Stepan

Stepan Company

100 West Hunter Avenue Maywood, New Jersey 07607 Telephone 201 845 3030 FAX 201 712-7235

November 19, 2010

Dear Sir:

Reference No. 050681

ATTN: Document Control Desk Deputy Director Decommissioning and Uranium Recovery Licensing Directorate Division of Waste Management and Environmental Protection Office of Federal and State Materials and Environmental Management Programs Mailstop T8-F5 United States Nuclear Regulatory Commission Washington, D.C. 20555-0001

Re: 3rd Quarter 2010 NRC Groundwater Sampling Results Stepan Company, 100 West Hunter Ave. Maywood, New Jersey NRC License STC-1333

This letter provides a summary of the 3rd quarter 2010 NRC groundwater analytical results for the above-referenced Site. The attached table presents a summary of the results. The NRC license at the Stepan Company site is suspended for Burial Pits #2 and #3, and USACE is responsible for radiation control and the protection of the public health and safety consistent with the requirements of 10 CFR Part 20. Wells #1 through #4 and #7 through #9 were sampled during the 3rd quarter 2010 routine groundwater sampling event. Well #5 was not accessible at the time of sampling. The results for these wells were below 15 pCi/L for gross alpha, with the exception of Well #9, which was found to have a concentration of 23.3 pCi/L in September 2010. In accordance with the sampling protocol, well #9 was re-sampled in October 2010 and the result was below 15 pCi/L for gross alpha.

If you have any questions, please do not hesitate to call.

Sincerely,

Mark Stanek Stepan Company

JAG/smk/5

Attachment

cc: Regional Administrator, Region I, NRC Yolande Norman, NRC te and suite y consussions augh ing ward somploit as was not accessible at a alpites rath the a alpites rath the





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Judith Joustra, NRC Lydia W. Chang, NRC Mark Roberts, NRC Ed Troskowski, NJDEP Allen Roos, USACE Bill Kollar, Shaw Christina King Loundy, Stepan Company Jeff Nelson, Stepan Company Mark Stanek, Stepan Company John McGahren, Patton Boggs LLP Laurie Matthews, Patton Boggs LLP John Garges, CRA



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Table 1
Analytical Results of Third Quarter 2010 NRC Well Sampling
Stepan Company
100 West Hunter Avenue
Maywood, New Jersey

Sample Identification Sample Date	NRC Permit Criteria (pCi/L)	Well 1 9/27/2010	Well 2 9/27/2010	Well 3 9/27/2010	Well 4 9/27/2010	Well 5 9/27/2010	Well 7 9/27/2010	Well 8 9/27/2010	Well 9 9/27/2010	Well 9 10/29/2010
(all results in pCi/L) Gross Alpha	15	5.39	2.7	0.0	4.21	NS	2.55	8.65	23.3	6.97

Notes:

pCi/L = pico Curies per Liter. Bold/Box = Analyte detected above Permit Criteria. NS = Not Sampled