



Department of Energy
Office of Legacy Management

JUN -1 2005

Gary Janosko, Chief
Fuel Cycle Facilities Branch
Division of Fuel Cycle Safety and Safeguards
U.S. Nuclear Regulatory Commission
MS: T8F42
Washington, DC 20555-0001

40-6659

Subject: Correction to Page 3-9 of the Long-Term Surveillance Plan for the Shirley Basin South (Petrotomics), Title II Site

Reference: Letter from Thomas C. Pauling, U.S. Department of Energy, to Gary Janosko, NRC, titled *Long-Term Surveillance Plan for the Shirley Basin South (Petrotomics), Title II Site*, dated May 12, 2005


Dear Mr. Janosko:

Enclosed is 4 copies of a corrected page 3-9 for the Long-Term Surveillance Plan (LTSP) that was transmitted to you by the reference letter. The words "*a ground water contour map and*" were inadvertently deleted from the LTSP text in the first paragraph of the page during the editing process. Since the original document was printed two-sided, the subsequent page (page 3-10) is included on the backside of the corrected page 3-9 to facilitate page replacement.

We apologize for any inconvenience this error may have caused.

Please call me at 970/248-6048 if you have questions.

Sincerely,


for Thomas C. Pauling
Site Manager

Enclosure

cc/w enclosure:
M. Thiesse, WDEQ
Project File SBS 505.15 (A) D. Roberts

NMSSO1

cc w/o enclosure:
M. Plessinger, Stoller

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Results of the ground water monitoring program will be included in the annual inspection report (Section 3.4). Ground water monitoring results will include a ground water contour map and iso-concentration maps for uranium and sulfate. Also, concentration versus time graphs in all wells for uranium and sulfate will be reported.

Once every 10 years, beginning in 2010, DOE will check the records at the Wyoming State Engineer's Office to determine if there have been significant changes in water demands in the vicinity of the site.

Table 3-4. Ground Water Monitoring Plan for the Shirley Basin South, Wyoming, Disposal Site

WELL DESIGNATION	MONITORING FREQUENCY	ANALYTES	COMMENTS
MW-40-SC	Annually	Uranium, Radium-226, Radium-228, Lead, Chloride, Nitrate, Nickel, Selenium, Thorium-230, Sulfate, TDS, Cadmium, Chromium, pH, electrical conductivity, water level	Upgradient well, Upper Sand Aquifer
MW-5-SC	Annually	Uranium, Radium-226, Radium-228, Lead, Chloride, Nitrate, Nickel, Selenium, Thorium-230, Sulfate, TDS, Cadmium, Chromium, pH, electrical conductivity, water level	POC well, Upper Sand Aquifer
MW-51-SC	Annually	Uranium, Radium-226, Radium-228, Lead, Chloride, Nitrate, Nickel, Selenium, Thorium-230, Sulfate, TDS, Cadmium, Chromium, pH, electrical conductivity, water level	POC well, Upper Sand Aquifer
MW-54-SC	Annually	Uranium, Radium-226, Radium-228, Lead, Chloride, Nitrate, Nickel, Selenium, Thorium-230, Sulfate, TDS, Cadmium, Chromium, pH, electrical conductivity, water level	Upper Sand Aquifer
MW-10-DC	Annually	Uranium, Radium-226, Radium-228, Lead, Chloride, Nitrate, Nickel, Selenium, Thorium-230, Sulfate, TDS, Cadmium, Chromium, pH, electrical conductivity, water level	Main Sand Aquifer
MW-5-DC	Annually	Uranium, Radium-226, Radium-228, Lead, Chloride, Nitrate, Nickel, Selenium, Thorium-230, Sulfate, TDS, Cadmium, Chromium, pH, electrical conductivity, water level	POC well, Main Sand Aquifer
MW-19-DC	Annually	Uranium, Radium-226, Radium-228, Lead, Chloride, Nitrate, Nickel, Selenium, Thorium-230, Sulfate, TDS, Cadmium, Chromium, pH, electrical conductivity, water level	POC well, Main Sand Aquifer
MW-KGS#3	Annually	Uranium, Radium-226, Radium-228, Lead, Chloride, Nitrate, Nickel, Selenium, Thorium-230, Sulfate, TDS, Cadmium, Chromium, pH, electrical conductivity, water level	Lower Sand Aquifer; Analysis results used to verify hydraulic isolation from contaminated aquifers.

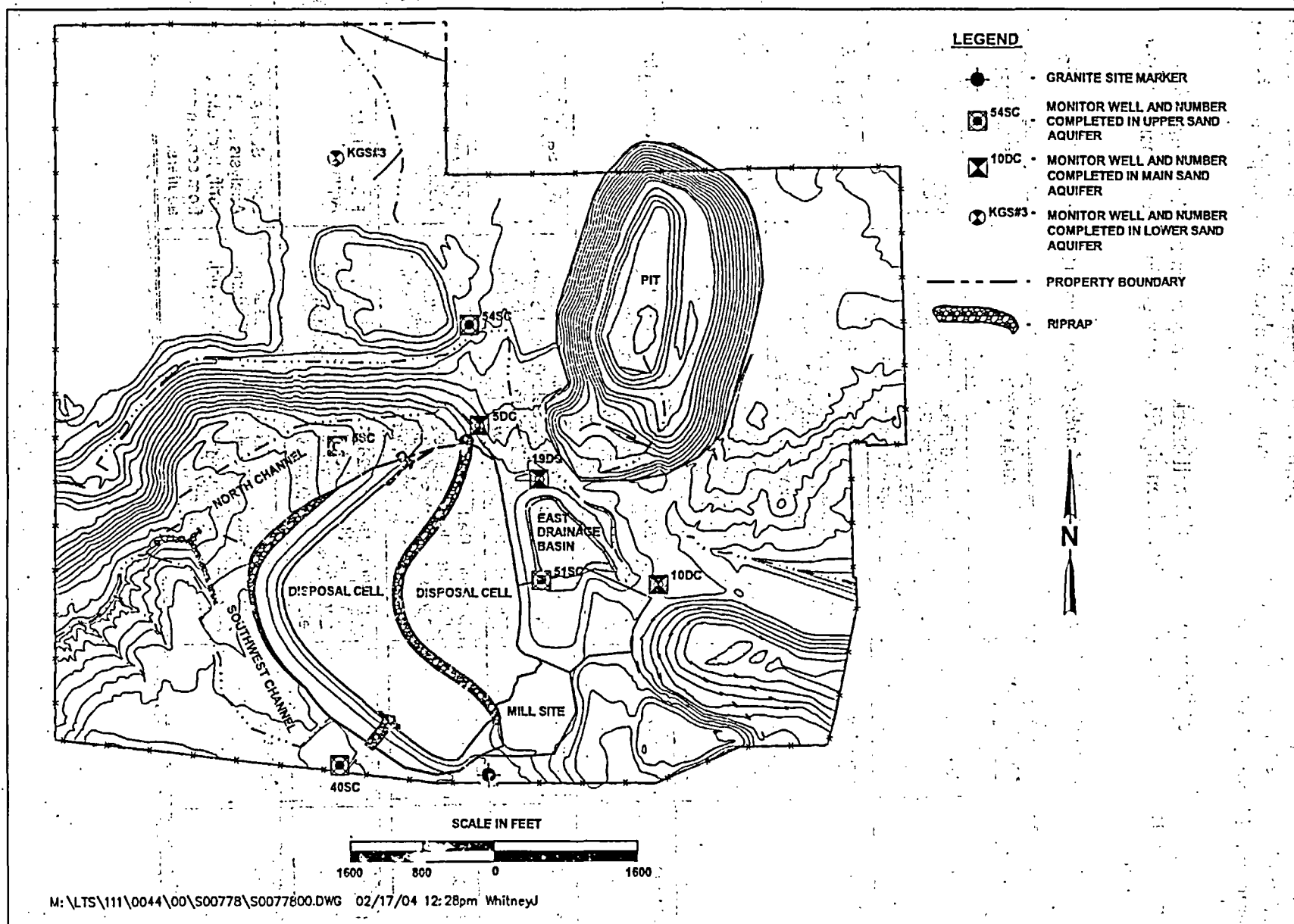


Figure 3-2. Location of Monitor Wells in the Ground Water Monitoring Network