

From: "Allen, Rich" <R_Allen@iema.state.il.us>
To: "sko@nrc.gov" <sko@nrc.gov>
Date: Tue, Feb 14, 2006 8:40 AM
Subject: 2000 Incident



Attached you will find our incident report with lab results.

E-193

TO: Rich Allen
Office of Environmental Safety

FROM: Larry Haskell
Office of Environmental Safety
Division of Environmental Monitoring

DATE: November 13, 2000

RE: Braidwood Special Sampling, 11/10/00

CC: Tim Runyon, Incident File

At approximately 20:00 on November 10, 2000, Tim Runyon contacted me at home. He informed me that liquid effluent had leaked from the Braidwood nuclear power station, that the leak may have impacted a public easement and, that it would be necessary for Division of Environmental Monitoring staff to collect samples immediately. I met Tina Jannazzo at the Knotts St. office, where we received a copy of the IDNS Radiological Duty Officer report. We packed instruments and equipment and left for the site.

We arrived at the Braidwood Station at approximately 01:00 November 11. As arranged, Terry Simkins, a supervisor at the station, met us at the gatehouse. We were joined by a plant foreman who took us to the site of the incident. The affected area was a road easement on the south side of Smiley Road, west of Cemetery Road (see attached map). To the south of Smiley Road is a low and swampy area where the spill reportedly took place; the easement between the fenceline and the road was flooded with water. The west end of the easement abutted the driveway of a private residence. The water became shallower as we moved east along the easement. About 100 yards east of the driveway, the standing water ended. The easement is approximately 0.1 mile east of IDNS TLD location BD46.

We collected four water samples from the easement (see attached sketch). Sample 1 was collected approximately 15 ft. east of the driveway, adjacent to a large tree on the south side of the easement. Sample 2 approximately 50 ft. east of the first sample, south of a utility pole on the north side of Smiley Road. Sample 3 was taken approximately 100 ft.

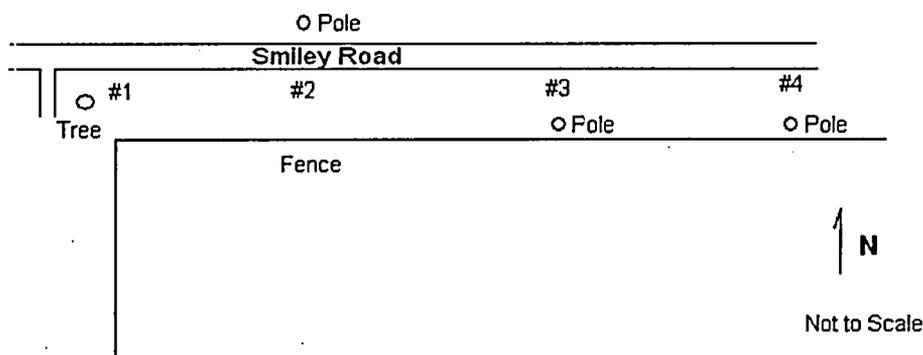
east of the second, adjacent to a utility pole south of Smiley Road. Sample 4 was collected near the east end of the standing water, approximately 100 ft. east of the third sample, adjacent to a utility pole on the south end of Smiley Road.

Mr. Simkins and the foreman observed as we collected the samples, answered all our questions and were generally co-operative. They reported that their analyses had found tritium in the water in the easement, but no fission products. After collecting the samples, we returned to Springfield and submitted the samples for tritium and gamma spectroscopy analyses.

The Division of Radiochemistry reported that gamma spectroscopy analysis of the samples identified no fission products or reactor related nuclides. Results of tritium analyses are given in the table below.

Sample	Result $\pm 2\sigma$ (pCi/L)
Sample 1	22000 \pm 380
Sample 2	19900 \pm 370
Sample 3	16800 \pm 340
Sample 4	16000 \pm 330

Figure 1: Sample Locations



From: Steven Orth
To: Rich Allen
Date: Tue, Feb 14, 2006 12:00 PM
Subject: Re: 2000 Incident

Thank you.

>>> "Allen, Rich" <R_Allen@iema.state.il.us> 02/14/06 8:39 AM >>>
Attached you will find our incident report with lab results.