

C 1 04438

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER 13 A510158

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER Huber STREET OR RFD 4078 Roxbury Mills Road Leondina Dr TOWN Glenwood SUBDIVISION SECTION LOT Parcel 13

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows: Red Clay, Wetsilty sand, gravel, Rock.

GROUTING RECORD form: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS (15), NO. OF POUNDS (750), GALLONS OF WATER (105), DEPTH OF GROUT SEAL (0 to 45 ft).

CASING RECORD form: casing types (ST, CO, PL, OT), MAIN CASING TYPE (ST), Nominal diameter (6 inch), Total depth (45 feet).

OTHER CASING (if used) form: diameter, depth (feet) from to.

SCREEN RECORD form: screen type (ST, BR, HO, PL, OT), insert appropriate code below.

NUMBER OF UNSUCCESSFUL WELLS: None

WELL HYDROFRACTURED (Y) (N)

CIRCLE APPROPRIATE LETTER: A, E, P

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT.

DRILLERS LIC. NO. 1 M W D 3 3 6 1 DRILLERS SIGNATURE LIC. NO. 1 D

DEPTH (nearest ft.) table with columns 1-21 and rows E, A, C, H, S, R, E, N.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST form: HOURS PUMPED (3), PUMPING RATE (37 gal. per min.), METHOD USED TO MEASURE PUMPING RATE (Meter), WATER LEVEL (distance from land surface) BEFORE PUMPING (39 ft), WHEN PUMPING (44 ft), TYPE OF PUMP USED (A air, C centrifugal, J jet, P piston, R rotary, S submersible, T turbine, O other).

PUMP INSTALLED form: DRILLER INSTALLED PUMP (YES/NO), TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29, CAPACITY: GALLONS PER MINUTE (31 to 35), PUMP HORSE POWER (37 to 41), PUMP COLUMN LENGTH (43 to 47), CASING HEIGHT (circle appropriate box and enter casing height) above/below LAND SURFACE (2 foot).

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

See Attached

B 1 6584

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

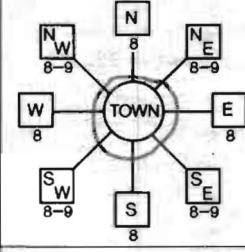
STATE PERMIT NUMBER HD-94-3441

OWNER INFORMATION: Date Received (APA) 07 25 02, Huber, 4078 Roxbury Mills Road, Glenwood, MD 20833

LOCATION OF WELL: Howard, 8 COUNTY, 21, 23 SUBDIVISION, 42, SECTION 44 46, LOT 48 50, Glenwood, 52 NEAREST TOWN, 71, MILES FROM TOWN 0

DRILLER INFORMATION: Mibbae W. Huber, M W D 336, CHESAPEAKE GEOSYSTEMS, INC., 6720 Ft. Smallwood RD Balto., MD 21226, Signature: Michael W. Huber, Date: 7/22

4078 Roxbury Mills Road, NEAR WHAT ROAD, ON WHICH SIDE OF ROAD, DISTANCE FROM ROAD 600 FT, TAX MAP: 21, BLK: 8, PARCEL 13



WELL INFORMATION: APPROX. PUMPING RATE NA, AVERAGE DAILY QUANTITY NEEDED NA

USE FOR WATER (CIRCLE APPROPRIATE BOX): D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL: HOWARD, A510158, COUNTY NAME, COUNTY NO., STATE SIGNATURE, DATE ISSUED 07/26/02, EXP. DATE 7/26/02, NORTH GRID 520 000, EAST GRID 784 000

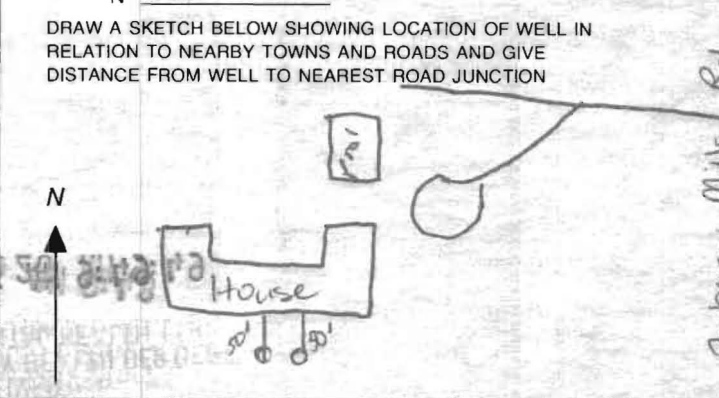
APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 4 INCH

METHOD OF DRILLING (circle one): JETTED & DRIVEN, ROTARY (Hydraulic Rotary)

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX): THIS WELL WILL NOT REPLACE AN EXISTING WELL

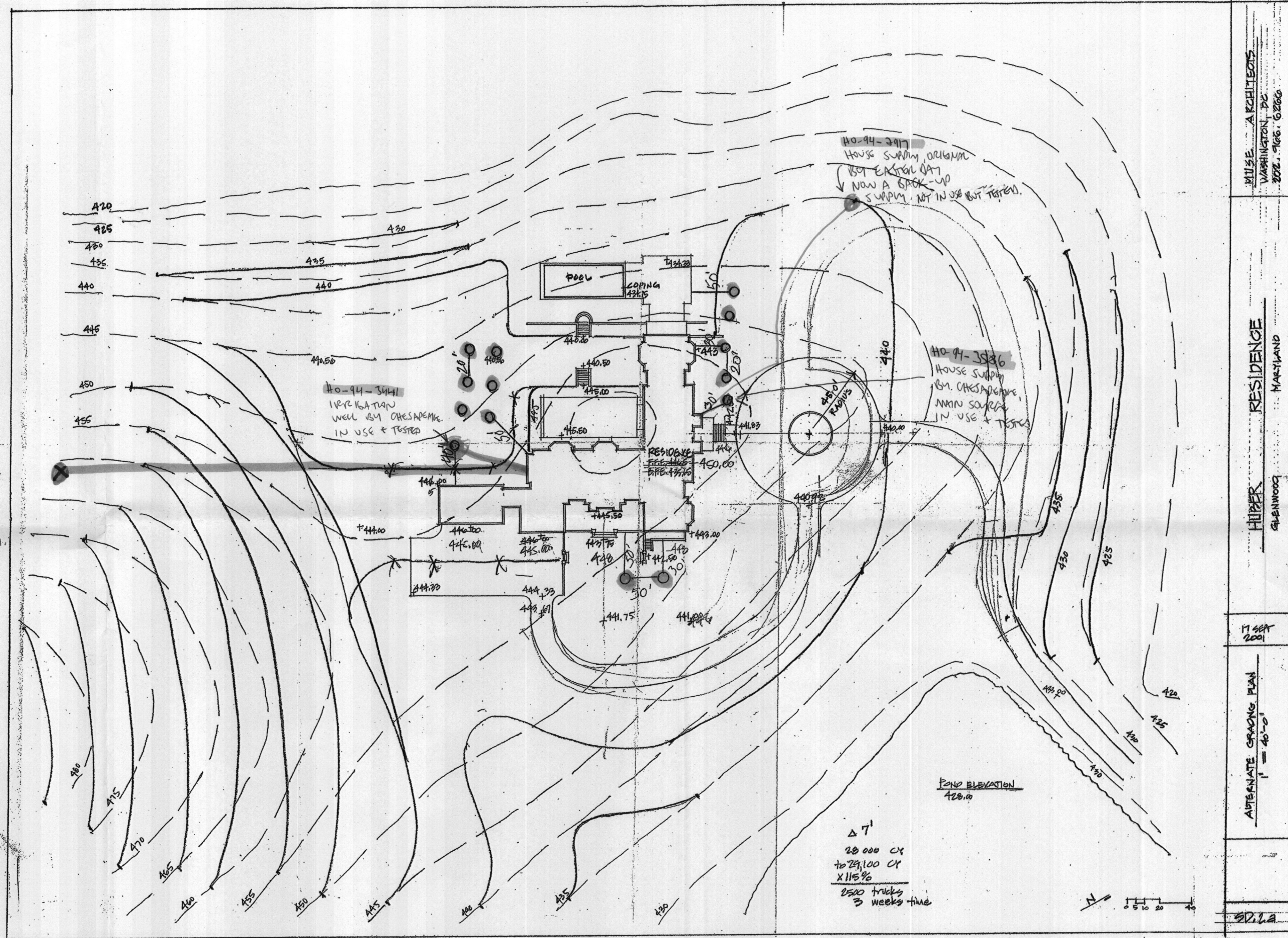
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X, SOURCES OF DRILLING WATER, WRITE THE BOX NUMBER FROM THE MAP HERE, E 784, N 520



Not to be filled in by driller (MDE OR COUNTY USE ONLY), APPROP. PERMIT NUMBER, PERMIT No. HD-94-3441

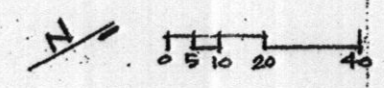
SPECIAL CONDITIONS, NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

PK-EXISTING WGM
 DRAWN BY
 EPSTEIN
 PIPE + WIRE ONLY
 NOT IN USE,
 NOT TESTED,
 NO RAMP.



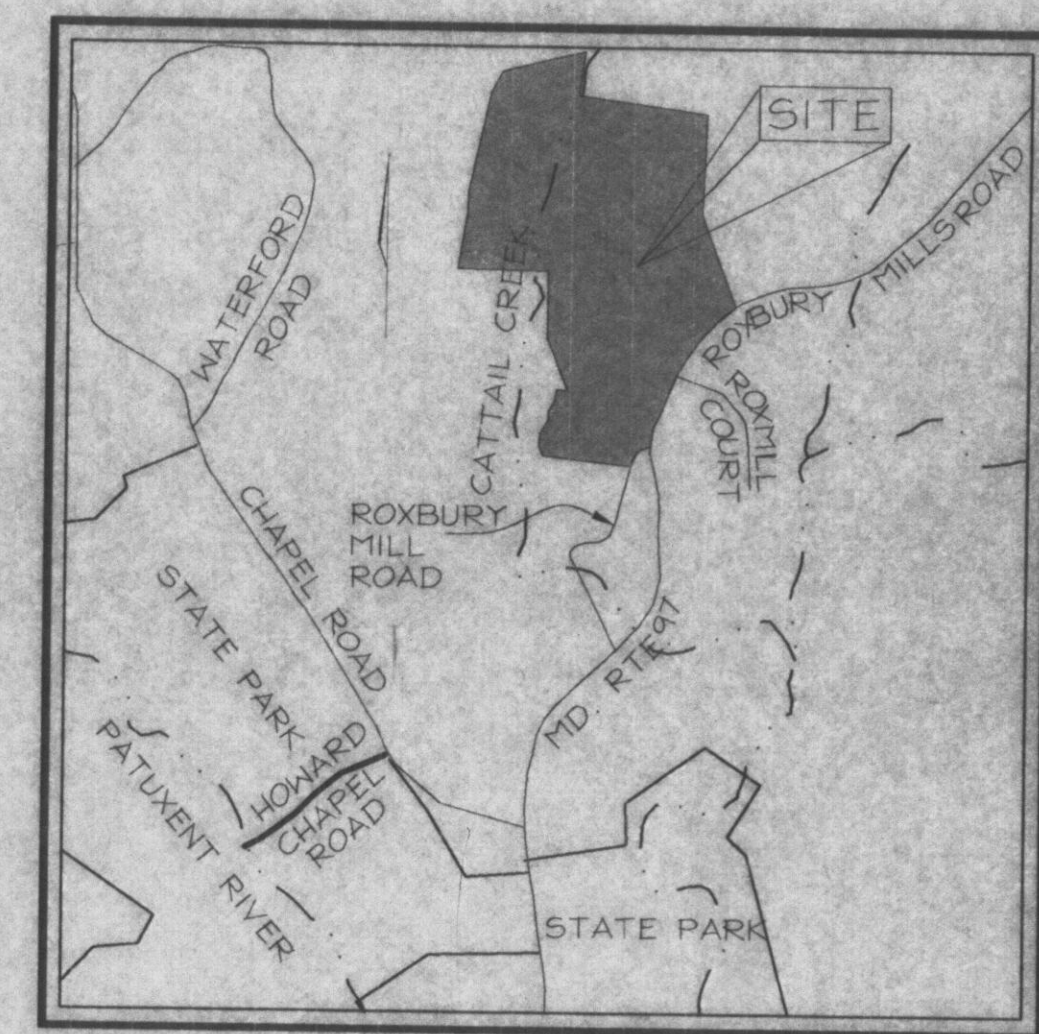
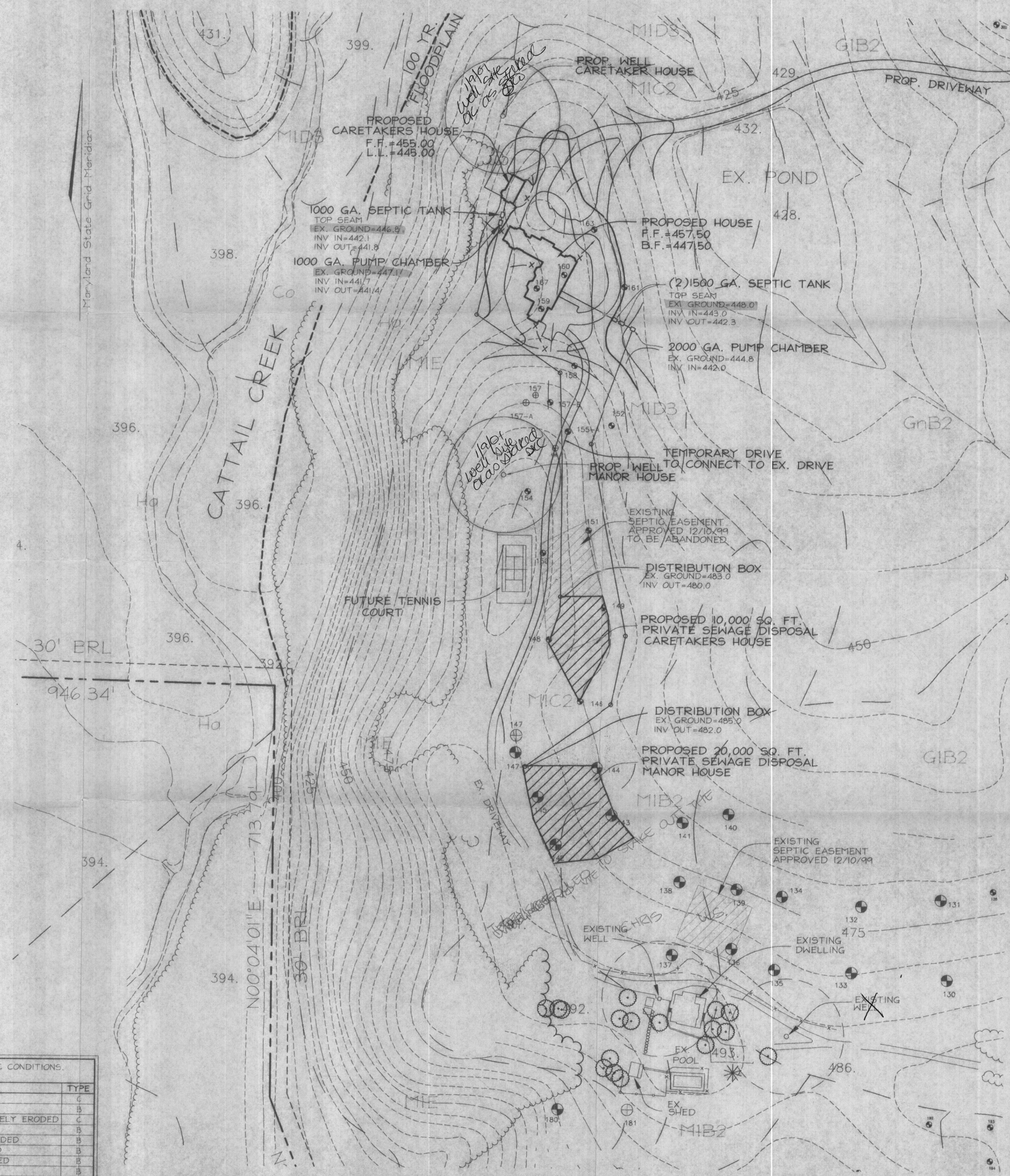
△ 7'
 20,000 CY
 to 29,100 CY
 X 115%
 2500 trucks
 3 weeks time

POND ELEVATION
 420.00



- ① ● POTABLE WELLS IDENTIFIED BY NUMBER + TESTED
- ② ● GEOTHERMAL WELLS, NOT TESTED FOR POTABILITY

MUSE A RCHITECTS
 WASHINGTON, DC
 202.916.6266
 HUBER RESIDENCE
 GREENWOOD MARYLAND
 11 SEP 2001
 ALTERNATE GRADING PLAN
 1" = 40'-0"
 92.12



VICINITY MAP
SCALE 1" = 2000'

GENERAL NOTES

- EXISTING ZONING = RC-DEO
- GROSS AREA OF TRACT = 167 AC±
- THE PROPERTY SHOWN HEREON IS PART OF THE FIRST PARCEL, ALL OF THE SECOND PARCEL AND PART OF THE THIRD PARCEL OF LIBER 257 FOLIO 518.
- COURSES AND DISTANCES SHOWN HEREON ARE BASED ON THE MARYLAND STATE GRID MERIDIAN AS PROJECTED BY HOWARD COUNTY CONTROL STATIONS
21DA N 582213.3720 E 1298954.8540
21EA N 582715.1330 E 1300495.9840
- THE PROJECT BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN BOUNDARY SURVEY BY VOGEL & ASSOCIATES DATED JULY, 1988.
- THE TOPOGRAPHY SHOWN HEREON IS BASED ON THE HOWARD COUNTY PHOTOGRAMETRIC MAPS.
- WATER AND SEWER SYSTEMS FOR THIS PROJECT WILL BE PRIVATE.
- THIS PROPERTY IS NOT WITHIN THE METROPOLITAN DISTRICT.
- TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL/CEMETERY LOCATIONS ON THIS SITE.
- EXISTING BUILDINGS ARE TO REMAIN.
- THE EXISTING WELL ON THE TENANT HOUSE SITE IS TO REMAIN AND IS TO BE USED FOR IRRIGATION PURPOSES ONLY.
- IN ACCORDANCE WITH SECTION 104.C.2 OF THE ZONING REGULATIONS A FARM TENANT HOUSE OR CARETAKER DWELLING IS ALLOWED AS AN ACCESSORY HOUSE FOR PARCELS GREATER THAN 50 ACRES.
- APPROXIMATE LIMIT OF DISTURBANCE: 3.3 AC. (143,748 SF)
- FLOODPLAIN BASED ON HOWARD COUNTY STUDY CATTAIL CREEK.

THIS AREA DESIGNATES A PRIVATE EASEMENT REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BE NULL AND VOID UPON CONNECTION TO A PUBLIC SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT NOT BE NECESSARY.

APPROVED FOR PRIVATE WELLS AND PRIVATE SEPTIC SYSTEMS

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

WELL SITE ONLY
SEPTIC CERTIFICATION PLAN
HUBER ESTATE
1 ROXBURY MILLS ROAD
TAX MAP #21 PARCEL 13 BLOCK #8
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS

3891 Park Avenue, Suite 101 • Elksoft City Maryland 21043
Tel 410.461.5828 Fax 410.465.3966

DESIGN BY: JCO
DRAWN BY: JCO
CHECKED BY: RHY
DATE: Dec 13, 2000
SCALE: 1"=100'
W.O. NO.: 99-133

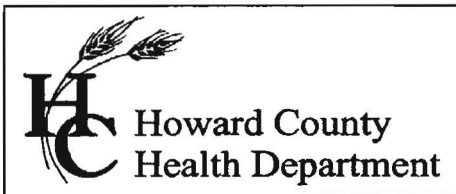
1 SHEET OF 1

LEGEND

- 277 PASSED PERC TEST
- ⊕ 277-A FAILED PERC TEST
- - - EXISTING CONTOUR
- ▤ EXISTING TREELINE
- - - SOILS BOUNDARY
- PROPOSED WELL

SOILS LEGEND * DESIGNATED AS A SOIL CONTAINING HYDRIC CONDITIONS. - HOWARD SOIL SURVEY, MAP NUMBER 12

SYMBOL	NAME / DESCRIPTION	TYPE
Co	COBORUS SILT LOAM	C
GIB2	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B
GnB2	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
MIB2	MANOR LOAM, 0 TO 3 PERCENT SLOPES	B
MIC2	MANOR LOAM, 3 TO 15 PERCENT SLOPES, MODERATELY ERODED	B
MIC3	MANOR LOAM, 3 TO 8 PERCENT SLOPES, SEVERELY ERODED	B
MID3	MANOR LOAM, 15 TO 25 PERCENT SLOPES, SEVERELY ERODED	B
MnD	MANOR VERY STONY LOAM, 3 TO 25 PERCENT SLOPES	B
MIE	MANOR LOAM, 25 TO 45 PERCENT SLOPES	B
Ha#	HATBORO SILT LOAM	D



Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter Beilenson, M.D., M.P.H., Health Officer

March 14, 2008

Cattail Meadows, LLC
P.O. Box 274
Columbia, MD 21738

RE: 15325 Leodina Dr. (AKA-Roxbury Rd)
Glenwood, MD 21738
Map 21, Grid 14, Parcel13
BP #: B00127242
Well Permit # HO-~~95~~-3586(main house)
HO-~~95~~-2917(back-up)
HO-~~95~~-3441(irrigation)

Dear Sir:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 3/1/2004. Final approval of the well line connection to the dwelling was approved on 5/14/2004.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were found to be in compliance with COMAR water quality standards.

INTERIM CERTIFICATE OF POTABILITY

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #HO-~~95~~-3586. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 5/14/04 & 3/7/08
Date of Well Completion: 9/1/02, 2/1/01 & 9/1/02

Approving Authority,

Stuart F. Oster, R. S.
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File

Gary Deptula 443-336-0869

Environmental Testing Lab Inc.

108 Old Solomons Island Rd
Annapolis, MD 21401



3430 Rockefeller Ct
Waldorf, MD 20602

State Certified Water Quality
Laboratory: # 106

State Certified Water Quality
Laboratory: # 139

REPORT OF ANALYSIS

Mid Atlantic Water Services
14 Hudson Street
Annapolis, MD 21401

Lab Number: 76089
Date Received: 3/7/08 16:27
Project:

Sample No: 76089-01
Client ID: 15325 Leondina Drive
Glenwood, MD 21738

Sampled: 3/7/2008 10:00:00 AM
Sampler: 6234PC Corridor

HO-94-3441

Sample Point: Irrigation

Parameter	Method	Result	Units	MDL	Test Date	Analyst
Bacteria-Total Coliform	SM 9223	Present/FAIL	Per/100ml	1	3/7/2008	DB
Bacteria-E.coli	SM 9223	Absent/PASS	Per/100ml	1	3/7/2008	DB
pH	field	7.0			3/7/2008	
Chlorine, Total	field	0	mg/l		3/7/2008	

Sample No: 76089-02
Client ID: 15325 Leondina Drive
Glenwood, MD 21738

Sampled: 3/7/2008 10:00:00 AM
Sampler: 6234PC Corridor

HO-94-3586

Sample Point: Main House (# 4)

Parameter	Method	Result	Units	MDL	Test Date	Analyst
Bacteria-Total Coliform	SM 9223	Absent/PASS	Per/100ml	1	3/7/2008	DB
Bacteria-E.coli	SM 9223	Absent/PASS	Per/100ml	1	3/7/2008	DB
pH	field	7.0			3/7/2008	
Chlorine, Total	field	0	mg/l		3/7/2008	

Sample No: 76089-03
Client ID: 15325 Leondina Drive
Glenwood, MD 21738

Sampled: 3/7/2008 10:00:00 AM
Sampler: 6234PC Corridor

HO-94-3917

Sample Point: House (Back-Up)
#2

Parameter	Method	Result	Units	MDL	Test Date	Analyst
Bacteria-Total Coliform	SM 9223	Absent/PASS	Per/100ml	1	3/7/2008	DB
Bacteria-E.coli	SM 9223	Absent/PASS	Per/100ml	1	3/7/2008	DB
pH	field	7.0			3/7/2008	
Chlorine, Total	field	0	mg/l		3/7/2008	

Annapolis

Waldorf

Ph 410-224-4304 Fax 410-224-4307

Ph 301-932-4775 Fax 301-932-7347

Environmental Testing Lab Inc.

108 Old Solomons Island Rd
Annapolis, MD 21401



3430 Rockefeller Ct
Waldorf, MD 20602

*State Certified Water Quality
Laboratory # 106*

*State Certified Water Quality
Laboratory # 139*

REPORT OF ANALYSIS

Lab Number: 76089
Date Received: 3/7/08 16:27

Reviewed and Approved by:

A handwritten signature in black ink, appearing to read 'D. Brunsted', written over a horizontal line.

Daniel J. Brunsted
Laboratory Director

CHESAPEAKE

GEOSYSTEMS, INC.

6720 Ft. Smallwood Road
Baltimore, MD 21228

410/789-5020
800-252-4007
410/789-5029 FAX
August 28, 2002

Horizon Builders
2131 Espy Court, Suite 3
Crofton, MD 21114

Attention: Al Hato

Re: Huber Residence

Dear Mr. Hato,

Submitted here are the results of the pump tests performed at the Huber Residence in Howard County MD.

New Well No. 1

Static Water Level - 39.0/ft
Pumping Water Level - 44.0/ft
Pumping Rate - 37gpm

HD-94-3441

New Well No. 2

Static Water Level - 32.0/ft
Pumping Water Level - 36.0/ft
Pumping Rate - 27gpm

HD-94-3586

Existing Well No. MO942917

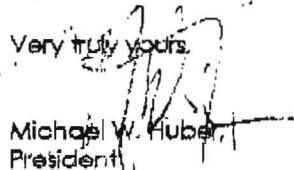
Static Water - 39.0/ft
Pumping Water Level - 47.0/ft
Pumping Rate - 25gpm

Existing Well No. MO942916

Static Water Level - 69.0/ft
Pumping Water Level - 33.0/ft
Pumping Rate - 25gpm

If you have any questions or need additional information please feel free to contact me.

Very truly yours,


Michael W. Huber
President



Environmental Testing Lab, Inc.

108 Old Solomons Island Road
Unit L-2
Annapolis, MD 21401

410-224-4304
800-222-4633
Fax 410-224-4307

REPORT OF ANALYSIS

May 18, 2004

Mid Atlantic Plumbing
1752 McQueckian Street
Annapolis, MD 21401

Lab Number: 48873
Date Received: 5/14/04 16:32
Project:

What Tag #?

Sample No: 48873-01 Sampled: 5/14/2004
Client ID: 4078 Roxbury Mills Rd. Sampler: 5653SS
Glenwood, Md 21738

Parameter	Method	Result	Units	MDL	Test Date	Analyst
Total Coliform Bacteria	SM 9223 B	Absent/Pass	Per/100ml	1	5/14/2004	DB
Fecal Coliform Bacteria	SM 9223 B	Absent/Pass	Per/100ml	1	5/14/2004	DB
pH	Field	* 6.2	pH Units		5/14/2004	
Iron	EPA 236.1	< 0.05	mg/l	0.05	5/17/2004	KE
Turbidity	EPA 180.1	< 0.5	NTU	0.5	5/17/2004	KE
Nitrate + Nitrite as N	EPA 353.2	4.15	mg/l	0.05	5/17/2004	PM

Notes:

- 48873-01 -No chlorine was present at the time of collection as reported by the sample collector. PH results provided by sample collector.
- The Maximum Contaminant Levels are as follows: Nitrate/Nitrite 10.0, Nitrite 1.0, Nitrate 10.0, Iron 0.3, Turbidity 10.0, and PH 6.5-8.5.
- An "*" next to a result means the result exceeded the Maximum Contaminant Level as established by the EPA.
- "<" = Less Than ; ">" = Greater Than.
- Lead & Nitrate/Nitrite are "Primary Contaminates"; Health related, enforceable.
- Iron, pH, Turbidity are "Secondary Contaminates" Non-Health related, non-enforceable.

Reviewed and Approved by:

[Signature]
Daniel J. Brunsted
Laboratory Director

