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**STATUS UPDATE ON INVESTIGATION OF
ELEVATED CONCENTRATIONS OF URANIUM
IN OFFSITE SOILS**

05-17-1989

**WMCO/WMCO
WMCO:R(RIFS):89-068**

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LETTER

~~R-001-101.4~~
G-000-1098

From: C. R. Conner/6017

WMCO:R(RIFS):89-068

Date: May 17, 1989

Subject: STATUS UPDATE ON INVESTIGATION OF ELEVATED CONCENTRATIONS OF URANIUM
IN OFFSITE SOILS

To : W. A. Weinreich

The enclosure provides an update of actions taken to date regarding the characterization of offsite surface soils which contain elevated concentrations of uranium. Changes to the status are identified with an asterisk. An updated status summary will also be issued on Friday of this week.

Should you have any questions on any aspect of characterization or corrective actions, please contact me directly.


C. R. Conner, Manager
RI/FS

CRC:dal

Enclosure

- c: L. C. Bogar
- M. B. Boswell
- S. L. Bradley
- D. J. Brettschneider
- W. H. Britton
- D. J. Carr
- L. Elikan
- R. W. Kasperek
- P. E. Mohr

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**Elevated Concentrations of Uranium
in Off-Site Surface Soils
Status Report
May 17, 1989**

1. DOE Notification

- o DOE (Ray Hansen) was notified verbally by C. R. Conner on 5/2/89.
- o A letter describing the findings and a fact sheet were transmitted to DOE on 5/3/89 (WMC0:R:89-034).

2. Public Notification

- o The property owner was notified of findings by M. B. Boswell on 5/3/89. The property owner agreed to allow FMPC access to the property for characterization.
- o A draft news release was prepared on 5/3/89 by Public Affairs. The news release was forwarded to DOE for approval.
- o The draft news release was revised on 5/8/89 to keep it current. The revised news release was forwarded to DOE.
- * The draft news release was revised on 5/12/89 and forwarded to the DOE-Headquarters to obtain approval for release to the media. The news release still has not been issued. This was, however, a topic discussed at the May 16, 1989 Community Meeting. In addition, Channel 9 has performed two interviews on the topic.

3. EPA Notification

- o USEPA and OEPA were notified of the findings on May 10, 1989 by correspondence from the DOE-FMPC.

4. Characterization around Manholes

- o ASI/IT were given notice to proceed on 5/3/89 by Jim Reafsnyder.
- o Confirmation analytical results for the original eight soil samples were obtained from the WMC0 laboratories on 5/3/89. The results obtained were in good agreement with the original analytical results.
- o Isotopic analysis on the collected samples was completed by the WMC0 Laboratory on 5/8/89. This data indicates that all samples were within the depleted or normal range.

- o ASI/IT mobilized on 5/4/89. Field measurements using SPA-3 and FIDLER probes were completed on 5/7/89.
- o Preliminary survey data and maps showing collected field radiological measurements were transmitted to WMCO on 5/9/89.
- o A 100 foot x 200 foot area around manhole 180 was roped off by ASI/IT on May 14, 1989 at the request of the DOE-FMPC. Erosion control fabric was also placed at the perimeter of this area.
- * Soil sampling was completed at 53 locations with the collection of 159 discrete samples. Samples are being taken at 0-6, 6-12, and 12-18 inch intervals at each location. The samples were transmitted to the WMCO laboratory for analysis. Sampling activities were complete at manhole 180 as of May 17, 1989.
- * Sampling around manholes 176 through 179 and at manhole 181 have been initiated following completion at manhole 180. It is anticipated that six days will be required to complete this effort.
- * Analytical work on the samples has been initiated through WMCO laboratories. Ten percent of the samples will be split with IT Laboratories for quality assurance purposes. WMCO laboratories can complete ten samples in eight hours. It is therefore estimated that sufficient data will be available to begin engineering of potential cleanup activities on 6/7/89.
- * Analysis of the 159 samples taken at manhole 180 are scheduled to be completed by the WMCO Lab by June 7. These results will be total Uranium and total Thorium only.
- * Sample preparation questions were discussed with WMCO Lab personnel. Contacted J. Harvey at IT, Oak Ridge Lab for clarification. Samples are not to have stone or gravel removed prior to drying or grinding. This is consistent with WMCO Lab and IT Lab practice.

5. Cleanup Activities

- o An initial meeting to arrange for engineering of potential cleanup activities was conducted on 5/9/89.
- o Procedures for soil characterization, removal, transportation and certification were received from Bechtel National on 5/12/89. Bechtel National is prime contractor on the Formerly Utilized Sites Remedial Action Program. Copies of these procedures have been distributed to involved organizations.

6. Determination of Root Cause

- o An evaluation of the root cause is being conducted by Environmental Engineering. An initial assessment points to a lack of routine maintenance for the manholes and covers. The results of this evaluation will be available by 5/19/89.

7. Corrective Actions

- * Repair of the manhole covers began on 5/15/89. Repairs were completed on 5/16/89.
- o Interim corrective actions are being identified to insure that overflow of the manholes will not recur. The actions will be identified as part of the Item 5 report.