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**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

March 7, 1994

Mr. Larry Campbell  
Transwestern Pipeline Company  
Technical Operations  
P.O. Box 1717  
Rosewell, New Mexico 88202-1717

**RE: Notice of Deficiency (NOD) - Administrative Completeness of  
Transwestern Pipeline Company's Liquid Waste Impoundment  
Closure Plan**

The New Mexico Environment Department (NMED) has reviewed the June 1993 Transwestern Pipeline Company's Liquid Waste Impoundment Closure Plan for the Compressor Station No. 9 Unit as required under the Resource Conservation and Recovery Act (RCRA).

After reviewing the closure plan and related information, the NMED has found the closure plan to be grossly inadequate. The enclosed attachment lists the deficiencies that must be addressed in accordance with the New Mexico Hazardous Waste Management Regulations (HWMR-7, as amended 1992, Repl. Pamp. 1993), Part VI, 40 CFR, §265.

The information requested in the attachment must be submitted to NMED within thirty (30) days of receipt of this NOD. Failure to submit the required information in this designated time may result in disapproval of the closure plan or appropriate enforcement action.

Larry Campbell, TW  
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March 7, 1994

If you have any questions about the details of your response, contact Mr. Cornelius Amindyas of my staff at (505) 827-4308 for further discussion.

Sincerely,

*Barbara Hoditschek*

Barbara Hoditschek, Manager  
RCRA Permits Program  
Hazardous and Radioactive Materials Bureau

cc: Benito Garcia, HRMB  
Tracy Hughes, NMED  
David Neleigh, EPA Region 6  
Steve Alexander, HRMB  
File Red, 1994

ATTACHMENT

TRANSWESTERN PIPELINE COMPANY

NOTICE OF DEFICIENCY

Liquid Waste Impoundment Closure Plan

MARCH 7, 1994

Introduction:

The following is a list of the required information that Transwestern Pipeline Company (TW) must provide to the New Mexico Environment Department (NMED), Hazardous and Radioactive Materials Bureau (HRMB). Quotes in bold, below, are taken directly from the text submitted by TW, dated June 21, 1993:

I. Closure Plan [HWMR-7, Part VI, 40 CFR, §§265.111 and 112]

- a) Provide a comprehensive Closure Plan identifying the steps necessary to perform closure of the Compression Station No. 9 Surface Impoundment (hereafter, facility). Include a description of how final closure of the facility will be conducted.
- b) Present a closure schedule for the surface impoundment in question, including at a minimum, the total time required to close the hazardous waste management unit and the time required for intervening closure activities which will allow tracking of the progress of the partial and final closure.
- c) (Page 5, Section 5.0,): **"Summary of Interim Corrective Measures"**  
  
Submit a report to HRMB, on a monthly basis, describing the status of the interim corrective measures being implemented by TW. This will enable HRMB to keep track of the progress of the corrective action interim measures.
- d) (Page 5, Section 6.0, second paragraph): **"The vertical and lateral extent of contamination in this zone has been clearly defined."**

Provide the documentation evidence necessary to support this statement. The copy of the Brown and Root letter report, enclosed in a September 7, 1993 letter to Mr.

Edward Horst, is insufficient documentation to support this statement.

e) Provide a map similar to Brown and Root's Attachment 1 of May 15, 1993, but with the limits of the recoverable petroleum hydrocarbons clearly established such that the lateral and vertical extent of the contamination plume limits of interest will no longer be termed "**suspect**" as indicated on the TW's Attachment 1 mentioned above. Include an indication of the locations of monitoring wells.

f) (Page 6, Section 7.0, paragraph 4): "**... an inside-out approach will be used to determine boring locations.**"

Provide an adequate method to delineate the horizontal and vertical extent of contamination. This is required because the general application of an "inside-out" approach to investigating the contamination, both within the perched aquifer and the uppermost aquifer is acceptable, however, the approach specified in this section is inadequate for delineating the extent of the contamination both vertically and horizontally.

g) Submit a site-specific map indicating the location of the liquid waste impoundment under discussion in relation to the facility site. Include TW's Figure 2 that was mentioned, but not included in the June 21, 1993 report and closure plan.

h) Furnish an estimate of the maximum inventory of hazardous waste that needs to be removed from the contaminated site, including, the methods and steps TW plans to use for removing, transporting, treating, storing or disposing of all hazardous waste of interest.

i) Submit a detailed description of the measures that will be taken to remove or decontaminate all hazardous waste residues and contaminated equipment, containment system, structures, and soils during final closure.

## II. Amendment of Plan [HWMR-7, Part VI, 40 CFR, §265.112(c)]

The Closure Plan must contain provisions for possible amendment of the Closure Plan and for notifying the Secretary, NMED at least 60 days prior to the any proposed change(s) in corrective action design or operation, preceded by a 180 day notification to the date on which TW expects to begin closure of the surface impoundment, in accordance with the approved closure plan.

**III. Disposal or Decontamination of Equipment, Structures and Soils [HWMR-7, Part VI, 40 CFR, §265.114]**

- a) Demonstrate how disposal or decontamination of all equipment, soils, and structures will be conducted during partial and final closure periods. Include the anticipated amount of time within which TW plans to submit to the Secretary, NMED, by registered mail, a certification that the hazardous waste management facility has been closed in accordance with specifications in the approved closure plan.
- b) (Page 5, Section 6.0, first paragraph): **"Remediation of the shallow perched zone..."**

Explain the "natural clay basin", and the "presumed basin", described in earlier portions of the Closure Plan [ Section 4.0, paragraph 3, fourth sentence; and paragraph 4, first sentence]. This is confusing and may lead to misunderstanding in the future.

TW must assign a formal title to the liquid waste impoundment for all subsequent documentation. For purposes of the assessment portion of the Closure Plan, the saturated material within the liquid waste impoundment should henceforth be referred to as the "perched aquifer".

**IV. Ground Water monitoring [HWMR-7, Part VI, §265.90-93]**

- a) Provide a ground-water monitoring program capable of determining the facility's impact on the quality of the ground water in the uppermost aquifer underlying the facility. The ground water monitoring system must be capable of yielding ground water samples for analysis. Also explain how any leachate collection, and run-on and run-off controls will be managed.
- b) (Page 6, Section 7.0, paragraph 3): **"Additional investigations and evaluation are required prior to development of a final corrective measures plan for the lower unconfined aquifer."**

The requirements for additional investigations (a ground water quality assessment plan) are outlined and described in HWMR-7, Part VI, 40 CFR, §265.93(d)(4), 265.93(e) and 265.94(b). Additional requirements pertaining to the ground water quality assessment plan may be found in HWMR-7, Part VI, 40 CFR, §265.112(b)(4) and 265.112(b)(5).

For purposes of the assessment portion of the Closure

Plan the "lower unconfined aquifer" will be referred to as the "uppermost aquifer". See HWMR-7, Part I, 40 CFR, §260.10 for the definition of "uppermost aquifer".

- c) Provide an acceptable ground water quality assessment plan which should include, at a minimum, the following:
1. A characterization of the uppermost aquifer including flow nets, cross-sections, hydraulic conductivities of the aquifer and any confining units based upon site-specific data (pump or slug test data), and all calculations of hydraulic conductivity based on the data.
  2. The hydraulic conditions and potential contaminant pathways;
  3. The proposed assessment monitoring system;
  4. The investigative approach that will be used to fully characterize the rate, extent and concentrations of hazardous constituents and each investigatory phase involved;
  5. The number, location, screen placement and depth of the wells that will initially be installed and the rationale for these decisions;
  6. The strategy to be used in subsequent investigatory phases;
  7. The chosen method of well drilling, construction and completion,
  8. A comprehensive sampling and analysis plan (program) that will be used, including the number of samples to be collected and analyzed;
  9. A data collection and data analysis quality assurance/quality control (QA/QC) program
  10. The data analysis procedures that will be used to interpret the analytical data; and
  11. The schedule of implementation of each phase of the assessment program.