FILE FOLDER

DESCRIPTION ON TAB:

Wellhouse M-161

☑ **Outside/inside of actual folder did not contain hand written information**

☐ **Outside/inside of actual folder did contain hand written information**
***Scanned as next image**

Confidential Records Management, Inc.
New Bern, NC
1-888-622-4425
9/08

60/gkd
02

CONTRACTOR'S SUBMITTAL TRANSMITTAL

SND LANTDIV 4335/3 (Rev. 6/76)

CONTRACT NO.	TRANSMITTAL NO.	DATE
82-C-4551	24	3/5/84

FROM CONTRACTOR
EAST COAST CONSTRUCTION Co. INC.

TO
ENWright ASSOCIATES, INC
PO Box 5287 GREENVILLE SC 29606

PROJECT TITLE AND LOCATION
Replace 3 Water Wells
MCB, Camp Lejeune, NC.

CONTRACTOR USE ONLY

*List only one specification division per form.

List only one of the following categories on each transmittal form, and indicate which is being submitted

☐ Contractor Approved ☒ OICC Approval ☐ Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

**ACTION CODES
A-Approved
D-Disapproved
AN-Approved as noted
RA-Receipt acknowledged.
C-Comments
R-Resubmit

ITEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
1	15201-7.3	24 hour pumping Test Well No. M-168	3	A	F. K L. 3/12/84

CONTRACTOR'S COMMENTS

Well No. M-168
Montford Point, Camp Lejeune NC
24 hr pumping test

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)
Ron Ellen

DATE RECEIVED BY REVIEWER | FROM (Reviewer) | TO

☐ Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.

☐ Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on **ONE COPY** of the transmittal form.

REVIEWER'S COMMENTS

RECEIVED
MAR 12 1984
ENWRIGHT ASSOCIATES

COPIES TO:
ROICC (2)
LANTDIV (1)
A-E (1)

DATE | SIGNATURE

PUMPING TEST DATA

Test conducted by: ROGER THOMAS, LARRY BOONE
Well Owner: U. S. GOVERNMENT Address: CAMP JOHNSON
Pumped Well No.: M-168 Location: MONTFORD POINT County: ONSLOW
Observation Well Locations:
Airline Lengths: Pumped Well Observation Wells
Remarks:

Pumping rate measured with: PIEZOMETER TUBE Water levels measured with: ELECTRIC TAPE

Pump Well Data

Date and Time	Elapsed Time Min.	Piezometer Tube Reading Inches	Pumping Rate GPM	Pump Discharge Pressure	Altitude Gauge Reading Feet	Feet to Water	Remarks
2/28/84							
12:00 PM		9½	200			19'	
12:05	5 min.	9½	200			22' 2"	
12:10	10	"	"			22' 3"	
12:15	15	"	"			24' 6"	
12:20	20	"	"			"	
12:25	25	"	"			"	
12:30	30	"	"			"	
12:35	35	"	"			"	
12:40	40	"	"			"	
12:45	45	"	"			"	
12:50	50	"	"			"	
12:55	55	"	"			25'	
1:00	60	"	"			25'	
1:05	65	"	"			"	
1:10	70	"	"			"	
1:15	75	"	"			"	
1:20	80	"	"			"	
1:25	85	"	"			"	
1:30	90	"	"			"	
1:35	95	"	"			"	
1:40	100	"	"			"	
1:45	105	"	"			"	
1:50	110	"	"			"	
1:55	115	"	"			"	
2:00	120	"	"			"	
2:15	135 -15min.	"	"			"	
2:30	150	"	"			"	
2:45	165	"	"			"	
3:00	180	"	"			"	
4:00	240 -60min.	"	"			"	
5:00	300	"	"			"	
6:00	360	"	"			"	
7:00	420	"	"			"	
8:00	480	"	"			"	
9:00	540	"	"			"	
10:00	600	"	"			"	
11:00	660	"	"			"	
12:00	720	"	"			"	
1:00	780	"	"			"	
2:00	840	"	"			"	
3:00	900	"	"			"	
4:00	960	"	"			"	
5:00	1020	"	"			"	

PUMPING TEST DATA

Test conducted by: ROGER THOMAS, LARRY BOONE

Well Owner: U. S. GOVERNMENT Address: CAMP JOHNSON

Pumped Well No.: _____ Location: MONTFORD POINT County: ONSLOW

Observation Well Locations: _____

Airline Lengths: Pumped Well _____ Observation Wells _____

Remarks: _____

Pumping rate measured with: ~~PIEZOMETER TUBE~~ Water levels measured with: ELECTRIC TAPE

Pump Well Data

Date and Time	Elapsed Time Min.	Piezometer Tube Reading Inches	Pumping Rate GPM	Pump Discharge Pressure	Altitude Gauge Reading Feet	Feet to Water	Remarks
6:00	1080	9½	200			25'	
7:00	1140	"	"			"	
8:00	1200	"	"			"	
9:00	1260	"	"			"	
10:00	1320	"	"			"	
11:00	1380	"	"			"	
12:00	1440	"	"			"	
		RECOVERY STARTS					
12:05						21'	
12:10						21'	
12:15						20' 7"	
12:20						20' 7"	
12:25						20' 4"	
12:30						20' 3"	
12:35						20'	
12:40						20'	
12:45						20'	
12:50						20'	
12:55						20'	
1:00						20'	
1:05						19' 5"	
1:10						19' 5"	
1:15						19' 5"	
1:20						19' 5"	
1:25						19' 2"	
1:30						19'	
1:35						19'	
1:40						19'	
1:45						19'	
1:50						19'	
1:55						19'	
2:00							
		END OF RECOVERY					

M-168

DEPARTMENT OF THE NAVY

OFFICER IN CHARGE OF CONSTRUCTION
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION
NAVAL FACILITIES ENGINEERING COMMAND CONTRACTS
CAMP LEJEUNE, NORTH CAROLINA 28542-5000

IN REPLY REFER TO:
N62470-82-C-4551
JAX/0034W/ms
24 March 1986

From: Resident Officer in Charge of Construction, Jacksonville, NC Area
To: Base Maintenance Officer, MCB, Camp Lejeune, NC (Attn: Mr. M. Frazzell)

Subj: CONTRACT N62470-82-C-4551, REPLACE 3 WATER WELLS, MCB, CAMP LEJEUNE, NC

Encl: (1) Well Data For Subject Contract

1. Enclosure (1) is provided for your information concerning the subject contract.

J. L. DAVIS

File

CONTRACTOR'S SUBMITTAL TRANSMITTAL

5ND LANTDIV 4-4355/3 (Rev. 6/76)

CONTRACT NO	TRANSMITTAL NO	DATE
N62470-82-C-4551	15	8-26-83

FROM CONTRACTOR: East Coast Construction Co., Inc.

TO: ROICC, Camp Lejeune, N. C.

PROJECT TITLE AND LOCATION: Replacing Three (3) Water Wells, MCB, Camp Lejeune, N. C.
WELL #M-168

CONTRACTOR USE ONLY

*List only one specification division per form.

List only one of the following categories on each transmittal form, and indicate which is being submitted

☐ Contractor Approved ☐ OICC Approval ☐ Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

**ACTION CODES
A-Approved
D-Disapproved
AN-Approved as noted
RA-Receipt acknowledged.
C-Comments
R-Resubmit

ITEM NO	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
1	15201-6	Driller's Log	3	D	AE 9-8-3
2	"	Electric Log & Gamma Log	3		
3	"	Water Analysis	3		
4	"	Sieve Analysis	3		
5	"	Recommendation & Data Submittal		D	

CONTRACTOR'S COMMENTS

We

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)

DATE RECEIVED BY REVIEWER

FROM (Reviewer)

TO

☐ Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.

☐ Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.

REVIEWER'S COMMENTS

Well Relocated.

Copy - Contractor
File
9-8-83

COPIES TO
ROICC (2)
LANTDIV (1)
A-E (1)

DATE 9-8-3

SIGNATURE QA Engrs ROICC

ENWRIGHT ASSOCIATES, INC.

ROUTING ORDER	INT
1	60 OKL
2	
3	
4	
5	
6	
7	
8	
RETURN TO	02

August 15, 1983

Officer in Charge of Construction
Jacksonville North Carolina Area
Marine Corps Base
Camp LeJeune, North Carolina 28542

Subject: Replace Water Wells
Buildings 601, M-168, & BB-43
Construction Contract No. N62470-82-B-4551
Enwright Job No. 82005-00-2-01

Gentlemen:

We have reviewed the attached submittal and offer the following comments (Please refer to second paragraph of the three letters dated July 5, 1983 from East Coast Construction Company):

- The .30 inch slot for the stainless steel screens appears to be too large.
- All wells shall be packed with gravel having a uniformity coefficient of not more than 2.5. The contractor recommends course sand.
- Electric log for well number M-601 was not submitted.
- Well numbers M-168 and BB-43 do not meet specified yield.

We are requesting a resubmittal of the attached which should address the items mentioned above. Please advise as to acceptance or rejection of estimated yield for wells M-168 and BB-43.

Yours very truly,

ENWRIGHT ASSOCIATES, INC.

Thomas E. Sharpe. Jr.
Project Manager

Sent 2 copies to East Coast

TES;jr/pdk

Attachment

cc: Mr. Fook-Kay Lee
File

18 AUG 1983
RECEIVED

Bankers Trust Plaza ■ P.O. Box 5287, Station B ■ Greenville, S.C. 29606 ■ (803) 232-8140

229 CENTER STREET

EAST COAST CONSTRUCTION COMPANY, INC.

GENERAL CONTRACTORS

Post Office Box 5004

JACKSONVILLE, NORTH CAROLINA 28540

August 25, 1983

Officer in Charge of Construction
Building 1005
Camp Lejeune, N. C. 28542

Re: N62470-82-C-4551
Replace Three (3) Water Wells

Gentlemen:

As per our telephone discussion and attached letter from Enwright and Associates, we submit the following:

We are still recommending a .30 slot stainless steel screen and a course sand gravel pack. Sample attached. We base our recommendation on the attached sieve analysis from Johnson Company and our past experience in the development of water wells in this area.

We feel this method will offer the most efficient and productive well. As for the quantity of available water we base our recommendation on the attached gamma and electric logs and pumping test.

Should you have any questions please do not hesitate to contact us.

Yours very truly,

EAST COAST CONSTRUCTION CO., INC.

Ron Ellen

Ron Ellen

RRE/lm
Enclosures

July 05, 1983

Officer in Charge of Construction
Building 1005
Camp Lejeune, N. C. 28542

Re: N62470-82-C-4551
Replacing Three (3) Water Wells
Camp Lejeune, N. C.
Well No. M-168

COPY

Gentlemen:

We are enclosing six (6) copies of the Driller's Log, Electric Log, Gamma Log, Water Analysis and Sieve Analysis for your review. The test well was drilled at 250 feet deep. Water samples were taken at the 60'; 105'; and 210' levels.

We recommend a line of .30-slot stainless steel screens set at the 40' to 55'; and 192' to 227' levels for a total of 50 VF of screens. The gravel pack recommended is a course sand. It is our best estimate that this well may yield 200 GPM.

Please review the data and advise if we are to proceed with developing a permanent well at this site.

Yours very truly,

EAST COAST CONSTRUCTION CO., INC.

W. H. Myers

WHM/lm
Enclosures

EAST COAST CONSTRUCTION COMPANY, INC.
GENERAL CONTRACTORS
Post Office Box 5004
JACKSONVILLE, NORTH CAROLINA 28540

CAMP LEJEUNE
M-168
May 3, 1983

0	-	10	fine white sand
10	-	20	fine white sand
20	-	30	fine white sand
30	-	40	fine gray-white sand
40	-	50	fine gray-white sand
50	-	60	medium to coarse gray sand
60	-	70	medium to coarse gray sand
70	-	80	medium to coarse gray sand
80	-	90	fine to medium gray sand
90	-	100	fine,medium and coarse gray sand
100	-	110	fine, medium coarse sand with some clay
110	-	120	fine sand, silt and clay with some medium sand
120	-	130	fine to medium sand
130	-	140	fine sand
140	-	150	very fine sand
150	-	160	fine sand
160	-	170	fine sand, some medium sand,trace of clay
170	-	180	very fine sand, some medium sand, trace of clay
180	-	190	fine to medium sand
190	-	200	medium sand
200	-	210	medium sand
210	-	220	medium sand
220	-	230	medium sand
230	-	240	fine to medium sand
240	-	250	fine to medium sand

(803) 479-4639

29312

IRRIGATION
OTHERS

N62470-82-C-4551

DATE: June 2, 1983

Report To: Carolina Well & Pump Co.
Sanford, N. C.

Date Analyzed: 6/2/83

Sample Number: Lonkford Point- 60'

Contract: N62470-82-C-4551

Analysis Results--Parts Per Million

Determination		Determination	
pH	6.6	Carbon Dioxide (CO_2)	8
Iron (Fe)	0.1	Total Acidity ($CaCO_3$)	14
Nitrate (NO_3)	Trace	Calcium Hardness ($CaCO_3$)	182
Fluoride (F)	0.3	Magnesium Hardness ($CaCO_3$))	14
Manganese (Mn)	Trace	Carbonate Hardness ($CaCO_3$)	140
Total Hardness ($CaCO_3$)	196	Noncarbonate Hardness ($CaCO_3$)	56
Chlorides (Cl)	14	Alkalinity (Phenolphthalein) ($CaCO_3$)	0
Sulfate (SO_4)	8.2	Carbonate Alkalinity ($CaCO_3$)	0
Phosphate (PO_4)	0	Bicarbonate Alkalinity ($CaCO_3$)	140
Magnesium (Mg)	3.6	Total Alkalinity ($CaCO_3$)	140
Calcium (Ca)	72.8	Total Dissolved Solids	224
Carbonate (CO_3)	0	Specific Conductance (micromhos at 25°)	320
Bicarbonate (HCO_3)	170	Appearance When Analyzed	Clear
Hydroxide (OH)	0	Odor When Analyzed	Not Objectionable

Water Analyst

SIGNED: Bennett W. Scott
LABORATORY DIRECTOR

ANALYTICAL METHODS REFERENCES: 'STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER,' APHA, AWWA AND WPCF AND 'METHODS FOR COLLECTION AND ANALYSIS OF WATER SAMPLES,' WATER SUPPLY PAPER 1454 (1960), U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C.

(803) 479-4639

DEVELOPERS
IRRIGATION
OTHERS

DATE: June 2, 1983

Report To: Carolina Well & Pump Co.
Sanford, N. C.

Date Analyzed: 6/2/83

Sample Number: Monkford Point- 105'

Analysis Results—Parts Per Million

Determination		Determination	
pH	7.1	Carbon Dioxide (CO_2)	4
Iron (Fe)	0.15	Total Acidity ($CaCO_3$)	5
Nitrate (NO_3)	Trace	Calcium Hardness ($CaCO_3$)	178
Fluoride (F)	0.5	Magnesium Hardness ($CaCO_3$)	26
Manganese (Mn)	Trace	Carbonate Hardness ($CaCO_3$)	204
Total Hardness ($CaCO_3$)	204	Noncarbonate Hardness ($CaCO_3$)	0
Chlorides (Cl)	17	Alkalinity (Phenolphthalein) ($CaCO_3$)	0
Sulfate (SO_4)	12.6	Carbonate Alkalinity ($CaCO_3$)	0
Phosphate (PO_4)	0	Bicarbonate Alkalinity ($CaCO_3$)	360
Magnesium (Mg)	4.3	Total Alkalinity ($CaCO_3$)	360
Calcium (Ca)	71.2	Total Dissolved Solids	476
Carbonate (CO_3)	0	Specific Conductance (micromhos at 25°)	680
Bicarbonate (HCO_3)	439	Appearance When Analyzed	Hazy
Hydroxide (OH)	0	Odor When Analyzed	Not Objectionable

Water Analysis
802 Hamlet Highway
Pembroke, South Carolina

SIGNED: _____
LABORATORY DIRECTOR

ANALYTICAL METHODS REFERENCES: 'STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTE-WATER,' APHA, AWWA AND WPCF AND 'METHODS FOR COLLECTION AND ANALYSIS OF WATER SAMPLES,' WATER SUPPLY PAPER 1454 (1960), U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C.

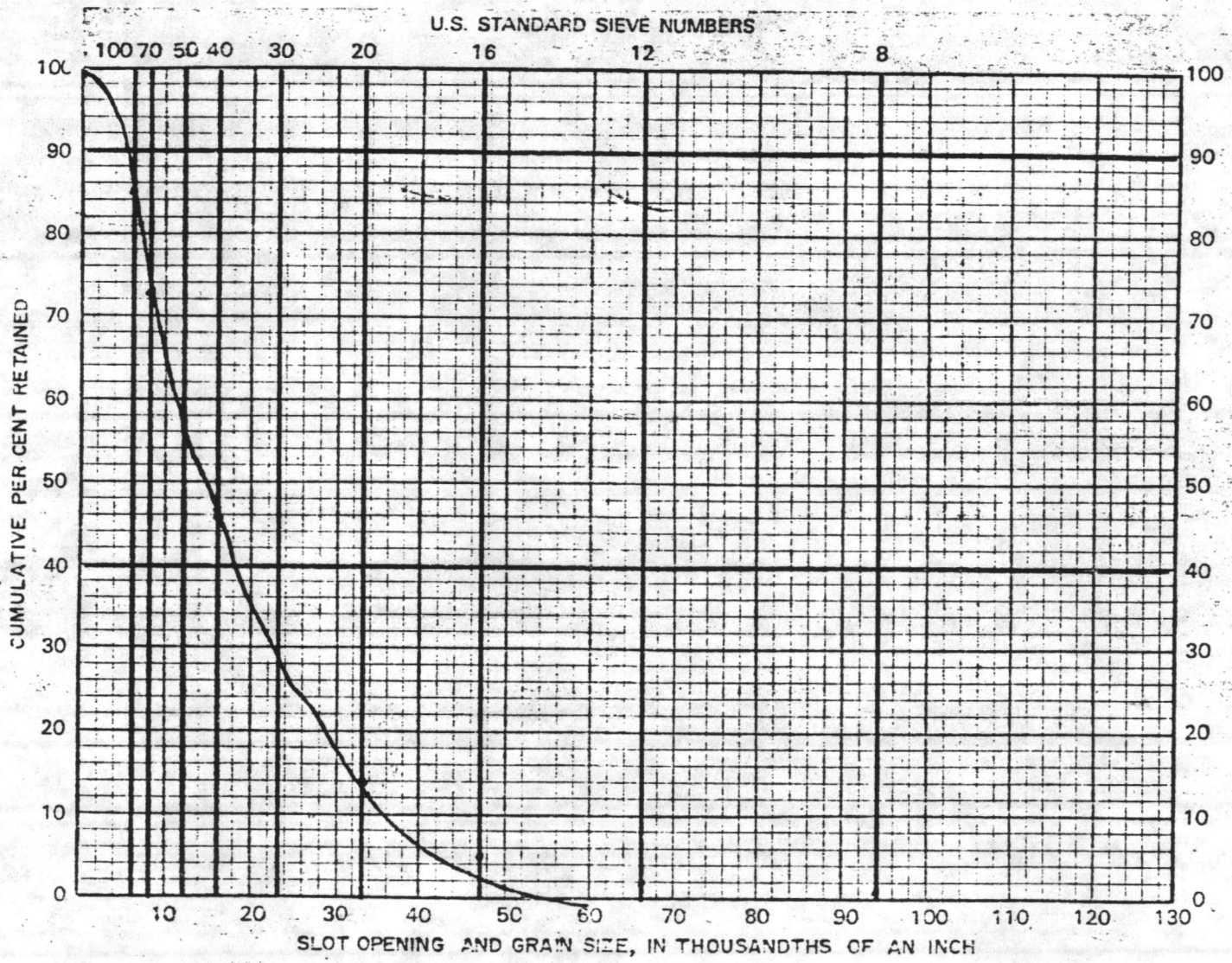
...carolina Well & Pump

Town Sanford State N.C. Zip _____ Date 5-17-83

From well of Camp Lejeune (Guard House)

Remarks: _____

210-220



U.S. SIEVE NO	SIEVE OPENING INCHES	SIEVE OPENING MM	CUMULATIVE % RETAINED		
6	.132	3.36			
8	.094	2.38			
12	.066	1.68			
16	.047	1.19			
20	.033	0.84			
30	.023	0.60			
40	.016	0.42			
50	.012	0.30			
70	.008	0.21			
100	.006	0.15			

Notes: _____

Recommended Slot Opening: _____

Recommended Screen: Dia. _____ in. Length _____ Ft.

By: _____

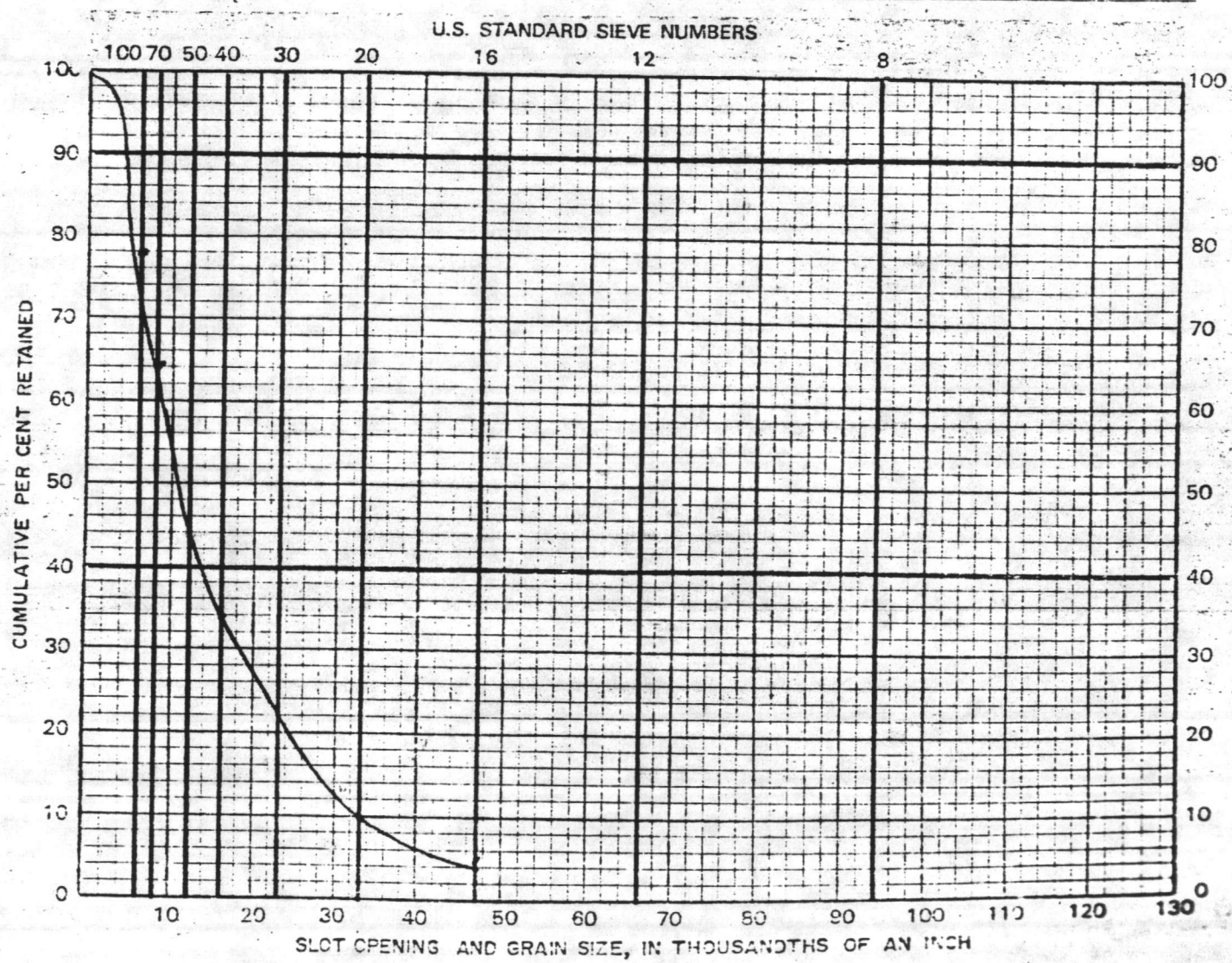
SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT, WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SAND SAMPLES ARE CORRECT, WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF JOHNSON WELL SCREENS.

Sample sent in by _____

Town _____ State _____ Zip _____ Date _____

From well of _____

Remarks: 220 - 230



S. SIEVE NO.	SIEVE OPENING INCHES	SIEVE OPENING MM	CUMULATIVE % RETAINED
6	.132	3.36	
8	.094	2.38	
12	.066	1.68	
16	.047	1.19	
20	.033	0.84	
30	.023	0.60	
40	.016	0.42	
50	.012	0.30	
70	.008	0.21	
100	.006	0.15	

Notes: _____

Recommended Slot Opening: _____

Recommended Screen: Dia. _____ in. Length _____ Ft.

By: BPV

SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT, WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SAND SAMPLES ARE CORRECT WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF JOHNSON WELL SCREENS.

Telephone 612-636-3900 • Telex 29-7451

JJ uop Inc.

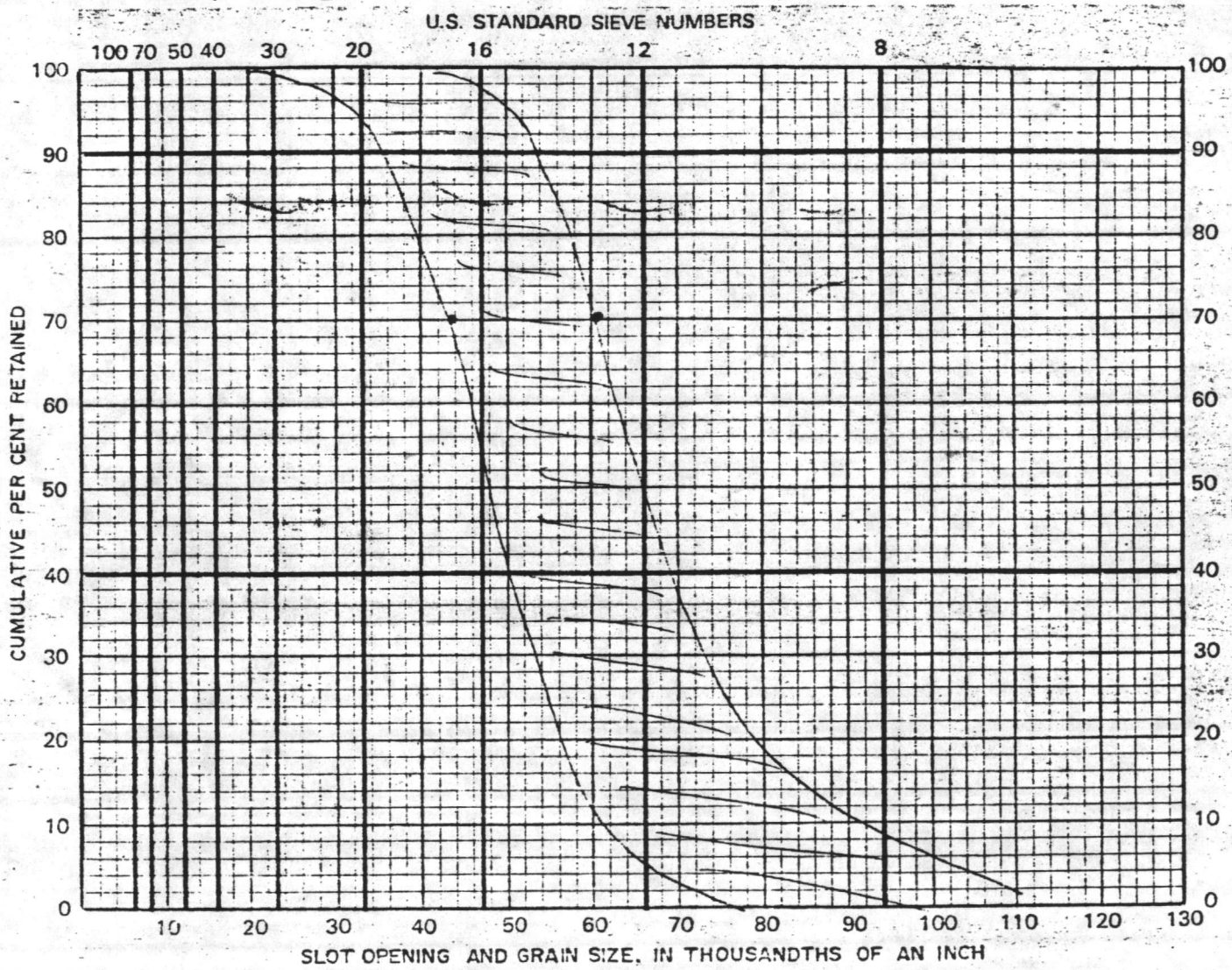
MAILING ADDRESS: P.O. BOX 45115
ST. PAUL, MINNESOTA ■ 55164

Sample sent in by _____

Town _____ State _____ Zip _____ Date 5-17-80

From well of _____

Remarks: Recommended Gravel Pack for Camp Lejeune (Guard House) [Field Copy]



U.S. SIEVE NO.	SLOT OPENING INCHES	SLOT OPENING MM	CUMULATIVE % RETAINED		
6	.132	3.36			
8	.094	2.38			
12	.066	1.68			
16	.047	1.19			
20	.033	0.84			
30	.023	0.60			
40	.016	0.42			
50	.012	0.30			
70	.008	0.21			
100	.006	0.15			

Notes: _____

Recommended Slot Opening: _____

Recommended Screen: Dia. _____ in. Length 5' Ft.

By: BAV

SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SAND SAMPLES ARE CORRECT WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF JOHNSON WELL SCREENS.

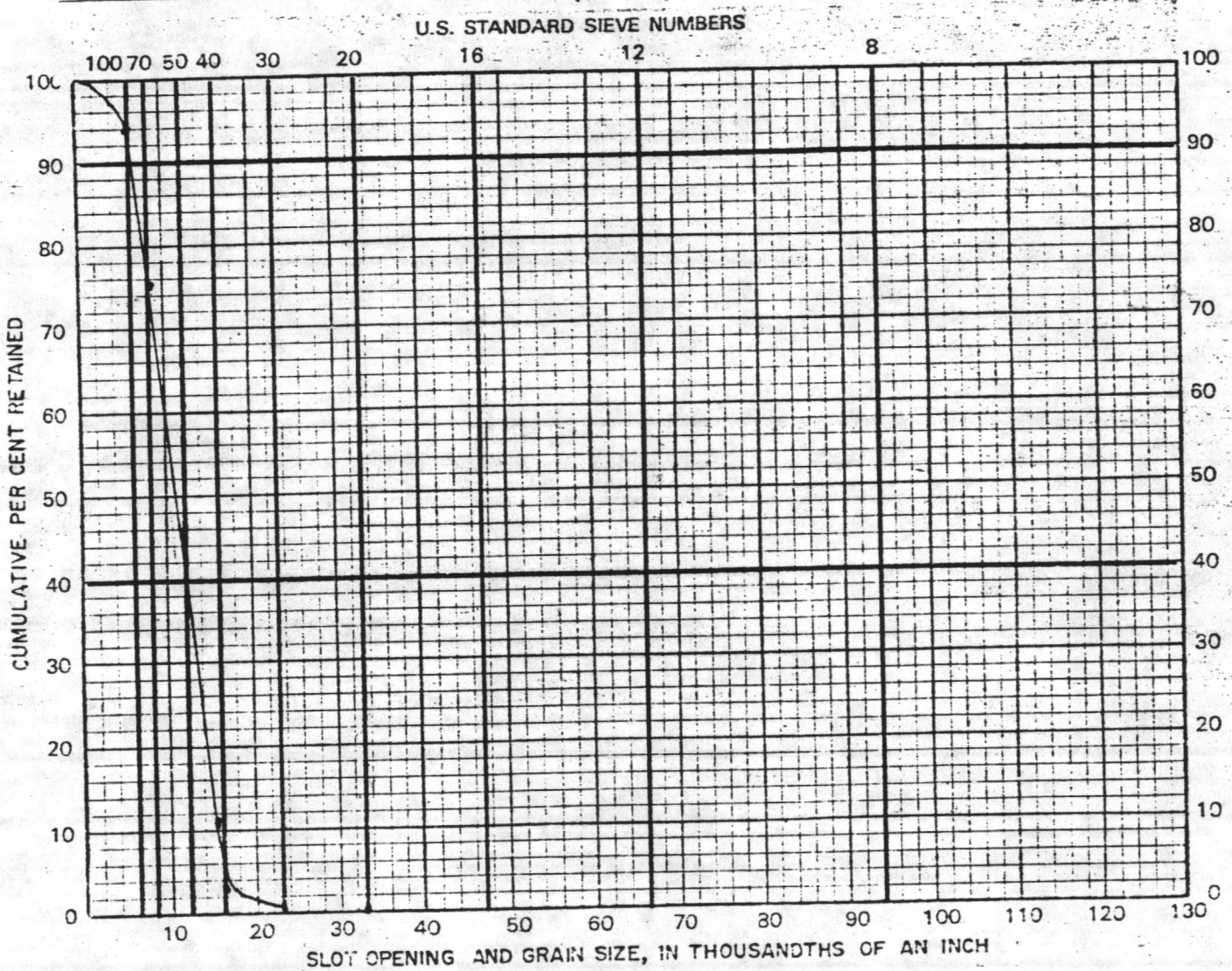
Sample sent in by Carolina Well & Pump Co

Town Sanford State NC Zip _____ Date 5-17-83

From well of Camp LeJeune (Guard House) Contract N62470-82-C-4551

Remarks: 40-50

- Field Copies



U.S. SIEVE No.	SIEVE OPENING INCHES	SIEVE OPENING MM	CUMULATIVE % RETAINED		
6	.132	3.36			
8	.094	2.38			
12	.066	1.68			
16	.047	1.19			
20	.033	0.84	1		
30	.023	0.60			
40	.016	0.42	3		
50	.012	0.30			
70	.008	0.21	76		
100	.006	0.15	94		

Notes: _____

Recommended Slot Opening: _____

Recommended Screen: Dia. _____ in. Length _____ Ft.

By: BPV

SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT, WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SAND SAMPLES ARE CORRECT, WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF JOHNSON WELL SCREENS.

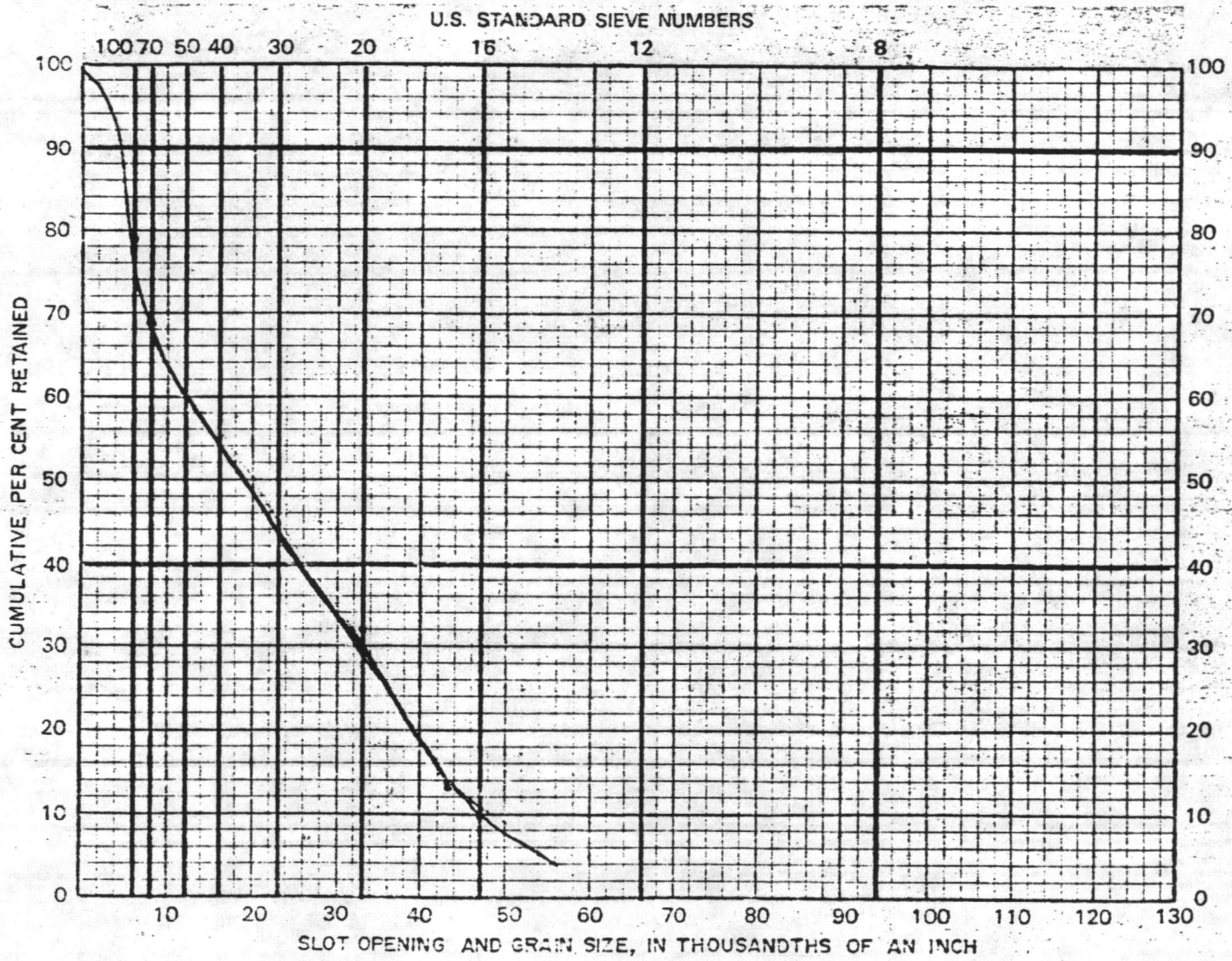
Sample sent in by _____

Town _____ State _____ Zip _____ Date _____

From well of _____

Remarks: 190-200

200-210



U.S. SIEVE NO	SIEVE OPENING INCHES	SIEVE OPENING MM	CUMULATIVE % RETAINED		
6	.132	3.36			
8	.094	2.38			
12	.066	1.68			
16	.047	1.19			
20	.033	0.84			
30	.023	0.60			
40	.016	0.42			
50	.012	0.30			
70	.008	0.21			
100	.006	0.15			

Notes: _____

Recommended Slot Opening: _____

Recommended Screen. Dia. _____ in. Length _____ Ft.

By: _____

SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SAND SAMPLES ARE CORRECT WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF JOHNSON WELL SCREENS.

(803) 479-4639

BENNETTSVILLE, SOUTH CAROLINA
29512

HOME OWNERS
DEVELOPERS
IRRIGATION
OTHERS

DATE: June 2, 1983

Report To: Carolina Well & Pump Co.
Sanford, N. C.

Date Analyzed: 6/2/83

Sample Number: Monkford Point-210'

Analysis Results--Parts Per Million

Determination		Determination	
pH	6.9	Carbon Dioxide (CO_2)	6
Iron (Fe)	0.1	Total Acidity ($CaCO_3$)	9
Nitrate (NO_3)	Trace	Calcium Hardness ($CaCO_3$)	190
Fluoride (F)	0.6	Magnesium Hardness ($CaCO_3$))	20
Manganese (Mn)	Trace	Carbonate Hardness ($CaCO_3$)	210
Total Hardness ($CaCO_3$)	210	Noncarbonate Hardness ($CaCO_3$)	0
Chlorides (Cl)	22	Alkalinity (Phenolphthalein) ($CaCO_3$)	0
Sulfate (SO_4)	14.6	Carbonate Alkalinity ($CaCO_3$)	0
Phosphate (PO_4)	0	Bicarbonate Alkalinity ($CaCO_3$)	260
Magnesium (Mg)	4.8	Total Alkalinity ($CaCO_3$)	260
Calcium (Ca)	76.2	Total Dissolved Solids	378
Carbonate (CO_3)	0	Specific Conductance (micromhos at 25°)	540
Bicarbonate (HCO_3)	317	Appearance When Analyzed	Clear
Hydroxide (OH)	0	Odor When Analyzed	Not Objectionable

Dale Laboratory Director
802 Hampton Highway
Bennettsville, South Carolina 29512

SIGNED: _____
LABORATORY DIRECTOR

ANALYTICAL METHODS REFERENCES: 'STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER,' APHA, AWWA AND WPCF AND 'METHODS FOR COLLECTION AND ANALYSIS OF WATER SAMPLES,' WATER SUPPLY PAPER 1454 (1960), U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C.