

**Stepan**

Stepan Company

100 West Hunter Avenue  
Maywood, New Jersey 07607  
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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: 4<sup>th</sup> 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 4<sup>th</sup> 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 4<sup>th</sup> 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

FSME20



**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