

Unknown

From: Croulet, Donald K
Sent: Monday, April 03, 2006 8:10 AM
To: Conroy, Patric W; Cox, Mark R; Bowman, Greg; 'James Noggle'; 'Timothy Rice'; Janicki, John W; PRICE, ERNEST JR; Robert Oliveira (boliveira@amnucins.com)
Subject: FW: MONITORING WELL STATUS AS OF MARCH 31, 2006-1000 HOURS

From: Sachatello, Ronald
Sent: Friday, March 31, 2006 11:44 AM
To: Drake, Richard; Bode, Paul M.; Nuta, Dragos A; English, Christopher; Peters, James; Wilson, Daniel; Sandike, Steven; Kulaga, Joe; Morin, Kenneth; Hinrichs, Gary; McMullin, Kathy; Lavera, Ron; Evers, Bob; Colville, Howard J.; Colville, Richard; Burns, Thomas; Zolotas, William; Tamburi, Robin M.; Loope, Dennis; Halcomb John W; Bryant, Sandra; 'mbarvenik@gza.com'; 'David Winslow'; Quinn, Dennis; 'saracovelli@gmail.com'; 'jdn@nrc.gov'; 'jdn@nrc.gov'; Croulet, Donald; Jones, T. R.
Cc: Mayer, Don; Axelson, William L; Sachatello, Ronald
Subject: MONITORING WELL STATUS AS OF MARCH 31, 2006-1000 HOURS



MONITORING WELL
US-MARCH 31. 2006

- All wells have been drilled.
- Three wells to date have not had an initial sample (MW-45, 51, 52).
 - MW-52 is in process of being sampled today
 - MW-51 is being developed today and will be sampled next week
 - MW-45 will be sampled next week

This record was deleted
in accordance with the Freedom of Information
Act, exemptions 4
FOIA- 2006-0195

C-7

MONITORING WELL STATUS

MARCH 31, 2006 at 1000 hrs

PHASE I WELL STATUS

<u>Well #</u>	<u>Location</u>	<u>Status</u>	<u>Notes</u>	<u>Most Recent IPEC Tritium</u>	<u>IPEC Strontium</u>
MW-30	[] exempt 4	In Service	N/A	511,000 pCi/L (2/07/06) 65,000-179,000 (3/13/06)	See note below
MW-31	U2 MOB sidewalk	In Service	N/A	33,100 pCi/L (2/7/06)	
MW-32	[] exempt 4	In Service	Packer testing in progress	17,700 pCi/L (2/7/06)	
MW-33	U2 Transformer Yard	In Service	N/A	253,000 pCi/L (3/3/06)	
MW-34	U2 Transformer Yard	In Service	N/A	230,000 pCi/L (3/3/06)	
MW-35	U2 Transformer Yard	In Service	NA	119,000 pCi/L (3/3/06)	
MW-36	East side of Discharge Canal	In Service	Highest reading at 52' depth	58,100 pCi/L (3/23/06)	1.29 pCi/L (2/7/06)
MW-37	West Side of Discharge Canal	In Service	Highest reading at 32' depth	30,500 pCi/L (2/25/06)	2.4-22.7 pCi/L (2/28/06)
MW-38	[] exempt 4	In Service	N/A	Not Detected on 3/13/06	
MW-111	U2 Transformer Yard	In Service	N/A	236,000 pCi/L (3/3/06)	1.17 pCi/L (2/7/06)

- On 3/13/06 the 74', 78', and 76' depths on MW-30 were taken for IPEC tritium counting (results: 179,000, 142,000, 65,000 pCi/L respectively)
- The above MW-30 sample at 72' el was also taken, and sent directly to Teledyne for analysis, as this has been typically higher tritium activity
- MW-30 cannot be sampled for next 30 days because of outage equipment placement, and area dose rates from demineralizer skid
- Attempts will be made to get representative Transformer Yard wells (MW-33,34,35, 111) if possible during outage for MW-30 trending correlation

PHASE II WELL STATUS

<u>Well #</u>	<u>Location</u>	<u>Status</u>	<u>Notes</u>	<u>Most Recent IPEC Results</u>
MW-39	[]	In Service	N/A	798 pCi/L (3/02/06)
MW-40	Parking Lot above Sewerage Plant	In Service	N/A	N.D (<MDA) (2/09/06)
MW-41	[]	In service	N/A	1031 pCi/L (3/16/06)
MW-42	[]	In service	At 42' depth	261,000 pCi/L (3/22/06) (1.05E-05 uCi/cc Cs-13)
MW-43	[]	In service	Sampled 26' and 62' depths	N.D (<MDA) (3/15/06)
MW-44	[]	Drilling complete	To be sampled	N.D. (<MDA) (3/28/06)
MW-45	[]	Drilled 65' of 65'	Drilling complete	To be developed and sampled
MW-46	U3 Transformer Yard	In Service	N/A	1430 pCi/L (3/01/06)
MW-47	[]	In service	N/A	N.D. (<MDA) (3/16/06)
MW-48	Far South Property Boundary	In service	N/A	N.D. (<MDA) (2/10/06)
MW-49	West side of Discharge Canal	In service	Split sampled 3/22/06	15,200 pCi/L (3/22/06) at 25' depth
MW-50	East side of Discharge Canal	In service	Split sampled 3/22/06	10,700 pCi/L (3/22/06) at 67' depth
MW-51	South Hill North of MW-40	Drilling complete	Developing well	Sample week of April 3-7
MW-52	North end of U2 Turbine Bldg	Drilling complete	Ready for sampling	To be sampled

MOST RECENT TRITIUM ACTIVITY IN MONITORING WELLS (BY INCREASING VALUES)-03/31/06

These numbers below represent the **highest activity** found in the well . Because some of the wells have multiple sample heights, the values may be lower in the well at other elevations but are not listed below.

Example: MW-42 has 261,000 pCi/L 49' down in the well (shallow well sample point) and 6,550 pCi/L 78' down in the deeper well sampling point.

<u>WELL NUMBER</u>	<u>ACTIVITY (pCi/L)</u>	<u>STILL AWAITING INITIAL RESULTS</u>	
MW-40	ND		
MW-43	ND		
MW-47	ND	MW-45	NOT SAMPLED YET
MW-48	ND	MW-51	NOT SAMPLED YET
MW-38	ND	MW-52	NOT SAMPLED YET
MW-44	ND		
MW-39	793		
MW-41	1031		
MW-46	1430		
MW-50	10,700		
MW-49	15,200		
MW-32	17,700		
MW-37	30,000		
MW-31	33,100		
MW-36	58,100		
MW-35	119,000		
MW-30	179,000		
MW-34	230,000		
MW-111	236,000		
MW-33	253,000		
MW-42	261,000		

MW-37 IPEC SPLIT SAMPLE RESULT FROM FEB 28, 2006 SAMPLE FROM TELEDYNE LAB

Note:

The values given below for Ni-63 are the first reported lab values. Recounting for nickel 63 is in progress and early indication is that the stated values below are incorrect, and nickel-63 is believed to be either not present, or possibly present at low values. We are awaiting the official Teledyne lab results.

Additionally another lab (Framatome) is counting this Feb 28 sample, and a March 17 sample, for nickel -63 comparisons

The values for Strontium-90 as counted by Teledyne are in good agreement with the NRC lab results with the exception of the 40' elevation where Teledyne reported 3.8 pCi/L and the NRC value were higher (range of 20 pCi/L)

TELEDYNE LAB RESULTS

<u>DEPTH TO BOTTOM</u>	<u>SEA LEVEL ELEVATION</u>	<u>H-3 pCi/L</u>	<u>SR-90 pCi/L</u>	<u>N-63 pCi/L</u>
22'	-7'	12,800	2.4	42.4 (suspect)
32'	-17'	28,600	18.2	34.1 (suspect)
40'	-26'	14,700	3.8	56.5 (suspect)
57'	-42'	13,300	22.7	29.1 (suspect)

MOST RECENT SPLIT SAMPLES TAKEN (March 22-24, 2006)

The data below is the on-site IPEC tritium sample results for screening purposes, prior to ship out to Teledyne Labs:

Well	Sample Depth	Collected	<u>IPEC Counted 3/26/05</u>	
• MW-50	42' Depth	(sampled 3/22/06)	8,040	
• MW-50	67' Depth	(sampled 3/22/06)	10,700	
• MW-49	25.5' Depth-West	(sampled 3/22/06)	15,200	
• MW-49	42' Depth-East	(sampled 3/22/06)	10,100	
• MW-49	65.5' Depth	(sampled 3/22/06)	6,620	
• MW-42	49' Depth	(sampled 3/23/06)	261,000	(showed 1.05 E-05 uCi/cc Cs-137 from IPEC count results) *
• MW-42	78' Depth	(sampled 3/24/06)	6,550	
• MW-36	26' Depth	(sampled 3/23/06)	29,500	
• MW-36	52' Depth	(sampled 3/23/06)	58,100	
• MW-36	41' Depth	(sampled 3/24/06)	28,700	

* This is only well sample (at depth 49') that showed any gamma activity to date

** All the above wells were counted for PCBs and found clean

*** MW-37 was also recently sampled for PCBs (this was a non-split sample effort for PCB's) and is being sent out for analysis