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

November 17, 2009

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: 3rd Quarter 2009 NRC Groundwater Sampling Results and Monitoring Well Status Stepan Company, 100 West Hunter Ave. Maywood, New Jersey NRC License STC-1333

This letter provides a summary of the 3rd quarter 2009 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. Only Wells #4 and #5 at Burial Pit #1 were accessible for sampling during the 3rd quarter 2009 routine groundwater sampling event. Due to access and health & safety issues, Stepan was unable to sample the remaining monitoring wells around these burial pits in the 3rd quarter 2009.

In CRA's October 14th letter, Stepan requested that the NRC sampling program be discontinued based on the license suspension for Burial Pits #2 and #3. That request was denied. Sampling of all accessible monitoring wells is currently scheduled for November 30 and December 1, 2009.

The following is a summary of the current condition of the NRC monitoring wells on-Site:

Burial Pit #1

• Wells 4 and 5 – Accessible and not impacted by FUSRAP activities.

Burial Pit #2

• Well 7 – Inaccessible. Well is currently blocked by FUSRAP equipment/materials.

s

Wells 8 and 9 – Accessible, but within FUSRAP BP #2 controlled area.



November 17, 2009

Reference No. 050681

Burial Pit #3

• Wells 1 and 2 – Accessible, but within the FUSRAP BP #3 controlled area. Both wells are within the BP #3 dewatering system capture zone and currently have less than a foot of groundwater in each of them.

2

• Well 3 – Accessible. Well is within the FUSRAP BP #3 dewatering system capture zone and it is dry.

Stepan will attempt to sample all wells during the 4th quarter sampling event. Stepan will coordinate with USACE regarding gaining access to wells with the FUSRAP controlled areas. If you have any questions, please do not hesitate to call.

Sincerely,

Stepan Company Mark Stanek

JAG/smk/2

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 Jeff Nelson, Stepan Company Mark Stanek, Stepan Company John McGahren, Patton Boggs LLP Laurie Matthews, Patton Boggs LLP John Garges, CRA

63

Table 1Analytical Results of Third Quarter 2009 NRC Well Sampling
Stepan Company100 West Hunter Avenue
Maywood, New Jersey

Sample Identification	NRC Permit Criteria	Well 1	Well 2	Well 3	Well 4	Well 5	Well 7	Well 8	Well 9
Sample Date	(pCi/L)				9/24/2009	9/24/2009			
(all results in pCi/L) Gross Alpha	15	NS	NS	NS	0.37	2.64	NS	NS	NS
Gross Alpna	15	UD CVI	IND	IND	0.37	2.04	193	113	INO

Notes:

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