



DEPARTMENT OF THE NAVY

SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
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N91192.AR.000504
NIROP FRIDLEY
5090.3a

Code 1868
22 Mar 2000

Mr. Michael P. Convery, PG
Well Management Section
Minnesota Department of Health
Metro Square Building Suite 220
Post Office Box 64975
Saint Paul, Minnesota 55164-0975

Subj: UNUSED, UNSEALED WATER-SUPPLY WELLS AT THE NAVAL INDUSTRIAL
RESERVE ORDNANCE PLANT, FRIDLEY, MINNESOTA; NOTIFICATION OF
PRODUCTION WELLS NO. 2 AND 3 ABANDONEMENT

Encl: (1) MDH letter of March 7, 2000

Dear Mr. Convery:

Production wells 2 and 3 will be abandoned under Navy contract N62467-98-D-0995/0024 with CH2MHILL Constructors, Inc, Atlanta, Georgia. The contract was awarded March 8, 2000. Notice to proceed on abandoning the wells has not been determined but is tentatively scheduled between July and December 2000. The well sealing work will be done by a licensed well contractor or well sealing contractor.

Please call me at (843) 820-5562 for any clarifications or questions.

Sincerely,


JOEL SANDERS, P.E.
Remedial Project Manager

Copy to: (w/encl)
CH2MHILL (Jeff Lamount)
CH2MHILL (Venky Venkatesh)
NIROP NAVSEA Tech Rep (Kerry Morrow)
MPCA (David Douglas)
US EPA V (Tom Bloom)
UDLP (Douglas L. Hildre)
→ ITNUS (Mark Sladic)



Protecting, Maintaining and Improving the Health of All Minnesotans

March 7, 2000

Mr. Joel R. Sanders, Code 1868
Commanding Officer—Southern Division
Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, South Carolina 29419-9010

Mr. Patrick K. Morrow
Technical Representative, NAVSEA
Department of the Navy
5001 East River Road
Minneapolis, Minnesota 55421-1406

Dear Mr. Sanders and Mr. Morrow:

Subject: Unused, Unsealed Water-Supply Wells at the Naval Industrial Reserve Ordnance Plant (NIROP) East River Road, Fridley, Anoka County, Minnesota

Minnesota Statutes, Chapter 103I, establishes the requirements for the construction, repair, and sealing of wells in Minnesota. Minnesota Statutes, section 103I.301, requires that the owner of property on which a well is located must have the well sealed if the well is:

1. contaminated;
2. sealed in a manner which violates state requirements;
3. located, constructed, or maintained in a manner that its continued use or existence endangers the groundwater quality or is a safety or health hazard; or
4. not in use and does not have a maintenance permit.

Under Minnesota Statutes, section 103I.231, the commissioner of health may order a well sealed for any of the conditions noted above.

The wells on the NIROP property are currently not in use, were found to be contaminated in the early groundwater investigations at the facility, and have since removed from service. The current conditions of the wells may aggravate the existing groundwater contamination problem at the site by providing a direct conduit into the underlying Prairie du Chien Dolomites and Jordan Sandstone. When the wells were first found to be contaminated, the facility continued to utilize the wells for process water. Our understanding is the wells have been out of service for a number of years. The Public Health Assessment for the Naval Industrial Ordnance Plant published by the United States Department of Health and Human Services on September 28, 1999, recommended the wells be permanently sealed in accordance with the Minnesota rule requirements (Minnesota Rules, Chapter 4725).

The records for the wells, Unique Numbers 206695 and 234001, indicate the wells were constructed in 1942 by Mc Carthy Well Company for United States Navy. Well depths for both

March 7, 2000

wells are 288 feet, completed in the Prairie du Chien Dolomites and the Jordan Sandstone. Casing appears to consist of 156 feet of 16-inch steel casing. There is always the possibility that subsequent repairs or reconstruction, which would not be reflected on these records, may have modified these wells. I have enclosed copies of the records for your review.

Unsealed, abandoned wells are a potential liability for the property owner. A well owner may be held legally liable if a well is a source or cause of groundwater contamination. A well owner is not liable for contamination of groundwater through the well after the well has been sealed by a licensed well contractor and the seal has not been disturbed (see Minnesota Statutes, section 103I.325).

Please be advised that well sealing work must be done by a licensed well contractor or well sealing contractor. Please inform me within 30 days of receipt of this letter of your plans for the wells.

If you have any questions, or if you believe our information is incorrect or incomplete, please contact me at (651) 215-0818.

Sincerely,



Michael P. Convery, PG
Operations Unit Supervisor
Well Management Section

MPC:jmw

Enclosure

cc: David Douglas, Minnesota Pollution Control Agency

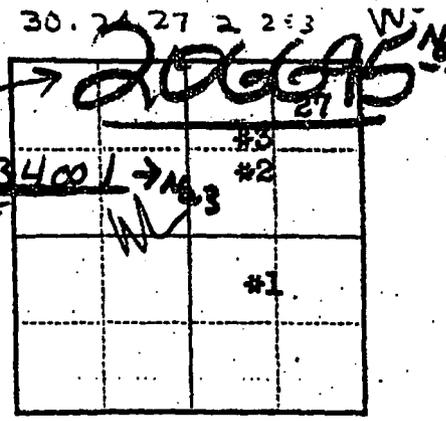
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155
1927

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

55567



30-24-27
ACACBA
Elev. 835±5

RECORD OF WELL

Wells Nos.

2 & 3. # 234001 → #3
BUILDING BONE

Location: State Minnesota County Anoka.

Nearest P. O. Col. Hights Direction from P. O. WNW

Distance from P. O. 3 1/2 miles; NE 1/4 sec. 27, T. 30, R. 24

If in city, give street and number _____

Locate well on plat of section.

USED #2 AS LOCATION
ASSUMED BOTH SAME

Owner: U.S. Navy. Address Columbia Heights PO.

Driller: McCarthy Well Co. Address St. Paul, Minnesota.

1. Situation: Is well on upland, in valley, or on hillside? Level ground

2. Elevation of top of well: 835 ft. above the level of the sea

3. Type of well: Drilled; kind of drilling rig used Solid tool

4. Depth of well: 288 ft.; year in which well was finished 1942

Does well enter rock? Yes; if so, at what depth? 91 ft.; kind of rock Shakopee Limerock

5. Diameter: At top 16 inches; at bottom 16 inches.

6. Principal water bed: Shakopee lime rock and Jordan Sandrock.

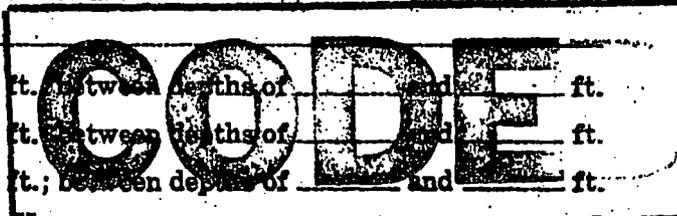
Depth to principal water bed 146 ft.; thickness of bed 140 ft.

If other water supplies were found, give depth to each _____

7. Casings: Kind Steel Pipe; size 16; length 156 ft.

Kind Open hole; size _____; length _____ ft.

Kind _____; size _____; length _____ ft.



Packers (if any): Depth at which packers were used None; kind _____

Screen or Strainer: Was well finished with screen? None; kind of screen _____

length of screen _____ ft.; diameter _____ inches; size of openings _____

8. Head: Does well at present overflow without pumping? No; did it overflow when new? No

if flowing, give pressure _____ lb. per sq. inch; or height water will rise in a pipe 17 ft. above surface;

original pressure or head _____; if not flowing, give water level in well _____ ft. below surface.

9. Pump: Is the well pumped? Yes; kind of pump 50 HP each

size or capacity of pump 600 GPM each; kind of power Electric

10. Yield: Natural flow at present (if any) _____ gallons per minute; original flow _____ gallons per minute;

well has been pumped at _____ gallons per minute continuously for _____ hours;

quantity of water ordinarily obtained from well 230,000 gallons per day. (average) for the 2 wells

11. Use: For what purpose is the water used? All purpose

12. Quality of the water: Fresh, moderately hard; is there an analysis? _____

13. Cost of well, not including pump: \$10,300.00 each Temperature of water 52 ° F.

Name of person filling blank A.C. Born, Plant Engineer

Date 12-10-51 Address Northern Ordnance Incorporated.

LOG OF WELL

206695

KIND OF ROCK OR OTHER MATERIAL (Give color and tell whether hard or soft)	DEPTH, IN FEET		THICKNESS, IN FEET	REMARKS (Especially information as to water found)
	From—	To—		
Clay, 0-5	0	5	5	
Sand, 5-70	5	65	70	835 80 755
Hard gravel 70-80	10		80	835 115 720
St Peter Sandrock ^{STP} 80-115	35		115	835 115 720
Jordan Limerock, & Sandrock ^{OPDC}	31	115-146	146	835 146 689
Shakopee Limerock ^{OPDC}	91	146-237	237	835 237 598
Jordan Sandrock ^{CJDN}	51	237-288	288	

Question #12. Please note that Navy Wells Nos. 2 and 3, have only one meter, hence the total of 230,000 gallon per day, average, includes both wells. Each well is powered by a 50 HP electric motor, capacity 600 GPM.

835
80
755

Agua

OPDC - CJDN