

Stepan

Stepan Company

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U. S. Nuclear Regulatory Commission

February 3, 2012

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

Dear Sir:

Re: 4th Quarter 2011 NRC Groundwater Sampling Results
Stepan Company, 100 West Hunter Ave.
Maywood, New Jersey
NRC License STC-1333

This letter provides a summary of the 4th Quarter 2011 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 #5 and #7 through #9 were sampled during the 4th Quarter 2011 routine groundwater sampling event. The results for these wells were below 15 pCi/L for gross alpha in December 2011.

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

Sincerely,

Mark Stanek
Stepan Company

LRM/lrm/11

Attachment

cc: Regional Administrator, Region I, NRC
Yolande Norman, NRC
Judith Joustra, NRC
Lydia W. Chang, NRC
Mark Roberts, NRC
Ed Troskowski, NJDEP
Allen Roos, USACE
Bill Kollar, Shaw
Christina King Loundy, Stepan Company
John McGahren, Patton Boggs LLP
Laurie Matthews, Patton Boggs LLP
Luis R. Muñoz, CRA

FSHE20



Table 1
Analytical Results of Fourth Quarter 2011 NRC Well Sampling
Stepan Company
100 West Hunter Avenue
Maywood, New Jersey

Sample Identification	NRC Permit Criteria (pCi/L)	Well 1	Well 2	Well 3	Well 4	Well 5	Well 7	Well 8	Well 9
Sample Date		12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/12/2011	12/13/2011	12/12/2011	12/13/2011
<i>(all results in pCi/L)</i>									
Gross Alpha	15	3.12	3.74	1.89	12.20	10.1	0.43	2.38	1.82

Notes:

pCi/L = pico Curies per Liter.

Bold/Box = Analyte detected above Permit Criteria.

NS = Not Sampled