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MAY 6 1987

To: Jerri-Anne Garl
From: Brad Bradley, RPM
CERCLA Enforcement Section

Please distribute the attached materials (submitted in duplicate) to the appropriate personnel in your division.

An issue has arisen at the NL Industries/Taracorp-Granite City, Illinois site which may be of interest to the Water Division. The PRP that is conducting the RI/FS, NL Industries has proposed to add an additional monitoring well at the site to supplement what is considered to be insufficient data to determine ground water flow direction. I agree that additional ground water data is needed to thoroughly characterize the flow and quality of site ground water. However, I have the following concerns for which I would like Water Division input:

1. Is one additional well sufficient?
2. If so, where should it be located?
3. If not, how many wells should be installed and at what locations?

Important considerations in this evaluation include:

1. Any additional well installation will create a delay in the RI/FS process, and further delays will be involved if any such wells are installed off-site.
2. There are no private wells near the site. Granite City obtains its drinking water from the Mississippi River.
3. Ground water flow at the site is difficult to determine due to its proximity to the Mississippi River and

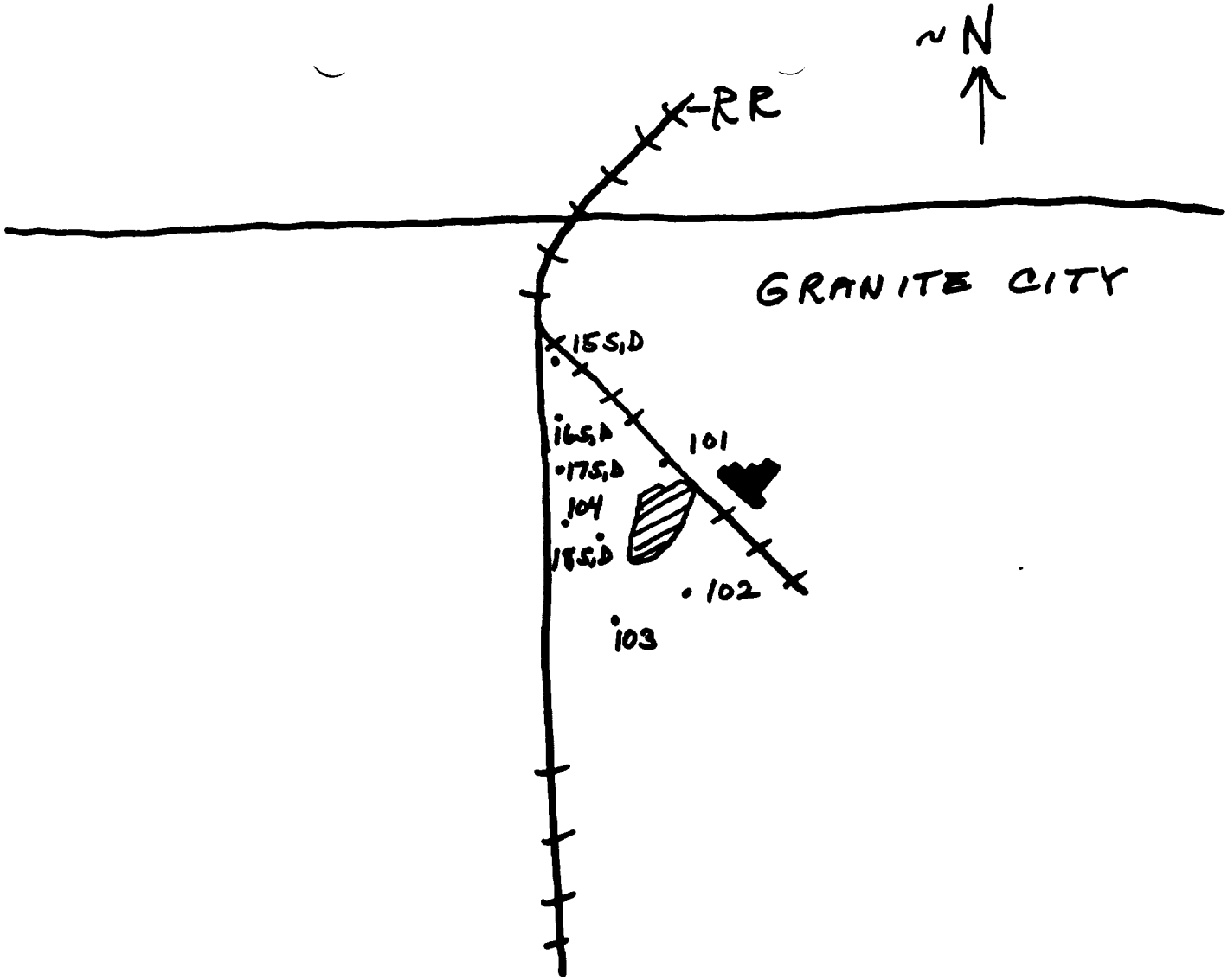
pumping influences in the vicinity of the site.

My goal is to obtain sufficient ground water data so that further sampling is not required subsequent to the RI. I agree with the PRP that the data generated under the present RI/FS Workplan is not sufficient to achieve that goal. U.S. EPA, Illinois EPA, and NL Industries have scheduled a meeting at 10:00 a.m. on May 14, 1987 to discuss this issue. I would like to receive Water Division input prior to that date, and Water Division representatives are invited to attend the meeting.

The attached materials are:

1. The NL Industries proposal, as outlined in their April 24, 1987 letter,
2. A site map showing present monitoring well locations and site boundaries, and
3. Quarter I ground water data from the RI (Quarter II is not yet available). This material is confidential.

I will be available at 886-4742 to provide any additional information you may need. Thank you for your cooperation.



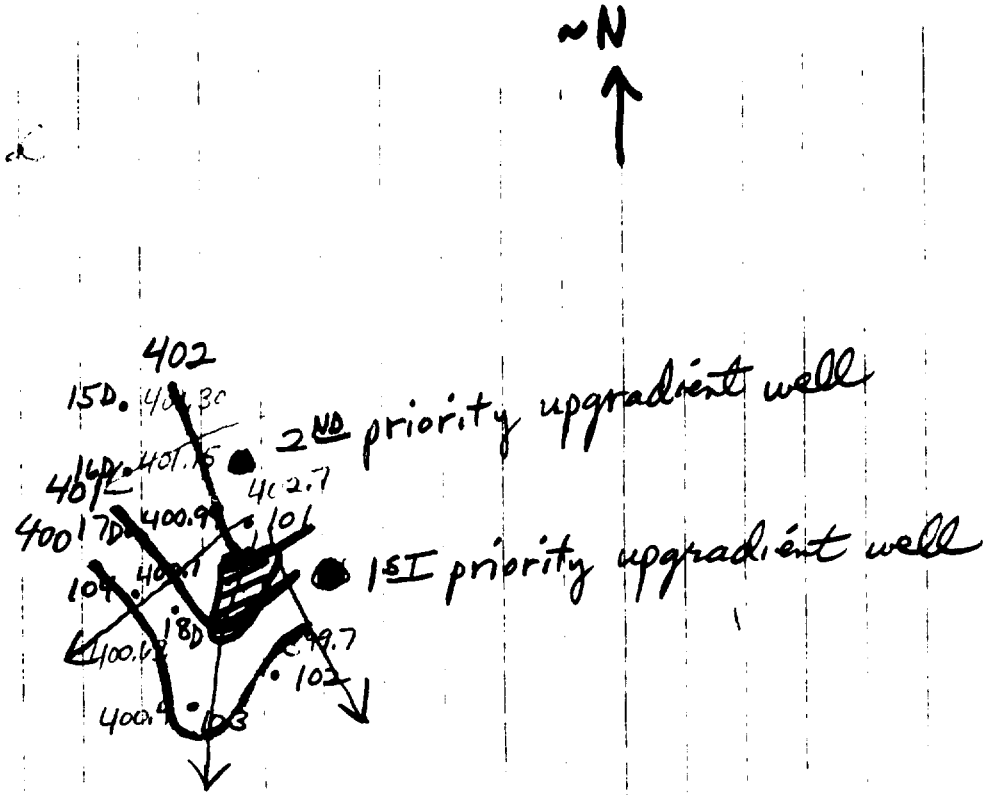
Legend

• G wells

0 500 1,000 ft

8/24/83

01,102,103,104 & 15, 16, 17, 18 loop wells plotted



Legend

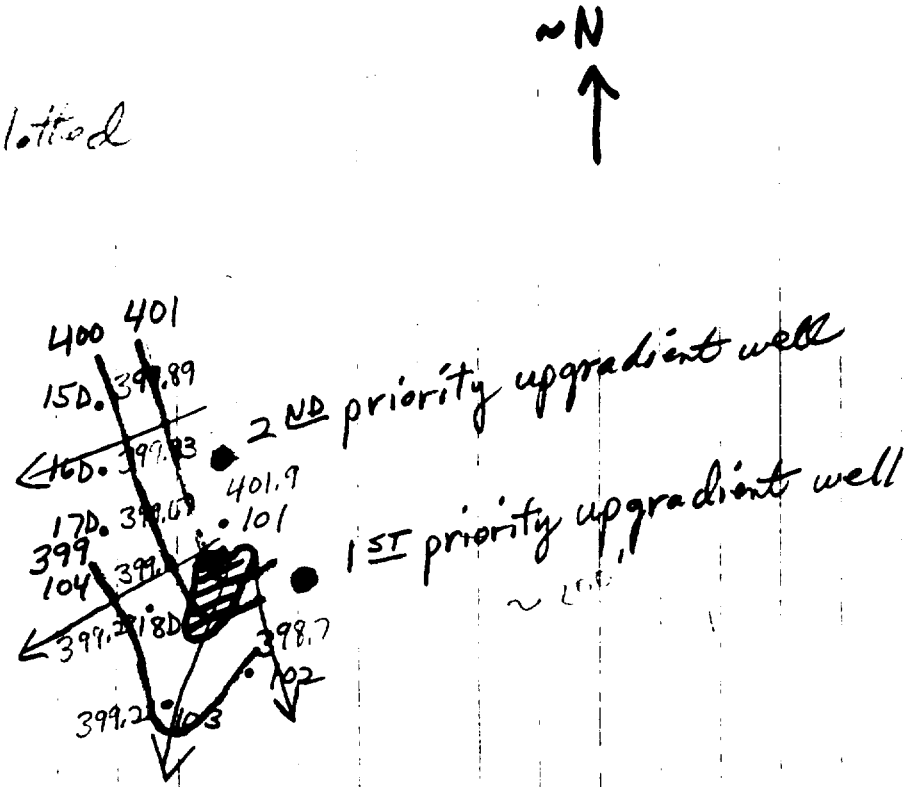
• G wells

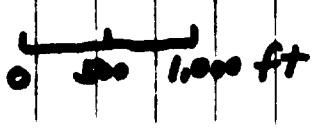
401 ground water elevation (equipotential)

0 500 1,000 ft

10/11/83

101, 102, 103, 104 & 15, 16, 17, 18 deep wells plotted





Legend

• G wells

401 ground water elevation (equipotential) contour

Well Screen Elevations

Depth of Well

Water Elevations of Monitoring Wells at Granite City/Taracorp

Monitor Point	Surface Elevation	Top of Casing (TOC)	TOC Elevation	Dates Water Levels Collected 11-16-82	1-26-83	2-28-83	6-29-83	8-1-83	8-24-83	10-11-83
G101	418.9	3.0	421.9 M	399.3	402.8	402.9	404.2	--	402.7 2	401.9 2
G102	414.0	3.3	417.3 M	399.2	401.7	401.6	402.2	--	399.7 11	398.7 11
G103	414.6	3.0	417.6 M	398.8	402.15	401.9	402.7	--	400.4 9	399.2 9
G104	417.8	3.0	420.8 M	397.7	400.5	400.6	401.7	--	400.1 10	399.0 10
G15S 405-400	425.94	2.93	428.87 P					402.07 6	401.29 4	399.97 4
G15D 396-391	426.05	2.94	428.99 P					402.09 4	401.30 3	399.89 5
G16S 405-400	421.12	2.88	424.00 P					~~402.00~~	Dry	Dry
G16D 391-386	421.10	2.83	423.93 P					402.03 7	401.15 5	399.83 6
G17S 402-397	419.06	2.01	421.07 P					404.77 1	404.58 1	403.27 1
G17D 389-384	419.07	2.90	421.97 P					402.97 3	400.99	399.67 7
G18S 405-400	419.94	2.94	422.88 P					402.08 5	401.10 6	399.98 3
G18D 393-388	420.00	1.88	421.88 P					401.58 8	400.63 8	399.28 8

Taracorp wells

IEPA wells

M = Metal pipe P = PVC pipe

SO:tk/38

elev. 405 - 402 : 5 well screens

elev. 396 - 381 : 6 well screens

TABLE 1