

PI-07

Unknown

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Sent: Wednesday, April 12, 2006 11:19 AM
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Subject: Emailing: Results 4-10-06.pdf



Results 4-10-06.pdf

Monitoring Well Status as of 4-10-06

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

C-15

MONITORING WELL

APRIL 10, 2006 at 1700 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 #	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	26,200 pCi/L	(2/23/06)	
MW-32	[] exempt #	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	34,100 pCi/L	(3/27/06)	2.4-22.7 pCi/L (2/28/06)
MW-38	[]	In Service	N/A	Not Detected on	(3/13/06)	
MW-111	U2 Transformer Yard exempt #	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
- 4/3/06 The vacuum truck is onsite to vacuum dirt from the drums at each well site. (Dirt produced from the drilling process). This dirt has been sampled and will be dumped onsite. Drums at 31,32,37,39,41,42,44,45, and 52 have been emptied at this time.

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	Packer testing in progress	789 pCi/L (3/02/06)
MW-40	exempt 4 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	4 []	In service	At 42' depth	261,000 pCi/L (3/22/06) (1.05E-05 uCi/cc Cs-137)
MW-43	4 []	In service	Sampled 26' and 62' depths	N.D (<MDA) (3/15/06)
MW-44	4 []	Drilling complete	To be sampled	N.D. (<MDA) (3/28/06)
MW-45	4 []	Drilled 65' of 65'	Drilling complete	1060 pCi/L (4/4/06)
MW-46	U3 Transformer Yard	In Service	N/A	1430 pCi/L (3/01/06)
MW-47	4 []	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 25.5' 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	N/A	N.D (<MDA) (4/4/06)
MW-52	North end of U2 Turbine Bldg	Drilling complete	N/A	N.D (<MDA) (3/31/06)

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>WELL NUMBER</u>	<u>ACTIVITY (pCi/L)</u>
MW-40	ND	MW-45	1060
MW-43	ND	MW-51	N.D.
MW-47	ND	MW-52	N.D.
MW-48	ND		
MW-38	ND		
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-April 7, 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	
• MW-42	41' Depth (1")	(sampled 4/07/06)	Awaiting results	
• MW-42	43' Depth (1")	(sampled 4/07/06)	Awaiting results	
• MW-42	45.5' Depth (1")	(sampled 4/07/06)	Awaiting results	
• MW-42	48' Depth (1")	(sampled 4/07/06)	Awaiting results	
• MW-42	78' Depth (1")	(sampled 4/07/06)	Awaiting results	
• MW-42	51' Depth (2")	(sampled 4/07/06)	Awaiting results	

* 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