/94	12	0.1	4320.1	0.1	214.6	-180.75
10/20/94	12	1	4321	1	148.52	-114.67
10/20/94	12	2	4322	2	118.77	-84.92
10/20/94	12	3	4323	3	103.9	-70.05
10/20/94	12	4	4324	4	92.9	-59.05
10/20/94	12	5	4325	5	86.85	-53
10/20/94	12	6	4326	6	81.99	-48.14
10/20/94	12	7	4327	7	78.47	-44.62
10/20/94	12	8	4328	8	75.78	-41.93
10/20/94	12	9	4329	9	73.75	-39.9
10/20/94	12	10	4330	10	71.99	-38.14
10/20/94	12	12	4332	12	69.82	-35.97
10/20/94	12	14	4334	14	68.22	-34.37
10/20/94	12	16	4336	16	66.93	-33.08
10/20/94	12	18	4338	18	65.83	-31.98
10/20/94	12	20	4340	20	64.93	-31.08
10/20/94	12	22	4342	22	64.03	-30.18
10/20/94	12	24	4344	24	63.41	-29.56
10/20/94	12	26	4346	26	62.77	-28.92
10/20/94	12	28	4348	28	62.3	-28.45
10/20/94	12	30	4350	30	61.97	-28.12
10/20/94	12	35	4355	35	60.99	-27.14
10/20/94	12	40	4360	40	60.17	-26.32
10/20/94	12	45	4365	45	59.57	-25.72
10/20/94	12	50	4370	50	58.84	-24.99
10/20/94	13	0	4380	60	57.78	-23.93
10/20/94	13	10	4390	70	56.97	-23.12
10/20/94	13	20	4400	80	56.29	-22.44
10/20/94	13	30	4410	90	55.58	-21.73
10/20/94	13	40	4420	100	54.95	-21.1
10/20/94	14	0	4440	120	54	-20.15
10/20/94	14	35	4475	155	52.7	-18.85
10/20/94	15	0	4500	180	51.87	-18.02
10/20/94	15	30	4530	210	51.07	-17.22
10/20/94	16	0	4560	240	50.35	-16.5
10/20/94	16	30	4590	270	49.63	-15.78
10/20/94	17	0	4620	300	49.11	-15.26
10/20/94	17	52	4672	352	48.31	-14.46
10/20/94	20	0	4800	480	46.71	-12.86
10/20/94	22	0	4920	600	45.46	-11.61
10/21/94	5	45	5385	1065	42.75	-8.9
10/21/94	9	20	5600	1280	41.95	-8.1

Date	24 Hour Time		Cum. Time	Water Level	Drawdown	Discharge	Date	24 Hour Time		Cum. Time	Cum. Time	Water Level	Drawdown
	Hour	Minute	(minutes)	(feet)	(feet)	Q (GPM)		Hour	Minute	t (minutes)	t' (minutes)	(feet)	(feet)
10/18/94	6	0	1080	208.07	-174.22								
10/18/94	7	0	1140	208.41	-174.56								
10/18/94	8	0	1200	208.53	-174.68								
10/18/94	9	0	1260	208.77	-174.92								
10/18/94	10	0	1320	208.56	-174.71								
10/18/94	11	0	1380	208.65	-174.8								
10/18/94	12	0	1440	210	-176.15								
10/18/94	13	0	1500	209.67	-175.82								
10/18/94	14	0	1560	209.75	-175.9								
10/18/94	15	0	1620	209.83	-175.98								
10/18/94	16	0	1680	209.91	-176.06								
10/18/94	17	0	1740	209.9	-176.05								
10/18/94	18	0	1800	210.48	-176.63								
10/18/94	19	0	1860	211.23	-177.38								
10/18/94	20	0	1920	211.22	-177.37								
10/18/94	21	0	1980	212.01	-178.16								
10/18/94	22	0	2040	211.83	-177.98								
10/19/94	0	0	2160	212.18	-178.33								
10/19/94	2	0	2280	212.31	-178.46								
10/19/94	4	0	2400	212.61	-178.76								
10/19/94	6	0	2520	212.5	-178.65								
10/19/94	8	0	2640	212.5	-178.65								
10/19/94	10	0	2760	212	-178.15								
10/19/94	12	0	2880	213.1	-179.25								
10/19/94	14	0	3000	213.51	-179.66								
10/19/94	16	0	3120	213.56	-179.71								
10/19/94	18	0	3240	213.78	-179.93								
10/19/94	20	0	3360	213.58	-179.73								
10/19/94	22	0	3480	213.88	-180.03								
10/20/94	0	0	3600	214.02	-180.17								
10/20/94	2	0	3720	214.25	-180.4								
10/20/94	4	0	3840	214.44	-180.59								
10/20/94	6	0	3960	214.4	-180.55								
10/20/94	8	0	4080	213.9	-180.05								
10/20/94	10	0	4200	214.79	-180.94								
10/20/94	12	0	4320	214.6	-180.75								

MONITORING WELL B-3

Emery & Garrett Groundwater, Inc.

PUMPING TEST DATA SHEET FOR MONITORING WELL B-3

PROJECT: Bealeton, Virginia
SUBCONTRACTOR: Leazer Bros.
PUMPING WELL (S): MW-5 NEW

MONITORING WELL: B-3
INITIAL WATER LEVEL:11.50 feet
MAXIMUM DRAWDOWN:
MEASURING POINT: Top of Casing

	Date	Hour	Minute
Start of Pumping:	10/17/94	12	0
Start of Recovery:	10/20/94	12	0

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/11/94	1700	0	-8340	12.36	20.15	10/20/94	1200	10620	4320	16.47	18.38
10/11/94	1800	60	-8280	12.40	20.14	10/20/94	1300	10680	4380	16.57	18.33
10/11/94	1900	120	-8220	12.45	20.12	10/20/94	1400	10740	4440	16.61	18.31
10/11/94	2000	180	-8160	12.47	20.11	10/20/94	1500	10800	4500	16.61	18.31
10/11/94	2100	240	-8100	12.51	20.09	10/20/94	1600	10860	4560	16.61	18.32
10/11/94	2200	300	-8040	12.52	20.09	10/20/94	1700	10920	4620	16.56	18.34
10/11/94	2300	360	-7980	12.55	20.07	10/20/94	1800	10980	4680	16.51	18.36
10/12/94	0	420	-7920	12.57	20.06	10/20/94	1900	11040	4740	16.45	18.38
10/12/94	100	480	-7860	12.59	20.05	10/20/94	2000	11100	4800	16.44	18.39
10/12/94	200	540	-7800	12.62	20.04	10/20/94	2100	11160	4860	16.37	18.42
10/12/94	300	600	-7740	12.65	20.03	10/20/94	2200	11220	4920	16.34	18.43
10/12/94	400	660	-7680	12.68	20.02	10/20/94	2300	11280	4980	16.31	18.45
10/12/94	500	720	-7620	12.71	20.00	10/21/94	0	11340	5040	16.27	18.46
10/12/94	600	780	-7560	12.75	19.99	10/21/94	100	11400	5100	16.23	18.48
10/12/94	700	840	-7500	12.75	19.98	10/21/94	200	11460	5160	16.17	18.51
10/12/94	800	900	-7440	12.78	19.97	10/21/94	300	11520	5220	16.12	18.53
10/12/94	900	960	-7380	12.78	19.97	10/21/94	400	11580	5280	16.04	18.56
10/12/94	1000	1020	-7320	12.69	20.01	10/21/94	500	11640	5340	15.99	18.58
10/12/94	1100	1080	-7260	12.59	20.06	10/21/94	600	11700	5400	15.92	18.61
10/12/94	1200	1140	-7200	12.55	20.07	10/21/94	700	11760	5460	15.85	18.65
10/12/94	1300	1200	-7140	12.58	20.06	10/21/94	800	11820	5520	15.78	18.68
10/12/94	1400	1260	-7080	12.63	20.04	10/21/94	900	11880	5580	15.75	18.69
10/12/94	1500	1320	-7020	12.66	20.02	10/21/94	1000	11940	5640	15.74	18.69
10/12/94	1600	1380	-6960	12.70	20.01	10/21/94	1100	12000	5700	15.68	18.72
10/12/94	1700	1440	-6900	12.74	19.99	10/21/94	1200	12060	5760	15.59	18.76
10/12/94	1800	1500	-6840	12.80	19.96	10/21/94	1300	12120	5820	15.49	18.80
10/12/94	1900	1560	-6780	12.83	19.95	10/21/94	1400	12180	5880	15.45	18.82
10/12/94	2000	1620	-6720	12.87	19.93	10/21/94	1500	12240	5940	15.43	18.83
10/12/94	2100	1680	-6660	12.89	19.93	10/21/94	1600	12300	6000	15.38	18.85
10/12/94	2200	1740	-6600	12.93	19.91	10/21/94	1700	12360	6060	15.35	18.86
10/12/94	2300	1800	-6540	12.95	19.90	10/21/94	1800	12420	6120	15.31	18.88
10/13/94	0	1860	-6480	12.97	19.89	10/21/94	1900	12480	6180	15.29	18.89
10/13/94	100	1920	-6420	13.00	19.88	10/21/94	2000	12540	6240	15.20	18.92
10/13/94	200	1980	-6360	13.01	19.87	10/21/94	2100	12600	6300	15.11	18.96
10/13/94	300	2040	-6300	13.05	19.86	10/21/94	2200	12660	6360	15.02	19.00
10/13/94	400	2100	-6240	13.06	19.85	10/21/94	2300	12720	6420	14.91	19.05
10/13/94	500	2160	-6180	13.10	19.83	10/22/94	0	12780	6480	14.85	19.08
10/13/94	600	2220	-6120	13.15	19.81	10/22/94	100	12840	6540	14.77	19.11
10/13/94	700	2280	-6060	13.15	19.81	10/22/94	200	12900	6600	14.63	19.17
10/13/94	800	2340	-6000	13.19	19.79	10/22/94	300	12960	6660	14.55	19.21
10/13/94	900	2400	-5940	13.19	19.79	10/22/94	400	13020	6720	14.44	19.25
10/13/94	1000	2460	-5880	13.21	19.79	10/22/94	500	13080	6780	14.32	19.31
10/13/94	1100	2520	-5820	13.21	19.79	10/22/94	600	13140	6840	14.21	19.35
10/13/94	1200	2580	-5760	13.22	19.78	10/22/94	700	13200	6900	14.11	19.40
10/13/94	1300	2640	-5700	13.24	19.77	10/22/94	800	13260	6960	14.03	19.43
10/13/94	1400	2700	-5640	13.24	19.77	10/22/94	900	13320	7020	13.99	19.45
10/13/94	1500	2760	-5580	13.24	19.77	10/22/94	1000	13380	7080	14.04	19.43
10/13/94	1600	2820	-5520	13.26	19.76	10/22/94	1100	13440	7140	14.14	19.39
10/13/94	1700	2880	-5460	13.30	19.75	10/22/94	1200	13500	7200	14.21	19.35
10/13/94	1800	2940	-5400	13.34	19.73	10/22/94	1300	13560	7260	14.30	19.31
10/13/94	1900	3000	-5340	13.35	19.72	10/22/94	1400	13620	7320	14.37	19.28
10/13/94	2000	3060	-5280	13.41	19.70	10/22/94	1500	13680	7380	14.45	19.25
10/13/94	2100	3120	-5220	13.40	19.70	10/22/94	1600	13740	7440	14.48	19.24
10/13/94	2200	3180	-5160	13.42	19.70	10/22/94	1700	13800	7500	14.54	19.21
10/13/94	2300	3240	-5100	13.44	19.69	10/22/94	1800	13860	7560	14.56	19.20
10/14/94	0	3300	-5040	13.44	19.69	10/22/94	1900	13920	7620	14.56	19.20
10/14/94	100	3360	-4980	13.44	19.69	10/22/94	2000	13980	7680	14.59	19.19
10/14/94	200	3420	-4920	13.45	19.68	10/22/94	2100	14040	7740	14.64	19.17
10/14/94	300	3480	-4860	13.47	19.68	10/22/94	2200	14100	7800	14.72	19.13
10/14/94	400	3540	-4800	13.48	19.67	10/22/94	2300	14160	7860	14.75	19.12
10/14/94	500	3600	-4740	13.51	19.66	10/23/94	0	14220	7920	14.81	19.09

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/14/94	600	3660	-4680	13.51	19.66	10/23/94	100	14280	7980	14.86	19.07
10/14/94	700	3720	-4620	13.56	19.64	10/23/94	200	14340	8040	14.88	19.07
10/14/94	800	3780	-4560	13.57	19.63	10/23/94	300	14400	8100	14.89	19.06
10/14/94	900	3840	-4500	13.53	19.65	10/23/94	400	14460	8160	14.92	19.05
10/14/94	1000	3900	-4440	13.42	19.69	10/23/94	500	14520	8220	14.91	19.05
10/14/94	1100	3960	-4380	13.32	19.74	10/23/94	600	14580	8280	14.91	19.05
10/14/94	1200	4020	-4320	13.18	19.80	10/23/94	700	14640	8340	14.90	19.06
10/14/94	1300	4080	-4260	13.15	19.81	10/23/94	800	14700	8400	14.90	19.05
10/14/94	1400	4140	-4200	13.14	19.82	10/23/94	900	14760	8460	14.90	19.05
10/14/94	1500	4200	-4140	13.12	19.83	10/23/94	1000	14820	8520	14.92	19.05
10/14/94	1600	4260	-4080	13.16	19.81	10/23/94	1100	14880	8580	14.93	19.04
10/14/94	1700	4320	-4020	13.18	19.80	10/23/94	1200	14940	8640	14.96	19.03
10/14/94	1800	4380	-3960	13.25	19.77	10/23/94	1300	15000	8700	14.98	19.02
10/14/94	1900	4440	-3900	13.25	19.77	10/23/94	1400	15060	8760	15.03	19.00
10/14/94	2000	4500	-3840	13.22	19.78	10/23/94	1500	15120	8820	15.01	19.01
10/14/94	2100	4560	-3780	13.16	19.81	10/23/94	1600	15180	8880	15.03	19.00
10/14/94	2200	4620	-3720	13.07	19.85	10/23/94	1700	15240	8940	14.99	19.02
10/14/94	2300	4680	-3660	12.97	19.89	10/23/94	1800	15300	9000	14.98	19.02
10/15/94	0	4740	-3600	12.86	19.94	10/23/94	1900	15360	9060	14.96	19.03
10/15/94	100	4800	-3540	12.80	19.96	10/23/94	2000	15420	9120	14.94	19.04
10/15/94	200	4860	-3480	12.79	19.97	10/23/94	2100	15480	9180	14.91	19.05
10/15/94	300	4920	-3420	12.81	19.96	10/23/94	2200	15540	9240	14.94	19.04
10/15/94	400	4980	-3360	12.83	19.95	10/23/94	2300	15600	9300	14.91	19.05
10/15/94	500	5040	-3300	12.87	19.93	10/24/94	0	15660	9360	14.94	19.04
10/15/94	600	5100	-3240	12.93	19.91	10/24/94	100	15720	9420	14.95	19.03
10/15/94	700	5160	-3180	12.97	19.89	10/24/94	200	15780	9480	14.95	19.04
10/15/94	800	5220	-3120	12.91	19.91	10/24/94	300	15840	9540	14.95	19.03
10/15/94	900	5280	-3060	12.86	19.94	10/24/94	400	15900	9600	14.95	19.04
10/15/94	1000	5340	-3000	12.77	19.98	10/24/94	500	15960	9660	14.94	19.04
10/15/94	1100	5400	-2940	12.71	20.00	10/24/94	600	16020	9720	14.88	19.06
10/15/94	1200	5460	-2880	12.68	20.02	10/24/94	700	16080	9780	14.88	19.07
10/15/94	1300	5520	-2820	12.69	20.01	10/24/94	800	16140	9840	14.84	19.08
10/15/94	1400	5580	-2760	12.74	19.99	10/24/94	900	16200	9900	14.82	19.09
10/15/94	1500	5640	-2700	12.78	19.97	10/24/94	1000	16260	9960	14.82	19.09
10/15/94	1600	5700	-2640	12.84	19.95	10/24/94	1100	16320	10020	14.84	19.08
10/15/94	1700	5760	-2580	12.89	19.93	10/24/94	1200	16380	10080	14.83	19.09
10/15/94	1800	5820	-2520	12.94	19.90	10/24/94	1300	16440	10140	14.87	19.07
10/15/94	1900	5880	-2460	12.99	19.88	10/24/94	1400	16500	10200	14.89	19.06
10/15/94	2000	5940	-2400	12.98	19.89	10/24/94	1500	16560	10260	14.84	19.08
10/15/94	2100	6000	-2340	12.93	19.91	10/24/94	1600	16620	10320	14.72	19.13
10/15/94	2200	6060	-2280	12.83	19.95	10/24/94	1700	16680	10380	14.64	19.17
10/15/94	2300	6120	-2220	12.75	19.99	10/24/94	1800	16740	10440	14.49	19.23
10/16/94	0	6180	-2160	12.68	20.02	10/24/94	1900	16800	10500	14.38	19.28
10/16/94	100	6240	-2100	12.59	20.05	10/24/94	2000	16860	10560	14.29	19.32
10/16/94	200	6300	-2040	12.59	20.05	10/24/94	2100	16920	10620	14.20	19.36
10/16/94	300	6360	-1980	12.61	20.05	10/24/94	2200	16980	10680	14.12	19.39
10/16/94	400	6420	-1920	12.63	20.04	10/24/94	2300	17040	10740	14.02	19.44
10/16/94	500	6480	-1860	12.65	20.03	10/25/94	0	17100	10800	13.97	19.46
10/16/94	600	6540	-1800	12.67	20.02	10/25/94	100	17160	10860	13.93	19.47
10/16/94	700	6600	-1740	12.72	20.00	10/25/94	200	17220	10920	13.85	19.51
10/16/94	800	6660	-1680	12.71	20.00	10/25/94	300	17280	10980	13.80	19.53
10/16/94	900	6720	-1620	12.63	20.04	10/25/94	400	17340	11040	13.76	19.55
10/16/94	1000	6780	-1560	12.58	20.06	10/25/94	500	17400	11100	13.68	19.58
10/16/94	1100	6840	-1500	12.52	20.09	10/25/94	600	17460	11160	13.59	19.62
10/16/94	1200	6900	-1440	12.45	20.12	10/25/94	700	17520	11220	13.51	19.66
10/16/94	1300	6960	-1380	12.41	20.13	10/25/94	800	17580	11280	13.42	19.70
10/16/94	1400	7020	-1320	12.45	20.12	10/25/94	900	17640	11340	13.42	19.70
10/16/94	1500	7080	-1260	12.46	20.11	10/25/94	1000	17700	11400	13.49	19.67
10/16/94	1600	7140	-1200	12.49	20.10	10/25/94	1100	17760	11460	13.53	19.65
10/16/94	1700	7200	-1140	12.54	20.08	10/25/94	1200	17820	11520	13.60	19.62
10/16/94	1800	7260	-1080	12.57	20.06	10/25/94	1300	17880	11580	13.68	19.58
10/16/94	1900	7320	-1020	12.65	20.03	10/25/94	1400	17940	11640	13.75	19.56
10/16/94	2000	7380	-960	12.64	20.04	10/25/94	1500	18000	11700	13.82	19.52
10/16/94	2100	7440	-900	12.61	20.05	10/25/94	1600	18060	11760	13.86	19.51
10/16/94	2200	7500	-840	12.54	20.08	10/25/94	1700	18120	11820	13.90	19.49
10/16/94	2300	7560	-780	12.47	20.11	10/25/94	1800	18180	11880	13.94	19.47
10/17/94	0	7620	-720	12.40	20.14	10/25/94	1900	18240	11940	13.97	19.46
10/17/94	100	7680	-660	12.31	20.18	10/25/94	2000	18300	12000	14.00	19.45
10/17/94	200	7740	-600	12.20	20.23	10/25/94	2100	18360	12060	14.03	19.43
10/17/94	300	7800	-540	12.12	20.26	10/25/94	2200	18420	12120	14.06	19.42
10/17/94	400	7860	-480	12.03	20.30	10/25/94	2300	18480	12180	14.09	19.41
10/17/94	500	7920	-420	11.97	20.32	10/26/94	0	18540	12240	14.12	19.39
10/17/94	600	7980	-360	11.88	20.36	10/26/94	100	18600	12300	14.15	19.38

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/17/94	700	8040	-300	11.85	20.38	10/26/94	200	18660	12360	14.17	19.37
10/17/94	800	8100	-240	11.83	20.39	10/26/94	300	18720	12420	14.22	19.35
10/17/94	900	8160	-180	11.78	20.41	10/26/94	400	18780	12480	14.22	19.35
10/17/94	1000	8220	-120	11.73	20.43	10/26/94	500	18840	12540	14.21	19.35
10/17/94	1100	8280	-60	11.70	20.44	10/26/94	600	18900	12600	14.22	19.35
10/17/94	1200	8340	0	11.67	20.45	10/26/94	700	18960	12660	14.25	19.34
10/17/94	1300	8400	60	11.69	20.45	10/26/94	800	19020	12720	14.20	19.36
10/17/94	1400	8460	120	11.77	20.41	10/26/94	900	19080	12780	14.19	19.36
10/17/94	1500	8520	180	11.90	20.35	10/26/94	1000	19140	12840	14.20	19.36
10/17/94	1600	8580	240	12.07	20.28	10/26/94	1100	19200	12900	14.21	19.36
10/17/94	1700	8640	300	12.21	20.22	10/26/94	1200	19260	12960	14.21	19.35
10/17/94	1800	8700	360	12.37	20.15	10/26/94	1300	19320	13020	14.25	19.34
10/17/94	1900	8760	420	12.59	20.05	10/26/94	1400	19380	13080	14.26	19.33
10/17/94	2000	8820	480	12.71	20.00	10/26/94	1500	19440	13140	14.30	19.32
10/17/94	2100	8880	540	12.93	19.91	10/26/94	1600	19500	13200	14.29	19.32
10/17/94	2200	8940	600	10.70	20.87	10/26/94	1700	19560	13260	14.32	19.31
10/17/94	2300	9000	660	13.08	19.84	10/26/94	1800	19620	13320	14.32	19.31
10/18/94	0	9060	720	13.08	19.84	10/26/94	1900	19680	13380	14.32	19.31
10/18/94	100	9120	780	11.96	20.33	10/26/94	2000	19740	13440	14.24	19.34
10/18/94	200	9180	840	13.10	19.83	10/26/94	2100	19800	13500	14.15	19.38
10/18/94	300	9240	900	13.12	19.82	10/26/94	2200	19860	13560	14.04	19.43
10/18/94	400	9300	960	13.10	19.83	10/26/94	2300	19920	13620	13.91	19.48
10/18/94	500	9360	1020	13.15	19.81	10/27/94	0	19980	13680	13.81	19.53
10/18/94	600	9420	1080	13.15	19.81	10/27/94	100	20040	13740	13.77	19.54
10/18/94	700	9480	1140	13.18	19.80	10/27/94	200	20100	13800	13.78	19.54
10/18/94	800	9540	1200	13.23	19.78	10/27/94	300	20160	13860	13.81	19.53
10/18/94	900	9600	1260	13.28	19.76	10/27/94	400	20220	13920	13.87	19.50
10/18/94	1000	9660	1320	13.35	19.73	10/27/94	500	20280	13980	13.90	19.49
10/18/94	1100	9720	1380	13.42	19.70	10/27/94	600	20340	14040	13.93	19.48
10/18/94	1200	9780	1440	13.51	19.66	10/27/94	700	20400	14100	13.97	19.46
10/18/94	1300	9840	1500	13.56	19.64	10/27/94	800	20460	14160	13.90	19.49
10/18/94	1400	9900	1560	13.62	19.61	10/27/94	900	20520	14220	13.79	19.54
10/18/94	1500	9960	1620	13.63	19.60	10/27/94	1000	20580	14280	13.72	19.56
10/18/94	1600	10020	1680	13.69	19.58	10/27/94	1100	20640	14340	13.60	19.62
10/18/94	1700	10080	1740	13.70	19.58	10/27/94	1200	20700	14400	13.51	19.66
10/18/94	1800	10140	1800	13.75	19.55	10/27/94	1300	20760	14460	13.49	19.67
10/18/94	1900	10200	1860	13.79	19.54	10/27/94	1400	20820	14520	13.49	19.66
10/18/94	2000	10260	1920	13.84	19.52	10/27/94	1500	20880	14580	13.54	19.64
10/18/94	2100	10320	1980	13.91	19.49	10/27/94	1600	20940	14640	13.59	19.62
10/18/94	2200	10380	2040	13.99	19.45	10/27/94	1700	21000	14700	13.61	19.61
10/18/94	2300	10440	2100	14.05	19.42	10/27/94	1800	21060	14760	13.67	19.59
10/19/94	0	10500	2160	14.10	19.40	10/27/94	1900	21120	14820	13.70	19.57
10/19/94	100	10560	2220	14.15	19.38	10/27/94	2000	21180	14880	13.63	19.60
10/19/94	200	10620	2280	14.16	19.38	10/27/94	2100	21240	14940	13.56	19.63
10/19/94	300	10680	2340	14.19	19.36	10/27/94	2200	21300	15000	13.49	19.66
10/19/94	400	10740	2400	14.21	19.35	10/27/94	2300	21360	15060	13.41	19.70
10/19/94	500	10800	2460	14.23	19.35	10/28/94	0	21420	15120	13.31	19.74
10/19/94	600	10860	2520	14.27	19.33	10/28/94	100	21480	15180	13.30	19.75
10/19/94	700	10920	2580	14.31	19.31	10/28/94	200	21540	15240	13.33	19.73
10/19/94	800	10980	2640	14.32	19.31	10/28/94	300	21600	15300	13.36	19.72
10/19/94	900	11040	2700	14.38	19.28	10/28/94	400	21660	15360	13.40	19.70
10/19/94	1000	11100	2760	14.51	19.23	10/28/94	500	21720	15420	13.42	19.69
10/19/94	1100	11160	2820	14.63	19.17	10/28/94	600	21780	15480	13.44	19.69
10/19/94	1200	11220	2880	14.75	19.12	10/28/94	700	21840	15540	13.50	19.66
10/19/94	1300	11280	2940	14.86	19.07	10/28/94	800	21900	15600	13.45	19.68
10/19/94	1400	11340	3000	14.98	19.02	10/28/94	900	21960	15660	13.38	19.71
10/19/94	1500	11400	3060	15.05	18.99	10/28/94	1000	22020	15720	13.27	19.76
10/19/94	1600	11460	3120	15.11	18.96	10/28/94	1100	22080	15780	13.19	19.80
10/19/94	1700	11520	3180	15.18	18.94	10/28/94	1200	22140	15840	13.14	19.82
10/19/94	1800	11580	3240	15.27	18.89	10/28/94	1300	22200	15900	13.10	19.83
10/19/94	1900	11640	3300	15.37	18.85	10/28/94	1400	22260	15960	13.13	19.82
10/19/94	2000	11700	3360	15.45	18.82	10/28/94	1500	22320	16020	13.20	19.79
10/19/94	2100	11760	3420	15.53	18.78	10/28/94	1600	22380	16080	13.23	19.78
10/19/94	2200	11820	3480	15.64	18.74	10/28/94	1700	22440	16140	13.28	19.76
10/19/94	2300	11880	3540	15.72	18.70	10/28/94	1800	22500	16200	13.32	19.74
10/20/94	0	11940	3600	15.80	18.66	10/28/94	1900	22560	16260	13.34	19.73
10/20/94	100	12000	3660	15.86	18.64	10/28/94	2000	22620	16320	13.31	19.74
10/20/94	200	12060	3720	15.90	18.62	10/28/94	2100	22680	16380	13.26	19.77
10/20/94	300	12120	3780	15.97	18.59	10/28/94	2200	22740	16440	13.19	19.80
10/20/94	400	12180	3840	16.00	18.58	10/28/94	2300	22800	16500	13.10	19.83
10/20/94	500	12240	3900	16.03	18.57	10/29/94	0	22860	16560	13.03	19.87
10/20/94	600	12300	3960	16.07	18.55	10/29/94	100	22920	16620	12.95	19.90
10/20/94	700	12360	4020	16.11	18.53	10/29/94	200	22980	16680	12.88	19.93

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/20/94	800	12420	4080	16.17	18.51	10/29/94	300	23040	16740	12.84	19.95
10/20/94	900	12480	4140	16.24	18.47	10/29/94	400	23100	16800	12.77	19.98
10/20/94	1000	12540	4200	16.27	18.46	10/29/94	500	23160	16860	12.71	20.00
10/20/94	1100	12600	4260	16.36	18.42	10/29/94	600	23220	16920	12.67	20.02
10/20/94	1200	12660	4320	16.47	18.38	10/29/94	700	23280	16980	12.64	20.04
						10/29/94	800	23340	17040	12.60	20.05
						10/29/94	900	23400	17100	12.54	20.08
						10/29/94	1000	23460	17160	12.51	20.09
						10/29/94	1100	23520	17220	12.46	20.11
						10/29/94	1200	23580	17280	12.42	20.13
						10/29/94	1300	23640	17340	12.44	20.12
						10/29/94	1400	23700	17400	12.52	20.09
						10/29/94	1500	23760	17460	12.62	20.04
						10/29/94	1600	23820	17520	12.74	19.99
						10/29/94	1700	23880	17580	12.83	19.95
						10/29/94	1800	23940	17640	12.91	19.91
						10/29/94	1900	24000	17700	13.00	19.88
						10/29/94	2000	24060	17760	13.01	19.87
						10/29/94	2100	24120	17820	12.96	19.89
						10/29/94	2200	24180	17880	12.91	19.92
						10/29/94	2300	24240	17940	12.84	19.95
						10/30/94	0	24300	18000	12.76	19.98
						10/30/94	100	24360	18060	12.73	19.99
						10/30/94	200	24420	18120	12.76	19.98
						10/30/94	300	24480	18180	12.83	19.95
						10/30/94	400	24540	18240	12.88	19.93
						10/30/94	500	24600	18300	12.97	19.89
						10/30/94	600	24660	18360	13.03	19.86
						10/30/94	700	24720	18420	13.12	19.83
						10/30/94	800	24780	18480	13.10	19.83
						10/30/94	900	24840	18540	13.04	19.86
						10/30/94	1000	24900	18600	12.99	19.88
						10/30/94	1100	24960	18660	12.93	19.91
						10/30/94	1200	25020	18720	12.86	19.94
						10/30/94	1300	25080	18780	12.86	19.94
						10/30/94	1400	25140	18840	12.90	19.92
						10/30/94	1500	25200	18900	12.97	19.89
						10/30/94	1600	25260	18960	13.01	19.87
						10/30/94	1700	25320	19020	13.09	19.84
						10/30/94	1800	25380	19080	13.15	19.81
						10/30/94	1900	25440	19140	13.21	19.79
						10/30/94	2000	25500	19200	13.24	19.78
						10/30/94	2100	25560	19260	13.20	19.79
						10/30/94	2200	25620	19320	13.10	19.83
						10/30/94	2300	25680	19380	13.04	19.86
						10/31/94	0	25740	19440	12.96	19.89
						10/31/94	100	25800	19500	12.93	19.91
						10/31/94	200	25860	19560	12.95	19.90
						10/31/94	300	25920	19620	12.99	19.88
						10/31/94	400	25980	19680	13.04	19.86
						10/31/94	500	26040	19740	13.11	19.83
						10/31/94	600	26100	19800	13.18	19.80
						10/31/94	700	26160	19860	13.26	19.77
						10/31/94	800	26220	19920	13.26	19.77
						10/31/94	900	26280	19980	13.22	19.78
						10/31/94	1000	26340	20040	13.19	19.79
						10/31/94	1100	26400	20100	13.24	19.77
						10/31/94	1200	26460	20160	13.31	19.75
						10/31/94	1300	26520	20220	13.38	19.71
						10/31/94	1400	26580	20280	13.44	19.69
						10/31/94	1500	26640	20340	13.48	19.67
						10/31/94	1600	26700	20400	13.54	19.65
						10/31/94	1700	26760	20460	13.61	19.61
						10/31/94	1800	26820	20520	13.68	19.58
						10/31/94	1900	26880	20580	13.72	19.56
						10/31/94	2000	26940	20640	13.80	19.53
						10/31/94	2100	27000	20700	13.87	19.50
						10/31/94	2200	27060	20760	13.94	19.47
						10/31/94	2300	27120	20820	14.00	19.44
						11/1/94	0	27180	20880	14.06	19.42
						11/1/94	100	27240	20940	14.08	19.41
						11/1/94	200	27300	21000	14.08	19.41
						11/1/94	300	27360	21060	14.11	19.40

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
						11/1/94	400	27420	21120	14.12	19.39
						11/1/94	500	27480	21180	14.17	19.37
						11/1/94	600	27540	21240	14.18	19.37
						11/1/94	700	27600	21300	14.25	19.33
						11/1/94	800	27660	21360	14.32	19.31
						11/1/94	900	27720	21420	14.36	19.29
						11/1/94	1000	27780	21480	14.37	19.28
						11/1/94	1100	27840	21540	14.29	19.32

MONITORING WELL B-4

Emery & Garrett Groundwater, Inc.

PUMPING TEST DATA SHEET FOR MONITORING WELL B-4

PROJECT: Bealeton, Virginia
SUBCONTRACTOR: Leazer Bros., Inc.
PUMPING WELL (S): MS-5 NEW

MONITORING WELL: B-4
INITIAL WATER LEVEL: 11.48 feet
MAXIMUM DRAWDOWN:
MEASURING POINT: Top of Casing

	Date	Hour	Minute
Start of Pumping:	10/17/94	12	0
Start of Recovery:	10/20/94	12	0

PUMPING DATA

Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/11/94	1700	0	-8340	11.48	14.94
10/11/94	1800	60	-8280	11.50	14.93
10/11/94	1900	120	-8220	11.53	14.92
10/11/94	2000	180	-8160	11.54	14.92
10/11/94	2100	240	-8100	11.54	14.92
10/11/94	2200	300	-8040	11.55	14.91
10/11/94	2300	360	-7980	11.56	14.91
10/12/94	0	420	-7920	11.58	14.90
10/12/94	100	480	-7860	11.59	14.90
10/12/94	200	540	-7800	11.61	14.89
10/12/94	300	600	-7740	11.61	14.89
10/12/94	400	660	-7680	11.65	14.87
10/12/94	500	720	-7620	11.65	14.87
10/12/94	600	780	-7560	11.67	14.86
10/12/94	700	840	-7500	11.68	14.86
10/12/94	800	900	-7440	11.69	14.85
10/12/94	900	960	-7380	11.69	14.85
10/12/94	1000	1020	-7320	11.69	14.85
10/12/94	1100	1080	-7260	11.68	14.86
10/12/94	1200	1140	-7200	11.69	14.85
10/12/94	1300	1200	-7140	11.70	14.85
10/12/94	1400	1260	-7080	11.72	14.84
10/12/94	1500	1320	-7020	11.72	14.84
10/12/94	1600	1380	-6960	11.74	14.83
10/12/94	1700	1440	-6900	11.75	14.83
10/12/94	1800	1500	-6840	11.77	14.82
10/12/94	1900	1560	-6780	11.77	14.82
10/12/94	2000	1620	-6720	11.79	14.81
10/12/94	2100	1680	-6660	11.81	14.80
10/12/94	2200	1740	-6600	11.82	14.80
10/12/94	2300	1800	-6540	11.82	14.80
10/13/94	0	1860	-6480	11.82	14.79
10/13/94	100	1920	-6420	11.83	14.79
10/13/94	200	1980	-6360	11.85	14.78
10/13/94	300	2040	-6300	11.87	14.78
10/13/94	400	2100	-6240	11.89	14.76
10/13/94	500	2160	-6180	11.91	14.76
10/13/94	600	2220	-6120	11.93	14.75
10/13/94	700	2280	-6060	11.94	14.74
10/13/94	800	2340	-6000	11.97	14.73
10/13/94	900	2400	-5940	11.99	14.72
10/13/94	1000	2460	-5880	11.99	14.72
10/13/94	1100	2520	-5820	12.01	14.72
10/13/94	1200	2580	-5760	12.01	14.71
10/13/94	1300	2640	-5700	12.04	14.70
10/13/94	1400	2700	-5640	12.05	14.70
10/13/94	1500	2760	-5580	12.05	14.69
10/13/94	1600	2820	-5520	12.06	14.69
10/13/94	1700	2880	-5460	12.08	14.68
10/13/94	1800	2940	-5400	12.10	14.67
10/13/94	1900	3000	-5340	12.13	14.66
10/13/94	2000	3060	-5280	12.16	14.65
10/13/94	2100	3120	-5220	12.17	14.64
10/13/94	2200	3180	-5160	12.18	14.64
10/13/94	2300	3240	-5100	12.19	14.64
10/14/94	0	3300	-5040	12.20	14.63
10/14/94	100	3360	-4980	12.22	14.62
10/14/94	200	3420	-4920	12.22	14.62
10/14/94	300	3480	-4860	12.25	14.61
10/14/94	400	3540	-4800	12.24	14.61

RECOVERY DATA

Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/20/94	1200	12660	4320	26.50	8.44
10/20/94	1300	12720	4380	26.17	8.59
10/20/94	1400	12780	4440	25.66	8.81
10/20/94	1500	12840	4500	25.17	9.01
10/20/94	1600	12900	4560	24.71	9.22
10/20/94	1700	12960	4620	24.27	9.40
10/20/94	1800	13020	4680	23.86	9.58
10/20/94	1900	13080	4740	23.48	9.75
10/20/94	2000	13140	4800	23.14	9.90
10/20/94	2100	13200	4860	22.83	10.03
10/20/94	2200	13260	4920	22.53	10.16
10/20/94	2300	13320	4980	22.26	10.28
10/21/94	0	13380	5040	22.01	10.39
10/21/94	100	13440	5100	21.76	10.49
10/21/94	200	13500	5160	21.51	10.60
10/21/94	300	13560	5220	21.29	10.69
10/21/94	400	13620	5280	21.04	10.80
10/21/94	500	13680	5340	20.81	10.90
10/21/94	600	13740	5400	20.60	10.99
10/21/94	700	13800	5460	20.39	11.09
10/21/94	800	13860	5520	20.21	11.17
10/21/94	900	13920	5580	20.04	11.24
10/21/94	1000	13980	5640	19.89	11.30
10/21/94	1100	14040	5700	19.75	11.36
10/21/94	1200	14100	5760	19.63	11.42
10/21/94	1300	14160	5820	19.50	11.47
10/21/94	1400	14220	5880	19.37	11.53
10/21/94	1500	14280	5940	19.24	11.59
10/21/94	1600	14340	6000	19.11	11.64
10/21/94	1700	14400	6060	18.97	11.70
10/21/94	1800	14460	6120	18.84	11.76
10/21/94	1900	14520	6180	18.71	11.81
10/21/94	2000	14580	6240	18.59	11.86
10/21/94	2100	14640	6300	18.49	11.91
10/21/94	2200	14700	6360	18.39	11.95
10/21/94	2300	14760	6420	18.30	11.99
10/22/94	0	14820	6480	18.21	12.03
10/22/94	100	14880	6540	18.11	12.07
10/22/94	200	14940	6600	18.01	12.12
10/22/94	300	15000	6660	17.92	12.16
10/22/94	400	15060	6720	17.80	12.21
10/22/94	500	15120	6780	17.68	12.26
10/22/94	600	15180	6840	17.55	12.32
10/22/94	700	15240	6900	17.45	12.36
10/22/94	800	15300	6960	17.32	12.41
10/22/94	900	15360	7020	17.23	12.45
10/22/94	1000	15420	7080	17.16	12.48
10/22/94	1100	15480	7140	17.10	12.51
10/22/94	1200	15540	7200	17.08	12.52
10/22/94	1300	15600	7260	17.05	12.53
10/22/94	1400	15660	7320	17.02	12.55
10/22/94	1500	15720	7380	16.97	12.56
10/22/94	1600	15780	7440	16.92	12.59
10/22/94	1700	15840	7500	16.86	12.61
10/22/94	1800	15900	7560	16.81	12.63
10/22/94	1900	15960	7620	16.76	12.66
10/22/94	2000	16020	7680	16.70	12.68
10/22/94	2100	16080	7740	16.67	12.70
10/22/94	2200	16140	7800	16.65	12.71
10/22/94	2300	16200	7860	16.63	12.71

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/14/94	500	3600	-4740	12.26	14.60	10/23/94	0	16260	7920	16.63	12.71
10/14/94	600	3660	-4680	12.28	14.60	10/23/94	100	16320	7980	16.61	12.72
10/14/94	700	3720	-4620	12.31	14.59	10/23/94	200	16380	8040	16.59	12.73
10/14/94	800	3780	-4560	12.31	14.58	10/23/94	300	16440	8100	16.56	12.74
10/14/94	900	3840	-4500	12.32	14.58	10/23/94	400	16500	8160	16.52	12.76
10/14/94	1000	3900	-4440	12.32	14.58	10/23/94	500	16560	8220	16.49	12.77
10/14/94	1100	3960	-4380	12.32	14.58	10/23/94	600	16620	8280	16.44	12.80
10/14/94	1200	4020	-4320	12.31	14.59	10/23/94	700	16680	8340	16.38	12.82
10/14/94	1300	4080	-4260	12.31	14.59	10/23/94	800	16740	8400	16.34	12.84
10/14/94	1400	4140	-4200	12.31	14.58	10/23/94	900	16800	8460	16.29	12.86
10/14/94	1500	4200	-4140	12.29	14.59	10/23/94	1000	16860	8520	16.27	12.87
10/14/94	1600	4260	-4080	12.44	14.53	10/23/94	1100	16920	8580	16.25	12.88
10/14/94	1700	4320	-4020	12.45	14.53	10/23/94	1200	16980	8640	16.22	12.89
10/14/94	1800	4380	-3960	12.46	14.52	10/23/94	1300	17040	8700	16.22	12.89
10/14/94	1900	4440	-3900	12.45	14.52	10/23/94	1400	17100	8760	16.20	12.90
10/14/94	2000	4500	-3840	12.47	14.52	10/23/94	1500	17160	8820	16.17	12.91
10/14/94	2100	4560	-3780	12.46	14.52	10/23/94	1600	17220	8880	16.15	12.92
10/14/94	2200	4620	-3720	12.46	14.52	10/23/94	1700	17280	8940	16.12	12.94
10/14/94	2300	4680	-3660	12.44	14.53	10/23/94	1800	17340	9000	16.07	12.96
10/15/94	0	4740	-3600	12.41	14.54	10/23/94	1900	17400	9060	16.02	12.98
10/15/94	100	4800	-3540	12.39	14.55	10/23/94	2000	17460	9120	15.98	12.99
10/15/94	200	4860	-3480	12.36	14.56	10/23/94	2100	17520	9180	15.94	13.01
10/15/94	300	4920	-3420	12.33	14.57	10/23/94	2200	17580	9240	15.90	13.03
10/15/94	400	4980	-3360	12.31	14.59	10/23/94	2300	17640	9300	15.88	13.04
10/15/94	500	5040	-3300	12.31	14.58	10/24/94	0	17700	9360	15.87	13.04
10/15/94	600	5100	-3240	12.32	14.58	10/24/94	100	17760	9420	15.84	13.06
10/15/94	700	5160	-3180	12.31	14.58	10/24/94	200	17820	9480	15.83	13.06
10/15/94	800	5220	-3120	12.31	14.59	10/24/94	300	17880	9540	15.82	13.07
10/15/94	900	5280	-3060	12.35	14.57	10/24/94	400	17940	9600	15.79	13.08
10/15/94	1000	5340	-3000	12.50	14.50	10/24/94	500	18000	9660	15.75	13.10
10/15/94	1100	5400	-2940	13.14	14.22	10/24/94	600	18060	9720	15.71	13.11
10/15/94	1200	5460	-2880	13.74	13.96	10/24/94	700	18120	9780	15.66	13.13
10/15/94	1300	5520	-2820	13.75	13.96	10/24/94	800	18180	9840	15.61	13.15
10/15/94	1400	5580	-2760	13.68	13.99	10/24/94	900	18240	9900	15.57	13.17
10/15/94	1500	5640	-2700	13.61	14.02	10/24/94	1000	18300	9960	15.53	13.19
10/15/94	1600	5700	-2640	13.53	14.06	10/24/94	1100	18360	10020	15.53	13.19
10/15/94	1700	5760	-2580	13.46	14.09	10/24/94	1200	18420	10080	15.54	13.19
10/15/94	1800	5820	-2520	13.39	14.12	10/24/94	1300	18480	10140	15.54	13.19
10/15/94	1900	5880	-2460	13.33	14.14	10/24/94	1400	18540	10200	15.56	13.18
10/15/94	2000	5940	-2400	13.28	14.16	10/24/94	1500	18600	10260	15.56	13.18
10/15/94	2100	6000	-2340	13.25	14.18	10/24/94	1600	18660	10320	15.54	13.18
10/15/94	2200	6060	-2280	13.19	14.20	10/24/94	1700	18720	10380	15.50	13.20
10/15/94	2300	6120	-2220	13.13	14.23	10/24/94	1800	18780	10440	15.48	13.21
10/16/94	0	6180	-2160	13.09	14.25	10/24/94	1900	18840	10500	15.43	13.24
10/16/94	100	6240	-2100	13.02	14.27	10/24/94	2000	18900	10560	15.41	13.24
10/16/94	200	6300	-2040	12.97	14.30	10/24/94	2100	18960	10620	15.36	13.26
10/16/94	300	6360	-1980	12.90	14.33	10/24/94	2200	19020	10680	15.32	13.28
10/16/94	400	6420	-1920	12.86	14.35	10/24/94	2300	19080	10740	15.30	13.29
10/16/94	500	6480	-1860	12.80	14.37	10/25/94	0	19140	10800	15.28	13.30
10/16/94	600	6540	-1800	12.79	14.38	10/25/94	100	19200	10860	15.26	13.31
10/16/94	700	6600	-1740	12.77	14.39	10/25/94	200	19260	10920	15.24	13.32
10/16/94	800	6660	-1680	12.75	14.40	10/25/94	300	19320	10980	15.21	13.33
10/16/94	900	6720	-1620	12.73	14.40	10/25/94	400	19380	11040	15.19	13.34
10/16/94	1000	6780	-1560	12.71	14.41	10/25/94	500	19440	11100	15.14	13.36
10/16/94	1100	6840	-1500	12.70	14.42	10/25/94	600	19500	11160	15.10	13.38
10/16/94	1200	6900	-1440	12.65	14.44	10/25/94	700	19560	11220	15.03	13.40
10/16/94	1300	6960	-1380	12.63	14.44	10/25/94	800	19620	11280	14.98	13.43
10/16/94	1400	7020	-1320	12.63	14.45	10/25/94	900	19680	11340	14.93	13.45
10/16/94	1500	7080	-1260	12.59	14.46	10/25/94	1000	19740	11400	14.89	13.47
10/16/94	1600	7140	-1200	12.58	14.47	10/25/94	1100	19800	11460	14.87	13.48
10/16/94	1700	7200	-1140	12.57	14.47	10/25/94	1200	19860	11520	14.84	13.49
10/16/94	1800	7260	-1080	12.54	14.48	10/25/94	1300	19920	11580	14.85	13.49
10/16/94	1900	7320	-1020	12.55	14.48	10/25/94	1400	19980	11640	14.86	13.48
10/16/94	2000	7380	-960	12.56	14.48	10/25/94	1500	20040	11700	14.85	13.48
10/16/94	2100	7440	-900	12.55	14.48	10/25/94	1600	20100	11760	14.84	13.49
10/16/94	2200	7500	-840	12.55	14.48	10/25/94	1700	20160	11820	14.84	13.49
10/16/94	2300	7560	-780	12.54	14.49	10/25/94	1800	20220	11880	14.82	13.50
10/17/94	0	7620	-720	12.54	14.49	10/25/94	1900	20280	11940	14.79	13.51
10/17/94	100	7680	-660	12.48	14.51	10/25/94	2000	20340	12000	14.77	13.52
10/17/94	200	7740	-600	12.46	14.52	10/25/94	2100	20400	12060	14.75	13.53
10/17/94	300	7800	-540	12.42	14.54	10/25/94	2200	20460	12120	14.73	13.54
10/17/94	400	7860	-480	12.37	14.56	10/25/94	2300	20520	12180	14.72	13.54
10/17/94	500	7920	-420	12.34	14.57	10/26/94	0	20580	12240	14.71	13.55

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/17/94	600	7980	-360	12.30	14.59	10/26/94	100	20640	12300	14.70	13.55
10/17/94	700	8040	-300	12.27	14.60	10/26/94	200	20700	12360	14.74	13.53
10/17/94	800	8100	-240	12.28	14.60	10/26/94	300	20760	12420	14.72	13.54
10/17/94	900	8160	-180	12.25	14.61	10/26/94	400	20820	12480	14.71	13.55
10/17/94	1000	8220	-120	12.24	14.61	10/26/94	500	20880	12540	14.70	13.55
10/17/94	1100	8280	-60	12.24	14.61	10/26/94	600	20940	12600	14.69	13.56
10/17/94	1200	8340	0	12.23	14.62	10/26/94	700	21000	12660	14.67	13.56
10/17/94	1300	8400	60	12.68	14.42	10/26/94	800	21060	12720	14.63	13.58
10/17/94	1400	8460	120	13.27	14.17	10/26/94	900	21120	12780	14.60	13.59
10/17/94	1500	8520	180	13.84	13.92	10/26/94	1000	21180	12840	14.59	13.60
10/17/94	1600	8580	240	14.38	13.69	10/26/94	1100	21240	12900	14.57	13.60
10/17/94	1700	8640	300	14.93	13.45	10/26/94	1200	21300	12960	14.58	13.60
10/17/94	1800	8700	360	15.45	13.23	10/26/94	1300	21360	13020	14.58	13.60
10/17/94	1900	8760	420	15.95	13.01	10/26/94	1400	21420	13080	14.60	13.59
10/17/94	2000	8820	480	16.43	12.80	10/26/94	1500	21480	13140	14.59	13.60
10/17/94	2100	8880	540	16.88	12.61	10/26/94	1600	21540	13200	14.60	13.59
10/17/94	2200	8940	600	17.32	12.41	10/26/94	1700	21600	13260	14.60	13.59
10/17/94	2300	9000	660	17.72	12.24	10/26/94	1800	21660	13320	14.59	13.60
10/18/94	0	9060	720	18.10	12.08	10/26/94	1900	21720	13380	14.56	13.61
10/18/94	100	9120	780	18.45	11.92	10/26/94	2000	21780	13440	14.55	13.62
10/18/94	200	9180	840	18.76	11.79	10/26/94	2100	21840	13500	14.52	13.63
10/18/94	300	9240	900	19.06	11.66	10/26/94	2200	21900	13560	14.48	13.64
10/18/94	400	9300	960	19.31	11.55	10/26/94	2300	21960	13620	14.46	13.65
10/18/94	500	9360	1020	19.57	11.44	10/27/94	0	22020	13680	14.45	13.66
10/18/94	600	9420	1080	19.81	11.34	10/27/94	100	22080	13740	14.43	13.67
10/18/94	700	9480	1140	20.06	11.23	10/27/94	200	22140	13800	14.41	13.68
10/18/94	800	9540	1200	20.30	11.13	10/27/94	300	22200	13860	14.40	13.68
10/18/94	900	9600	1260	20.53	11.03	10/27/94	400	22260	13920	14.41	13.68
10/18/94	1000	9660	1320	20.77	10.92	10/27/94	500	22320	13980	14.41	13.68
10/18/94	1100	9720	1380	20.99	10.83	10/27/94	600	22380	14040	14.39	13.68
10/18/94	1200	9780	1440	21.22	10.73	10/27/94	700	22440	14100	14.38	13.69
10/18/94	1300	9840	1500	21.41	10.64	10/27/94	800	22500	14160	14.35	13.70
10/18/94	1400	9900	1560	21.62	10.56	10/27/94	900	22560	14220	14.32	13.71
10/18/94	1500	9960	1620	21.79	10.48	10/27/94	1000	22620	14280	14.30	13.72
10/18/94	1600	10020	1680	21.94	10.41	10/27/94	1100	22680	14340	14.26	13.74
10/18/94	1700	10080	1740	22.10	10.35	10/27/94	1200	22740	14400	14.23	13.75
10/18/94	1800	10140	1800	22.25	10.28	10/27/94	1300	22800	14460	14.21	13.76
10/18/94	1900	10200	1860	22.41	10.21	10/27/94	1400	22860	14520	14.21	13.76
10/18/94	2000	10260	1920	22.56	10.15	10/27/94	1500	22920	14580	14.21	13.76
10/18/94	2100	10320	1980	22.72	10.08	10/27/94	1600	22980	14640	14.21	13.76
10/18/94	2200	10380	2040	22.87	10.01	10/27/94	1700	23040	14700	14.19	13.77
10/18/94	2300	10440	2100	23.03	9.94	10/27/94	1800	23100	14760	14.19	13.77
10/19/94	0	10500	2160	23.17	9.88	10/27/94	1900	23160	14820	14.19	13.77
10/19/94	100	10560	2220	23.32	9.82	10/27/94	2000	23220	14880	14.18	13.77
10/19/94	200	10620	2280	23.42	9.78	10/27/94	2100	23280	14940	14.15	13.79
10/19/94	300	10680	2340	23.53	9.73	10/27/94	2200	23340	15000	14.13	13.80
10/19/94	400	10740	2400	23.63	9.68	10/27/94	2300	23400	15060	14.09	13.81
10/19/94	500	10800	2460	23.72	9.65	10/28/94	0	23460	15120	14.07	13.82
10/19/94	600	10860	2520	23.82	9.60	10/28/94	100	23520	15180	14.04	13.83
10/19/94	700	10920	2580	23.91	9.56	10/28/94	200	23580	15240	14.03	13.84
10/19/94	800	10980	2640	24.01	9.52	10/28/94	300	23640	15300	14.01	13.85
10/19/94	900	11040	2700	24.11	9.48	10/28/94	400	23700	15360	14.01	13.85
10/19/94	1000	11100	2760	24.23	9.42	10/28/94	500	23760	15420	14.01	13.85
10/19/94	1100	11160	2820	24.36	9.37	10/28/94	600	23820	15480	14.01	13.85
10/19/94	1200	11220	2880	24.48	9.32	10/28/94	700	23880	15540	14.01	13.85
10/19/94	1300	11280	2940	24.58	9.27	10/28/94	800	23940	15600	13.98	13.86
10/19/94	1400	11340	3000	24.70	9.22	10/28/94	900	24000	15660	13.94	13.88
10/19/94	1500	11400	3060	24.80	9.18	10/28/94	1000	24060	15720	13.93	13.88
10/19/94	1600	11460	3120	24.88	9.14	10/28/94	1100	24120	15780	13.91	13.89
10/19/94	1700	11520	3180	24.96	9.11	10/28/94	1200	24180	15840	13.89	13.90
10/19/94	1800	11580	3240	25.04	9.07	10/28/94	1300	24240	15900	13.88	13.90
10/19/94	1900	11640	3300	25.13	9.04	10/28/94	1400	24300	15960	13.88	13.91
10/19/94	2000	11700	3360	25.22	9.00	10/28/94	1500	24360	16020	13.88	13.90
10/19/94	2100	11760	3420	25.34	8.94	10/28/94	1600	24420	16080	13.89	13.90
10/19/94	2200	11820	3480	25.45	8.90	10/28/94	1700	24480	16140	13.89	13.90
10/19/94	2300	11880	3540	25.54	8.86	10/28/94	1800	24540	16200	13.89	13.90
10/20/94	0	11940	3600	25.64	8.81	10/28/94	1900	24600	16260	13.89	13.90
10/20/94	100	12000	3660	25.74	8.77	10/28/94	2000	24660	16320	13.88	13.90
10/20/94	200	12060	3720	25.80	8.75	10/28/94	2100	24720	16380	13.87	13.91
10/20/94	300	12120	3780	25.88	8.71	10/28/94	2200	24780	16440	13.85	13.92
10/20/94	400	12180	3840	25.93	8.69	10/28/94	2300	24840	16500	13.84	13.92
10/20/94	500	12240	3900	25.99	8.66	10/29/94	0	24900	16560	13.81	13.93
10/20/94	600	12300	3960	26.06	8.63	10/29/94	100	24960	16620	13.80	13.94

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/20/94	700	12360	4020	26.11	8.61	10/29/94	200	25020	16680	13.77	13.95
10/20/94	800	12420	4080	26.18	8.58	10/29/94	300	25080	16740	13.77	13.95
10/20/94	900	12480	4140	26.25	8.55	10/29/94	400	25140	16800	13.74	13.97
10/20/94	1000	12540	4200	26.32	8.52	10/29/94	500	25200	16860	13.73	13.97
10/20/94	1100	12600	4260	26.41	8.48	10/29/94	600	25260	16920	13.72	13.97
10/20/94	1200	12660	4320	26.50	8.44	10/29/94	700	25320	16980	13.70	13.98
						10/29/94	800	25380	17040	13.68	13.99
						10/29/94	900	25440	17100	13.66	14.00
						10/29/94	1000	25500	17160	13.64	14.01
						10/29/94	1100	25560	17220	13.62	14.02
						10/29/94	1200	25620	17280	13.61	14.02
						10/29/94	1300	25680	17340	13.60	14.02
						10/29/94	1400	25740	17400	13.60	14.03
						10/29/94	1500	25800	17460	13.62	14.02
						10/29/94	1600	25860	17520	13.62	14.02
						10/29/94	1700	25920	17580	13.63	14.01
						10/29/94	1800	25980	17640	13.64	14.01
						10/29/94	1900	26040	17700	13.66	14.00
						10/29/94	2000	26100	17760	13.65	14.00
						10/29/94	2100	26160	17820	13.66	14.00
						10/29/94	2200	26220	17880	13.64	14.01
						10/29/94	2300	26280	17940	13.63	14.01
						10/30/94	0	26340	18000	13.61	14.02
						10/30/94	100	26400	18060	13.59	14.03
						10/30/94	200	26460	18120	13.57	14.04
						10/30/94	300	26520	18180	13.56	14.04
						10/30/94	400	26580	18240	13.56	14.04
						10/30/94	500	26640	18300	13.56	14.04
						10/30/94	600	26700	18360	13.57	14.04
						10/30/94	700	26760	18420	13.58	14.03
						10/30/94	800	26820	18480	13.59	14.03
						10/30/94	900	26880	18540	13.58	14.04
						10/30/94	1000	26940	18600	13.58	14.03
						10/30/94	1100	27000	18660	13.58	14.04
						10/30/94	1200	27060	18720	13.56	14.04
						10/30/94	1300	27120	18780	13.56	14.04
						10/30/94	1400	27180	18840	13.57	14.04
						10/30/94	1500	27240	18900	13.57	14.04
						10/30/94	1600	27300	18960	13.58	14.03
						10/30/94	1700	27360	19020	13.60	14.03
						10/30/94	1800	27420	19080	13.61	14.02
						10/30/94	1900	27480	19140	13.62	14.02
						10/30/94	2000	27540	19200	13.65	14.00
						10/30/94	2100	27600	19260	13.65	14.00
						10/30/94	2200	27660	19320	13.66	14.00
						10/30/94	2300	27720	19380	13.65	14.00
						10/31/94	0	27780	19440	13.64	14.01
						10/31/94	100	27840	19500	13.61	14.02
						10/31/94	200	27900	19560	13.60	14.03
						10/31/94	300	27960	19620	13.58	14.03
						10/31/94	400	28020	19680	13.58	14.03
						10/31/94	500	28080	19740	13.58	14.04
						10/31/94	600	28140	19800	13.59	14.03
						10/31/94	700	28200	19860	13.61	14.02
						10/31/94	800	28260	19920	13.63	14.01
						10/31/94	900	28320	19980	13.64	14.01
						10/31/94	1000	28380	20040	13.64	14.01
						10/31/94	1100	28440	20100	13.65	14.00
						10/31/94	1200	28500	20160	13.65	14.00
						10/31/94	1300	28560	20220	13.68	13.99
						10/31/94	1400	28620	20280	13.70	13.98
						10/31/94	1500	28680	20340	13.72	13.97
						10/31/94	1600	28740	20400	13.74	13.97
						10/31/94	1700	28800	20460	13.76	13.96
						10/31/94	1800	28860	20520	13.78	13.95
						10/31/94	1900	28920	20580	13.82	13.93
						10/31/94	2000	28980	20640	13.85	13.92
						10/31/94	2100	29040	20700	13.90	13.90
						10/31/94	2200	29100	20760	13.94	13.88
						10/31/94	2300	29160	20820	13.97	13.87
						11/1/94	0	29220	20880	13.99	13.85
						11/1/94	100	29280	20940	14.00	13.85
						11/1/94	200	29340	21000	14.01	13.85

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
						11/1/94	300	29400	21060	14.01	13.85
						11/1/94	400	29460	21120	14.02	13.84
						11/1/94	500	29520	21180	14.03	13.84
						11/1/94	600	29580	21240	14.06	13.83
						11/1/94	700	29640	21300	14.10	13.81
						11/1/94	800	29700	21360	14.14	13.79
						11/1/94	900	29760	21420	14.19	13.77
						11/1/94	1000	29820	21480	14.19	13.77

MEADOWBROOKE PRODUCTION WELL

Emery & Garrett Groundwater, Inc.

PUMPING TEST DATA SHEET FOR MEADOWBROOKE PRODUCTION WELL

PROJECT: Bealeton, Virginia
SUBCONTRACTOR: Leazer Bors., Inc.
PUMPING WELL (S): MS-5 NEW

MONITORING WELL: Meadowbrook Production
STATIC WATER LEVEL: Not Determined
MAXIMUM DRAWDOWN:
MEASURING POINT:

	Date	Hour	Minute
Start of Pumping:	10/17/94	12	0
Start of Recovery:	10/20/94	12	0

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading
10/14/94	1700	0	-4020	0.00	11.58	10/20/94	1200	8340	4320	-2.91	12.84
10/14/94	1730	30	-3990	0.05	11.56	10/20/94	1230	8370	4350	-2.88	12.828
10/14/94	1800	60	-3960	0.10	11.54	10/20/94	1300	8400	4380	-2.81	12.7982
10/14/94	1830	90	-3930	0.02	11.57	10/20/94	1330	8430	4410	-3.00	12.8826
10/14/94	1900	120	-3900	-21.71	20.98	10/20/94	1400	8460	4440	-3.01	12.8876
10/14/94	1930	150	-3870	-22.40	21.28	10/20/94	1430	8490	4470	-3.07	12.9124
10/14/94	2000	180	-3840	-22.99	21.53	10/20/94	1500	8520	4500	-2.92	12.8479
10/14/94	2030	210	-3810	-23.25	21.65	10/20/94	1530	8550	4530	-2.96	12.8628
10/14/94	2100	240	-3780	-23.48	21.75	10/20/94	1600	8580	4560	-3.03	12.8925
10/14/94	2130	270	-3750	-23.75	21.86	10/20/94	1630	8610	4590	-3.06	12.9075
10/14/94	2200	300	-3720	-23.96	21.95	10/20/94	1700	8640	4620	-3.24	12.9868
10/14/94	2230	330	-3690	-24.06	22.00	10/20/94	1730	8670	4650	-3.19	12.962
10/14/94	2300	360	-3660	-24.16	22.04	10/20/94	1800	8700	4680	-3.21	12.972
10/14/94	2330	390	-3630	-24.38	22.14	10/20/94	1830	8730	4710	-3.39	13.0513
10/15/94	0	420	-3600	-24.49	22.18	10/20/94	1900	8760	4740	-3.36	13.0364
10/15/94	30	450	-3570	-3.53	13.11	10/20/94	1930	8790	4770	-3.38	13.0463
10/15/94	100	480	-3540	-2.97	12.87	10/20/94	2000	8820	4800	-3.37	13.0414
10/15/94	130	510	-3510	-2.74	12.77	10/20/94	2030	8850	4830	-3.45	13.0761
10/15/94	200	540	-3480	-2.53	12.68	10/20/94	2100	8880	4860	-3.47	13.086
10/15/94	230	570	-3450	-2.30	12.58	10/20/94	2130	8910	4890	-3.52	13.1058
10/15/94	300	600	-3420	-2.10	12.49	10/20/94	2200	8940	4920	-3.56	13.1256
10/15/94	330	630	-3390	-2.03	12.46	10/20/94	2230	8970	4950	-3.53	13.1107
10/15/94	400	660	-3360	-1.96	12.43	10/20/94	2300	9000	4980	-3.71	13.19
10/15/94	430	690	-3330	-1.99	12.45	10/20/94	2330	9030	5010	-3.71	13.19
10/15/94	500	720	-3300	-1.74	12.34	10/21/94	0	9060	5040	-3.63	13.1554
10/15/94	530	750	-3270	-1.76	12.35	10/21/94	30	9090	5070	-3.66	13.1653
10/15/94	600	780	-3240	-1.72	12.33	10/21/94	100	9120	5100	-3.68	13.1752
10/15/94	630	810	-3210	-1.64	12.29	10/21/94	130	9150	5130	-3.62	13.1504
10/15/94	700	840	-3180	-21.71	20.98	10/21/94	200	9180	5160	-3.60	13.1405
10/15/94	730	870	-3150	-22.73	21.42	10/21/94	230	9210	5190	-3.54	13.1157
10/15/94	800	900	-3120	-23.03	21.55	10/21/94	300	9240	5220	-3.51	13.1009
10/15/94	830	930	-3090	-23.64	21.82	10/21/94	330	9270	5250	-3.46	13.081
10/15/94	900	960	-3060	-23.89	21.92	10/21/94	400	9300	5280	-3.55	13.1207
10/15/94	930	990	-3030	-24.14	22.03	10/21/94	430	9330	5310	-3.42	13.0612
10/15/94	1000	1020	-3000	-24.27	22.09	10/21/94	500	9360	5340	-3.48	13.091
10/15/94	1030	1050	-2970	-24.41	22.15	10/21/94	530	9390	5370	-3.51	13.1009
10/15/94	1100	1080	-2940	-24.48	22.18	10/21/94	600	9420	5400	-3.51	13.1009
10/15/94	1130	1110	-2910	-24.62	22.24	10/21/94	630	9450	5430	-3.56	13.1256
10/15/94	1200	1140	-2880	-24.83	22.33	10/21/94	700	9480	5460	-3.45	13.0761
10/15/94	1230	1170	-2850	-6.45	14.37	10/21/94	730	9510	5490	-3.53	13.1107
10/15/94	1300	1200	-2820	-5.78	14.08	10/21/94	800	9540	5520	-3.44	13.0711
10/15/94	1330	1230	-2790	-5.28	13.87	10/21/94	830	9570	5550	-3.51	13.1009
10/15/94	1400	1260	-2760	-5.03	13.76	10/21/94	900	9600	5580	-3.50	13.0959
10/15/94	1430	1290	-2730	-4.76	13.65	10/21/94	930	9630	5610	-3.40	13.0562
10/15/94	1500	1320	-2700	0.07	11.55	10/21/94	1000	9660	5640	-18.80	19.7195
10/15/94	1530	1350	-2670	0.47	11.38	10/21/94	1030	9690	5670	-20.53	20.4705
10/15/94	1600	1380	-2640	0.59	11.33	10/21/94	1100	9720	5700	-21.05	20.6933
10/15/94	1630	1410	-2610	0.81	11.23	10/21/94	1130	9750	5730	-21.37	20.8353
10/15/94	1700	1440	-2580	1.02	11.14	10/21/94	1200	9780	5760	-21.63	20.9441
10/15/94	1730	1470	-2550	1.09	11.11	10/21/94	1230	9810	5790	-6.27	14.2961
10/15/94	1800	1500	-2520	1.17	11.08	10/21/94	1300	9840	5820	-5.61	14.0104
10/15/94	1830	1530	-2490	1.24	11.05	10/21/94	1330	9870	5850	-5.35	13.8969
10/15/94	1900	1560	-2460	-22.01	21.11	10/21/94	1400	9900	5880	-5.13	13.8032
10/15/94	1930	1590	-2430	-22.84	21.47	10/21/94	1430	9930	5910	-4.95	13.7242
10/15/94	2000	1620	-2400	-23.31	21.68	10/21/94	1500	9960	5940	-4.84	13.6797
10/15/94	2030	1650	-2370	-23.63	21.81	10/21/94	1530	9990	5970	-4.84	13.6797

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading
10/15/94	2100	1680	-2340	-23.91	21.93	10/21/94	1600	10020	6000	-4.71	13.6205
10/15/94	2130	1710	-2310	-24.10	22.01	10/21/94	1630	10050	6030	-4.62	13.5809
10/15/94	2200	1740	-2280	-24.31	22.11	10/21/94	1700	10080	6060	-4.63	13.5859
10/15/94	2230	1770	-2250	-24.42	22.16	10/21/94	1730	10110	6090	-4.49	13.5266
10/15/94	2300	1800	-2220	-24.57	22.22	10/21/94	1800	10140	6120	-4.49	13.5266
10/15/94	2330	1830	-2190	-24.72	22.28	10/21/94	1830	10170	6150	-4.42	13.4969
10/16/94	0	1860	-2160	-24.85	22.34	10/21/94	1900	10200	6180	-20.68	20.5369
10/16/94	30	1890	-2130	-5.69	14.04	10/21/94	1930	10230	6210	-21.42	20.8542
10/16/94	100	1920	-2100	-4.99	13.74	10/21/94	2000	10260	6240	-21.67	20.963
10/16/94	130	1950	-2070	-5.24	13.85	10/21/94	2030	10290	6270	-22.11	21.152
10/16/94	200	1980	-2040	-5.07	13.78	10/21/94	2100	10320	6300	-22.30	21.237
10/16/94	230	2010	-2010	-4.87	13.69	10/21/94	2130	10350	6330	-22.41	21.2842
10/16/94	300	2040	-1980	-4.72	13.63	10/21/94	2200	10380	6360	-22.51	21.3267
10/16/94	330	2070	-1950	-4.66	13.60	10/21/94	2230	10410	6390	-22.67	21.3974
10/16/94	400	2100	-1920	-4.53	13.54	10/21/94	2300	10440	6420	-22.76	21.4352
10/16/94	430	2130	-1890	-4.43	13.50	10/21/94	2330	10470	6450	-22.92	21.5059
10/16/94	500	2160	-1860	-4.51	13.54	10/22/94	0	10500	6480	-22.99	21.5342
10/16/94	530	2190	-1830	-4.40	13.49	10/22/94	30	10530	6510	-23.11	21.586
10/16/94	600	2220	-1800	-4.29	13.44	10/22/94	100	10560	6540	-23.22	21.6331
10/16/94	630	2250	-1770	-4.53	13.54	10/22/94	130	10590	6570	-23.28	21.6614
10/16/94	700	2280	-1740	-22.24	21.21	10/22/94	200	10620	6600	-23.30	21.6708
10/16/94	730	2310	-1710	-23.33	21.68	10/22/94	230	10650	6630	-23.42	21.7226
10/16/94	800	2340	-1680	-23.64	21.82	10/22/94	300	10680	6660	-23.46	21.7367
10/16/94	830	2370	-1650	-24.12	22.02	10/22/94	330	10710	6690	-23.54	21.7743
10/16/94	900	2400	-1620	-24.29	22.10	10/22/94	400	10740	6720	-23.66	21.8261
10/16/94	930	2430	-1590	-24.57	22.22	10/22/94	430	10770	6750	-23.71	21.8449
10/16/94	1000	2460	-1560	-24.70	22.28	10/22/94	500	10800	6780	-23.86	21.9107
10/16/94	1030	2490	-1530	-24.80	22.32	10/22/94	530	10830	6810	-23.89	21.9248
10/16/94	1100	2520	-1500	-24.94	22.38	10/22/94	600	10860	6840	-23.96	21.953
10/16/94	1130	2550	-1470	-25.04	22.42	10/22/94	630	10890	6870	-24.01	21.9765
10/16/94	1200	2580	-1440	-25.18	22.48	10/22/94	700	10920	6900	-24.08	22.0047
10/16/94	1230	2610	-1410	-7.61	14.88	10/22/94	730	10950	6930	-24.13	22.0282
10/16/94	1300	2640	-1380	-7.28	14.73	10/22/94	800	10980	6960	-24.14	22.0329
10/16/94	1330	2670	-1350	-6.90	14.57	10/22/94	830	11010	6990	-1.23	12.1167
10/16/94	1400	2700	-1320	-6.65	14.46	10/22/94	900	11040	7020	-0.45	11.7773
10/16/94	1430	2730	-1290	-6.31	14.32	10/22/94	930	11070	7050	0.19	11.5024
10/16/94	1500	2760	-1260	-6.18	14.26	10/22/94	1000	11100	7080	0.66	11.2971
10/16/94	1530	2790	-1230	-6.01	14.18	10/22/94	1030	11130	7110	0.87	11.207
10/16/94	1600	2820	-1200	-5.93	14.15	10/22/94	1100	11160	7140	1.60	10.891
10/16/94	1630	2850	-1170	-5.79	14.09	10/22/94	1130	11190	7170	1.66	10.8659
10/16/94	1700	2880	-1140	-5.62	14.02	10/22/94	1200	11220	7200	1.83	10.7905
10/16/94	1730	2910	-1110	-5.54	13.98	10/22/94	1230	11250	7230	2.03	10.7051
10/16/94	1800	2940	-1080	-5.49	13.96	10/22/94	1300	11280	7260	2.14	10.6548
10/16/94	1830	2970	-1050	-5.47	13.95	10/22/94	1330	11310	7290	2.31	10.5844
10/16/94	1900	3000	-1020	-22.85	21.47	10/22/94	1400	11340	7320	2.17	10.6447
10/16/94	1930	3030	-990	-23.63	21.81	10/22/94	1430	11370	7350	1.77	10.8156
10/16/94	2000	3060	-960	-24.00	21.97	10/22/94	1500	11400	7380	1.83	10.7905
10/16/94	2030	3090	-930	-24.27	22.09	10/22/94	1530	11430	7410	2.06	10.69
10/16/94	2100	3120	-900	-24.51	22.19	10/22/94	1600	11460	7440	2.07	10.685
10/16/94	2130	3150	-870	-24.66	22.26	10/22/94	1630	11490	7470	2.05	10.695
10/16/94	2200	3180	-840	-24.81	22.32	10/22/94	1700	11520	7500	2.13	10.6598
10/16/94	2230	3210	-810	-25.02	22.41	10/22/94	1730	11550	7530	2.22	10.6196
10/16/94	2300	3240	-780	-25.08	22.44	10/22/94	1800	11580	7560	2.22	10.6196
10/16/94	2330	3270	-750	-25.09	22.45	10/22/94	1830	11610	7590	2.29	10.5894
10/17/94	0	3300	-720	-25.29	22.53	10/22/94	1900	11640	7620	2.24	10.6146
10/17/94	30	3330	-690	-25.43	22.59	10/22/94	1930	11670	7650	2.22	10.6196
10/17/94	100	3360	-660	-25.39	22.57	10/22/94	2000	11700	7680	2.22	10.6196
10/17/94	130	3390	-630	-25.56	22.65	10/22/94	2030	11730	7710	2.34	10.5693
10/17/94	200	3420	-600	-25.58	22.66	10/22/94	2100	11760	7740	2.27	10.5995
10/17/94	230	3450	-570	-25.67	22.69	10/22/94	2130	11790	7770	2.18	10.6397
10/17/94	300	3480	-540	-25.74	22.73	10/22/94	2200	11820	7800	2.32	10.5794
10/17/94	330	3510	-510	-25.86	22.78	10/22/94	2230	11850	7830	2.27	10.5995
10/17/94	400	3540	-480	-25.89	22.79	10/22/94	2300	11880	7860	2.31	10.5844
10/17/94	430	3570	-450	-25.98	22.83	10/22/94	2330	11910	7890	2.21	10.6246
10/17/94	500	3600	-420	-25.96	22.82	10/23/94	0	11940	7920	2.11	10.6699
10/17/94	530	3630	-390	-26.05	22.86	10/23/94	30	11970	7950	2.13	10.6598
10/17/94	600	3660	-360	-26.13	22.90	10/23/94	100	12000	7980	2.34	10.5693
10/17/94	630	3690	-330	-26.22	22.93	10/23/94	130	12030	8010	2.35	10.5643

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading
10/17/94	700	3720	-300	-26.25	22.95	10/23/94	200	12060	8040	2.35	10.5643
10/17/94	730	3750	-270	-26.25	22.95	10/23/94	230	12090	8070	2.33	10.5743
10/17/94	800	3780	-240	-26.29	22.97	10/23/94	300	12120	8100	2.19	10.6347
10/17/94	830	3810	-210	-26.37	23.00	10/23/94	330	12150	8130	2.22	10.6196
10/17/94	900	3840	-180	-26.36	22.99	10/23/94	400	12180	8160	2.29	10.5894
10/17/94	930	3870	-150	-26.34	22.98	10/23/94	430	12210	8190	2.29	10.5894
10/17/94	1000	3900	-120	-26.35	22.99	10/23/94	500	12240	8220	2.22	10.6196
10/17/94	1030	3930	-90	-26.41	23.02	10/23/94	530	12270	8250	2.22	10.6196
10/17/94	1100	3960	-60	-26.41	23.02	10/23/94	600	12300	8280	2.15	10.6497
10/17/94	1130	3990	-30	-26.33	22.98	10/23/94	630	12330	8310	1.84	10.7855
10/17/94	1200	4020	0	-15.58	18.33	10/23/94	700	12360	8340	1.86	10.7754
10/17/94	1230	4050	30	-9.78	15.81	10/23/94	730	12390	8370	1.89	10.7654
10/17/94	1300	4080	60	-8.85	15.41	10/23/94	800	12420	8400	1.93	10.7453
10/17/94	1330	4110	90	-8.61	15.31	10/23/94	830	12450	8430	2.03	10.7051
10/17/94	1400	4140	120	-8.18	15.13	10/23/94	900	12480	8460	2.04	10.7
10/17/94	1430	4170	150	-8.06	15.07	10/23/94	930	12510	8490	2.03	10.7051
10/17/94	1500	4200	180	-7.75	14.94	10/23/94	1000	12540	8520	2.10	10.6749
10/17/94	1530	4230	210	-7.55	14.85	10/23/94	1030	12570	8550	2.10	10.6749
10/17/94	1600	4260	240	-7.43	14.80	10/23/94	1100	12600	8580	2.10	10.6749
10/17/94	1630	4290	270	-7.24	14.72	10/23/94	1130	12630	8610	2.06	10.69
10/17/94	1700	4320	300	-7.11	14.66	10/23/94	1200	12660	8640	2.24	10.6146
10/17/94	1730	4350	330	-7.03	14.63	10/23/94	1230	12690	8670	2.18	10.6397
10/17/94	1800	4380	360	-6.87	14.56	10/23/94	1300	12720	8700	2.20	10.6297
10/17/94	1830	4410	390	-6.60	14.44	10/23/94	1330	12750	8730	2.36	10.5592
10/17/94	1900	4440	420	-6.34	14.33	10/23/94	1400	12780	8760	2.36	10.5592
10/17/94	1930	4470	450	-6.29	14.31	10/23/94	1430	12810	8790	2.31	10.5844
10/17/94	2000	4500	480	-6.13	14.24	10/23/94	1500	12840	8820	2.41	10.5391
10/17/94	2030	4530	510	-6.12	14.23	10/23/94	1530	12870	8850	2.43	10.5291
10/17/94	2100	4560	540	-22.35	21.26	10/23/94	1600	12900	8880	2.56	10.4737
10/17/94	2130	4590	570	-23.25	21.65	10/23/94	1630	12930	8910	2.60	10.4586
10/17/94	2200	4620	600	-23.55	21.78	10/23/94	1700	12960	8940	2.55	10.4787
10/17/94	2230	4650	630	-23.91	21.93	10/23/94	1730	12990	8970	2.58	10.4637
10/17/94	2300	4680	660	-24.00	21.97	10/23/94	1800	13020	9000	2.62	10.4485
10/17/94	2330	4710	690	-24.11	22.02	10/23/94	1830	13050	9030	2.47	10.514
10/18/94	0	4740	720	-24.22	22.07	10/23/94	1900	13080	9060	2.61	10.4536
10/18/94	30	4770	750	-24.30	22.10	10/23/94	1930	13110	9090	2.51	10.4939
10/18/94	100	4800	780	-24.41	22.15	10/23/94	2000	13140	9120	2.47	10.514
10/18/94	130	4830	810	-24.47	22.17	10/23/94	2030	13170	9150	2.56	10.4737
10/18/94	200	4860	840	-24.44	22.16	10/23/94	2100	13200	9180	2.49	10.5039
10/18/94	230	4890	870	-24.40	22.15	10/23/94	2130	13230	9210	2.50	10.4989
10/18/94	300	4920	900	-24.51	22.19	10/23/94	2200	13260	9240	2.49	10.5039
10/18/94	330	4950	930	-24.63	22.24	10/23/94	2230	13290	9270	2.35	10.5643
10/18/94	400	4980	960	-24.59	22.23	10/23/94	2300	13320	9300	2.22	10.6196
10/18/94	430	5010	990	-24.70	22.28	10/23/94	2330	13350	9330	2.20	10.6297
10/18/94	500	5040	1020	-24.64	22.25	10/24/94	0	13380	9360	2.05	10.695
10/18/94	530	5070	1050	-24.66	22.26	10/24/94	30	13410	9390	1.96	10.7352
10/18/94	600	5100	1080	-24.65	22.25	10/24/94	100	13440	9420	2.27	10.5995
10/18/94	630	5130	1110	-24.65	22.25	10/24/94	130	13470	9450	2.26	10.6045
10/18/94	700	5160	1140	-24.72	22.28	10/24/94	200	13500	9480	2.21	10.6246
10/18/94	730	5190	1170	-24.76	22.30	10/24/94	230	13530	9510	2.27	10.5995
10/18/94	800	5220	1200	-24.70	22.28	10/24/94	300	13560	9540	2.25	10.6096
10/18/94	830	5250	1230	-24.74	22.29	10/24/94	330	13590	9570	2.17	10.6447
10/18/94	900	5280	1260	-24.69	22.27	10/24/94	400	13620	9600	2.13	10.6598
10/18/94	930	5310	1290	-24.70	22.28	10/24/94	430	13650	9630	2.12	10.6648
10/18/94	1000	5340	1320	-9.07	15.51	10/24/94	500	13680	9660	2.19	10.6347
10/18/94	1030	5370	1350	-24.27	22.09	10/24/94	530	13710	9690	2.20	10.6297
10/18/94	1100	5400	1380	-24.35	22.12	10/24/94	600	13740	9720	2.18	10.6397
10/18/94	1130	5430	1410	-24.47	22.17	10/24/94	630	13770	9750	2.18	10.6397
10/18/94	1200	5460	1440	-24.11	22.02	10/24/94	700	13800	9780	2.19	10.6347
10/18/94	1230	5490	1470	-24.49	22.18	10/24/94	730	13830	9810	2.07	10.685
10/18/94	1300	5520	1500	-24.43	22.16	10/24/94	800	13860	9840	2.17	10.6447
10/18/94	1330	5550	1530	-24.43	22.16	10/24/94	830	13890	9870	2.22	10.6196
10/18/94	1400	5580	1560	-24.43	22.16	10/24/94	900	13920	9900	2.06	10.69
10/18/94	1430	5610	1590	-24.47	22.17	10/24/94	930	13950	9930	2.14	10.6548
10/18/94	1500	5640	1620	-24.54	22.21	10/24/94	1000	13980	9960	2.11	10.6699
10/18/94	1530	5670	1650	-24.38	22.14	10/24/94	1030	14010	9990	2.07	10.685
10/18/94	1600	5700	1680	-24.39	22.14	10/24/94	1100	14040	10020	2.04	10.7
10/18/94	1630	5730	1710	-24.40	22.15	10/24/94	1130	14070	10050	2.11	10.6699

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading
10/18/94	1700	5760	1740	-24.39	22.14	10/24/94	1200	14100	10080	2.39	10.5492
10/18/94	1730	5790	1770	-24.42	22.16	10/24/94	1230	14130	10110	2.39	10.5492
10/18/94	1800	5820	1800	-24.36	22.13	10/24/94	1300	14160	10140	2.43	10.5291
10/18/94	1830	5850	1830	-24.38	22.14	10/24/94	1330	14190	10170	2.46	10.519
10/18/94	1900	5880	1860	-24.34	22.12	10/24/94	1400	14220	10200	-20.04	20.257
10/18/94	1930	5910	1890	-24.36	22.13	10/24/94	1430	14250	10230	-20.79	20.5843
10/18/94	2000	5940	1920	-24.30	22.10	10/24/94	1500	14280	10260	-21.34	20.8211
10/18/94	2030	5970	1950	-24.27	22.09	10/24/94	1530	14310	10290	-21.63	20.9441
10/18/94	2100	6000	1980	-24.26	22.08	10/24/94	1600	14340	10320	-21.92	21.0717
10/18/94	2130	6030	2010	-24.28	22.09	10/24/94	1630	14370	10350	-22.13	21.1615
10/18/94	2200	6060	2040	-24.24	22.08	10/24/94	1700	14400	10380	-22.37	21.2654
10/18/94	2230	6090	2070	-24.22	22.07	10/24/94	1730	14430	10410	-22.52	21.3314
10/18/94	2300	6120	2100	-24.14	22.03	10/24/94	1800	14460	10440	-22.66	21.3928
10/18/94	2330	6150	2130	-24.17	22.05	10/24/94	1830	14490	10470	-22.81	21.4588
10/19/94	0	6180	2160	-24.15	22.04	10/24/94	1900	14520	10500	-22.92	21.5059
10/19/94	30	6210	2190	-24.09	22.01	10/24/94	1930	14550	10530	-23.04	21.5578
10/19/94	100	6240	2220	-24.09	22.01	10/24/94	2000	14580	10560	-23.11	21.586
10/19/94	130	6270	2250	-24.18	22.05	10/24/94	2030	14610	10590	-23.27	21.6567
10/19/94	200	6300	2280	-24.09	22.01	10/24/94	2100	14640	10620	-23.36	21.6943
10/19/94	230	6330	2310	-24.11	22.02	10/24/94	2130	14670	10650	-23.43	21.7273
10/19/94	300	6360	2340	-24.03	21.99	10/24/94	2200	14700	10680	-23.51	21.7602
10/19/94	330	6390	2370	-24.09	22.01	10/24/94	2230	14730	10710	-23.64	21.8167
10/19/94	400	6420	2400	-24.08	22.00	10/24/94	2300	14760	10740	-23.68	21.8355
10/19/94	430	6450	2430	-24.01	21.98	10/24/94	2330	14790	10770	-23.75	21.8637
10/19/94	500	6480	2460	-24.03	21.99	10/25/94	0	14820	10800	-23.80	21.8872
10/19/94	530	6510	2490	-24.04	21.99	10/25/94	30	14850	10830	-23.89	21.9248
10/19/94	600	6540	2520	-24.11	22.02	10/25/94	100	14880	10860	-23.90	21.9295
10/19/94	630	6570	2550	-24.00	21.97	10/25/94	130	14910	10890	-23.90	21.9295
10/19/94	700	6600	2580	-24.02	21.98	10/25/94	200	14940	10920	-23.93	21.9436
10/19/94	730	6630	2610	-24.00	21.97	10/25/94	230	14970	10950	-24.12	22.0235
10/19/94	800	6660	2640	-24.01	21.98	10/25/94	300	15000	10980	-24.02	21.9812
10/19/94	830	6690	2670	-13.02	17.22	10/25/94	330	15030	11010	-24.14	22.0329
10/19/94	900	6720	2700	-12.83	17.14	10/25/94	400	15060	11040	-24.12	22.0235
10/19/94	930	6750	2730	-12.73	17.09	10/25/94	430	15090	11070	-24.26	22.0846
10/19/94	1000	6780	2760	-12.43	16.96	10/25/94	500	15120	11100	-24.24	22.0752
10/19/94	1030	6810	2790	-12.33	16.92	10/25/94	530	15150	11130	-24.34	22.1175
10/19/94	1100	6840	2820	-12.21	16.87	10/25/94	600	15180	11160	-24.41	22.1503
10/19/94	1130	6870	2850	-12.11	16.83	10/25/94	630	15210	11190	-24.47	22.1738
10/19/94	1200	6900	2880	-12.11	16.83	10/25/94	700	15240	11220	-24.53	22.2019
10/19/94	1230	6930	2910	-11.88	16.72	10/25/94	730	15270	11250	-24.47	22.1738
10/19/94	1300	6960	2940	-11.87	16.72	10/25/94	800	15300	11280	-3.60	13.1405
10/19/94	1330	6990	2970	-11.79	16.69	10/25/94	830	15330	11310	-2.84	12.8132
10/19/94	1400	7020	3000	-11.66	16.63	10/25/94	900	15360	11340	-2.52	12.6741
10/19/94	1430	7050	3030	-11.70	16.65	10/25/94	930	15390	11370	-2.21	12.5399
10/19/94	1500	7080	3060	-11.59	16.60	10/25/94	1000	15420	11400	-2.02	12.4553
10/19/94	1530	7110	3090	-11.65	16.63	10/25/94	1030	15450	11430	-1.79	12.3558
10/19/94	1600	7140	3120	-11.53	16.57	10/25/94	1100	15480	11460	-1.60	12.2761
10/19/94	1630	7170	3150	-11.53	16.57	10/25/94	1130	15510	11490	-1.61	12.2811
10/19/94	1700	7200	3180	-11.46	16.54	10/25/94	1200	15540	11520	-1.54	12.2512
10/19/94	1730	7230	3210	-11.50	16.56	10/25/94	1230	15570	11550	-1.29	12.1416
10/19/94	1800	7260	3240	-11.33	16.49	10/25/94	1300	15600	11580	-1.31	12.1515
10/19/94	1830	7290	3270	-11.31	16.48	10/25/94	1330	15630	11610	-1.22	12.1117
10/19/94	1900	7320	3300	-11.20	16.43	10/25/94	1400	15660	11640	-1.14	12.0768
10/19/94	1930	7350	3330	-11.24	16.45	10/25/94	1430	15690	11670	-0.92	11.982
10/19/94	2000	7380	3360	-11.10	16.39	10/25/94	1500	15720	11700	-0.95	11.992
10/19/94	2030	7410	3390	-11.13	16.40	10/25/94	1530	15750	11730	-0.98	12.0069
10/19/94	2100	7440	3420	-11.08	16.38	10/25/94	1600	15780	11760	-0.90	11.972
10/19/94	2130	7470	3450	-10.97	16.33	10/25/94	1630	15810	11790	-1.03	12.0269
10/19/94	2200	7500	3480	-10.86	16.28	10/25/94	1700	15840	11820	-0.83	11.9421
10/19/94	2230	7530	3510	-10.89	16.30	10/25/94	1730	15870	11850	-0.83	11.9421
10/19/94	2300	7560	3540	-10.89	16.30	10/25/94	1800	15900	11880	-0.80	11.9271
10/19/94	2330	7590	3570	-10.87	16.29	10/25/94	1830	15930	11910	-0.81	11.9321
10/20/94	0	7620	3600	-10.82	16.27	10/25/94	1900	15960	11940	-0.77	11.9171
10/20/94	30	7650	3630	-10.87	16.29	10/25/94	1930	15990	11970	-0.67	11.8722
10/20/94	100	7680	3660	-10.82	16.27	10/25/94	2000	16020	12000	-0.65	11.8623
10/20/94	130	7710	3690	-10.82	16.27	10/25/94	2030	16050	12030	-0.43	11.7673
10/20/94	200	7740	3720	-10.83	16.27	10/25/94	2100	16080	12060	-0.47	11.7873
10/20/94	230	7770	3750	-10.79	16.25	10/25/94	2130	16110	12090	-0.46	11.7823

PUMPING DATA

Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading
10/20/94	300	7800	3780	-10.80	16.26
10/20/94	330	7830	3810	-10.68	16.20
10/20/94	400	7860	3840	-10.55	16.15
10/20/94	430	7890	3870	-10.56	16.16
10/20/94	500	7920	3900	-10.56	16.16
10/20/94	530	7950	3930	-10.52	16.14
10/20/94	600	7980	3960	-10.47	16.12
10/20/94	630	8010	3990	-10.38	16.08
10/20/94	700	8040	4020	-10.41	16.09
10/20/94	730	8070	4050	-10.33	16.05
10/20/94	800	8100	4080	-10.35	16.06
10/20/94	830	8130	4110	-10.35	16.06
10/20/94	900	8160	4140	-10.21	16.00
10/20/94	930	8190	4170	-3.52	13.11
10/20/94	1000	8220	4200	-3.21	12.97
10/20/94	1030	8250	4230	-3.21	12.97
10/20/94	1100	8280	4260	-3.09	12.92
10/20/94	1130	8310	4290	-3.03	12.89
10/20/94	1200	8340	4320	-2.91	12.84

RECOVERY DATA

Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading
10/25/94	2200	16140	12120	-0.53	11.8123
10/25/94	2230	16170	12150	-0.58	11.8323
10/25/94	2300	16200	12180	-0.61	11.8473
10/25/94	2330	16230	12210	-0.74	11.9021
10/26/94	0	16260	12240	-0.80	11.9271
10/26/94	30	16290	12270	-0.60	11.8423
10/26/94	100	16320	12300	-0.52	11.8073
10/26/94	130	16350	12330	-0.58	11.8323
10/26/94	200	16380	12360	-0.57	11.8273
10/26/94	230	16410	12390	-0.61	11.8473
10/26/94	300	16440	12420	-0.54	11.8173
10/26/94	330	16470	12450	-0.58	11.8323
10/26/94	400	16500	12480	-0.58	11.8323
10/26/94	430	16530	12510	-0.57	11.8273
10/26/94	500	16560	12540	-0.53	11.8123
10/26/94	530	16590	12570	-0.54	11.8173
10/26/94	600	16620	12600	-0.48	11.7923
10/26/94	630	16650	12630	-0.53	11.8123
10/26/94	700	16680	12660	-0.44	11.7723
10/26/94	730	16710	12690	-0.39	11.7524
10/26/94	800	16740	12720	-0.48	11.7923
10/26/94	830	16770	12750	-0.45	11.7773
10/26/94	900	16800	12780	-0.39	11.7524
10/26/94	930	16830	12810	-0.76	11.9121
10/26/94	1000	16860	12840	-0.76	11.9121
10/26/94	1030	16890	12870	-0.77	11.9171
10/26/94	1100	16920	12900	-0.81	11.9321
10/26/94	1130	16950	12930	-0.74	11.9021
10/26/94	1200	16980	12960	-0.85	11.9521
10/26/94	1230	17010	12990	-0.77	11.9171
10/26/94	1300	17040	13020	-0.68	11.8772
10/26/94	1330	17070	13050	-0.66	11.8672
10/26/94	1400	17100	13080	-0.67	11.8722
10/26/94	1430	17130	13110	-0.67	11.8722
10/26/94	1500	17160	13140	-0.53	11.8123
10/26/94	1530	17190	13170	-0.51	11.8023
10/26/94	1600	17220	13200	-0.48	11.7923
10/26/94	1630	17250	13230	-0.57	11.8273
10/26/94	1700	17280	13260	-0.43	11.7673
10/26/94	1730	17310	13290	-0.48	11.7923
10/26/94	1800	17340	13320	-0.47	11.7873
10/26/94	1830	17370	13350	-0.59	11.8373
10/26/94	1900	17400	13380	-20.77	20.5748
10/26/94	1930	17430	13410	-21.49	20.8874
10/26/94	2000	17460	13440	-21.99	21.1001
10/26/94	2030	17490	13470	-22.24	21.2087
10/26/94	2100	17520	13500	-22.60	21.3645
10/26/94	2130	17550	13530	-22.83	21.4635
10/26/94	2200	17580	13560	-23.01	21.5436
10/26/94	2230	17610	13590	-23.23	21.6378
10/26/94	2300	17640	13620	-23.29	21.6661
10/26/94	2330	17670	13650	-23.49	21.7508
10/27/94	0	17700	13680	-23.51	21.7602
10/27/94	30	17730	13710	-3.54	13.1157
10/27/94	100	17760	13740	-2.80	12.7933
10/27/94	130	17790	13770	-2.41	12.6244
10/27/94	200	17820	13800	-2.09	12.4851
10/27/94	230	17850	13830	-2.12	12.5001
10/27/94	300	17880	13860	-1.92	12.4155
10/27/94	330	17910	13890	-1.76	12.3458
10/27/94	400	17940	13920	-1.65	12.296
10/27/94	430	17970	13950	-1.63	12.2861
10/27/94	500	18000	13980	-1.57	12.2612
10/27/94	530	18030	14010	-1.49	12.2263
10/27/94	600	18060	14040	-1.41	12.1914
10/27/94	630	18090	14070	-1.33	12.1565
10/27/94	700	18120	14100	-20.96	20.6554
10/27/94	730	18150	14130	-21.97	21.0954

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading
						10/27/94	800	18180	14160	-22.45	21.3031
						10/27/94	830	18210	14190	-5.00	13.7489
						10/27/94	900	18240	14220	-22.90	21.4965
						10/27/94	930	18270	14250	-23.23	21.6378
						10/27/94	1000	18300	14280	-23.29	21.6661
						10/27/94	1030	18330	14310	-23.54	21.7743
						10/27/94	1100	18360	14340	-23.73	21.8543
						10/27/94	1130	18390	14370	-23.85	21.906
						10/27/94	1200	18420	14400	-7.74	14.9346
						10/27/94	1230	18450	14430	-6.19	14.2616
						10/27/94	1300	18480	14460	-5.72	14.0596
						10/27/94	1330	18510	14490	-5.39	13.9167
						10/27/94	1400	18540	14520	-5.26	13.8575
						10/27/94	1430	18570	14550	-5.13	13.8032
						10/27/94	1500	18600	14580	-4.91	13.7094
						10/27/94	1530	18630	14610	-4.74	13.6353
						10/27/94	1600	18660	14640	-4.60	13.576
						10/27/94	1630	18690	14670	-4.46	13.5117
						10/27/94	1700	18720	14700	-4.35	13.4672
						10/27/94	1730	18750	14730	-4.32	13.4524
						10/27/94	1800	18780	14760	-4.25	13.4227
						10/27/94	1830	18810	14790	-4.14	13.3732
						10/27/94	1900	18840	14820	-21.99	21.1001
						10/27/94	1930	18870	14850	-22.55	21.3456
						10/27/94	2000	18900	14880	-23.01	21.5436
						10/27/94	2030	18930	14910	-23.28	21.6614
						10/27/94	2100	18960	14940	-23.52	21.7649
						10/27/94	2130	18990	14970	-23.72	21.8496
						10/27/94	2200	19020	15000	-23.86	21.9107
						10/27/94	2230	19050	15030	-23.90	21.9295
						10/27/94	2300	19080	15060	-24.11	22.0188
						10/27/94	2330	19110	15090	-24.25	22.0799
						10/28/94	0	19140	15120	-24.36	22.1269
						10/28/94	30	19170	15150	-7.02	14.6206
						10/28/94	100	19200	15180	-6.27	14.2961
						10/28/94	130	19230	15210	-5.90	14.1385
						10/28/94	200	19260	15240	-5.67	14.035
						10/28/94	230	19290	15270	-5.47	13.9512
						10/28/94	300	19320	15300	-5.45	13.9414
						10/28/94	330	19350	15330	-5.27	13.8624
						10/28/94	400	19380	15360	-5.27	13.8624
						10/28/94	430	19410	15390	-5.15	13.8131
						10/28/94	500	19440	15420	-5.10	13.7884
						10/28/94	530	19470	15450	-4.92	13.7143
						10/28/94	600	19500	15480	-4.83	13.6748
						10/28/94	630	19530	15510	-4.79	13.6551
						10/28/94	700	19560	15540	-21.84	21.0387
						10/28/94	730	19590	15570	-22.68	21.4022
						10/28/94	800	19620	15600	-23.17	21.6143
						10/28/94	830	19650	15630	-23.43	21.7273
						10/28/94	900	19680	15660	-23.73	21.8543
						10/28/94	930	19710	15690	-23.92	21.9389
						10/28/94	1000	19740	15720	-24.12	22.0235
						10/28/94	1030	19770	15750	-24.15	22.0376
						10/28/94	1100	19800	15780	-24.26	22.0846
						10/28/94	1130	19830	15810	-24.48	22.1785
						10/28/94	1200	19860	15840	-8.54	15.2784
						10/28/94	1230	19890	15870	-7.90	15.0033
						10/28/94	1300	19920	15900	-7.35	14.7629
						10/28/94	1330	19950	15930	-7.02	14.6206
						10/28/94	1400	19980	15960	-6.81	14.5321
						10/28/94	1430	20010	15990	-6.67	14.4682
						10/28/94	1500	20040	16020	-6.51	14.3994
						10/28/94	1530	20070	16050	-6.31	14.3157
						10/28/94	1600	20100	16080	-6.23	14.2813
						10/28/94	1630	20130	16110	-6.05	14.2025
						10/28/94	1700	20160	16140	-6.04	14.1976
						10/28/94	1730	20190	16170	-5.92	14.1434

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading
						10/28/94	1800	20220	16200	-5.94	14.1533
						10/28/94	1830	20250	16230	-5.92	14.1434
						10/28/94	1900	20280	16260	-22.39	21.2748
						10/28/94	1930	20310	16290	-23.06	21.5671
						10/28/94	2000	20340	16320	-23.49	21.7508
						10/28/94	2030	20370	16350	-23.75	21.8637
						10/28/94	2100	20400	16380	-23.96	21.953
						10/28/94	2130	20430	16410	-24.12	22.0235
						10/28/94	2200	20460	16440	-24.22	22.0658
						10/28/94	2230	20490	16470	-24.37	22.1315
						10/28/94	2300	20520	16500	-24.52	22.1973
						10/28/94	2330	20550	16530	-24.64	22.2489
						10/29/94	0	20580	16560	-24.65	22.2535
						10/29/94	30	20610	16590	-24.70	22.277
						10/29/94	100	20640	16620	-24.89	22.3567
						10/29/94	130	20670	16650	-24.92	22.3708
						10/29/94	200	20700	16680	-25.04	22.4224
						10/29/94	230	20730	16710	-25.05	22.4271
						10/29/94	300	20760	16740	-25.09	22.4458
						10/29/94	330	20790	16770	-25.19	22.488
						10/29/94	400	20820	16800	-25.21	22.4973
						10/29/94	430	20850	16830	-25.27	22.5207
						10/29/94	500	20880	16860	-25.28	22.5254
						10/29/94	530	20910	16890	-25.33	22.5489
						10/29/94	600	20940	16920	-25.34	22.5536
						10/29/94	630	20970	16950	-25.39	22.5723
						10/29/94	700	21000	16980	-25.44	22.5957
						10/29/94	730	21030	17010	-25.49	22.6191
						10/29/94	800	21060	17040	-25.46	22.6051
						10/29/94	830	21090	17070	-25.60	22.6659
						10/29/94	900	21120	17100	-25.59	22.6612
						10/29/94	930	21150	17130	-25.58	22.6565
						10/29/94	1000	21180	17160	-25.70	22.708
						10/29/94	1030	21210	17190	-25.62	22.6753
						10/29/94	1100	21240	17220	-25.72	22.7174
						10/29/94	1130	21270	17250	-25.70	22.708
						10/29/94	1200	21300	17280	-25.79	22.7455
						10/29/94	1230	21330	17310	-3.00	12.8826
						10/29/94	1300	21360	17340	-2.25	12.5548
						10/29/94	1330	21390	17370	-1.81	12.3657
						10/29/94	1400	21420	17400	-1.31	12.1515
						10/29/94	1430	21450	17430	-1.07	12.0469
						10/29/94	1500	21480	17460	-0.89	11.9671
						10/29/94	1530	21510	17490	-0.60	11.8423
						10/29/94	1600	21540	17520	-0.51	11.8023
						10/29/94	1630	21570	17550	-0.45	11.7773
						10/29/94	1700	21600	17580	-0.28	11.7024
						10/29/94	1730	21630	17610	-0.09	11.6225
						10/29/94	1800	21660	17640	-0.12	11.6324
						10/29/94	1830	21690	17670	0.10	11.5374
						10/29/94	1900	21720	17700	-22.29	21.2323
						10/29/94	1930	21750	17730	-23.11	21.586
						10/29/94	2000	21780	17760	-23.51	21.7602
						10/29/94	2030	21810	17790	-23.84	21.9013
						10/29/94	2100	21840	17820	-24.14	22.0329
						10/29/94	2130	21870	17850	-24.34	22.1175
						10/29/94	2200	21900	17880	-24.48	22.1785
						10/29/94	2230	21930	17910	-24.64	22.2489
						10/29/94	2300	21960	17940	-24.82	22.3286
						10/29/94	2330	21990	17970	-24.85	22.338
						10/30/94	0	22020	18000	-24.99	22.3989
						10/30/94	30	22050	18030	-4.00	13.3138
						10/30/94	100	22080	18060	-3.04	12.8976
						10/30/94	130	22110	18090	-2.46	12.6492
						10/30/94	200	22140	18120	-2.23	12.5498
						10/30/94	230	22170	18150	-1.89	12.4006
						10/30/94	300	22200	18180	-1.74	12.3358
						10/30/94	330	22230	18210	-1.57	12.2612

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading
						10/30/94	400	22260	18240	-1.51	12.2363
						10/30/94	430	22290	18270	-1.45	12.2113
						10/30/94	500	22320	18300	-1.31	12.1515
						10/30/94	530	22350	18330	-1.23	12.1167
						10/30/94	600	22380	18360	-1.25	12.1216
						10/30/94	630	22410	18390	-1.21	12.1067
						10/30/94	700	22440	18420	-21.73	20.9914
						10/30/94	730	22470	18450	-22.89	21.4918
						10/30/94	800	22500	18480	-23.37	21.699
						10/30/94	830	22530	18510	-23.71	21.8449
						10/30/94	900	22560	18540	-23.99	21.9671
						10/30/94	930	22590	18570	-24.13	22.0282
						10/30/94	1000	22620	18600	-24.36	22.1269
						10/30/94	1030	22650	18630	-24.43	22.1597
						10/30/94	1100	22680	18660	-24.61	22.2348
						10/30/94	1130	22710	18690	-24.73	22.2864
						10/30/94	1200	22740	18720	-24.82	22.3286
						10/30/94	1230	22770	18750	-6.78	14.5174
						10/30/94	1300	22800	18780	-5.96	14.1631
						10/30/94	1330	22830	18810	-5.68	14.0399
						10/30/94	1400	22860	18840	-5.37	13.9068
						10/30/94	1430	22890	18870	-5.18	13.8229
						10/30/94	1500	22920	18900	-5.03	13.7588
						10/30/94	1530	22950	18930	-4.83	13.6748
						10/30/94	1600	22980	18960	-4.60	13.576
						10/30/94	1630	23010	18990	-4.46	13.5117
						10/30/94	1700	23040	19020	-4.48	13.5216
						10/30/94	1730	23070	19050	-4.08	13.3485
						10/30/94	1800	23100	19080	-3.99	13.3089
						10/30/94	1830	23130	19110	-3.82	13.2346
						10/30/94	1900	23160	19140	-22.27	21.2229
						10/30/94	1930	23190	19170	-23.10	21.5813
						10/30/94	2000	23220	19200	-23.35	21.6896
						10/30/94	2030	23250	19230	-23.77	21.8731
						10/30/94	2100	23280	19260	-23.96	21.953
						10/30/94	2130	23310	19290	-24.10	22.0141
						10/30/94	2200	23340	19320	-24.31	22.1081
						10/30/94	2230	23370	19350	-24.49	22.1832
						10/30/94	2300	23400	19380	-24.59	22.2254
						10/30/94	2330	23430	19410	-24.69	22.2723
						10/31/94	0	23460	19440	-24.82	22.3286
						10/31/94	30	23490	19470	-5.35	13.8969
						10/31/94	100	23520	19500	-4.34	13.4623
						10/31/94	130	23550	19530	-3.95	13.294
						10/31/94	200	23580	19560	-3.59	13.1355
						10/31/94	230	23610	19590	-3.50	13.0959
						10/31/94	300	23640	19620	-3.31	13.0166
						10/31/94	330	23670	19650	-3.12	12.9322
						10/31/94	400	23700	19680	-3.08	12.9174
						10/31/94	430	23730	19710	-2.91	12.8429
						10/31/94	500	23760	19740	-2.80	12.7933
						10/31/94	530	23790	19770	-2.72	12.7585
						10/31/94	600	23820	19800	-2.60	12.7089
						10/31/94	630	23850	19830	-2.56	12.689
						10/31/94	700	23880	19860	-21.73	20.9914
						10/31/94	730	23910	19890	-22.79	21.4493
						10/31/94	800	23940	19920	-23.28	21.6614
						10/31/94	830	23970	19950	-23.54	21.7743
						10/31/94	900	24000	19980	-23.87	21.9154
						10/31/94	930	24030	20010	-4.58	13.5661
						10/31/94	1000	24060	20040	-3.95	13.294
						10/31/94	1030	24090	20070	-3.69	13.1801
						10/31/94	1100	24120	20100	-3.47	13.086
						10/31/94	1130	24150	20130	-3.40	13.0562
						10/31/94	1200	24180	20160	-3.38	13.0463
						10/31/94	1230	24210	20190	-3.24	12.9868
						10/31/94	1300	24240	20220	-3.20	12.967
						10/31/94	1330	24270	20250	-3.12	12.9322

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Drawdown (feet)	Geokon Reading
						10/31/94	1400	24300	20280	-3.06	12.9075
						10/31/94	1430	24330	20310	-3.11	12.9273
						10/31/94	1500	24360	20340	-3.13	12.9372
						10/31/94	1530	24390	20370	-2.96	12.8628
						10/31/94	1600	24420	20400	-2.87	12.8231
						10/31/94	1630	24450	20430	-2.93	12.8529
						10/31/94	1700	24480	20460	-2.89	12.833
						10/31/94	1730	24510	20490	-2.85	12.8181
						10/31/94	1800	24540	20520	-2.83	12.8082
						10/31/94	1830	24570	20550	-2.77	12.7834
						10/31/94	1900	24600	20580	-2.77	12.7834
						10/31/94	1930	24630	20610	-2.82	12.8032
						10/31/94	2000	24660	20640	-2.84	12.8132
						10/31/94	2030	24690	20670	-2.76	12.7784
						10/31/94	2100	24720	20700	-2.75	12.7734
						10/31/94	2130	24750	20730	-2.66	12.7337
						10/31/94	2200	24780	20760	-2.67	12.7387
						10/31/94	2230	24810	20790	-2.61	12.7138
						10/31/94	2300	24840	20820	-2.66	12.7337
						10/31/94	2330	24870	20850	-2.65	12.7287
						11/1/94	0	24900	20880	-2.72	12.7585
						11/1/94	30	24930	20910	-2.72	12.7585
						11/1/94	100	24960	20940	-2.62	12.7188
						11/1/94	130	24990	20970	-2.62	12.7188
						11/1/94	200	25020	21000	-2.58	12.6989
						11/1/94	230	25050	21030	-2.60	12.7089
						11/1/94	300	25080	21060	-2.62	12.7188
						11/1/94	330	25110	21090	-2.65	12.7287
						11/1/94	400	25140	21120	-2.69	12.7486
						11/1/94	430	25170	21150	-2.62	12.7188
						11/1/94	500	25200	21180	-2.57	12.6939
						11/1/94	530	25230	21210	-2.57	12.6939
						11/1/94	600	25260	21240	-2.59	12.7039
						11/1/94	630	25290	21270	-2.48	12.6542
						11/1/94	700	25320	21300	-2.33	12.5896
						11/1/94	730	25350	21330	-2.29	12.5747
						11/1/94	800	25380	21360	-2.30	12.5797
						11/1/94	830	25410	21390	-2.14	12.51
						11/1/94	900	25440	21420	-2.19	12.5299
						11/1/94	930	25470	21450	-20.78	20.5796
						11/1/94	1000	25500	21480	-21.56	20.9157
						11/1/94	1030	25530	21510	-21.95	21.0859
						11/1/94	1100	25560	21540	-22.44	21.2984
						11/1/94	1130	25590	21570	-22.62	21.3739
						11/1/94	1200	25620	21600	-17.52	19.1659
						11/1/94	1230	25650	21630	-3.67	13.1702

MEADOWBROOKE SUBDIVISION WELL MS-3

Emery & Garrett Groundwater, Inc.

PUMPING TEST DATA SHEET FOR MONITORING WELL MS-3

PROJECT: Bealeton, Virginia
SUBCONTRACTOR: Leazer Bros., Inc.
PUMPING WELL (S): MS-5 NEW

MONITORING WELL: MS-3
INITIAL WATER LEVEL: 12.36 feet
MAXIMUM DRAWDOWN: 1.61 feet
MEASURING POINT: Top of Casing

	Date	Hour	Minute
Start of Pumping:	10/17/94	12	0
Start of Recovery:	10/20/94	12	0

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/11/94	1800	0	-8280	12.58	21.01	10/20/94	1300	12660	4380	14.27	20.27
10/11/94	1900	60	-8220	12.65	20.98	10/20/94	1400	12720	4440	14.36	20.24
10/11/94	2000	120	-8160	12.65	20.97	10/20/94	1500	12780	4500	14.40	20.22
10/11/94	2100	180	-8100	12.69	20.96	10/20/94	1600	12840	4560	14.45	20.20
10/11/94	2200	240	-8040	12.71	20.95	10/20/94	1700	12900	4620	14.48	20.18
10/11/94	2300	300	-7980	12.76	20.93	10/20/94	1800	12960	4680	14.50	20.17
10/12/94	0	360	-7920	12.79	20.91	10/20/94	1900	13020	4740	14.51	20.17
10/12/94	100	420	-7860	12.80	20.91	10/20/94	2000	13080	4800	14.55	20.15
10/12/94	200	480	-7800	12.81	20.91	10/20/94	2100	13140	4860	14.55	20.15
10/12/94	300	540	-7740	12.83	20.90	10/20/94	2200	13200	4920	14.59	20.14
10/12/94	400	600	-7680	12.83	20.90	10/20/94	2300	13260	4980	14.62	20.12
10/12/94	500	660	-7620	12.84	20.89	10/21/94	0	13320	5040	14.65	20.11
10/12/94	600	720	-7560	12.84	20.89	10/21/94	100	13380	5100	14.65	20.11
10/12/94	700	780	-7500	12.84	20.89	10/21/94	200	13440	5160	14.63	20.12
10/12/94	800	840	-7440	12.84	20.89	10/21/94	300	13500	5220	14.62	20.12
10/12/94	900	900	-7380	12.84	20.89	10/21/94	400	13560	5280	14.57	20.14
10/12/94	1000	960	-7320	12.80	20.91	10/21/94	500	13620	5340	14.54	20.16
10/12/94	1100	1020	-7260	12.73	20.94	10/21/94	600	13680	5400	14.50	20.17
10/12/94	1200	1080	-7200	12.71	20.95	10/21/94	700	13740	5460	14.45	20.20
10/12/94	1300	1140	-7140	12.75	20.93	10/21/94	800	13800	5520	14.43	20.20
10/12/94	1400	1200	-7080	12.79	20.91	10/21/94	900	13860	5580	14.40	20.2166
10/12/94	1500	1260	-7020	12.83	20.90	10/21/94	1000	13920	5640	14.41	20.2143
10/12/94	1600	1320	-6960	12.89	20.87	10/21/94	1100	13980	5700	14.40	20.2178
10/12/94	1700	1380	-6900	12.94	20.85	10/21/94	1200	14040	5760	14.36	20.2341
10/12/94	1800	1440	-6840	12.98	20.83	10/21/94	1300	14100	5820	14.33	20.2458
10/12/94	1900	1500	-6780	13.01	20.82	10/21/94	1400	14160	5880	14.32	20.2505
10/12/94	2000	1560	-6720	13.05	20.80	10/21/94	1500	14220	5940	14.31	20.2551
10/12/94	2100	1620	-6660	13.08	20.79	10/21/94	1600	14280	6000	14.29	20.2656
10/12/94	2200	1680	-6600	13.11	20.78	10/21/94	1700	14340	6060	14.26	20.2784
10/12/94	2300	1740	-6540	13.13	20.77	10/21/94	1800	14400	6120	14.25	20.2831
10/13/94	0	1800	-6480	13.17	20.75	10/21/94	1900	14460	6180	14.23	20.2913
10/13/94	100	1860	-6420	13.19	20.74	10/21/94	2000	14520	6240	14.18	20.3111
10/13/94	200	1920	-6360	13.21	20.73	10/21/94	2100	14580	6300	14.11	20.3414
10/13/94	300	1980	-6300	13.22	20.73	10/21/94	2200	14640	6360	14.05	20.3693
10/13/94	400	2040	-6240	13.23	20.72	10/21/94	2300	14700	6420	13.98	20.4007
10/13/94	500	2100	-6180	13.21	20.73	10/22/94	0	14760	6480	13.92	20.4251
10/13/94	600	2160	-6120	13.24	20.72	10/22/94	100	14820	6540	13.87	20.4449
10/13/94	700	2220	-6060	13.26	20.71	10/22/94	200	14880	6600	13.81	20.4727
10/13/94	800	2280	-6000	13.26	20.71	10/22/94	300	14940	6660	13.74	20.504
10/13/94	900	2340	-5940	13.25	20.71	10/22/94	400	15000	6720	13.66	20.5377
10/13/94	1000	2400	-5880	13.25	20.71	10/22/94	500	15060	6780	13.57	20.577
10/13/94	1100	2460	-5820	13.27	20.71	10/22/94	600	15120	6840	13.48	20.6164
10/13/94	1200	2520	-5760	13.27	20.71	10/22/94	700	15180	6900	13.41	20.6453
10/13/94	1300	2580	-5700	13.28	20.70	10/22/94	800	15240	6960	13.36	20.6684
10/13/94	1400	2640	-5640	13.31	20.69	10/22/94	900	15300	7020	13.33	20.6811
10/13/94	1500	2700	-5580	13.35	20.67	10/22/94	1000	15360	7080	13.39	20.6557
10/13/94	1600	2760	-5520	13.36	20.67	10/22/94	1100	15420	7140	13.47	20.621
10/13/94	1700	2820	-5460	13.41	20.65	10/22/94	1200	15480	7200	13.56	20.5793
10/13/94	1800	2880	-5400	13.45	20.63	10/22/94	1300	15540	7260	13.66	20.5377
10/13/94	1900	2940	-5340	13.47	20.62	10/22/94	1400	15600	7320	13.76	20.4959
10/13/94	2000	3000	-5280	13.51	20.60	10/22/94	1500	15660	7380	13.82	20.4681
10/13/94	2100	3060	-5220	13.55	20.59	10/22/94	1600	15720	7440	13.86	20.4518
10/13/94	2200	3120	-5160	13.56	20.58	10/22/94	1700	15780	7500	13.89	20.4402
10/13/94	2300	3180	-5100	13.59	20.57	10/22/94	1800	15840	7560	13.91	20.4286
10/14/94	0	3240	-5040	13.61	20.56	10/22/94	1900	15900	7620	13.93	20.4216
10/14/94	100	3300	-4980	13.63	20.55	10/22/94	2000	15960	7680	13.96	20.41
10/14/94	200	3360	-4920	13.63	20.55	10/22/94	2100	16020	7740	14.01	20.3844
10/14/94	300	3420	-4860	13.64	20.55	10/22/94	2200	16080	7800	14.07	20.3588
10/14/94	400	3480	-4800	13.65	20.54	10/22/94	2300	16140	7860	14.12	20.3367
10/14/94	500	3540	-4740	13.64	20.55	10/23/94	0	16200	7920	14.21	20.2994

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/14/94	700	3660	-4620	13.64	20.55	10/23/94	200	16320	8040	14.32	20.2505
10/14/94	800	3720	-4560	13.64	20.55	10/23/94	300	16380	8100	14.32	20.254
10/14/94	900	3780	-4500	13.61	20.56	10/23/94	400	16440	8160	14.33	20.2469
10/14/94	1000	3840	-4440	13.56	20.58	10/23/94	500	16500	8220	14.34	20.2446
10/14/94	1100	3900	-4380	13.49	20.61	10/23/94	600	16560	8280	14.32	20.2516
10/14/94	1200	3960	-4320	13.42	20.64	10/23/94	700	16620	8340	14.30	20.261
10/14/94	1300	4020	-4260	13.39	20.65	10/23/94	800	16680	8400	14.29	20.2633
10/14/94	1400	4080	-4200	13.37	20.66	10/23/94	900	16740	8460	14.31	20.2586
10/14/94	1500	4140	-4140	13.34	20.68	10/23/94	1000	16800	8520	14.34	20.2446
10/14/94	1600	4200	-4080	13.36	20.67	10/23/94	1100	16860	8580	14.36	20.2353
10/14/94	1700	4260	-4020	13.36	20.67	10/23/94	1200	16920	8640	14.38	20.2248
10/14/94	1800	4320	-3960	13.38	20.66	10/23/94	1300	16980	8700	14.43	20.2026
10/14/94	1900	4380	-3900	13.39	20.66	10/23/94	1400	17040	8760	14.45	20.1956
10/14/94	2000	4440	-3840	13.37	20.66	10/23/94	1500	17100	8820	14.45	20.1944
10/14/94	2100	4500	-3780	13.35	20.67	10/23/94	1600	17160	8880	14.45	20.1944
10/14/94	2200	4560	-3720	13.29	20.70	10/23/94	1700	17220	8940	14.43	20.2038
10/14/94	2300	4620	-3660	13.23	20.72	10/23/94	1800	17280	9000	14.42	20.2073
10/15/94	0	4680	-3600	13.16	20.76	10/23/94	1900	17340	9060	14.40	20.2189
10/15/94	100	4740	-3540	13.12	20.77	10/23/94	2000	17400	9120	14.39	20.2213
10/15/94	200	4800	-3480	13.10	20.78	10/23/94	2100	17460	9180	14.40	20.2189
10/15/94	300	4860	-3420	13.09	20.78	10/23/94	2200	17520	9240	14.39	20.2213
10/15/94	400	4920	-3360	13.08	20.79	10/23/94	2300	17580	9300	14.41	20.2119
10/15/94	500	4980	-3300	13.10	20.78	10/24/94	0	17640	9360	14.43	20.2026
10/15/94	600	5040	-3240	13.12	20.77	10/24/94	100	17700	9420	14.54	20.1582
10/15/94	700	5100	-3180	13.12	20.77	10/24/94	200	17760	9480	14.55	20.1512
10/15/94	800	5160	-3120	13.09	20.78	10/24/94	300	17820	9540	14.56	20.1465
10/15/94	900	5220	-3060	13.03	20.81	10/24/94	400	17880	9600	14.54	20.157
10/15/94	1000	5280	-3000	12.98	20.83	10/24/94	500	17940	9660	14.52	20.1664
10/15/94	1100	5340	-2940	12.92	20.86	10/24/94	600	18000	9720	14.48	20.1839
10/15/94	1200	5400	-2880	12.87	20.88	10/24/94	700	18060	9780	14.44	20.1991
10/15/94	1300	5460	-2820	12.86	20.89	10/24/94	800	18120	9840	14.43	20.2061
10/15/94	1400	5520	-2760	12.87	20.88	10/24/94	900	18180	9900	14.41	20.2131
10/15/94	1500	5580	-2700	12.89	20.87	10/24/94	1000	18240	9960	14.42	20.2073
10/15/94	1600	5640	-2640	12.90	20.87	10/24/94	1100	18300	10020	14.43	20.2038
10/15/94	1700	5700	-2580	12.93	20.85	10/24/94	1200	18360	10080	14.49	20.178
10/15/94	1800	5760	-2520	12.95	20.84	10/24/94	1300	18420	10140	14.54	20.157
10/15/94	1900	5820	-2460	12.98	20.83	10/24/94	1400	18480	10200	14.56	20.1465
10/15/94	2000	5880	-2400	12.97	20.84	10/24/94	1500	18540	10260	14.53	20.1617
10/15/94	2100	5940	-2340	12.96	20.84	10/24/94	1600	18600	10320	14.46	20.1932
10/15/94	2200	6000	-2280	12.92	20.86	10/24/94	1700	18660	10380	14.35	20.2376
10/15/94	2300	6060	-2220	12.87	20.88	10/24/94	1800	18720	10440	14.25	20.2831
10/16/94	0	6120	-2160	12.83	20.90	10/24/94	1900	18780	10500	14.17	20.3192
10/16/94	100	6180	-2100	12.78	20.92	10/24/94	2000	18840	10560	14.11	20.3449
10/16/94	200	6240	-2040	12.78	20.92	10/24/94	2100	18900	10620	14.04	20.3716
10/16/94	300	6300	-1980	12.78	20.92	10/24/94	2200	18960	10680	14.00	20.3902
10/16/94	400	6360	-1920	12.77	20.92	10/24/94	2300	19020	10740	13.96	20.4077
10/16/94	500	6420	-1860	12.77	20.92	10/25/94	0	19080	10800	13.92	20.4251
10/16/94	600	6480	-1800	12.80	20.91	10/25/94	100	19140	10860	13.92	20.4263
10/16/94	700	6540	-1740	12.81	20.91	10/25/94	200	19200	10920	13.87	20.446
10/16/94	800	6600	-1680	12.80	20.91	10/25/94	300	19260	10980	13.83	20.4634
10/16/94	900	6660	-1620	12.77	20.93	10/25/94	400	19320	11040	13.79	20.4832
10/16/94	1000	6720	-1560	12.75	20.93	10/25/94	500	19380	11100	13.72	20.5133
10/16/94	1100	6780	-1500	12.72	20.95	10/25/94	600	19440	11160	13.63	20.5516
10/16/94	1200	6840	-1440	12.68	20.96	10/25/94	700	19500	11220	13.56	20.5805
10/16/94	1300	6900	-1380	12.66	20.97	10/25/94	800	19560	11280	13.51	20.6048
10/16/94	1400	6960	-1320	12.68	20.96	10/25/94	900	19620	11340	13.50	20.6071
10/16/94	1500	7020	-1260	12.71	20.95	10/25/94	1000	19680	11400	13.55	20.5875
10/16/94	1600	7080	-1200	12.73	20.94	10/25/94	1100	19740	11460	13.59	20.5678
10/16/94	1700	7140	-1140	12.74	20.94	10/25/94	1200	19800	11520	13.63	20.5492
10/16/94	1800	7200	-1080	12.76	20.93	10/25/94	1300	19860	11580	13.72	20.5098
10/16/94	1900	7260	-1020	12.78	20.92	10/25/94	1400	19920	11640	13.79	20.4797
10/16/94	2000	7320	-960	12.80	20.91	10/25/94	1500	19980	11700	13.87	20.446
10/16/94	2100	7380	-900	12.79	20.92	10/25/94	1600	20040	11760	13.92	20.4251
10/16/94	2200	7440	-840	12.77	20.92	10/25/94	1700	20100	11820	13.98	20.3984
10/16/94	2300	7500	-780	12.73	20.94	10/25/94	1800	20160	11880	14.02	20.3833
10/17/94	0	7560	-720	12.70	20.96	10/25/94	1900	20220	11940	14.03	20.3763
10/17/94	100	7620	-660	12.64	20.98	10/25/94	2000	20280	12000	14.07	20.3623
10/17/94	200	7680	-600	12.58	21.00	10/25/94	2100	20340	12060	14.08	20.3542
10/17/94	300	7740	-540	12.50	21.04	10/25/94	2200	20400	12120	14.11	20.3414
10/17/94	400	7800	-480	12.43	21.07	10/25/94	2300	20460	12180	14.15	20.3274
10/17/94	500	7860	-420	12.37	21.10	10/26/94	0	20520	12240	14.17	20.3181
10/17/94	600	7920	-360	12.30	21.13	10/26/94	100	20580	12300	14.20	20.3029
10/17/94	700	7980	-300	12.24	21.15	10/26/94	200	20640	12360	14.24	20.2878

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/17/94	800	8040	-240	12.21	21.17	10/26/94	300	20700	12420	14.26	20.2796
10/17/94	900	8100	-180	12.19	21.17	10/26/94	400	20760	12480	14.25	20.2808
10/17/94	1000	8160	-120	12.17	21.18	10/26/94	500	20820	12540	14.23	20.2913
10/17/94	1100	8220	-60	12.19	21.17	10/26/94	600	20880	12600	14.24	20.2878
10/17/94	1200	8280	0	12.19	21.17	10/26/94	700	20940	12660	14.21	20.2994
10/17/94	1300	8340	60	12.21	21.16	10/26/94	800	21000	12720	14.19	20.3064
10/17/94	1400	8400	120	12.26	21.14	10/26/94	900	21060	12780	14.17	20.3192
10/17/94	1500	8460	180	12.29	21.13	10/26/94	1000	21120	12840	14.15	20.3262
10/17/94	1600	8520	240	12.33	21.11	10/26/94	1100	21180	12900	14.18	20.3134
10/17/94	1700	8580	300	12.38	21.09	10/26/94	1200	21240	12960	14.22	20.2959
10/17/94	1800	8640	360	12.42	21.07	10/26/94	1300	21300	13020	14.23	20.2924
10/17/94	1900	8700	420	12.47	21.05	10/26/94	1400	21360	13080	14.26	20.2784
10/17/94	2000	8760	480	12.56	21.01	10/26/94	1500	21420	13140	14.27	20.2738
10/17/94	2100	8820	540	12.62	20.99	10/26/94	1600	21480	13200	14.29	20.2668
10/17/94	2200	8880	600	12.69	20.96	10/26/94	1700	21540	13260	14.28	20.2714
10/17/94	2300	8940	660	12.72	20.94	10/26/94	1800	21600	13320	14.27	20.2738
10/18/94	0	9000	720	12.72	20.95	10/26/94	1900	21660	13380	14.24	20.2854
10/18/94	100	9060	780	12.71	20.95	10/26/94	2000	21720	13440	14.20	20.3029
10/18/94	200	9120	840	12.67	20.97	10/26/94	2100	21780	13500	14.14	20.3321
10/18/94	300	9180	900	12.64	20.98	10/26/94	2200	21840	13560	14.05	20.367
10/18/94	400	9240	960	12.60	21.00	10/26/94	2300	21900	13620	13.99	20.3949
10/18/94	500	9300	1020	12.55	21.02	10/27/94	0	21960	13680	13.94	20.4181
10/18/94	600	9360	1080	12.36	21.10	10/27/94	100	22020	13740	13.90	20.4356
10/18/94	700	9420	1140	12.29	21.13	10/27/94	200	22080	13800	13.90	20.4321
10/18/94	800	9480	1200	12.29	21.13	10/27/94	300	22140	13860	13.91	20.4309
10/18/94	900	9540	1260	12.32	21.12	10/27/94	400	22200	13920	13.94	20.4158
10/18/94	1000	9600	1320	12.36	21.10	10/27/94	500	22260	13980	13.96	20.41
10/18/94	1100	9660	1380	12.40	21.08	10/27/94	600	22320	14040	13.96	20.4065
10/18/94	1200	9720	1440	12.45	21.06	10/27/94	700	22380	14100	13.96	20.4065
10/18/94	1300	9780	1500	12.48	21.05	10/27/94	800	22440	14160	13.91	20.4297
10/18/94	1400	9840	1560	12.51	21.04	10/27/94	900	22500	14220	13.84	20.4611
10/18/94	1500	9900	1620	12.50	21.04	10/27/94	1000	22560	14280	13.77	20.4924
10/18/94	1600	9960	1680	12.50	21.04	10/27/94	1100	22620	14340	13.71	20.5156
10/18/94	1700	10020	1740	12.47	21.05	10/27/94	1200	22680	14400	13.65	20.5434
10/18/94	1800	10080	1800	12.47	21.05	10/27/94	1300	22740	14460	13.63	20.5516
10/18/94	1900	10140	1860	12.48	21.05	10/27/94	1400	22800	14520	13.65	20.5434
10/18/94	2000	10200	1920	12.55	21.02	10/27/94	1500	22860	14580	13.68	20.5307
10/18/94	2100	10260	1980	12.60	21.00	10/27/94	1600	22920	14640	13.69	20.5238
10/18/94	2200	10320	2040	12.62	20.99	10/27/94	1700	22980	14700	13.72	20.5122
10/18/94	2300	10380	2100	12.65	20.98	10/27/94	1800	23040	14760	13.73	20.5075
10/19/94	0	10440	2160	12.69	20.96	10/27/94	1900	23100	14820	13.75	20.4982
10/19/94	100	10500	2220	12.72	20.95	10/27/94	2000	23160	14880	13.73	20.5087
10/19/94	200	10560	2280	12.71	20.95	10/27/94	2100	23220	14940	13.67	20.533
10/19/94	300	10620	2340	12.69	20.96	10/27/94	2200	23280	15000	13.62	20.5539
10/19/94	400	10680	2400	12.69	20.96	10/27/94	2300	23340	15060	13.57	20.577
10/19/94	500	10740	2460	12.65	20.97	10/28/94	0	23400	15120	13.53	20.5956
10/19/94	600	10800	2520	12.63	20.98	10/28/94	100	23460	15180	13.49	20.6129
10/19/94	700	10860	2580	12.62	20.99	10/28/94	200	23520	15240	13.50	20.606
10/19/94	800	10920	2640	12.62	20.99	10/28/94	300	23580	15300	13.51	20.6013
10/19/94	900	10980	2700	12.67	20.97	10/28/94	400	23640	15360	13.53	20.5921
10/19/94	1000	11040	2760	12.75	20.93	10/28/94	500	23700	15420	13.55	20.5863
10/19/94	1100	11100	2820	12.84	20.89	10/28/94	600	23760	15480	13.56	20.5793
10/19/94	1200	11160	2880	12.93	20.86	10/28/94	700	23820	15540	13.57	20.5747
10/19/94	1300	11220	2940	13.03	20.81	10/28/94	800	23880	15600	13.54	20.5909
10/19/94	1400	11280	3000	13.10	20.78	10/28/94	900	23940	15660	13.51	20.6048
10/19/94	1500	11340	3060	13.17	20.75	10/28/94	1000	24000	15720	13.46	20.6256
10/19/94	1600	11400	3120	13.21	20.73	10/28/94	1100	24060	15780	13.40	20.6487
10/19/94	1700	11460	3180	13.27	20.71	10/28/94	1200	24120	15840	13.37	20.6649
10/19/94	1800	11520	3240	13.32	20.69	10/28/94	1300	24180	15900	13.37	20.6626
10/19/94	1900	11580	3300	13.37	20.66	10/28/94	1400	24240	15960	13.40	20.6487
10/19/94	2000	11640	3360	13.44	20.63	10/28/94	1500	24300	16020	13.43	20.6372
10/19/94	2100	11700	3420	13.50	20.61	10/28/94	1600	24360	16080	13.46	20.6233
10/19/94	2200	11760	3480	13.57	20.58	10/28/94	1700	24420	16140	13.47	20.6187
10/19/94	2300	11820	3540	13.64	20.54	10/28/94	1800	24480	16200	13.51	20.6048
10/20/94	0	11880	3600	13.71	20.52	10/28/94	1900	24540	16260	13.52	20.6002
10/20/94	100	11940	3660	13.76	20.50	10/28/94	2000	24600	16320	13.50	20.6071
10/20/94	200	12000	3720	13.80	20.48	10/28/94	2100	24660	16380	13.48	20.6164
10/20/94	300	12060	3780	13.84	20.46	10/28/94	2200	24720	16440	13.43	20.6372
10/20/94	400	12120	3840	13.86	20.45	10/28/94	2300	24780	16500	13.38	20.658
10/20/94	500	12180	3900	13.87	20.45	10/29/94	0	24840	16560	13.33	20.6788
10/20/94	600	12240	3960	13.90	20.44	10/29/94	100	24900	16620	13.28	20.7007
10/20/94	700	12300	4020	13.94	20.42	10/29/94	200	24960	16680	13.24	20.718
10/20/94	800	12360	4080	13.96	20.41	10/29/94	300	25020	16740	13.20	20.7365

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/20/94	900	12420	4140	13.99	20.40	10/29/94	400	25080	16800	13.15	20.7584
10/20/94	1000	12480	4200	14.04	20.37	10/29/94	500	25140	16860	13.10	20.7791
10/20/94	1100	12540	4260	14.11	20.34	10/29/94	600	25200	16920	13.06	20.7964
10/20/94	1200	12600	4320	14.19	20.31	10/29/94	700	25260	16980	13.01	20.8183
						10/29/94	800	25320	17040	12.98	20.8344
						10/29/94	900	25380	17100	12.94	20.8505
						10/29/94	1000	25440	17160	12.92	20.8562
						10/29/94	1100	25500	17220	12.90	20.8689
						10/29/94	1200	25560	17280	12.90	20.8689
						10/29/94	1300	25620	17340	12.92	20.8597
						10/29/94	1400	25680	17400	12.98	20.8344
						10/29/94	1500	25740	17460	13.04	20.8056
						10/29/94	1600	25800	17520	13.11	20.7768
						10/29/94	1700	25860	17580	13.17	20.7515
						10/29/94	1800	25920	17640	13.21	20.7307
						10/29/94	1900	25980	17700	13.28	20.7042
						10/29/94	2000	26040	17760	13.29	20.6961
						10/29/94	2100	26100	17820	13.30	20.6949
						10/29/94	2200	26160	17880	13.25	20.7146
						10/29/94	2300	26220	17940	13.21	20.733
						10/30/94	0	26280	18000	13.18	20.7445
						10/30/94	100	26340	18060	13.15	20.7572
						10/30/94	200	26400	18120	13.16	20.7526
						10/30/94	300	26460	18180	13.19	20.7399
						10/30/94	400	26520	18240	13.23	20.7226
						10/30/94	500	26580	18300	13.26	20.7099
						10/30/94	600	26640	18360	13.32	20.6869
						10/30/94	700	26700	18420	13.35	20.6718
						10/30/94	800	26760	18480	13.36	20.6661
						10/30/94	900	26820	18540	13.33	20.6788
						10/30/94	1000	26880	18600	13.30	20.6938
						10/30/94	1100	26940	18660	13.27	20.7053
						10/30/94	1200	27000	18720	13.23	20.7226
						10/30/94	1300	27060	18780	13.25	20.7146
						10/30/94	1400	27120	18840	13.28	20.7007
						10/30/94	1500	27180	18900	13.32	20.6846
						10/30/94	1600	27240	18960	13.36	20.6672
						10/30/94	1700	27300	19020	13.39	20.6534
						10/30/94	1800	27360	19080	13.43	20.6383
						10/30/94	1900	27420	19140	13.47	20.6198
						10/30/94	2000	27480	19200	13.48	20.6152
						10/30/94	2100	27540	19260	13.46	20.6233
						10/30/94	2200	27600	19320	13.44	20.6326
						10/30/94	2300	27660	19380	13.42	20.643
						10/31/94	0	27720	19440	13.37	20.6626
						10/31/94	100	27780	19500	13.35	20.6718
						10/31/94	200	27840	19560	13.37	20.6638
						10/31/94	300	27900	19620	13.38	20.658
						10/31/94	400	27960	19680	13.42	20.6406
						10/31/94	500	28020	19740	13.45	20.6291
						10/31/94	600	28080	19800	13.48	20.6175
						10/31/94	700	28140	19860	13.54	20.5886
						10/31/94	800	28200	19920	13.56	20.5817
						10/31/94	900	28260	19980	13.53	20.5921
						10/31/94	1000	28320	20040	13.54	20.5886
						10/31/94	1100	28380	20100	13.57	20.5747
						10/31/94	1200	28440	20160	13.63	20.5516
						10/31/94	1300	28500	20220	13.69	20.5238
						10/31/94	1400	28560	20280	13.76	20.4936
						10/31/94	1500	28620	20340	13.82	20.4704
						10/31/94	1600	28680	20400	13.87	20.4449
						10/31/94	1700	28740	20460	13.93	20.4205
						10/31/94	1800	28800	20520	13.99	20.3949
						10/31/94	1900	28860	20580	14.06	20.3635
						10/31/94	2000	28920	20640	14.13	20.3332
						10/31/94	2100	28980	20700	14.19	20.3064
						10/31/94	2200	29040	20760	14.26	20.2784
						10/31/94	2300	29100	20820	14.31	20.2551
						11/1/94	0	29160	20880	14.37	20.2318
						11/1/94	100	29220	20940	14.38	20.2259
						11/1/94	200	29280	21000	14.41	20.2143
						11/1/94	300	29340	21060	14.41	20.2143
						11/1/94	400	29400	21120	14.41	20.2119

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
						11/1/94	500	29460	21180	14.43	20.2038
						11/1/94	600	29520	21240	14.45	20.1967
						11/1/94	700	29580	21300	14.48	20.1839
						11/1/94	800	29640	21360	14.51	20.171
						11/1/94	900	29700	21420	14.55	20.1535
						11/1/94	1000	29760	21480	14.54	20.157
						11/1/94	1100	29820	21540	14.50	20.1722

WELL MS-5 OLD

Emery & Garrett Groundwater, Inc.

PUMPING TEST DATA SHEET

PROJECT: Bealeton, Virginia
SUBCONTRACTOR: Leazer Bros., Inc.
PUMPING WELL (S): MS-5 NEW

MONITORING WELL: MS-5 OLD
STATIC WATER LEVEL: 33.57 feet
MAXIMUM DRAWDOWN:
MEASURING POINT: Top of Casing

	Date	Hour	Minute
Start of Pumping:	10/17/94	12	0
Start of Recovery:	10/20/94	12	0

PUMPING DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
10/11/94	1900	0	-8220	33.57	46.22
10/11/94	1930	30	-8190	33.58	46.21
10/11/94	2000	0	-8160	33.59	46.2
10/11/94	2030	30	-8130	33.6	46.19
10/11/94	2100	0	-8100	33.6	46.19
10/11/94	2130	30	-8070	33.6	46.19
10/11/94	2200	0	-8040	33.61	46.18
10/11/94	2230	30	-8010	33.62	46.17
10/11/94	2300	0	-7980	33.62	46.17
10/11/94	2330	30	-7950	33.62	46.17
10/12/94	0	0	-7920	33.62	46.17
10/12/94	30	30	-7890	33.64	46.15
10/12/94	100	0	-7860	33.65	46.14
10/12/94	130	30	-7830	33.67	46.12
10/12/94	200	0	-7800	33.68	46.11
10/12/94	230	30	-7770	33.69	46.1
10/12/94	300	0	-7740	33.71	46.08
10/12/94	330	30	-7710	33.73	46.06
10/12/94	400	0	-7680	33.74	46.05
10/12/94	430	30	-7650	33.76	46.03
10/12/94	500	0	-7620	33.77	46.02
10/12/94	530	30	-7590	33.78	46.01
10/12/94	600	0	-7560	33.79	46
10/12/94	630	30	-7530	33.8	45.99
10/12/94	700	0	-7500	33.8	45.99
10/12/94	730	30	-7470	33.82	45.97
10/12/94	800	0	-7440	33.82	45.97
10/12/94	830	30	-7410	33.82	45.97
10/12/94	900	0	-7380	33.83	45.96
10/12/94	930	30	-7350	33.82	45.97
10/12/94	1000	0	-7320	33.81	45.98
10/12/94	1030	30	-7290	33.79	46
10/12/94	1100	0	-7260	33.77	46.02
10/12/94	1130	30	-7230	33.76	46.03
10/12/94	1200	0	-7200	33.75	46.04
10/12/94	1230	30	-7170	33.75	46.04
10/12/94	1300	0	-7140	33.75	46.04
10/12/94	1330	30	-7110	33.76	46.03
10/12/94	1400	0	-7080	33.55	46.24
10/12/94	1430	30	-7050	33.61	46.18
10/12/94	1500	0	-7020	33.85	45.94
10/12/94	1530	30	-6990	33.89	45.9
10/12/94	1600	0	-6960	33.95	45.84
10/12/94	1630	30	-6930	33.97	45.82
10/12/94	1700	0	-6900	33.98	45.81
10/12/94	1730	30	-6870	34	45.79
10/12/94	1800	0	-6840	34.02	45.77
10/12/94	1830	30	-6810	34.02	45.77
10/12/94	1900	0	-6780	34.03	45.76
10/12/94	1930	30	-6750	34.04	45.75
10/12/94	2000	0	-6720	34.05	45.74
10/12/94	2030	30	-6690	34.06	45.73
10/12/94	2100	0	-6660	34.07	45.72
10/12/94	2130	30	-6630	34.08	45.71
10/12/94	2200	0	-6600	34.08	45.71
10/12/94	2230	30	-6570	34.08	45.71
10/12/94	2300	0	-6540	34.09	45.7
10/12/94	2330	30	-6510	34.1	45.69
10/13/94	0	0	-6480	34.11	45.68
10/13/94	30	30	-6450	34.11	45.68
10/13/94	100	0	-6420	34.12	45.67

RECOVERY DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
10/20/94	12	1	4321	100.08	
10/20/94	12	3	4323	96.1	
10/20/94	12	4	4324	92.98	
10/20/94	12	5	4325	89.91	
10/20/94	12	8	4328	81.05	
10/20/94	12	10	4330	76.45	
10/20/94	12	15	4335	69.55	
10/20/94	12	20	4340	65.95	
10/20/94	12	25	4345	63.65	
10/20/94	12	30	4350	62.3	
10/20/94	12	40	4360	60.3	
10/20/94	12	50	4370	58.98	
10/20/94	13	0	4380	57.9	
10/20/94	13	10	4390	56.95	
10/20/94	13	20	4400	56.2	
10/20/94	13	30	4410	55.2	
10/20/94	1400	0	4440	54.3	25.49
10/20/94	1430	30	4470	53.1	26.69
10/20/94	1500	0	4500	52.15	27.64
10/20/94	1530	30	4530	51.31	28.48
10/20/94	1600	0	4560	50.63	29.16
10/20/94	1630	30	4590	49.98	29.81
10/20/94	1700	0	4620	49.43	30.36
10/20/94	1730	30	4650	48.93	30.86
10/20/94	1800	0	4680	48.47	31.32
10/20/94	1830	30	4710	48.02	31.77
10/20/94	1900	0	4740	47.65	32.14
10/20/94	1930	30	4770	47.31	32.48
10/20/94	2000	0	4800	46.97	32.82
10/20/94	2030	30	4830	46.64	33.15
10/20/94	2100	0	4860	46.35	33.44
10/20/94	2130	30	4890	46.1	33.69
10/20/94	2200	0	4920	45.86	33.93
10/20/94	2230	30	4950	45.62	34.17
10/20/94	2300	0	4980	45.4	34.39
10/20/94	2330	30	5010	45.17	34.62
10/21/94	0	0	5040	44.96	34.83
10/21/94	30	30	5070	44.77	35.02
10/21/94	100	0	5100	44.58	35.21
10/21/94	130	30	5130	44.39	35.4
10/21/94	200	0	5160	44.21	35.58
10/21/94	230	30	5190	44.05	35.74
10/21/94	300	0	5220	43.88	35.91
10/21/94	330	30	5250	43.71	36.08
10/21/94	400	0	5280	43.53	36.26
10/21/94	430	30	5310	43.37	36.42
10/21/94	500	0	5340	43.2	36.59
10/21/94	530	30	5370	43.05	36.74
10/21/94	600	0	5400	42.9	36.89
10/21/94	630	30	5430	42.76	37.03
10/21/94	700	0	5460	42.63	37.16
10/21/94	730	30	5490	42.51	37.28
10/21/94	800	0	5520	42.39	37.4
10/21/94	830	30	5550	42.29	37.5
10/21/94	900	0	5580	42.19	37.6
10/21/94	930	30	5598	41.76	37.7
10/21/94	1000	0	5610	42.09	37.79
10/21/94	1030	30	5640	42	37.9
10/21/94	1100	0	5670	41.89	37.99
10/21/94	1130	30	5700	41.8	38.08
10/21/94	1200	0	5730	41.71	38.16

PUMPING DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
10/13/94	130	30	-6390	34.12	45.67
10/13/94	200	0	-6360	34.13	45.66
10/13/94	230	30	-6330	34.14	45.65
10/13/94	300	0	-6300	34.15	45.64
10/13/94	330	30	-6270	34.16	45.63
10/13/94	400	0	-6240	34.17	45.62
10/13/94	430	30	-6210	34.19	45.6
10/13/94	500	0	-6180	34.2	45.59
10/13/94	530	30	-6150	34.22	45.57
10/13/94	600	0	-6120	34.22	45.57
10/13/94	630	30	-6090	34.23	45.56
10/13/94	700	0	-6060	34.25	45.54
10/13/94	730	30	-6030	34.26	45.53
10/13/94	800	0	-6000	34.28	45.51
10/13/94	830	30	-5970	34.28	45.51
10/13/94	900	0	-5940	34.28	45.51
10/13/94	930	30	-5910	34.29	45.5
10/13/94	1000	0	-5880	34.3	45.49
10/13/94	1030	30	-5850	34.3	45.49
10/13/94	1100	0	-5820	34.31	45.48
10/13/94	1130	30	-5790	34.31	45.48
10/13/94	1200	0	-5760	34.31	45.48
10/13/94	1230	30	-5730	34.32	45.47
10/13/94	1300	0	-5700	34.32	45.47
10/13/94	1330	30	-5670	34.33	45.46
10/13/94	1400	0	-5640	34.34	45.45
10/13/94	1430	30	-5610	34.34	45.45
10/13/94	1500	0	-5580	34.34	45.45
10/13/94	1530	30	-5550	34.34	45.45
10/13/94	1600	0	-5520	34.35	45.44
10/13/94	1630	30	-5490	34.36	45.43
10/13/94	1700	0	-5460	34.37	45.42
10/13/94	1730	30	-5430	34.38	45.41
10/13/94	1800	0	-5400	34.4	45.39
10/13/94	1830	30	-5370	34.41	45.38
10/13/94	1900	0	-5340	34.42	45.37
10/13/94	1930	30	-5310	34.43	45.36
10/13/94	2000	0	-5280	34.44	45.35
10/13/94	2030	30	-5250	34.46	45.33
10/13/94	2100	0	-5220	34.47	45.32
10/13/94	2130	30	-5190	34.47	45.32
10/13/94	2200	0	-5160	34.48	45.31
10/13/94	2230	30	-5130	34.48	45.31
10/13/94	2300	0	-5100	34.49	45.3
10/13/94	2330	30	-5070	34.49	45.3
10/14/94	0	0	-5040	34.49	45.3
10/14/94	30	30	-5010	34.5	45.29
10/14/94	100	0	-4980	34.51	45.28
10/14/94	130	30	-4950	34.5	45.29
10/14/94	200	0	-4920	34.5	45.29
10/14/94	230	30	-4890	34.51	45.28
10/14/94	300	0	-4860	34.51	45.28
10/14/94	330	30	-4830	34.53	45.26
10/14/94	400	0	-4800	34.54	45.25
10/14/94	430	30	-4770	34.55	45.24
10/14/94	500	0	-4740	34.56	45.23
10/14/94	530	30	-4710	34.57	45.22
10/14/94	600	0	-4680	34.58	45.21
10/14/94	630	30	-4650	34.59	45.2
10/14/94	700	0	-4620	34.61	45.18
10/14/94	730	30	-4590	34.62	45.17
10/14/94	800	0	-4560	34.62	45.17
10/14/94	830	30	-4530	34.63	45.16
10/14/94	900	0	-4500	34.63	45.16
10/14/94	930	30	-4470	34.62	45.17
10/14/94	1000	0	-4440	34.61	45.18
10/14/94	1030	30	-4410	34.59	45.2
10/14/94	1100	0	-4380	34.58	45.21
10/14/94	1130	30	-4350	34.55	45.24
10/14/94	1200	0	-4320	34.53	45.26
10/14/94	1230	30	-4290	34.51	45.28
10/14/94	1300	0	-4260	34.5	45.29
10/14/94	1330	30	-4230	34.48	45.31

RECOVERY DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
10/21/94	1230	30	5760	41.63	38.26
10/21/94	1300	0	5790	41.53	38.35
10/21/94	1330	30	5820	41.44	38.45
10/21/94	1400	0	5850	41.34	38.53
10/21/94	1430	30	5880	41.26	38.61
10/21/94	1500	0	5910	41.18	38.69
10/21/94	1530	30	5940	41.1	38.77
10/21/94	1600	0	5970	41.02	38.86
10/21/94	1630	30	6000	40.93	38.93
10/21/94	1700	0	6030	40.86	39
10/21/94	1730	30	6060	40.79	39.07
10/21/94	1800	0	6090	40.72	39.15
10/21/94	1830	30	6120	40.64	39.22
10/21/94	1900	0	6150	40.57	39.29
10/21/94	1930	30	6180	40.5	39.36
10/21/94	2000	0	6210	40.43	39.44
10/21/94	2030	30	6240	40.35	39.5
10/21/94	2100	0	6270	40.29	39.57
10/21/94	2130	30	6300	40.22	39.64
10/21/94	2200	0	6330	40.15	39.7
10/21/94	2230	30	6360	40.09	39.78
10/21/94	2300	0	6390	40.01	39.84
10/21/94	2330	30	6420	39.95	39.9
10/22/94	0	0	6450	39.89	39.96
10/22/94	30	30	6480	39.83	40.02
10/22/94	100	0	6510	39.77	40.09
10/22/94	130	30	6540	39.7	40.16
10/22/94	200	0	6570	39.63	40.22
10/22/94	230	30	6600	39.57	40.29
10/22/94	300	0	6630	39.5	40.36
10/22/94	330	30	6660	39.43	40.43
10/22/94	400	0	6690	39.36	40.49
10/22/94	430	30	6720	39.3	40.56
10/22/94	500	0	6750	39.23	40.63
10/22/94	530	30	6780	39.16	40.71
10/22/94	600	0	6810	39.08	40.78
10/22/94	630	30	6840	39.01	40.85
10/22/94	700	0	6870	38.94	40.92
10/22/94	730	30	6900	38.87	40.99
10/22/94	800	0	6930	38.8	41.05
10/22/94	830	30	6960	38.74	41.11
10/22/94	900	0	6990	38.68	41.16
10/22/94	930	30	7020	38.63	41.19
10/22/94	1000	0	7050	38.6	41.22
10/22/94	1030	30	7080	38.57	41.23
10/22/94	1100	0	7110	38.56	41.25
10/22/94	1130	30	7140	38.54	41.25
10/22/94	1200	0	7170	38.54	41.26
10/22/94	1230	30	7200	38.53	41.26
10/22/94	1300	0	7230	38.53	41.26
10/22/94	1330	30	7260	38.53	41.26
10/22/94	1400	0	7290	38.53	41.27
10/22/94	1430	30	7320	38.52	41.28
10/22/94	1500	0	7350	38.51	41.29
10/22/94	1530	30	7380	38.5	41.32
10/22/94	1600	0	7410	38.47	41.34
10/22/94	1630	30	7440	38.45	41.36
10/22/94	1700	0	7470	38.43	41.38
10/22/94	1730	30	7500	38.41	41.41
10/22/94	1800	0	7530	38.38	41.44
10/22/94	1830	30	7560	38.35	41.46
10/22/94	1900	0	7590	38.33	41.48
10/22/94	1930	30	7620	38.31	41.5
10/22/94	2000	0	7650	38.29	41.53
10/22/94	2030	30	7680	38.26	41.53
10/22/94	2100	0	7710	38.26	41.55
10/22/94	2130	30	7740	38.24	41.55
10/22/94	2200	0	7770	38.24	41.55
10/22/94	2230	30	7800	38.24	41.55
10/22/94	2300	0	7830	38.24	41.55
10/22/94	2330	30	7860	38.24	41.55
10/23/94	0	0	7890	38.24	41.55
10/23/94	30	30	7920	38.24	41.56

PUMPING DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
10/14/94	1400	0	-4200	34.47	45.32
10/14/94	1430	30	-4170	34.46	45.33
10/14/94	1500	0	-4140	58.93	20.86
10/14/94	1530	30	-4110	37.59	42.2
10/14/94	1600	0	-4080	36.05	43.74
10/14/94	1630	30	-4050	35.61	44.18
10/14/94	1700	0	-4020	35.42	44.37
10/14/94	1730	30	-3990	35.3	44.49
10/14/94	1800	0	-3960	35.22	44.57
10/14/94	1830	30	-3930	35.16	44.63
10/14/94	1900	0	-3900	35.1	44.69
10/14/94	1930	30	-3870	35.07	44.72
10/14/94	2000	0	-3840	35.04	44.75
10/14/94	2030	30	-3810	35.01	44.78
10/14/94	2100	0	-3780	34.98	44.81
10/14/94	2130	30	-3750	34.94	44.85
10/14/94	2200	0	-3720	34.92	44.87
10/14/94	2230	30	-3690	34.89	44.9
10/14/94	2300	0	-3660	34.86	44.93
10/14/94	2330	30	-3630	34.81	44.98
10/15/94	0	0	-3600	34.76	45.03
10/15/94	30	30	-3570	34.73	45.06
10/15/94	100	0	-3540	34.69	45.1
10/15/94	130	30	-3510	34.66	45.13
10/15/94	200	0	-3480	34.63	45.16
10/15/94	230	30	-3450	34.61	45.18
10/15/94	300	0	-3420	34.58	45.21
10/15/94	330	30	-3390	34.56	45.23
10/15/94	400	0	-3360	34.56	45.23
10/15/94	430	30	-3330	34.55	45.24
10/15/94	500	0	-3300	34.56	45.23
10/15/94	530	30	-3270	34.56	45.23
10/15/94	600	0	-3240	34.57	45.22
10/15/94	630	30	-3210	34.58	45.21
10/15/94	700	0	-3180	34.57	45.22
10/15/94	730	30	-3150	34.57	45.22
10/15/94	800	0	-3120	34.56	45.23
10/15/94	830	30	-3090	50.9	28.89
10/15/94	900	0	-3060	35.55	44.24
10/15/94	930	30	-3030	37.95	41.84
10/15/94	1000	0	-3000	77.968	1.822
10/15/94	1030	30	-2970	79.474	0.316
10/15/94	1100	0	-2940	79.466	0.324
10/15/94	1130	30	-2910	79.449	0.341
10/15/94	1200	0	-2880	47.74	32.05
10/15/94	1230	30	-2850	42.47	37.32
10/15/94	1300	0	-2820	40.6	39.19
10/15/94	1330	30	-2790	39.5	40.29
10/15/94	1400	0	-2760	38.8	40.99
10/15/94	1430	30	-2730	38.26	41.53
10/15/94	1500	0	-2700	37.85	41.94
10/15/94	1530	30	-2670	37.52	42.27
10/15/94	1600	0	-2640	37.26	42.53
10/15/94	1630	30	-2610	37.03	42.76
10/15/94	1700	0	-2580	36.85	42.94
10/15/94	1730	30	-2550	36.67	43.12
10/15/94	1800	0	-2520	36.53	43.26
10/15/94	1830	30	-2490	36.4	43.39
10/15/94	1900	0	-2460	36.29	43.5
10/15/94	1930	30	-2430	36.19	43.6
10/15/94	2000	0	-2400	36.09	43.7
10/15/94	2030	30	-2370	36	43.79
10/15/94	2100	0	-2340	35.91	43.88
10/15/94	2130	30	-2310	35.82	43.97
10/15/94	2200	0	-2280	35.74	44.05
10/15/94	2230	30	-2250	35.67	44.12
10/15/94	2300	0	-2220	35.59	44.2
10/15/94	2330	30	-2190	35.53	44.26
10/16/94	0	0	-2160	35.45	44.34
10/16/94	30	30	-2130	35.39	44.4
10/16/94	100	0	-2100	35.32	44.47
10/16/94	130	30	-2070	35.25	44.54
10/16/94	200	0	-2040	35.2	44.59

RECOVERY DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
10/23/94	100	0	7950	38.23	41.56
10/23/94	130	30	7980	38.23	41.56
10/23/94	200	0	8010	38.23	41.57
10/23/94	230	30	8040	38.22	41.59
10/23/94	300	0	8070	38.2	41.6
10/23/94	330	30	8100	38.19	41.62
10/23/94	400	0	8130	38.17	41.63
10/23/94	430	30	8160	38.16	41.66
10/23/94	500	0	8190	38.13	41.68
10/23/94	530	30	8220	38.11	41.7
10/23/94	600	0	8250	38.09	41.73
10/23/94	630	30	8280	38.06	41.75
10/23/94	700	0	8310	38.04	41.78
10/23/94	730	30	8340	38.01	41.8
10/23/94	800	0	8370	37.99	41.83
10/23/94	830	30	8400	37.96	41.84
10/23/94	900	0	8430	37.95	41.87
10/23/94	930	30	8460	37.92	41.87
10/23/94	1000	0	8490	37.92	41.89
10/23/94	1030	30	8520	37.9	41.9
10/23/94	1100	0	8550	37.89	41.91
10/23/94	1130	30	8580	37.88	41.91
10/23/94	1200	0	8610	37.88	41.92
10/23/94	1230	30	8640	37.87	41.92
10/23/94	1300	0	8670	37.87	41.92
10/23/94	1330	30	8700	37.87	41.93
10/23/94	1400	0	8730	37.86	41.93
10/23/94	1430	30	8760	37.86	41.94
10/23/94	1500	0	8790	37.85	41.95
10/23/94	1530	30	8820	37.84	41.97
10/23/94	1600	0	8850	37.82	41.98
10/23/94	1630	30	8880	37.81	42
10/23/94	1700	0	8910	37.79	42.02
10/23/94	1730	30	8940	37.77	42.04
10/23/94	1800	0	8970	37.75	42.06
10/23/94	1830	30	9000	37.73	42.08
10/23/94	1900	0	9030	37.71	42.11
10/23/94	1930	30	9060	37.68	42.12
10/23/94	2000	0	9090	37.67	42.14
10/23/94	2030	30	9120	37.65	42.16
10/23/94	2100	0	9150	37.63	42.18
10/23/94	2130	30	9180	37.61	42.21
10/23/94	2200	0	9210	37.58	42.22
10/23/94	2230	30	9240	37.57	42.23
10/23/94	2300	0	9270	37.56	42.24
10/23/94	2330	30	9300	37.55	42.24
10/24/94	0	0	9330	37.55	42.24
10/24/94	30	30	9360	37.55	42.24
10/24/94	100	0	9390	37.55	42.24
10/24/94	130	30	9420	37.55	42.25
10/24/94	200	0	9450	37.54	42.26
10/24/94	230	30	9480	37.53	42.26
10/24/94	300	0	9510	37.53	42.27
10/24/94	330	30	9540	37.52	42.28
10/24/94	400	0	9570	37.51	42.29
10/24/94	430	30	9600	37.5	42.31
10/24/94	500	0	9630	37.48	42.33
10/24/94	530	30	9660	37.46	42.36
10/24/94	600	0	9690	37.43	42.38
10/24/94	630	30	9720	37.41	42.41
10/24/94	700	0	9750	37.38	42.43
10/24/94	730	30	9780	37.36	42.45
10/24/94	800	0	9810	37.34	42.48
10/24/94	830	30	9840	37.31	42.51
10/24/94	900	0	9870	37.28	42.53
10/24/94	930	30	9900	37.26	42.54
10/24/94	1000	0	9930	37.25	42.55
10/24/94	1030	30	9960	37.24	42.55
10/24/94	1100	0	9990	37.24	42.56
10/24/94	1130	30	10020	37.23	42.55
10/24/94	1200	0	10050	37.24	42.55
10/24/94	1230	30	10080	37.24	42.54
10/24/94	1300	0	10110	37.25	42.52

PUMPING DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
10/16/94	230	30	-2010	35.14	44.65
10/16/94	300	0	-1980	35.09	44.7
10/16/94	330	30	-1950	35.04	44.75
10/16/94	400	0	-1920	35	44.79
10/16/94	430	30	-1890	34.97	44.82
10/16/94	500	0	-1860	34.95	44.84
10/16/94	530	30	-1830	34.93	44.86
10/16/94	600	0	-1800	34.92	44.87
10/16/94	630	30	-1770	34.89	44.9
10/16/94	700	0	-1740	34.87	44.92
10/16/94	730	30	-1710	34.84	44.95
10/16/94	800	0	-1680	34.82	44.97
10/16/94	830	30	-1650	34.8	44.99
10/16/94	900	0	-1620	34.77	45.02
10/16/94	930	30	-1590	34.74	45.05
10/16/94	1000	0	-1560	34.72	45.07
10/16/94	1030	30	-1530	34.68	45.11
10/16/94	1100	0	-1500	34.65	45.14
10/16/94	1130	30	-1470	34.62	45.17
10/16/94	1200	0	-1440	34.58	45.21
10/16/94	1230	30	-1410	34.55	45.24
10/16/94	1300	0	-1380	34.52	45.27
10/16/94	1330	30	-1350	34.51	45.28
10/16/94	1400	0	-1320	34.49	45.3
10/16/94	1430	30	-1290	34.47	45.32
10/16/94	1500	0	-1260	34.46	45.33
10/16/94	1530	30	-1230	34.44	45.35
10/16/94	1600	0	-1200	34.43	45.36
10/16/94	1630	30	-1170	34.42	45.37
10/16/94	1700	0	-1140	34.41	45.38
10/16/94	1730	30	-1110	34.41	45.38
10/16/94	1800	0	-1080	34.4	45.39
10/16/94	1830	30	-1050	34.4	45.39
10/16/94	1900	0	-1020	34.41	45.38
10/16/94	1930	30	-990	34.41	45.38
10/16/94	2000	0	-960	34.41	45.38
10/16/94	2030	30	-930	34.4	45.39
10/16/94	2100	0	-900	34.39	45.4
10/16/94	2130	30	-870	34.39	45.4
10/16/94	2200	0	-840	34.37	45.42
10/16/94	2230	30	-810	34.36	45.43
10/16/94	2300	0	-780	34.35	45.44
10/16/94	2330	30	-750	34.33	45.46
10/17/94	0	0	-720	34.3	45.49
10/17/94	30	30	-690	34.28	45.51
10/17/94	100	0	-660	34.25	45.54
10/17/94	130	30	-630	34.22	45.57
10/17/94	200	0	-600	34.19	45.6
10/17/94	230	30	-570	34.16	45.63
10/17/94	300	0	-540	34.13	45.66
10/17/94	330	30	-510	34.1	45.69
10/17/94	400	0	-480	34.07	45.72
10/17/94	430	30	-450	34.04	45.75
10/17/94	500	0	-420	34.02	45.77
10/17/94	530	30	-390	33.99	45.8
10/17/94	600	0	-360	33.97	45.82
10/17/94	630	30	-330	33.94	45.85
10/17/94	700	0	-300	33.93	45.86
10/17/94	730	30	-270	33.92	45.87
10/17/94	800	0	-240	33.91	45.88
10/17/94	830	30	-210	33.89	45.9
10/17/94	900	0	-180	33.88	45.91
10/17/94	930	30	-150	33.87	45.92
10/17/94	1000	0	-120	33.86	45.93
10/17/94	1030	30	-90	33.86	45.93
10/17/94	1100	0	-60	33.87	45.92
10/17/94	1130	30	-30	33.87	45.92
10/17/94	1200	0	0	36.57	43.22
10/17/94	12	1	1	37.55	
10/17/94	12	2	2	42.72	
10/17/94	12	3	3	46.1	
10/17/94	12	4	4	48.95	
10/17/94	12	5	5	51.52	

RECOVERY DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
10/24/94	1330	30	10140	37.27	42.51
10/24/94	1400	0	10170	37.28	42.51
10/24/94	1430	30	10200	37.28	42.51
10/24/94	1500	0	10230	37.28	42.52
10/24/94	1530	30	10260	37.27	42.54
10/24/94	1600	0	10290	37.25	42.57
10/24/94	1630	30	10320	37.22	42.6
10/24/94	1700	0	10350	37.19	42.63
10/24/94	1730	30	10380	37.16	42.67
10/24/94	1800	0	10410	37.12	42.71
10/24/94	1830	30	10440	37.08	42.74
10/24/94	1900	0	10470	37.05	42.78
10/24/94	1930	30	10500	37.01	42.81
10/24/94	2000	0	10530	36.98	42.84
10/24/94	2030	30	10560	36.95	42.88
10/24/94	2100	0	10590	36.91	42.91
10/24/94	2130	30	10620	36.88	42.94
10/24/94	2200	0	10650	36.85	42.97
10/24/94	2230	30	10680	36.82	42.99
10/24/94	2300	0	10710	36.8	43.01
10/24/94	2330	30	10740	36.78	43.03
10/25/94	0	0	10770	36.76	43.03
10/25/94	30	30	10800	36.76	43.06
10/25/94	100	0	10830	36.73	43.06
10/25/94	130	30	10860	36.73	43.08
10/25/94	200	0	10890	36.71	43.1
10/25/94	230	30	10920	36.69	43.12
10/25/94	300	0	10950	36.67	43.13
10/25/94	330	30	10980	36.66	43.15
10/25/94	400	0	11010	36.64	43.17
10/25/94	430	30	11040	36.62	43.2
10/25/94	500	0	11070	36.59	43.23
10/25/94	530	30	11100	36.56	43.27
10/25/94	600	0	11130	36.52	43.31
10/25/94	630	30	11160	36.48	43.35
10/25/94	700	0	11190	36.44	43.39
10/25/94	730	30	11220	36.4	43.43
10/25/94	800	0	11250	36.36	43.46
10/25/94	830	30	11280	36.33	43.48
10/25/94	900	0	11310	36.31	43.51
10/25/94	930	30	11340	36.28	43.53
10/25/94	1000	0	11370	36.26	43.53
10/25/94	1030	30	11400	36.26	43.53
10/25/94	1100	0	11430	36.26	43.53
10/25/94	1130	30	11460	36.26	43.52
10/25/94	1200	0	11490	36.27	43.53
10/25/94	1230	30	11520	36.26	43.52
10/25/94	1300	0	11550	36.27	43.5
10/25/94	1330	30	11580	36.29	43.48
10/25/94	1400	0	11610	36.31	43.47
10/25/94	1430	30	11640	36.32	43.46
10/25/94	1500	0	11670	36.33	43.45
10/25/94	1530	30	11700	36.34	43.44
10/25/94	1600	0	11730	36.35	43.44
10/25/94	1630	30	11760	36.35	43.43
10/25/94	1700	0	11790	36.36	43.44
10/25/94	1730	30	11820	36.35	43.44
10/25/94	1800	0	11850	36.35	43.44
10/25/94	1830	30	11880	36.35	43.45
10/25/94	1900	0	11910	36.34	43.45
10/25/94	1930	30	11940	36.34	43.46
10/25/94	2000	0	11970	36.33	43.47
10/25/94	2030	30	12000	36.32	43.47
10/25/94	2100	0	12030	36.32	43.48
10/25/94	2130	30	12060	36.31	43.48
10/25/94	2200	0	12090	36.31	43.48
10/25/94	2230	30	12120	36.31	43.48
10/25/94	2300	0	12150	36.31	43.49
10/25/94	2330	30	12210	36.31	43.48
10/26/94	0	0	12240	36.3	43.49
10/26/94	30	30	12270	36.31	43.48
10/26/94	100	0	12300	36.32	43.47
10/26/94	130	30	12330	36.32	43.47

PUMPING DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
10/17/94	12	8	8	57.2	6.484
10/17/94	12	10	10	59.63	
10/17/94	12	15	15	64.88	
10/17/94	12	20	20	68.75	0.776
10/17/94	12	25	25	71.25	
10/17/94	12	35	35	75.02	
10/17/94	12	45	45	77.32	
10/17/94	13	5	65	79.8	
10/17/94	13	15	75	80.53	
10/17/94	13	25	85	81.31	
10/17/94	13	35	95	81.98	
10/17/94	13	45	105	82.91	
10/17/94	13	55	115	83.12	
10/17/94	14	5	125	83.67	
10/17/94	14	15	135	84.12	
10/17/94	14	35	155	85.08	
10/17/94	14	55	175	85.92	
10/17/94	15	15	195	86.76	
10/17/94	15	35	215	87.89	
10/17/94	15	55	235	88.55	
10/17/94	16	15	255	89.52	
10/17/94	16	45	285	89.78	
10/18/94	9	5	1265	98.08	
10/19/94	7	50	2630	100.57	
10/19/94	18	49	3289	101.38	
10/20/94	11	58	4318	102.26	

RECOVERY DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
10/26/94	200	0	12360	36.35	43.44
10/26/94	230	30	12390	36.35	43.44
10/26/94	300	0	12420	36.35	43.44
10/26/94	330	30	12450	36.35	43.44
10/26/94	400	0	12480	36.35	43.44
10/26/94	430	30	12510	36.35	43.44
10/26/94	500	0	12540	36.33	43.46
10/26/94	530	30	12570	36.33	43.46
10/26/94	600	0	12600	36.33	43.46
10/26/94	630	30	12630	36.33	43.46
10/26/94	700	0	12660	36.32	43.47
10/26/94	730	30	12690	36.3	43.49
10/26/94	800	0	12720	36.28	43.51
10/26/94	830	30	12750	36.27	43.52
10/26/94	900	0	12780	36.26	43.53
10/26/94	930	30	12810	36.26	43.53
10/26/94	1000	0	12840	36.25	43.54
10/26/94	1030	30	12870	36.23	43.56
10/26/94	1100	0	12900	36.24	43.55
10/26/94	1130	30	12930	36.25	43.54
10/26/94	1200	0	12960	36.25	43.54
10/26/94	1230	30	12990	36.25	43.54
10/26/94	1300	0	13020	36.26	43.53
10/26/94	1330	30	13050	36.26	43.53
10/26/94	1400	0	13080	36.26	43.53
10/26/94	1430	30	13110	36.28	43.51
10/26/94	1500	0	13140	36.28	43.51
10/26/94	1530	30	13170	36.28	43.51
10/26/94	1600	0	13200	36.29	43.5
10/26/94	1630	30	13230	36.29	43.5
10/26/94	1700	0	13260	36.28	43.51
10/26/94	1730	30	13290	36.28	43.51
10/26/94	1800	0	13320	36.27	43.52
10/26/94	1830	30	13350	36.27	43.52
10/26/94	1900	0	13380	36.26	43.53
10/26/94	1930	30	13410	36.24	43.55
10/26/94	2000	0	13440	36.22	43.57
10/26/94	2030	30	13470	36.2	43.59
10/26/94	2100	0	13500	36.17	43.62
10/26/94	2130	30	13530	36.13	43.66
10/26/94	2200	0	13560	36.1	43.69
10/26/94	2230	30	13590	36.07	43.72
10/26/94	2300	0	13620	36.05	43.74
10/26/94	2330	30	13650	36.03	43.76
10/27/94	0	0	13680	36	43.79
10/27/94	30	30	13710	35.99	43.8
10/27/94	100	0	13740	35.97	43.82
10/27/94	130	30	13770	35.97	43.82
10/27/94	200	0	13800	35.97	43.82
10/27/94	230	30	13830	35.97	43.82
10/27/94	300	0	13860	35.97	43.82
10/27/94	330	30	13890	35.99	43.8
10/27/94	400	0	13920	35.99	43.8
10/27/94	430	30	13950	35.99	43.8
10/27/94	500	0	13980	35.99	43.8
10/27/94	530	30	14010	36	43.79
10/27/94	600	0	14040	36	43.79
10/27/94	630	30	14070	36	43.79
10/27/94	700	0	14100	35.99	43.8
10/27/94	730	30	14130	35.98	43.81
10/27/94	800	0	14160	35.96	43.83
10/27/94	830	30	14190	35.94	43.85
10/27/94	900	0	14220	35.91	43.88
10/27/94	930	30	14250	35.88	43.91
10/27/94	1000	0	14280	35.85	43.94
10/27/94	1030	30	14310	35.82	43.97
10/27/94	1100	0	14340	35.79	44
10/27/94	1130	30	14370	35.76	44.03
10/27/94	1200	0	14400	35.74	44.05
10/27/94	1230	30	14430	35.72	44.07
10/27/94	1300	0	14460	35.71	44.08
10/27/94	1330	30	14490	35.71	44.08
10/27/94	1400	0	14520	35.71	44.08

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time		Test Cum.	Drawdown	Geokon	Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading		Hour	Min.	Time (min.)	(feet)	Reading
						10/27/94	1430	30	14550	35.71	44.08
						10/27/94	1500	0	14580	35.72	44.07
						10/27/94	1530	30	14610	35.73	44.06
						10/27/94	1600	0	14640	35.72	44.07
						10/27/94	1630	30	14670	35.73	44.06
						10/27/94	1700	0	14700	35.74	44.05
						10/27/94	1730	30	14730	35.74	44.05
						10/27/94	1800	0	14760	35.74	44.05
						10/27/94	1830	30	14790	35.75	44.04
						10/27/94	1900	0	14820	35.74	44.05
						10/27/94	1930	30	14850	35.74	44.05
						10/27/94	2000	0	14880	35.73	44.06
						10/27/94	2030	30	14910	35.7	44.09
						10/27/94	2100	0	14940	35.68	44.11
						10/27/94	2130	30	14970	35.67	44.12
						10/27/94	2200	0	15000	35.65	44.14
						10/27/94	2230	30	15030	35.61	44.18
						10/27/94	2300	0	15060	35.59	44.2
						10/27/94	2330	30	15090	35.57	44.22
						10/28/94	0	0	15120	35.56	44.23
						10/28/94	30	30	15150	35.54	44.25
						10/28/94	100	0	15180	35.52	44.27
						10/28/94	130	30	15210	35.51	44.28
						10/28/94	200	0	15240	35.52	44.27
						10/28/94	230	30	15270	35.52	44.27
						10/28/94	300	0	15300	35.53	44.26
						10/28/94	330	30	15330	35.53	44.26
						10/28/94	400	0	15360	35.54	44.25
						10/28/94	430	30	15390	35.55	44.24
						10/28/94	500	0	15420	35.55	44.24
						10/28/94	530	30	15450	35.55	44.24
						10/28/94	600	0	15480	35.56	44.23
						10/28/94	630	30	15510	35.57	44.22
						10/28/94	700	0	15540	35.57	44.22
						10/28/94	730	30	15570	35.56	44.23
						10/28/94	800	0	15600	35.54	44.25
						10/28/94	830	30	15630	35.53	44.26
						10/28/94	900	0	15660	35.51	44.28
						10/28/94	930	30	15690	35.48	44.31
						10/28/94	1000	0	15720	35.45	44.34
						10/28/94	1030	30	15750	35.43	44.36
						10/28/94	1100	0	15780	35.41	44.38
						10/28/94	1130	30	15810	35.38	44.41
						10/28/94	1200	0	15840	35.37	44.42
						10/28/94	1230	30	15870	35.36	44.43
						10/28/94	1300	0	15900	35.35	44.44
						10/28/94	1330	30	15930	35.36	44.43
						10/28/94	1400	0	15960	35.36	44.43
						10/28/94	1430	30	15990	35.37	44.42
						10/28/94	1500	0	16020	35.38	44.41
						10/28/94	1530	30	16050	35.39	44.4
						10/28/94	1600	0	16080	35.4	44.39
						10/28/94	1630	30	16110	35.41	44.38
						10/28/94	1700	0	16140	35.42	44.37
						10/28/94	1730	30	16170	35.43	44.36
						10/28/94	1800	0	16200	35.43	44.36
						10/28/94	1830	30	16230	35.44	44.35
						10/28/94	1900	0	16260	35.44	44.35
						10/28/94	1930	30	16290	35.44	44.35
						10/28/94	2000	0	16320	35.43	44.36
						10/28/94	2030	30	16350	35.41	44.38
						10/28/94	2100	0	16380	35.41	44.38
						10/28/94	2130	30	16410	35.39	44.4
						10/28/94	2200	0	16440	35.37	44.42
						10/28/94	2230	30	16470	35.35	44.44
						10/28/94	2300	0	16500	35.33	44.46
						10/28/94	2330	30	16530	35.31	44.48
						10/29/94	0	0	16560	35.29	44.5
						10/29/94	30	30	16590	35.27	44.52
						10/29/94	100	0	16620	35.25	44.54
						10/29/94	130	30	16650	35.23	44.56
						10/29/94	200	0	16680	35.21	44.58
						10/29/94	230	30	16710	35.21	44.58

PUMPING DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading

RECOVERY DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
10/29/94	300	0	16740	35.19	44.6
10/29/94	330	30	16770	35.17	44.62
10/29/94	400	0	16800	35.16	44.63
10/29/94	430	30	16830	35.15	44.64
10/29/94	500	0	16860	35 13	44.66
10/29/94	530	30	16890	35.12	44.67
10/29/94	600	0	16920	35.11	44.68
10/29/94	630	30	16950	35.09	44.7
10/29/94	700	0	16980	35.09	44.7
10/29/94	730	30	17010	35.08	44.71
10/29/94	800	0	17040	35.06	44.73
10/29/94	830	30	17070	35.04	44.75
10/29/94	900	0	17100	35.02	44.77
10/29/94	930	30	17130	35	44.79
10/29/94	1000	0	17160	34.98	44.81
10/29/94	1030	30	17190	34.97	44.82
10/29/94	1100	0	17220	34.94	44.85
10/29/94	1130	30	17250	34.95	44.84
10/29/94	1200	0	17280	34.94	44.85
10/29/94	1230	30	17310	34.93	44.86
10/29/94	1300	0	17340	34.93	44.86
10/29/94	1330	30	17370	34.94	44.85
10/29/94	1400	0	17400	34.94	44.85
10/29/94	1430	30	17430	34.95	44.84
10/29/94	1500	0	17460	34.97	44.82
10/29/94	1530	30	17490	34.99	44.8
10/29/94	1600	0	17520	35.02	44.77
10/29/94	1630	30	17550	35.04	44.75
10/29/94	1700	0	17580	35.06	44.73
10/29/94	1730	30	17610	35.09	44.7
10/29/94	1800	0	17640	35.11	44.68
10/29/94	1830	30	17670	35.12	44.67
10/29/94	1900	0	17700	35.14	44.65
10/29/94	1930	30	17730	35.15	44.64
10/29/94	2000	0	17760	35.15	44.64
10/29/94	2030	30	17790	35.16	44.63
10/29/94	2100	0	17820	35.15	44.64
10/29/94	2130	30	17850	35.14	44.65
10/29/94	2200	0	17880	35.12	44.67
10/29/94	2230	30	17910	35.1	44.69
10/29/94	2300	0	17940	35.08	44.71
10/29/94	2330	30	17970	35.06	44.73
10/30/94	0	0	18000	35.03	44.76
10/30/94	30	30	18030	35.02	44.77
10/30/94	100	0	18060	35	44.79
10/30/94	130	30	18090	34.99	44.8
10/30/94	200	0	18120	34.98	44.81
10/30/94	230	30	18150	34.99	44.8
10/30/94	300	0	18180	35	44.79
10/30/94	330	30	18210	35.01	44.78
10/30/94	400	0	18240	35.03	44.76
10/30/94	430	30	18270	35.03	44.76
10/30/94	500	0	18300	35.05	44.74
10/30/94	530	30	18330	35.07	44.72
10/30/94	600	0	18360	35.09	44.7
10/30/94	630	30	18390	35.11	44.68
10/30/94	700	0	18420	35.13	44.66
10/30/94	730	30	18450	35.13	44.66
10/30/94	800	0	18480	35.13	44.66
10/30/94	830	30	18510	35.13	44.66
10/30/94	900	0	18540	35.12	44.67
10/30/94	930	30	18570	35.11	44.68
10/30/94	1000	0	18600	35.1	44.69
10/30/94	1030	30	18630	35.09	44.7
10/30/94	1100	0	18660	35.07	44.72
10/30/94	1130	30	18690	35.05	44.74
10/30/94	1200	0	18720	35.04	44.75
10/30/94	1230	30	18750	35.03	44.76
10/30/94	1300	0	18780	35.03	44.76
10/30/94	1330	30	18810	35.04	44.75
10/30/94	1400	0	18840	35.03	44.76
10/30/94	1430	30	18870	35.03	44.76
10/30/94	1500	0	18900	35.05	44.74

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time		Test Cum.	Drawdown	Geokon	Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading		Hour	Min.	Time (min.)	(feet)	Reading
						10/30/94	1530	30	18930	35.06	44.73
						10/30/94	1600	0	18960	35.08	44.71
						10/30/94	1630	30	18990	35.09	44.7
						10/30/94	1700	0	19020	35.11	44.68
						10/30/94	1730	30	19050	35.12	44.67
						10/30/94	1800	0	19080	35.14	44.65
						10/30/94	1830	30	19110	35.15	44.64
						10/30/94	1900	0	19140	35.17	44.62
						10/30/94	1930	30	19170	35.19	44.6
						10/30/94	2000	0	19200	35.2	44.59
						10/30/94	2030	30	19230	35.21	44.58
						10/30/94	2100	0	19260	35.21	44.58
						10/30/94	2130	30	19290	35.19	44.6
						10/30/94	2200	0	19320	35.18	44.61
						10/30/94	2230	30	19350	35.17	44.62
						10/30/94	2300	0	19380	35.15	44.64
						10/30/94	2330	30	19410	35.13	44.66
						10/31/94	0	0	19440	35.11	44.68
						10/31/94	30	30	19470	35.08	44.71
						10/31/94	100	0	19500	35.07	44.72
						10/31/94	130	30	19530	35.07	44.72
						10/31/94	200	0	19560	35.06	44.73
						10/31/94	230	30	19590	35.05	44.74
						10/31/94	300	0	19620	35.05	44.74
						10/31/94	330	30	19650	35.06	44.73
						10/31/94	400	0	19680	35.07	44.72
						10/31/94	430	30	19710	35.08	44.71
						10/31/94	500	0	19740	35.1	44.69
						10/31/94	530	30	19770	35.11	44.68
						10/31/94	600	0	19800	35.13	44.66
						10/31/94	630	30	19830	35.15	44.64
						10/31/94	700	0	19860	35.18	44.61
						10/31/94	730	30	19890	35.19	44.6
						10/31/94	800	0	19920	35.2	44.59
						10/31/94	830	30	19950	35.21	44.58
						10/31/94	900	0	19980	35.19	44.6
						10/31/94	930	30	20010	35.2	44.59
						10/31/94	1000	0	20040	35.2	44.59
						10/31/94	1030	30	20070	35.21	44.58
						10/31/94	1100	0	20100	35.21	44.58
						10/31/94	1130	30	20130	35.22	44.57
						10/31/94	1200	0	20160	35.22	44.57
						10/31/94	1230	30	20190	35.24	44.55
						10/31/94	1300	0	20220	35.26	44.53
						10/31/94	1330	30	20250	35.27	44.52
						10/31/94	1400	0	20280	35.29	44.5
						10/31/94	1430	30	20310	35.31	44.48
						10/31/94	1500	0	20340	35.32	44.47
						10/31/94	1530	30	20370	35.33	44.46
						10/31/94	1600	0	20400	35.34	44.45
						10/31/94	1630	30	20430	35.36	44.43
						10/31/94	1700	0	20460	35.38	44.41
						10/31/94	1730	30	20490	35.4	44.39
						10/31/94	1800	0	20520	35.42	44.37
						10/31/94	1830	30	20550	35.44	44.35
						10/31/94	1900	0	20580	35.45	44.34
						10/31/94	1930	30	20610	35.48	44.31
						10/31/94	2000	0	20640	35.51	44.28
						10/31/94	2030	30	20670	35.54	44.25
						10/31/94	2100	0	20700	35.56	44.23
						10/31/94	2130	30	20730	35.58	44.21
						10/31/94	2200	0	20760	35.6	44.19
						10/31/94	2230	30	20790	35.63	44.16
						10/31/94	2300	0	20820	35.64	44.15
						10/31/94	2330	30	20850	35.66	44.13
						11/1/94	0	0	20880	35.67	44.12
						11/1/94	30	30	20910	35.68	44.11
						11/1/94	100	0	20940	35.68	44.11
						11/1/94	130	30	20970	35.68	44.11
						11/1/94	200	0	21000	35.69	44.1
						11/1/94	230	30	21030	35.69	44.1
						11/1/94	300	0	21060	35.69	44.1
						11/1/94	330	30	21090	35.69	44.1

PUMPING DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading

RECOVERY DATA

Date	24 Hour Time		Test Cum.	Drawdown	Geokon
	Hour	Min.	Time (min.)	(feet)	Reading
11/1/94	400	0	21120	35.69	44.1
11/1/94	430	30	21150	35.7	44.09
11/1/94	500	0	21180	35.71	44.08
11/1/94	530	30	21210	35.72	44.07
11/1/94	600	0	21240	35.74	44.05
11/1/94	630	30	21270	35.77	44.02
11/1/94	700	0	21300	35.79	44
11/1/94	730	30	21330	35.82	43.97
11/1/94	800	0	21360	35.83	43.96
11/1/94	830	30	21390	35.86	43.93
11/1/94	900	0	21420	35.9	43.89
11/1/94	930	30	21450	35.91	43.88
11/1/94	1000	0	21480	35.9	43.89
11/1/94	1030	30	21510	35.91	43.88
11/1/94	1100	0	21540	35.91	43.88
11/1/94	1130	30	21570	35.9	43.89

WEAVER DOMESTIC WELL

Emery & Garrett Groundwater, Inc.

PUMPING TEST DATA SHEET FOR WEAVER DOMESTIC WELL

PROJECT: Bealeton, Virginia
SUBCONTRACTOR: Leazer, Bros., Inc.
PUMPING WELL (S): MS-5 NEW

MONITORING WELL: Weaver
INITIAL WATER LEVEL: 36.20 feet
MAXIMUM DRAWDOWN:
MEASURING POINT: Top of Casing

	Date	Hour	Minute
Start of Pumping:	10/17/94	12	0
Start of Recovery:	10/20/94	12	0

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/11/94	1500	0	-8460	36.2	24.00	10/20/94	1300	12840	4380	36.06	24.07
10/11/94	1600	60	-8400	35.42	24.34	10/20/94	1400	12900	4440	34.69	24.66
10/11/94	1700	120	-8340	35.10	24.48	10/20/94	1500	12960	4500	34.94	24.55
10/11/94	1800	180	-8280	38.45	23.03	10/20/94	1600	13020	4560	34.49	24.74
10/11/94	1900	240	-8220	32.73	25.51	10/20/94	1700	13080	4620	32.19	25.74
10/11/94	2000	300	-8160	33.61	25.12	10/20/94	1800	13140	4680	32.22	25.73
10/11/94	2100	360	-8100	33.48	25.18	10/20/94	1900	13200	4740	34.77	24.62
10/11/94	2200	420	-8040	33.38	25.22	10/20/94	2000	13260	4800	44.06	20.60
10/11/94	2300	480	-7980	33.27	25.27	10/20/94	2100	13320	4860	37.84	23.29
10/12/94	0	540	-7920	32.91	25.43	10/20/94	2200	13380	4920	35.67	24.23
10/12/94	100	600	-7860	34.92	24.56	10/20/94	2300	13440	4980	34.67	24.66
10/12/94	200	660	-7800	31.91	25.86	10/21/94	0	13500	5040	31.70	25.95
10/12/94	300	720	-7740	30.79	26.35	10/21/94	100	13560	5100	33.48	25.18
10/12/94	400	780	-7680	30.27	26.57	10/21/94	200	13620	5160	36.99	23.66
10/12/94	500	840	-7620	36.32	23.95	10/21/94	300	13680	5220	31.54	26.02
10/12/94	600	900	-7560	31.55	26.02	10/21/94	400	13740	5280	38.75	22.90
10/12/94	700	960	-7500	34.00	24.96	10/21/94	500	13800	5340	41.46	21.73
10/12/94	800	1020	-7440	32.52	25.59	10/21/94	600	13860	5400	33.03	25.37
10/12/94	900	1080	-7380	32.41	25.64	10/21/94	700	13920	5460	40.65	22.07
10/12/94	1000	1140	-7320	29.78	26.78	10/21/94	800	13980	5520	33.40	25.22
10/12/94	1100	1200	-7260	29.57	26.87	10/21/94	900	14040	5580	31.84	25.89
10/12/94	1200	1260	-7200	29.36	26.96	10/21/94	1000	14100	5640	30.67	26.3974
10/12/94	1300	1320	-7140	35.02	24.51	10/21/94	1100	14160	5700	30.36	26.5332
10/12/94	1400	1380	-7080	37.78	23.32	10/21/94	1200	14220	5760	30.16	26.6164
10/12/94	1500	1440	-7020	32.88	25.44	10/21/94	1300	14280	5820	31.57	26.0083
10/12/94	1600	1500	-6960	38.48	23.02	10/21/94	1400	14340	5880	31.92	25.8573
10/12/94	1700	1560	-6900	43.51	20.84	10/21/94	1500	14400	5940	30.03	26.6733
10/12/94	1800	1620	-6840	37.18	23.58	10/21/94	1600	14460	6000	35.40	24.3507
10/12/94	1900	1680	-6780	32.06	25.80	10/21/94	1700	14520	6060	32.37	25.6621
10/12/94	2000	1740	-6720	32.00	25.82	10/21/94	1800	14580	6120	32.46	25.623
10/12/94	2100	1800	-6660	31.09	26.22	10/21/94	1900	14640	6180	30.67	26.3974
10/12/94	2200	1860	-6600	32.61	25.56	10/21/94	2000	14700	6240	33.52	25.1629
10/12/94	2300	1920	-6540	30.20	26.60	10/21/94	2100	14760	6300	30.98	26.2643
10/13/94	0	1980	-6480	32.80	25.48	10/21/94	2200	14820	6360	36.40	23.918
10/13/94	100	2040	-6420	29.98	26.69	10/21/94	2300	14880	6420	32.13	25.7668
10/13/94	200	2100	-6360	32.62	25.55	10/22/94	0	14940	6480	32.25	25.7153
10/13/94	300	2160	-6300	31.13	26.20	10/22/94	100	15000	6540	35.73	24.2068
10/13/94	400	2220	-6240	33.79	25.04	10/22/94	200	15060	6600	34.73	24.639
10/13/94	500	2280	-6180	38.29	23.10	10/22/94	300	15120	6660	37.87	23.2798
10/13/94	600	2340	-6120	35.90	24.13	10/22/94	400	15180	6720	31.49	26.0409
10/13/94	700	2400	-6060	34.06	24.93	10/22/94	500	15240	6780	33.13	25.3329
10/13/94	800	2460	-6000	32.35	25.67	10/22/94	600	15300	6840	33.64	25.1109
10/13/94	900	2520	-5940	32.27	25.70	10/22/94	700	15360	6900	32.68	25.5275
10/13/94	1000	2580	-5880	36.49	23.88	10/22/94	800	15420	6960	37.05	23.6361
10/13/94	1100	2640	-5820	38.13	23.17	10/22/94	900	15480	7020	45.76	19.8668
10/13/94	1200	2700	-5760	30.30	26.56	10/22/94	1000	15540	7080	36.90	23.7022
10/13/94	1300	2760	-5700	30.26	26.57	10/22/94	1100	15600	7140	41.73	21.6082
10/13/94	1400	2820	-5640	29.18	27.04	10/22/94	1200	15660	7200	34.39	24.7882
10/13/94	1500	2880	-5580	32.24	25.72	10/22/94	1300	15720	7260	32.01	25.8183
10/13/94	1600	2940	-5520	31.16	26.19	10/22/94	1400	15780	7320	37.72	23.3431
10/13/94	1700	3000	-5460	29.70	26.82	10/22/94	1500	15840	7380	33.24	25.2841
10/13/94	1800	3060	-5400	29.51	26.90	10/22/94	1600	15900	7440	37.36	23.5019
10/13/94	1900	3120	-5340	29.51	26.90	10/22/94	1700	15960	7500	37.72	23.3431
10/13/94	2000	3180	-5280	30.37	26.53	10/22/94	1800	16020	7560	38.97	22.8055
10/13/94	2100	3240	-5220	31.11	26.21	10/22/94	1900	16080	7620	45.66	19.9061
10/13/94	2200	3300	-5160	30.23	26.59	10/22/94	2000	16140	7680	35.90	24.1331
10/13/94	2300	3360	-5100	29.15	27.06	10/22/94	2100	16200	7740	35.29	24.3953
10/14/94	0	3420	-5040	32.91	25.43	10/22/94	2200	16260	7800	41.01	21.9192
10/14/94	100	3480	-4980	31.31	26.12	10/22/94	2300	16320	7860	33.74	25.0667
10/14/94	200	3540	-4920	29.54	26.89	10/23/94	0	16380	7920	33.68	25.0935

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/14/94	400	3660	-4800	29.10	27.08	10/23/94	200	16500	8040	35.00	24.5229
10/14/94	500	3720	-4740	30.17	26.61	10/23/94	300	16560	8100	37.20	23.5698
10/14/94	600	3780	-4680	34.93	24.55	10/23/94	400	16620	8160	32.39	25.6543
10/14/94	700	3840	-4620	32.88	25.44	10/23/94	500	16680	8220	33.57	25.1424
10/14/94	800	3900	-4560	40.13	22.30	10/23/94	600	16740	8280	33.52	25.1629
10/14/94	900	3960	-4500	32.17	25.75	10/23/94	700	16800	8340	35.43	24.3379
10/14/94	1000	4020	-4440	31.48	26.05	10/23/94	800	16860	8400	34.18	24.877
10/14/94	1100	4080	-4380	30.60	26.43	10/23/94	900	16920	8460	40.41	22.1824
10/14/94	1200	4140	-4320	30.10	26.64	10/23/94	1000	16980	8520	43.94	20.6546
10/14/94	1300	4200	-4260	29.82	26.77	10/23/94	1100	17040	8580	43.26	20.9465
10/14/94	1400	4260	-4200	30.71	26.38	10/23/94	1200	17100	8640	38.43	23.0357
10/14/94	1500	4320	-4140	31.40	26.08	10/23/94	1300	17160	8700	37.69	23.3593
10/14/94	1600	4380	-4080	33.09	25.35	10/23/94	1400	17220	8760	34.39	24.7851
10/14/94	1700	4440	-4020	29.68	26.83	10/23/94	1500	17280	8820	32.10	25.7777
10/14/94	1800	4500	-3960	32.87	25.44	10/23/94	1600	17340	8880	32.59	25.5667
10/14/94	1900	4560	-3900	35.18	24.44	10/23/94	1700	17400	8940	33.52	25.1629
10/14/94	2000	4620	-3840	40.15	22.29	10/23/94	1800	17460	9000	39.18	22.7138
10/14/94	2100	4680	-3780	31.04	26.24	10/23/94	1900	17520	9060	46.22	19.6662
10/14/94	2200	4740	-3720	32.26	25.71	10/23/94	2000	17580	9120	47.09	19.2874
10/14/94	2300	4800	-3660	41.31	21.79	10/23/94	2100	17640	9180	44.54	20.3936
10/15/94	0	4860	-3600	34.35	24.81	10/23/94	2200	17700	9240	35.46	24.3219
10/15/94	100	4920	-3540	30.09	26.65	10/23/94	2300	17760	9300	35.64	24.2468
10/15/94	200	4980	-3480	31.84	25.89	10/24/94	0	17820	9360	33.09	25.3486
10/15/94	300	5040	-3420	32.10	25.78	10/24/94	100	17880	9420	33.86	25.0162
10/15/94	400	5100	-3360	31.35	26.10	10/24/94	200	17940	9480	32.47	25.6168
10/15/94	500	5160	-3300	34.43	24.77	10/24/94	300	18000	9540	31.63	25.9834
10/15/94	600	5220	-3240	29.72	26.81	10/24/94	400	18060	9600	33.05	25.3675
10/15/94	700	5280	-3180	31.73	25.94	10/24/94	500	18120	9660	34.88	24.5738
10/15/94	800	5340	-3120	30.18	26.61	10/24/94	600	18180	9720	39.07	22.7596
10/15/94	900	5400	-3060	51.42	17.42	10/24/94	700	18240	9780	37.40	23.4857
10/15/94	1000	5460	-3000	40.10	22.32	10/24/94	800	18300	9840	35.48	24.3155
10/15/94	1100	5520	-2940	41.75	21.60	10/24/94	900	18360	9900	32.39	25.6512
10/15/94	1200	5580	-2880	49.16	18.39	10/24/94	1000	18420	9960	34.05	24.9355
10/15/94	1300	5640	-2820	41.38	21.76	10/24/94	1100	18480	10020	32.71	25.5134
10/15/94	1400	5700	-2760	31.75	25.93	10/24/94	1200	18540	10080	40.26	22.2435
10/15/94	1500	5760	-2700	32.38	25.66	10/24/94	1300	18600	10140	39.97	22.3704
10/15/94	1600	5820	-2640	43.58	20.81	10/24/94	1400	18660	10200	40.20	22.2699
10/15/94	1700	5880	-2580	34.24	24.85	10/24/94	1500	18720	10260	34.32	24.8152
10/15/94	1800	5940	-2520	33.10	25.34	10/24/94	1600	18780	10320	37.77	23.322
10/15/94	1900	6000	-2460	34.53	24.73	10/24/94	1700	18840	10380	36.45	23.8939
10/15/94	2000	6060	-2400	30.95	26.28	10/24/94	1800	18900	10440	33.31	25.2543
10/15/94	2100	6120	-2340	31.66	25.97	10/24/94	1900	18960	10500	36.19	24.0064
10/15/94	2200	6180	-2280	33.95	24.98	10/24/94	2000	19020	10560	39.53	22.5629
10/15/94	2300	6240	-2220	49.21	18.37	10/24/94	2100	19080	10620	42.00	21.4915
10/16/94	0	6300	-2160	33.75	25.07	10/24/94	2200	19140	10680	36.15	24.0257
10/16/94	100	6360	-2100	35.32	24.38	10/24/94	2300	19200	10740	36.72	23.7764
10/16/94	200	6420	-2040	30.36	26.53	10/25/94	0	19260	10800	33.28	25.2668
10/16/94	300	6480	-1980	29.63	26.85	10/25/94	100	19320	10860	34.24	24.85
10/16/94	400	6540	-1920	29.25	27.01	10/25/94	200	19380	10920	32.01	25.8183
10/16/94	500	6600	-1860	29.88	26.74	10/25/94	300	19440	10980	33.01	25.3832
10/16/94	600	6660	-1800	28.78	27.21	10/25/94	400	19500	11040	31.67	25.9632
10/16/94	700	6720	-1740	29.78	26.78	10/25/94	500	19560	11100	38.85	22.8578
10/16/94	800	6780	-1680	30.06	26.66	10/25/94	600	19620	11160	40.06	22.3309
10/16/94	900	6840	-1620	36.55	23.85	10/25/94	700	19680	11220	33.73	25.0714
10/16/94	1000	6900	-1560	40.85	21.99	10/25/94	800	19740	11280	37.84	23.2944
10/16/94	1100	6960	-1500	47.75	19.00	10/25/94	900	19800	11340	32.70	25.5181
10/16/94	1200	7020	-1440	32.86	25.45	10/25/94	1000	19860	11400	31.68	25.9601
10/16/94	1300	7080	-1380	30.78	26.35	10/25/94	1100	19920	11460	34.00	24.9561
10/16/94	1400	7140	-1320	48.63	18.62	10/25/94	1200	19980	11520	33.85	25.0225
10/16/94	1500	7200	-1260	40.39	22.19	10/25/94	1300	20040	11580	33.25	25.281
10/16/94	1600	7260	-1200	32.27	25.70	10/25/94	1400	20100	11640	32.48	25.6136
10/16/94	1700	7320	-1140	35.17	24.45	10/25/94	1500	20160	11700	31.37	26.0953
10/16/94	1800	7380	-1080	44.23	20.53	10/25/94	1600	20220	11760	46.83	19.4012
10/16/94	1900	7440	-1020	33.37	25.23	10/25/94	1700	20280	11820	46.48	19.5545
10/16/94	2000	7500	-960	32.27	25.71	10/25/94	1800	20340	11880	53.36	16.5756
10/16/94	2100	7560	-900	33.75	25.07	10/25/94	1900	20400	11940	41.08	21.8893
10/16/94	2200	7620	-840	36.75	23.77	10/25/94	2000	20460	12000	36.94	23.6829
10/16/94	2300	7680	-780	32.99	25.39	10/25/94	2100	20520	12060	32.92	25.4224
10/17/94	0	7740	-720	32.16	25.75	10/25/94	2200	20580	12120	35.39	24.3554
10/17/94	100	7800	-660	32.49	25.61	10/25/94	2300	20640	12180	38.14	23.1628
10/17/94	200	7860	-600	30.18	26.61	10/26/94	0	20700	12240	35.18	24.4448
10/17/94	300	7920	-540	29.58	26.87	10/26/94	100	20760	12300	32.88	25.4397
10/17/94	400	7980	-480	29.64	26.84	10/26/94	200	20820	12360	34.78	24.6183

PUMPING DATA						RECOVERY DATA					
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10/17/94	500	8040	-420	34.05	24.93	10/26/94	300	20880	12420	34.62	24.6851
10/17/94	600	8100	-360	35.05	24.50	10/26/94	400	20940	12480	32.92	25.424
10/17/94	700	8160	-300	31.96	25.84	10/26/94	500	21000	12540	35.50	24.3043
10/17/94	800	8220	-240	39.29	22.66	10/26/94	600	21060	12600	34.78	24.6199
10/17/94	900	8280	-180	33.06	25.36	10/26/94	700	21120	12660	34.23	24.858
10/17/94	1000	8340	-120	34.14	24.89	10/26/94	800	21180	12720	33.81	25.0383
10/17/94	1100	8400	-60	33.11	25.34	10/26/94	900	21240	12780	31.44	26.0627
10/17/94	1200	8460	0	39.06	22.76	10/26/94	1000	21300	12840	32.35	25.6684
10/17/94	1300	8520	60	41.77	21.59	10/26/94	1100	21360	12900	31.44	26.0642
10/17/94	1400	8580	120	35.39	24.35	10/26/94	1200	21420	12960	31.09	26.2147
10/17/94	1500	8640	180	34.75	24.63	10/26/94	1300	21480	13020	33.01	25.3832
10/17/94	1600	8700	240	40.03	22.35	10/26/94	1400	21540	13080	33.06	25.3628
10/17/94	1700	8760	300	31.29	26.13	10/26/94	1500	21600	13140	32.50	25.6043
10/17/94	1800	8820	360	36.71	23.78	10/26/94	1600	21660	13200	31.57	26.0083
10/17/94	1900	8880	420	31.40	26.08	10/26/94	1700	21720	13260	32.54	25.5855
10/17/94	2000	8940	480	39.50	22.57	10/26/94	1800	21780	13320	35.11	24.4767
10/17/94	2100	9000	540	37.81	23.31	10/26/94	1900	21840	13380	35.17	24.4496
10/17/94	2200	9060	600	34.29	24.83	10/26/94	2000	21900	13440	32.86	25.4476
10/17/94	2300	9120	660	36.22	24.00	10/26/94	2100	21960	13500	35.77	24.1892
10/18/94	0	9180	720	38.05	23.20	10/26/94	2200	22020	13560	35.75	24.1972
10/18/94	100	9240	780	35.06	24.50	10/26/94	2300	22080	13620	32.11	25.7731
10/18/94	200	9300	840	31.22	26.16	10/27/94	0	22140	13680	35.02	24.5133
10/18/94	300	9360	900	31.27	26.14	10/27/94	100	22200	13740	34.73	24.6374
10/18/94	400	9420	960	33.76	25.06	10/27/94	200	22260	13800	32.44	25.6293
10/18/94	500	9480	1020	37.74	23.34	10/27/94	300	22320	13860	32.74	25.4993
10/18/94	600	9540	1080	41.01	21.92	10/27/94	400	22380	13920	32.75	25.4977
10/18/94	700	9600	1140	32.06	25.79	10/27/94	500	22440	13980	39.22	22.6974
10/18/94	800	9660	1200	40.96	21.94	10/27/94	600	22500	14040	46.28	19.6387
10/18/94	900	9720	1260	38.93	22.82	10/27/94	700	22560	14100	36.21	23.9984
10/18/94	1000	9780	1320	35.42	24.34	10/27/94	800	22620	14160	33.07	25.358
10/18/94	1100	9840	1380	32.23	25.72	10/27/94	900	22680	14220	31.61	25.9896
10/18/94	1200	9900	1440	32.54	25.59	10/27/94	1000	22740	14280	32.77	25.4868
10/18/94	1300	9960	1500	34.28	24.83	10/27/94	1100	22800	14340	31.77	25.9211
10/18/94	1400	10020	1560	31.97	25.83	10/27/94	1200	22860	14400	32.54	25.587
10/18/94	1500	10080	1620	41.15	21.86	10/27/94	1300	22920	14460	35.22	24.4273
10/18/94	1600	10140	1680	32.55	25.58	10/27/94	1400	22980	14520	33.92	24.9909
10/18/94	1700	10200	1740	33.46	25.19	10/27/94	1500	23040	14580	32.67	25.5307
10/18/94	1800	10260	1800	33.85	25.02	10/27/94	1600	23100	14640	33.41	25.2102
10/18/94	1900	10320	1860	33.97	24.97	10/27/94	1700	23160	14700	33.98	24.9656
10/18/94	2000	10380	1920	30.86	26.32	10/27/94	1800	23220	14760	32.17	25.7496
10/18/94	2100	10440	1980	34.24	24.85	10/27/94	1900	23280	14820	38.52	22.9982
10/18/94	2200	10500	2040	31.30	26.13	10/27/94	2000	23340	14880	31.93	25.8526
10/18/94	2300	10560	2100	34.37	24.79	10/27/94	2100	23400	14940	31.11	26.207
10/19/94	0	10620	2160	33.10	25.34	10/27/94	2200	23460	15000	37.87	23.2814
10/19/94	100	10680	2220	30.98	26.26	10/27/94	2300	23520	15060	35.36	24.3666
10/19/94	200	10740	2280	35.94	24.11	10/28/94	0	23580	15120	31.48	26.0456
10/19/94	300	10800	2340	38.57	22.98	10/28/94	100	23640	15180	33.80	25.0414
10/19/94	400	10860	2400	33.97	24.97	10/28/94	200	23700	15240	31.26	26.1403
10/19/94	500	10920	2460	33.27	25.27	10/28/94	300	23760	15300	32.29	25.695
10/19/94	600	10980	2520	38.40	23.05	10/28/94	400	23820	15360	31.35	26.1031
10/19/94	700	11040	2580	32.99	25.39	10/28/94	500	23880	15420	34.11	24.9086
10/19/94	800	11100	2640	32.68	25.53	10/28/94	600	23940	15480	40.64	22.0799
10/19/94	900	11160	2700	35.76	24.20	10/28/94	700	24000	15540	43.37	20.8976
10/19/94	1000	11220	2760	32.36	25.67	10/28/94	800	24060	15600	33.52	25.1645
10/19/94	1100	11280	2820	31.12	26.20	10/28/94	900	24120	15660	31.54	26.0223
10/19/94	1200	11340	2880	32.08	25.79	10/28/94	1000	24180	15720	32.45	25.6277
10/19/94	1300	11400	2940	33.72	25.08	10/28/94	1100	24240	15780	31.81	25.9025
10/19/94	1400	11460	3000	31.34	26.11	10/28/94	1200	24300	15840	35.52	24.2963
10/19/94	1500	11520	3060	48.14	18.84	10/28/94	1300	24360	15900	31.89	25.8697
10/19/94	1600	11580	3120	36.89	23.70	10/28/94	1400	24420	15960	31.10	26.2101
10/19/94	1700	11640	3180	32.97	25.40	10/28/94	1500	24480	16020	30.77	26.3556
10/19/94	1800	11700	3240	36.02	24.08	10/28/94	1600	24540	16080	30.82	26.334
10/19/94	1900	11760	3300	35.28	24.40	10/28/94	1700	24600	16140	30.56	26.4468
10/19/94	2000	11820	3360	38.26	23.11	10/28/94	1800	24660	16200	32.00	25.823
10/19/94	2100	11880	3420	32.98	25.40	10/28/94	1900	24720	16260	30.32	26.5486
10/19/94	2200	11940	3480	32.13	25.76	10/28/94	2000	24780	16320	34.96	24.542
10/19/94	2300	12000	3540	34.84	24.59	10/28/94	2100	24840	16380	31.82	25.8978
10/20/94	0	12060	3600	32.15	25.75	10/28/94	2200	24900	16440	34.18	24.8785
10/20/94	100	12120	3660	38.16	23.16	10/28/94	2300	24960	16500	32.02	25.8136
10/20/94	200	12180	3720	35.02	24.51	10/29/94	0	25020	16560	36.27	23.9743
10/20/94	300	12240	3780	32.40	25.65	10/29/94	100	25080	16620	32.24	25.7184
10/20/94	400	12300	3840	32.60	25.56	10/29/94	200	25140	16680	31.18	26.176
10/20/94	500	12360	3900	32.99	25.39	10/29/94	300	25200	16740	33.43	25.2023

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/20/94	600	12420	3960	36.91	23.70	10/29/94	400	25260	16800	31.22	26.1605
10/20/94	700	12480	4020	39.32	22.65	10/29/94	500	25320	16860	32.68	25.5291
10/20/94	800	12540	4080	41.36	21.77	10/29/94	600	25380	16920	31.88	25.8713
10/20/94	900	12600	4140	32.36	25.67	10/29/94	700	25440	16980	33.06	25.3628
10/20/94	1000	12660	4200	32.28	25.70	10/29/94	800	25500	17040	41.02	21.9175
10/20/94	1100	12720	4260	31.04	26.24	10/29/94	900	25560	17100	36.57	23.8424
10/20/94	1200	12780	4320	33.74	25.07	10/29/94	1000	25620	17160	41.31	21.793
						10/29/94	1100	25680	17220	38.18	23.1481
						10/29/94	1200	25740	17280	33.89	25.0019
						10/29/94	1300	25800	17340	33.53	25.1597
						10/29/94	1400	25860	17400	35.31	24.3874
						10/29/94	1500	25920	17460	33.59	25.133
						10/29/94	1600	25980	17520	35.03	24.5117
						10/29/94	1700	26040	17580	36.40	23.918
						10/29/94	1800	26100	17640	32.62	25.551
						10/29/94	1900	26160	17700	36.93	23.6893
						10/29/94	2000	26220	17760	35.27	24.4065
						10/29/94	2100	26280	17820	42.79	21.1516
						10/29/94	2200	26340	17880	41.80	21.5782
						10/29/94	2300	26400	17940	36.23	23.9888
						10/30/94	0	26460	18000	33.27	25.2716
						10/30/94	100	26520	18060	31.56	26.0098
						10/30/94	200	26580	18120	31.03	26.2411
						10/30/94	300	26640	18180	32.30	25.6934
						10/30/94	400	26700	18240	33.25	25.2794
						10/30/94	500	26760	18300	33.94	24.983
						10/30/94	600	26820	18360	31.99	25.8245
						10/30/94	700	26880	18420	31.24	26.1512
						10/30/94	800	26940	18480	33.27	25.2731
						10/30/94	900	27000	18540	35.85	24.1555
						10/30/94	1000	27060	18600	37.46	23.4582
						10/30/94	1100	27120	18660	49.26	18.3483
						10/30/94	1200	27180	18720	43.11	21.0138
						10/30/94	1300	27240	18780	56.54	15.1973
						10/30/94	1400	27300	18840	50.49	17.8191
						10/30/94	1500	27360	18900	40.96	21.9424
						10/30/94	1600	27420	18960	35.36	24.3682
						10/30/94	1700	27480	19020	33.22	25.2936
						10/30/94	1800	27540	19080	37.28	23.5359
						10/30/94	1900	27600	19140	33.23	25.2889
						10/30/94	2000	27660	19200	32.74	25.4993
						10/30/94	2100	27720	19260	35.69	24.2228
						10/30/94	2200	27780	19320	32.89	25.4366
						10/30/94	2300	27840	19380	34.93	24.5515
						10/31/94	0	27900	19440	33.36	25.2306
						10/31/94	100	27960	19500	34.77	24.6215
						10/31/94	200	28020	19560	31.78	25.918
						10/31/94	300	28080	19620	32.34	25.6731
						10/31/94	400	28140	19680	32.13	25.7653
						10/31/94	500	28200	19740	31.27	26.1357
						10/31/94	600	28260	19800	35.68	24.2276
						10/31/94	700	28320	19860	32.59	25.5667
						10/31/94	800	28380	19920	42.64	21.2154
						10/31/94	900	28440	19980	34.55	24.7168
						10/31/94	1000	28500	20040	32.74	25.5009
						10/31/94	1100	28560	20100	33.64	25.1124
						10/31/94	1200	28620	20160	36.84	23.7264
						10/31/94	1300	28680	20220	37.85	23.2879
						10/31/94	1400	28740	20280	35.08	24.4878
						10/31/94	1500	28800	20340	32.61	25.5573
						10/31/94	1600	28860	20400	34.15	24.8912
						10/31/94	1700	28920	20460	33.54	25.155
						10/31/94	1800	28980	20520	34.49	24.7422
						10/31/94	1900	29040	20580	34.28	24.8342
						10/31/94	2000	29100	20640	34.85	24.5881
						10/31/94	2100	29160	20700	34.87	24.5802
						10/31/94	2200	29220	20760	32.22	25.7262
						10/31/94	2300	29280	20820	35.96	24.1075
						11/1/94	0	29340	20880	36.92	23.6909
						11/1/94	100	29400	20940	33.78	25.0525
						11/1/94	200	29460	21000	33.94	24.9798
						11/1/94	300	29520	21060	31.99	25.8245
						11/1/94	400	29580	21120	32.11	25.7731

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
						11/1/94	500	29640	21180	34.48	24.747
						11/1/94	600	29700	21240	37.89	23.2701
						11/1/94	700	29760	21300	36.53	23.8617
						11/1/94	800	29820	21360	39.25	22.6826
						11/1/94	900	29880	21420	36.05	24.0674
						11/1/94	1000	29940	21480	32.79	25.4773
						11/1/94	1100	30000	21540	35.51	24.3011
						11/1/94	1200	30060	21600	42.98	21.0676

WHITE DOMESTIC WELL

Emery & Garrett Groundwater, Inc.

PUMPING TEST DATA SHEET FOR WHITE DOMESTIC WELL

PROJECT: Bealeton, Virginia
SUBCONTRACTOR: Leazer Bros., Inc.
PUMPING WELL (S): MS-5 NEW

MONITORING WELL: WHITE
INITIAL WATER LEVEL: Not Determined
MAXIMUM DRAWDOWN:
MEASURING POINT:

	Date	Hour	Minute
Start of Pumping:	10/17/94	12	0
Start of Recovery:	10/20/94	12	0

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/11/94	1600	0	-8400	77.18	22.54	10/20/94	1300	12780	4380	39.83	26.94
10/11/94	1700	60	-8340	47.45	23.65	10/20/94	1400	12840	4440	38.18	27.66
10/11/94	1800	120	-8280	47.47	23.64	10/20/94	1500	12900	4500	37.42	27.99
10/11/94	1900	180	-8220	45.91	24.32	10/20/94	1600	12960	4560	36.29	28.48
10/11/94	2000	240	-8160	43.84	25.21	10/20/94	1700	13020	4620	35.39	28.87
10/11/94	2100	300	-8100	44.01	25.14	10/20/94	1800	13080	4680	35.50	28.82
10/11/94	2200	360	-8040	42.09	25.97	10/20/94	1900	13140	4740	37.65	27.89
10/11/94	2300	420	-7980	40.74	26.55	10/20/94	2000	13200	4800	36.12	28.55
10/12/94	0	480	-7920	42.99	25.58	10/20/94	2100	13260	4860	36.56	28.36
10/12/94	100	540	-7860	40.69	26.57	10/20/94	2200	13320	4920	35.30	28.91
10/12/94	200	600	-7800	40.09	26.84	10/20/94	2300	13380	4980	35.06	29.01
10/12/94	300	660	-7740	38.81	27.39	10/21/94	0	13440	5040	34.91	29.08
10/12/94	400	720	-7680	37.85	27.81	10/21/94	100	13500	5100	34.04	29.45
10/12/94	500	780	-7620	37.02	28.16	10/21/94	200	13560	5160	33.39	29.74
10/12/94	600	840	-7560	36.27	28.49	10/21/94	300	13620	5220	32.83	29.98
10/12/94	700	900	-7500	36.17	28.53	10/21/94	400	13680	5280	32.32	30.20
10/12/94	800	960	-7440	37.02	28.16	10/21/94	500	13740	5340	32.84	29.97
10/12/94	900	1020	-7380	41.97	26.02	10/21/94	600	13800	5400	34.90	29.08
10/12/94	1000	1080	-7320	50.97	22.12	10/21/94	700	13860	5460	33.39	29.73
10/12/94	1100	1140	-7260	45.61	24.45	10/21/94	800	13920	5520	34.08	29.43
10/12/94	1200	1200	-7200	44.90	24.75	10/21/94	900	13980	5580	33.55	29.67
10/12/94	1300	1260	-7140	56.30	19.82	10/21/94	1000	14040	5640	32.66	30.0498
10/12/94	1400	1320	-7080	59.24	18.54	10/21/94	1100	14100	5700	31.99	30.339
10/12/94	1500	1380	-7020	53.42	21.06	10/21/94	1200	14160	5760	31.49	30.5559
10/12/94	1600	1440	-6960	49.86	22.60	10/21/94	1300	14220	5820	31.05	30.7461
10/12/94	1700	1500	-6900	47.94	23.44	10/21/94	1400	14280	5880	30.69	30.9051
10/12/94	1800	1560	-6840	45.88	24.33	10/21/94	1500	14340	5940	30.35	31.0496
10/12/94	1900	1620	-6780	44.13	25.09	10/21/94	1600	14400	6000	30.93	30.8007
10/12/94	2000	1680	-6720	43.09	25.53	10/21/94	1700	14460	6060	30.82	30.8482
10/12/94	2100	1740	-6660	41.67	26.15	10/21/94	1800	14520	6120	30.65	30.9217
10/12/94	2200	1800	-6600	40.44	26.68	10/21/94	1900	14580	6180	30.67	30.9099
10/12/94	2300	1860	-6540	40.60	26.61	10/21/94	2000	14640	6240	31.05	30.7485
10/13/94	0	1920	-6480	41.66	26.16	10/21/94	2100	14700	6300	31.17	30.6939
10/13/94	100	1980	-6420	39.84	26.94	10/21/94	2200	14760	6360	31.37	30.6106
10/13/94	200	2040	-6360	39.50	27.09	10/21/94	2300	14820	6420	30.45	31.007
10/13/94	300	2100	-6300	38.24	27.64	10/22/94	0	14880	6480	31.01	30.7628
10/13/94	400	2160	-6240	37.34	28.03	10/22/94	100	14940	6540	30.30	31.0733
10/13/94	500	2220	-6180	36.56	28.36	10/22/94	200	15000	6600	30.32	31.0639
10/13/94	600	2280	-6120	35.90	28.65	10/22/94	300	15060	6660	29.76	31.3073
10/13/94	700	2340	-6060	36.16	28.54	10/22/94	400	15120	6720	29.31	31.5006
10/13/94	800	2400	-6000	37.99	27.74	10/22/94	500	15180	6780	28.93	31.663
10/13/94	900	2460	-5940	43.43	25.39	10/22/94	600	15240	6840	29.24	31.5313
10/13/94	1000	2520	-5880	42.29	25.88	10/22/94	700	15300	6900	28.79	31.7241
10/13/94	1100	2580	-5820	40.76	26.54	10/22/94	800	15360	6960	30.24	31.097
10/13/94	1200	2640	-5760	39.86	26.93	10/22/94	900	15420	7020	31.78	30.432
10/13/94	1300	2700	-5700	40.25	26.77	10/22/94	1000	15480	7080	34.05	29.4493
10/13/94	1400	2760	-5640	40.37	26.71	10/22/94	1100	15540	7140	32.21	30.2459
10/13/94	1500	2820	-5580	38.51	27.52	10/22/94	1200	15600	7200	32.68	30.0402
10/13/94	1600	2880	-5520	37.54	27.94	10/22/94	1300	15660	7260	31.92	30.37
10/13/94	1700	2940	-5460	37.22	28.07	10/22/94	1400	15720	7320	31.59	30.513
10/13/94	1800	3000	-5400	37.63	27.90	10/22/94	1500	15780	7380	31.40	30.594
10/13/94	1900	3060	-5340	39.38	27.14	10/22/94	1600	15840	7440	30.98	30.777
10/13/94	2000	3120	-5280	37.27	28.06	10/22/94	1700	15900	7500	31.35	30.6178
10/13/94	2100	3180	-5220	36.09	28.57	10/22/94	1800	15960	7560	30.94	30.7936
10/13/94	2200	3240	-5160	35.19	28.95	10/22/94	1900	16020	7620	32.41	30.1599
10/13/94	2300	3300	-5100	34.44	29.28	10/22/94	2000	16080	7680	32.90	29.9468
10/14/94	0	3360	-5040	35.74	28.72	10/22/94	2100	16140	7740	32.05	30.3128
10/14/94	100	3420	-4980	35.28	28.92	10/22/94	2200	16200	7800	31.89	30.382
10/14/94	200	3480	-4920	34.27	29.35	10/22/94	2300	16260	7860	31.26	30.6582
10/14/94	300	3540	-4860	33.52	29.68	10/23/94	0	16320	7920	31.12	30.7152
10/14/94	400	3600	-4800	32.94	29.93	10/23/94	100	16380	7980	30.55	30.962
10/14/94	500	3660	-4740	32.43	30.15	10/23/94	200	16440	8040	30.13	31.1443

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/14/94	600	3720	-4680	32.55	30.10	10/23/94	300	16500	8100	29.81	31.2837
10/14/94	700	3780	-4620	31.92	30.37	10/23/94	400	16560	8160	30.12	31.1514
10/14/94	800	3840	-4560	39.81	26.96	10/23/94	500	16620	8220	29.64	31.3592
10/14/94	900	3900	-4500	43.50	25.36	10/23/94	600	16680	8280	29.30	31.5053
10/14/94	1000	3960	-4440	52.32	21.54	10/23/94	700	16740	8340	29.02	31.6254
10/14/94	1100	4020	-4380	51.59	21.86	10/23/94	800	16800	8400	30.87	30.8245
10/14/94	1200	4080	-4320	48.69	23.11	10/23/94	900	16860	8460	30.46	31.0023
10/14/94	1300	4140	-4260	45.22	24.61	10/23/94	1000	16920	8520	32.60	30.0762
10/14/94	1400	4200	-4200	43.69	25.28	10/23/94	1100	16980	8580	33.33	29.7621
10/14/94	1500	4260	-4140	41.32	26.30	10/23/94	1200	17040	8640	31.82	30.413
10/14/94	1600	4320	-4080	41.72	26.13	10/23/94	1300	17100	8700	31.93	30.3653
10/14/94	1700	4380	-4020	48.20	23.33	10/23/94	1400	17160	8760	31.78	30.4296
10/14/94	1800	4440	-3960	47.34	23.70	10/23/94	1500	17220	8820	30.99	30.7746
10/14/94	1900	4500	-3900	45.39	24.54	10/23/94	1600	17280	8880	31.28	30.6463
10/14/94	2000	4560	-3840	44.11	25.09	10/23/94	1700	17340	8940	33.30	29.7717
10/14/94	2100	4620	-3780	44.56	24.90	10/23/94	1800	17400	9000	35.85	28.6676
10/14/94	2200	4680	-3720	42.77	25.68	10/23/94	1900	17460	9060	34.71	29.1621
10/14/94	2300	4740	-3660	40.89	26.49	10/23/94	2000	17520	9120	35.69	28.738
10/15/94	0	4800	-3600	41.52	26.21	10/23/94	2100	17580	9180	34.37	29.3119
10/15/94	100	4860	-3540	39.75	26.98	10/23/94	2200	17640	9240	33.59	29.6491
10/15/94	200	4920	-3480	38.45	27.54	10/23/94	2300	17700	9300	32.48	30.1264
10/15/94	300	4980	-3420	37.44	27.98	10/24/94	0	17760	9360	32.34	30.1886
10/15/94	400	5040	-3360	36.56	28.36	10/24/94	100	17820	9420	31.48	30.5606
10/15/94	500	5100	-3300	35.79	28.70	10/24/94	200	17880	9480	31.05	30.7485
10/15/94	600	5160	-3240	35.10	28.99	10/24/94	300	17940	9540	31.36	30.613
10/15/94	700	5220	-3180	35.07	29.01	10/24/94	400	18000	9600	30.41	31.0236
10/15/94	800	5280	-3120	37.79	27.83	10/24/94	500	18060	9660	29.82	31.279
10/15/94	900	5340	-3060	40.44	26.68	10/24/94	600	18120	9720	29.61	31.3687
10/15/94	1000	5400	-3000	39.76	26.98	10/24/94	700	18180	9780	30.23	31.1017
10/15/94	1100	5460	-2940	38.70	27.44	10/24/94	800	18240	9840	30.21	31.1112
10/15/94	1200	5520	-2880	38.33	27.60	10/24/94	900	18300	9900	30.89	30.8173
10/15/94	1300	5580	-2820	38.55	27.50	10/24/94	1000	18360	9960	29.83	31.2766
10/15/94	1400	5640	-2760	37.57	27.93	10/24/94	1100	18420	10020	29.23	31.5336
10/15/94	1500	5700	-2700	38.06	27.71	10/24/94	1200	18480	10080	28.91	31.6724
10/15/94	1600	5760	-2640	38.60	27.48	10/24/94	1300	18540	10140	28.52	31.8415
10/15/94	1700	5820	-2580	39.99	26.88	10/24/94	1400	18600	10200	28.19	31.9845
10/15/94	1800	5880	-2520	39.50	27.09	10/24/94	1500	18660	10260	27.89	32.1156
10/15/94	1900	5940	-2460	40.09	26.84	10/24/94	1600	18720	10320	28.51	31.8462
10/15/94	2000	6000	-2400	39.02	27.30	10/24/94	1700	18780	10380	29.62	31.3663
10/15/94	2100	6060	-2340	39.98	26.88	10/24/94	1800	18840	10440	29.10	31.5901
10/15/94	2200	6120	-2280	38.92	27.34	10/24/94	1900	18900	10500	28.90	31.6771
10/15/94	2300	6180	-2220	38.44	27.55	10/24/94	2000	18960	10560	28.28	31.9447
10/16/94	0	6240	-2160	37.77	27.84	10/24/94	2100	19020	10620	27.81	32.1483
10/16/94	100	6300	-2100	36.43	28.42	10/24/94	2200	19080	10680	27.43	32.3142
10/16/94	200	6360	-2040	36.07	28.58	10/24/94	2300	19140	10740	27.97	32.0805
10/16/94	300	6420	-1980	35.07	29.01	10/25/94	0	19200	10800	27.44	32.3095
10/16/94	400	6480	-1920	34.87	29.09	10/25/94	100	19260	10860	27.08	32.4657
10/16/94	500	6540	-1860	34.00	29.47	10/25/94	200	19320	10920	26.81	32.5845
10/16/94	600	6600	-1800	33.34	29.75	10/25/94	300	19380	10980	27.12	32.4471
10/16/94	700	6660	-1740	33.61	29.64	10/25/94	400	19440	11040	26.77	32.5984
10/16/94	800	6720	-1680	41.12	26.39	10/25/94	500	19500	11100	26.48	32.7263
10/16/94	900	6780	-1620	43.12	25.52	10/25/94	600	19560	11160	26.38	32.7704
10/16/94	1000	6840	-1560	39.69	27.01	10/25/94	700	19620	11220	26.10	32.891
10/16/94	1100	6900	-1500	39.19	27.22	10/25/94	800	19680	11280	28.66	31.7805
10/16/94	1200	6960	-1440	37.46	27.97	10/25/94	900	19740	11340	27.66	32.2161
10/16/94	1300	7020	-1380	36.19	28.52	10/25/94	1000	19800	11400	32.78	29.9995
10/16/94	1400	7080	-1320	40.62	26.60	10/25/94	1100	19860	11460	41.71	26.1312
10/16/94	1500	7140	-1260	42.65	25.73	10/25/94	1200	19920	11520	42.06	25.9811
10/16/94	1600	7200	-1200	46.83	23.92	10/25/94	1300	19980	11580	41.14	26.3783
10/16/94	1700	7260	-1140	44.63	24.87	10/25/94	1400	20040	11640	38.20	27.6531
10/16/94	1800	7320	-1080	42.70	25.70	10/25/94	1500	20100	11700	37.52	27.9476
10/16/94	1900	7380	-1020	41.49	26.23	10/25/94	1600	20160	11760	35.47	28.8351
10/16/94	2000	7440	-960	41.47	26.24	10/25/94	1700	20220	11820	34.71	29.1645
10/16/94	2100	7500	-900	40.62	26.60	10/25/94	1800	20280	11880	33.81	29.5505
10/16/94	2200	7560	-840	38.84	27.37	10/25/94	1900	20340	11940	35.37	28.8764
10/16/94	2300	7620	-780	38.66	27.45	10/25/94	2000	20400	12000	33.69	29.6034
10/17/94	0	7680	-720	37.33	28.03	10/25/94	2100	20460	12060	32.61	30.0738
10/17/94	100	7740	-660	36.32	28.47	10/25/94	2200	20520	12120	34.28	29.3481
10/17/94	200	7800	-600	35.42	28.85	10/25/94	2300	20580	12180	33.90	29.512
10/17/94	300	7860	-540	35.38	28.87	10/26/94	0	20640	12240	33.20	29.8173
10/17/94	400	7920	-480	34.52	29.25	10/26/94	100	20700	12300	32.14	30.2746
10/17/94	500	7980	-420	34.32	29.33	10/26/94	200	20760	12360	32.06	30.3104
10/17/94	600	8040	-360	33.58	29.65	10/26/94	300	20820	12420	31.21	30.6796
10/17/94	700	8100	-300	33.60	29.64	10/26/94	400	20880	12480	31.33	30.6273

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/17/94	800	8160	-240	34.89	29.09	10/26/94	500	20940	12540	30.48	30.9952
10/17/94	900	8220	-180	43.21	25.48	10/26/94	600	21000	12600	29.92	31.2365
10/17/94	1000	8280	-120	52.59	21.42	10/26/94	700	21060	12660	29.43	31.4465
10/17/94	1100	8340	-60	54.34	20.67	10/26/94	800	21120	12720	31.94	30.3605
10/17/94	1200	8400	0	50.10	22.50	10/26/94	900	21180	12780	33.67	29.6131
10/17/94	1300	8460	60	47.28	23.72	10/26/94	1000	21240	12840	32.30	30.2053
10/17/94	1400	8520	120	48.46	23.21	10/26/94	1100	21300	12900	38.61	27.4735
10/17/94	1500	8580	180	44.88	24.76	10/26/94	1200	21360	12960	45.09	24.6676
10/17/94	1600	8640	240	43.83	25.21	10/26/94	1300	21420	13020	39.98	26.8804
10/17/94	1700	8700	300	41.85	26.07	10/26/94	1400	21480	13080	37.39	28.0039
10/17/94	1800	8760	360	40.54	26.64	10/26/94	1500	21540	13140	35.65	28.755
10/17/94	1900	8820	420	42.82	25.65	10/26/94	1600	21600	13200	34.37	29.3095
10/17/94	2000	8880	480	42.15	25.94	10/26/94	1700	21660	13260	35.51	28.8181
10/17/94	2100	8940	540	39.87	26.93	10/26/94	1800	21720	13320	46.67	23.9846
10/17/94	2200	9000	600	38.64	27.46	10/26/94	1900	21780	13380	50.28	22.4217
10/17/94	2300	9060	660	38.28	27.62	10/26/94	2000	21840	13440	50.50	22.3255
10/18/94	0	9120	720	40.13	26.82	10/26/94	2100	21900	13500	49.77	22.6451
10/18/94	100	9180	780	39.56	27.06	10/26/94	2200	21960	13560	46.48	24.0664
10/18/94	200	9240	840	38.00	27.74	10/26/94	2300	22020	13620	44.44	24.949
10/18/94	300	9300	900	36.94	28.20	10/27/94	0	22080	13680	42.09	25.9686
10/18/94	400	9360	960	36.03	28.59	10/27/94	100	22140	13740	41.07	26.4107
10/18/94	500	9420	1020	35.29	28.91	10/27/94	200	22200	13800	39.47	27.1032
10/18/94	600	9480	1080	35.20	28.95	10/27/94	300	22260	13860	38.30	27.6088
10/18/94	700	9540	1140	34.41	29.29	10/27/94	400	22320	13920	37.20	28.0847
10/18/94	800	9600	1200	36.19	28.52	10/27/94	500	22380	13980	37.21	28.0823
10/18/94	900	9660	1260	43.42	25.39	10/27/94	600	22440	14040	36.88	28.2216
10/18/94	1000	9720	1320	50.75	22.22	10/27/94	700	22500	14100	36.10	28.5605
10/18/94	1100	9780	1380	49.61	22.71	10/27/94	800	22560	14160	38.35	27.5891
10/18/94	1200	9840	1440	55.44	20.19	10/27/94	900	22620	14220	41.74	26.1212
10/18/94	1300	9900	1500	58.56	18.84	10/27/94	1000	22680	14280	40.81	26.5227
10/18/94	1400	9960	1560	53.07	21.22	10/27/94	1100	22740	14340	38.76	27.4094
10/18/94	1500	10020	1620	49.20	22.89	10/27/94	1200	22800	14400	37.66	27.8863
10/18/94	1600	10080	1680	47.13	23.79	10/27/94	1300	22860	14460	36.86	28.2314
10/18/94	1700	10140	1740	44.85	24.77	10/27/94	1400	22920	14520	37.54	27.9378
10/18/94	1800	10200	1800	44.90	24.75	10/27/94	1500	22980	14580	37.69	27.874
10/18/94	1900	10260	1860	47.85	23.48	10/27/94	1600	23040	14640	36.68	28.3095
10/18/94	2000	10320	1920	46.84	23.91	10/27/94	1700	23100	14700	37.83	27.8103
10/18/94	2100	10380	1980	46.24	24.17	10/27/94	1800	23160	14760	36.69	28.3046
10/18/94	2200	10440	2040	45.33	24.57	10/27/94	1900	23220	14820	39.39	27.1379
10/18/94	2300	10500	2100	43.76	25.25	10/27/94	2000	23280	14880	37.73	27.8569
10/19/94	0	10560	2160	42.69	25.71	10/27/94	2100	23340	14940	40.59	26.6172
10/19/94	100	10620	2220	41.21	26.35	10/27/94	2200	23400	15000	39.03	27.2935
10/19/94	200	10680	2280	40.10	26.83	10/27/94	2300	23460	15060	37.18	28.0945
10/19/94	300	10740	2340	39.09	27.27	10/28/94	0	23520	15120	37.94	27.7636
10/19/94	400	10800	2400	38.20	27.65	10/28/94	100	23580	15180	36.91	28.2118
10/19/94	500	10860	2460	37.41	27.99	10/28/94	200	23640	15240	35.73	28.721
10/19/94	600	10920	2520	37.49	27.96	10/28/94	300	23700	15300	34.76	29.1428
10/19/94	700	10980	2580	42.08	25.97	10/28/94	400	23760	15360	34.03	29.4566
10/19/94	800	11040	2640	47.58	23.59	10/28/94	500	23820	15420	33.35	29.7525
10/19/94	900	11100	2700	48.46	23.21	10/28/94	600	23880	15480	32.77	30.0019
10/19/94	1000	11160	2760	48.27	23.29	10/28/94	700	23940	15540	33.50	29.6876
10/19/94	1100	11220	2820	45.11	24.66	10/28/94	800	24000	15600	34.23	29.3698
10/19/94	1200	11280	2880	43.01	25.57	10/28/94	900	24060	15660	34.39	29.2998
10/19/94	1300	11340	2940	41.42	26.26	10/28/94	1000	24120	15720	35.72	28.7259
10/19/94	1400	11400	3000	40.16	26.80	10/28/94	1100	24180	15780	39.91	26.9101
10/19/94	1500	11460	3060	39.09	27.27	10/28/94	1200	24240	15840	39.73	26.9894
10/19/94	1600	11520	3120	38.14	27.68	10/28/94	1300	24300	15900	37.94	27.7661
10/19/94	1700	11580	3180	37.95	27.76	10/28/94	1400	24360	15960	38.24	27.6334
10/19/94	1800	11640	3240	37.98	27.75	10/28/94	1500	24420	16020	36.35	28.4509
10/19/94	1900	11700	3300	37.75	27.85	10/28/94	1600	24480	16080	41.22	26.3434
10/19/94	2000	11760	3360	36.72	28.29	10/28/94	1700	24540	16140	44.15	25.078
10/19/94	2100	11820	3420	37.94	27.77	10/28/94	1800	24600	16200	43.99	25.1462
10/19/94	2200	11880	3480	37.33	28.03	10/28/94	1900	24660	16260	41.18	26.3633
10/19/94	2300	11940	3540	37.10	28.13	10/28/94	2000	24720	16320	39.10	27.2614
10/20/94	0	12000	3600	36.05	28.58	10/28/94	2100	24780	16380	37.58	27.9206
10/20/94	100	12060	3660	35.32	28.90	10/28/94	2200	24840	16440	36.41	28.4266
10/20/94	200	12120	3720	34.70	29.17	10/28/94	2300	24900	16500	36.11	28.5557
10/20/94	300	12180	3780	34.17	29.40	10/29/94	0	24960	16560	35.89	28.6505
10/20/94	400	12240	3840	34.27	29.36	10/29/94	100	25020	16620	35.55	28.7987
10/20/94	500	12300	3900	34.17	29.40	10/29/94	200	25080	16680	34.55	29.2322
10/20/94	600	12360	3960	36.12	28.55	10/29/94	300	25140	16740	33.80	29.5577
10/20/94	700	12420	4020	35.15	28.97	10/29/94	400	25200	16800	33.15	29.8365
10/20/94	800	12480	4080	35.59	28.78	10/29/94	500	25260	16860	33.24	29.7981
10/20/94	900	12540	4140	34.45	29.28	10/29/94	600	25320	16920	32.52	30.1096

PUMPING DATA

Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/20/94	1000	12600	4200	41.90	26.05
10/20/94	1100	12660	4260	44.67	24.85
10/20/94	1200	12720	4320	42.04	25.99

RECOVERY DATA

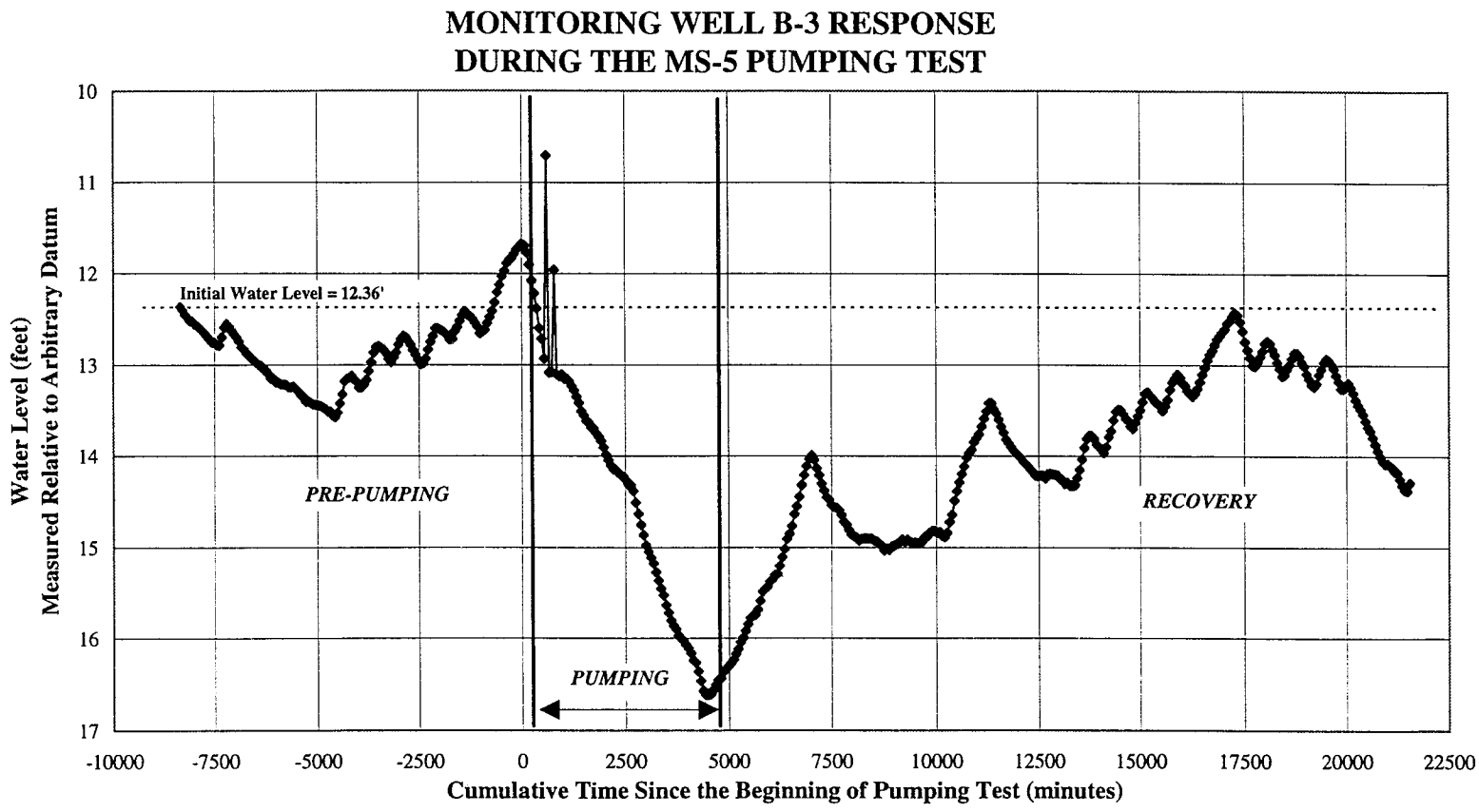
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
10/29/94	700	25380	16980	32.78	29.9995
10/29/94	800	25440	17040	34.54	29.2346
10/29/94	900	25500	17100	36.56	28.3607
10/29/94	1000	25560	17160	34.92	29.0726
10/29/94	1100	25620	17220	37.44	27.9794
10/29/94	1200	25680	17280	36.81	28.2558
10/29/94	1300	25740	17340	38.72	27.4291
10/29/94	1400	25800	17400	36.35	28.4509
10/29/94	1500	25860	17460	35.02	29.029
10/29/94	1600	25920	17520	34.05	29.4493
10/29/94	1700	25980	17580	33.23	29.8029
10/29/94	1800	26040	17640	32.55	30.1001
10/29/94	1900	26100	17700	31.97	30.3486
10/29/94	2000	26160	17760	32.16	30.2674
10/29/94	2100	26220	17820	33.28	29.7837
10/29/94	2200	26280	17880	32.80	29.99
10/29/94	2300	26340	17940	31.90	30.3796
10/30/94	0	26400	18000	31.43	30.5821
10/30/94	100	26460	18060	30.90	30.8102
10/30/94	200	26520	18120	31.71	30.463
10/30/94	300	26580	18180	30.89	30.815
10/30/94	400	26640	18240	30.44	31.0094
10/30/94	500	26700	18300	29.93	31.2317
10/30/94	600	26760	18360	29.72	31.3215
10/30/94	700	26820	18420	29.33	31.4936
10/30/94	800	26880	18480	30.77	30.8672
10/30/94	900	26940	18540	35.01	29.0339
10/30/94	1000	27000	18600	36.90	28.2167
10/30/94	1100	27060	18660	34.45	29.2757
10/30/94	1200	27120	18720	33.04	29.8845
10/30/94	1300	27180	18780	32.09	30.2984
10/30/94	1400	27240	18840	33.62	29.6347
10/30/94	1500	27300	18900	32.47	30.1312
10/30/94	1600	27360	18960	33.28	29.7837
10/30/94	1700	27420	19020	32.20	30.2483
10/30/94	1800	27480	19080	32.24	30.2316
10/30/94	1900	27540	19140	35.51	28.8157
10/30/94	2000	27600	19200	39.26	27.1922
10/30/94	2100	27660	19260	36.72	28.2924
10/30/94	2200	27720	19320	36.93	28.2021
10/30/94	2300	27780	19380	36.77	28.2729
10/31/94	0	27840	19440	34.85	29.1041
10/31/94	100	27900	19500	34.22	29.377
10/31/94	200	27960	19560	33.21	29.8125
10/31/94	300	28020	19620	32.36	30.179
10/31/94	400	28080	19680	31.70	30.4654
10/31/94	500	28140	19740	31.13	30.7129
10/31/94	600	28200	19800	36.16	28.5338
10/31/94	700	28260	19860	35.09	29
10/31/94	800	28320	19920	33.51	29.6804
10/31/94	900	28380	19980	33.64	29.6251
10/31/94	1000	28440	20040	34.07	29.4397
10/31/94	1100	28500	20100	33.65	29.6227
10/31/94	1200	28560	20160	35.27	28.9224
10/31/94	1300	28620	20220	34.86	29.0968
10/31/94	1400	28680	20280	33.79	29.5625
10/31/94	1500	28740	20340	32.77	30.0043
10/31/94	1600	28800	20400	31.98	30.3462
10/31/94	1700	28860	20460	31.95	30.3581
10/31/94	1800	28920	20520	32.92	29.9373
10/31/94	1900	28980	20580	32.80	29.99
10/31/94	2000	29040	20640	34.10	29.4252
10/31/94	2100	29100	20700	35.77	28.704
10/31/94	2200	29160	20760	34.42	29.2877
10/31/94	2300	29220	20820	34.54	29.237
11/1/94	0	29280	20880	33.70	29.5986
11/1/94	100	29340	20940	33.11	29.8557
11/1/94	200	29400	21000	32.42	30.1527
11/1/94	300	29460	21060	31.65	30.4892
11/1/94	400	29520	21120	31.04	30.7509
11/1/94	500	29580	21180	31.18	30.6891
11/1/94	600	29640	21240	31.40	30.5963
11/1/94	700	29700	21300	30.57	30.9573
11/1/94	800	29760	21360	30.06	31.1774

PUMPING DATA						RECOVERY DATA					
Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading	Date	24 Hour Time Hour/Min.	Geokon Cum. Time (min.)	Test Cum. Time (min.)	Water Level (feet)	Geokon Reading
						11/1/94	900	29820	21420	32.64	30.0594
						11/1/94	1000	29880	21480	32.57	30.0905
						11/1/94	1100	29940	21540	32.06	30.3104
						11/1/94	1200	30000	21600	38.23	27.6383

APPENDIX H

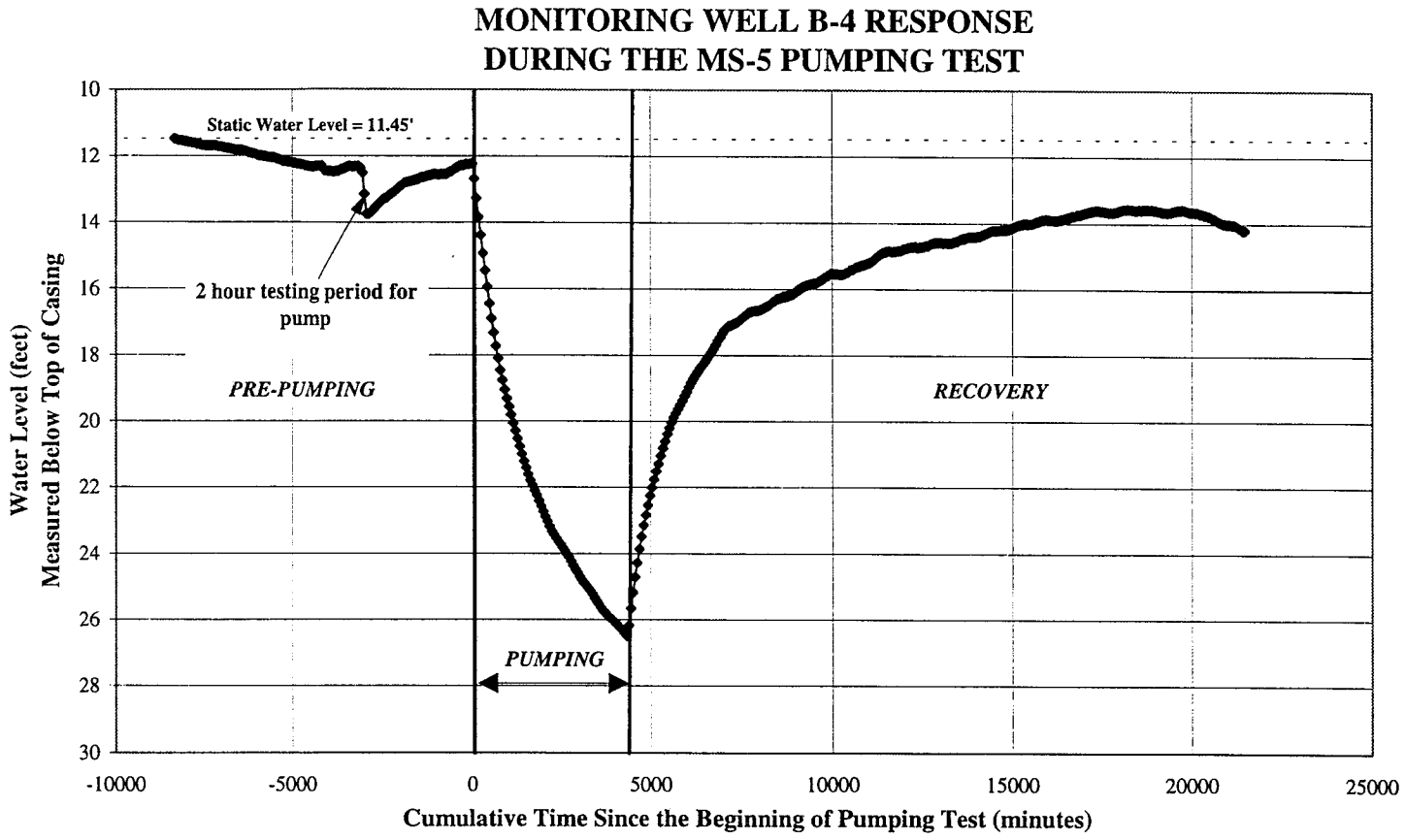
PLOTS FOR CONSTANT RATE PUMPING TEST
of
WELL MS-5 NEW

Emery & Garrett Groundwater, Inc.



Arithmetic Plot of Time versus Water Level for Monitoring Well B-3 Throughout the Monitoring Period October 11 to November 1, 1994, Bealeton, Virginia

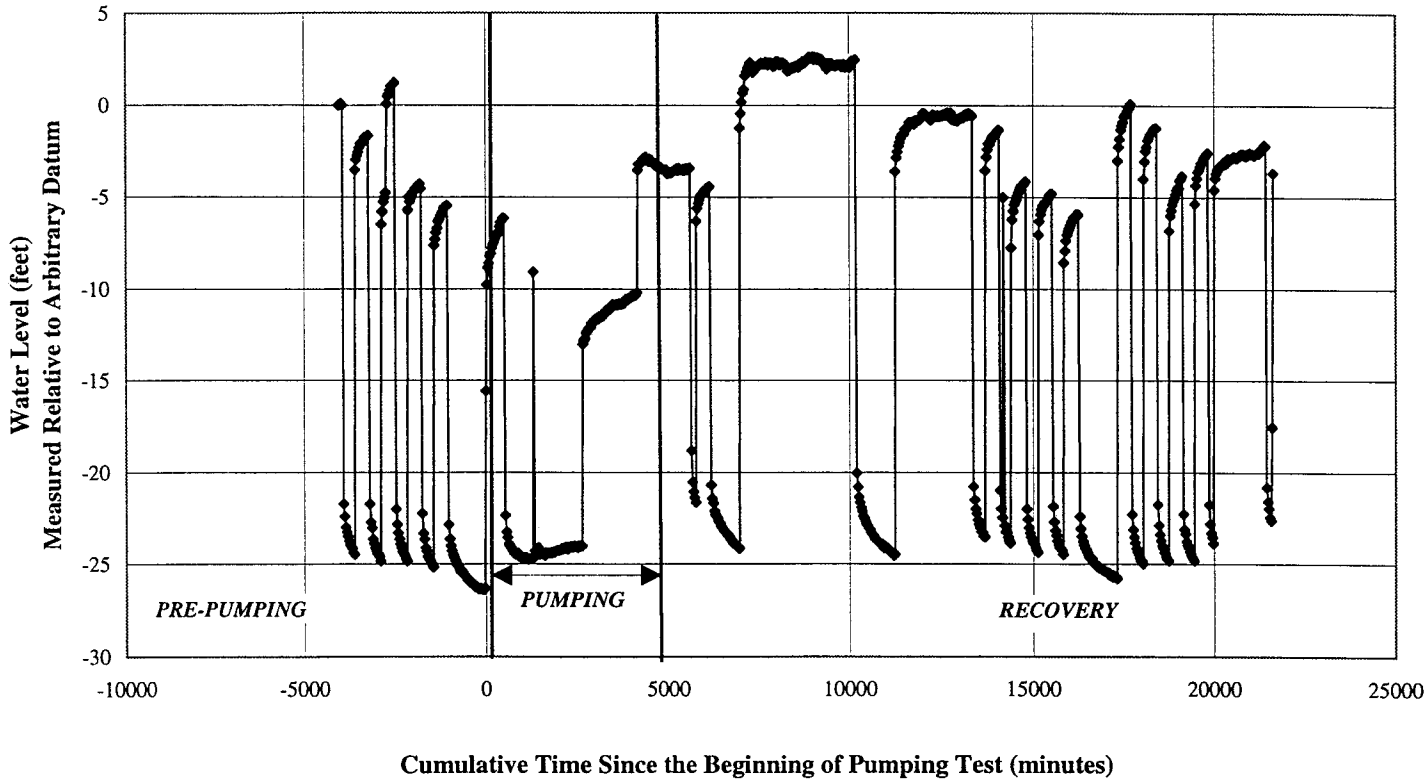
Emery and Garrett Groundwater, Inc.



Arithmetic Plot of Time versus Water Level
for Monitoring Well B-4 Throughout the Monitoring Period October 11 to November 1, 1994
Bealeton, Virginia

Emery and Garrett Groundwater, Inc.

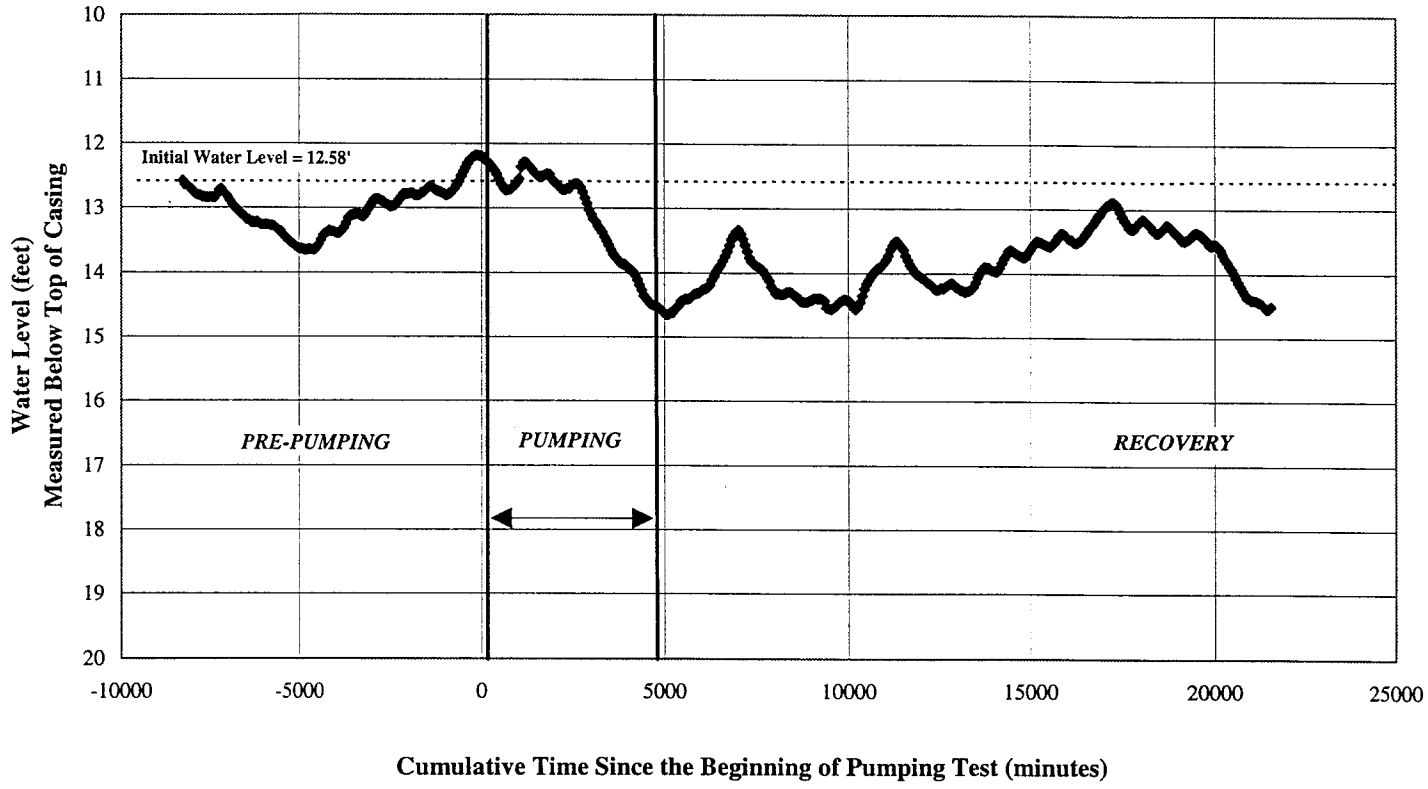
MEADOWBROOKE PRODUCTION WELL RESPONSE DURING THE MS-5 PUMPING TEST



Arithmetic Plot of Time versus Water Level
for the Meadowbrooke Production Well Throughout the Monitoring Period October 11 to November 1, 1994
Bealeton, Virginia

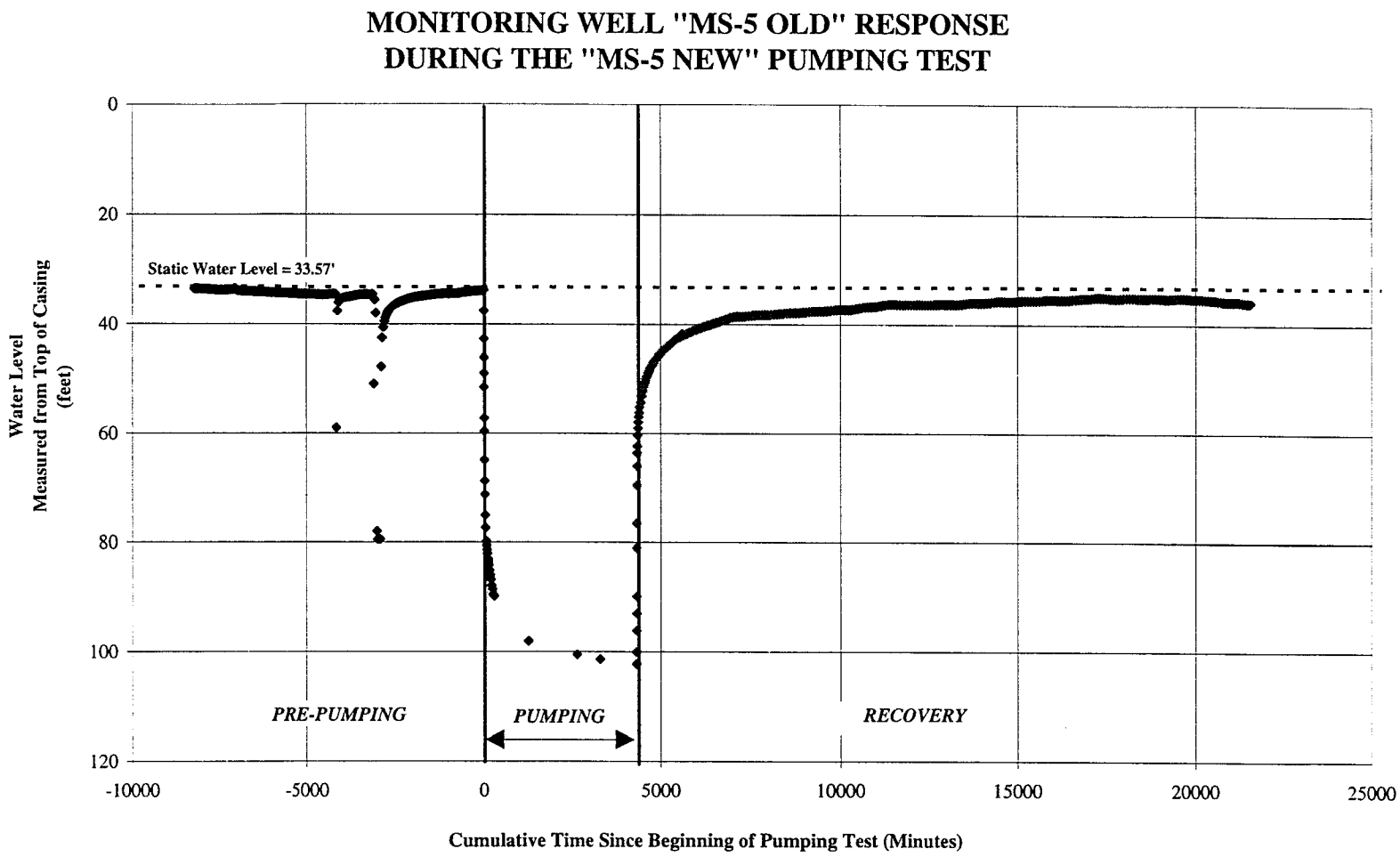
Emery and Garrett Groundwater, Inc.

MONITORING WELL MS-3 RESPONSE DURING THE MS-5 PUMPING TEST



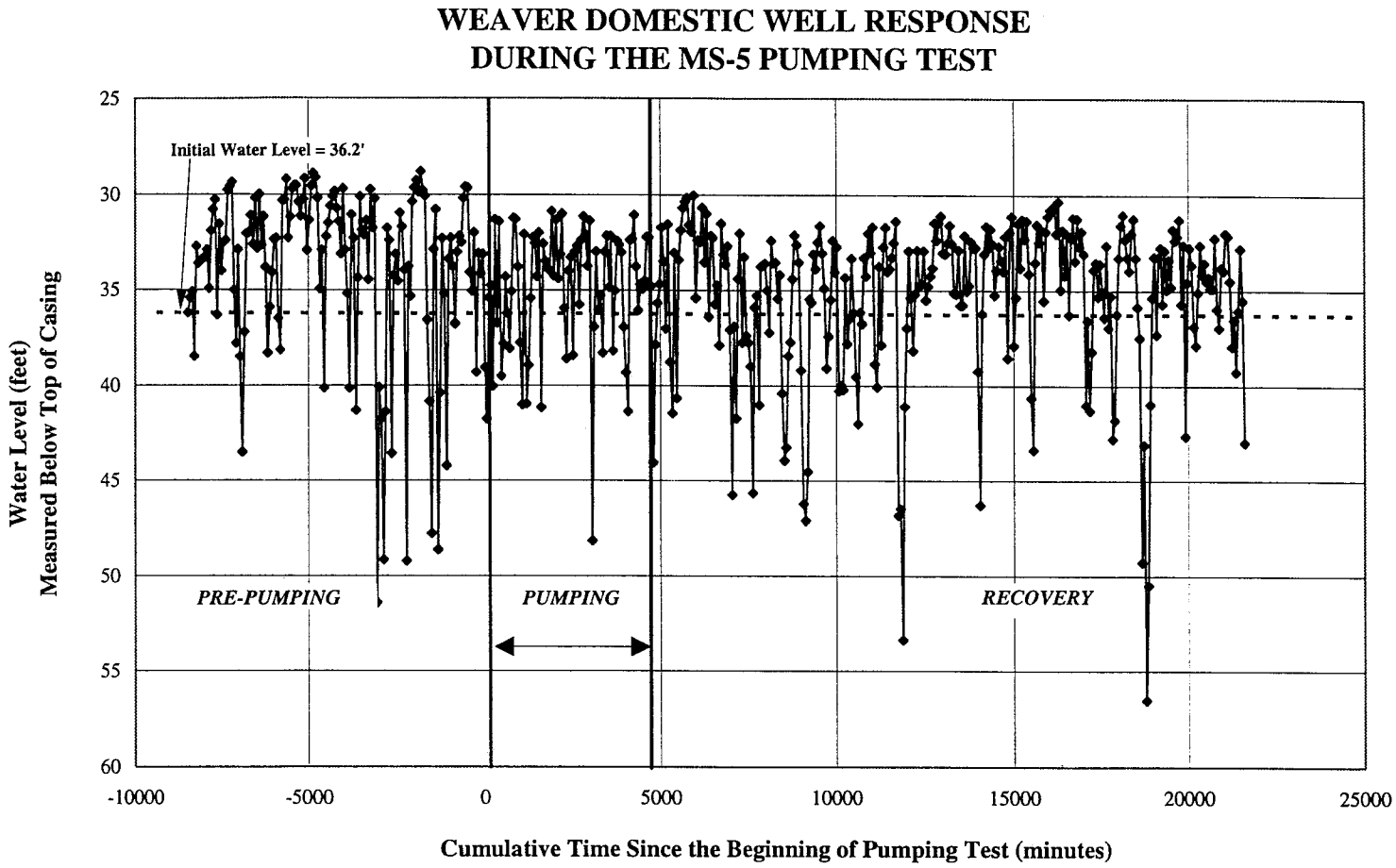
Arithmetic Plot of Time versus Water Level
for Monitoring Well MS-3 Throughout the Monitoring Period October 11 to November 1, 1994
Bealeton, Virginia

Emery and Garrett Groundwater, Inc.



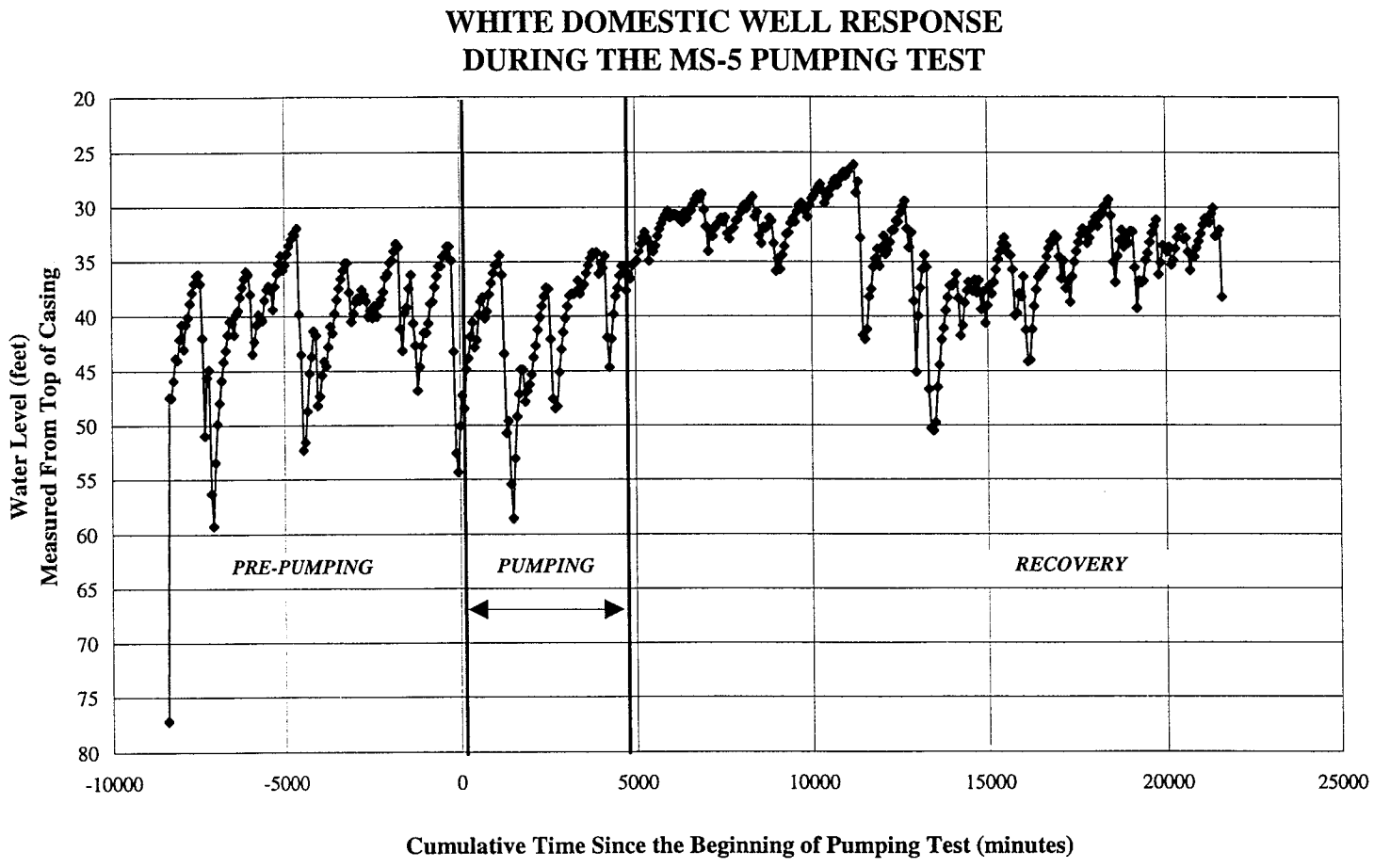
Arithmetic Plot of Time versus Water Level
Well "MS-5 OLD" Throughout the Monitoring Period October 11 to November 1, 1994, Bealeton, Virginia

Emery and Garrett Groundwater, Inc.



Arithmetic Plot of Time versus Water Level
for the Weaver Domestic Well Throughout the Monitoring Period October 11 to November 1, 1994
Bealeton, Virginia

Emery and Garrett Groundwater, Inc.



Arithmetic Plot of Time versus Water Level
for the White Domestic Well Throughout the Monitoring Period October 11 to November 1, 1994
Bealeton, Virginia

Emery and Garrett Groundwater, Inc.