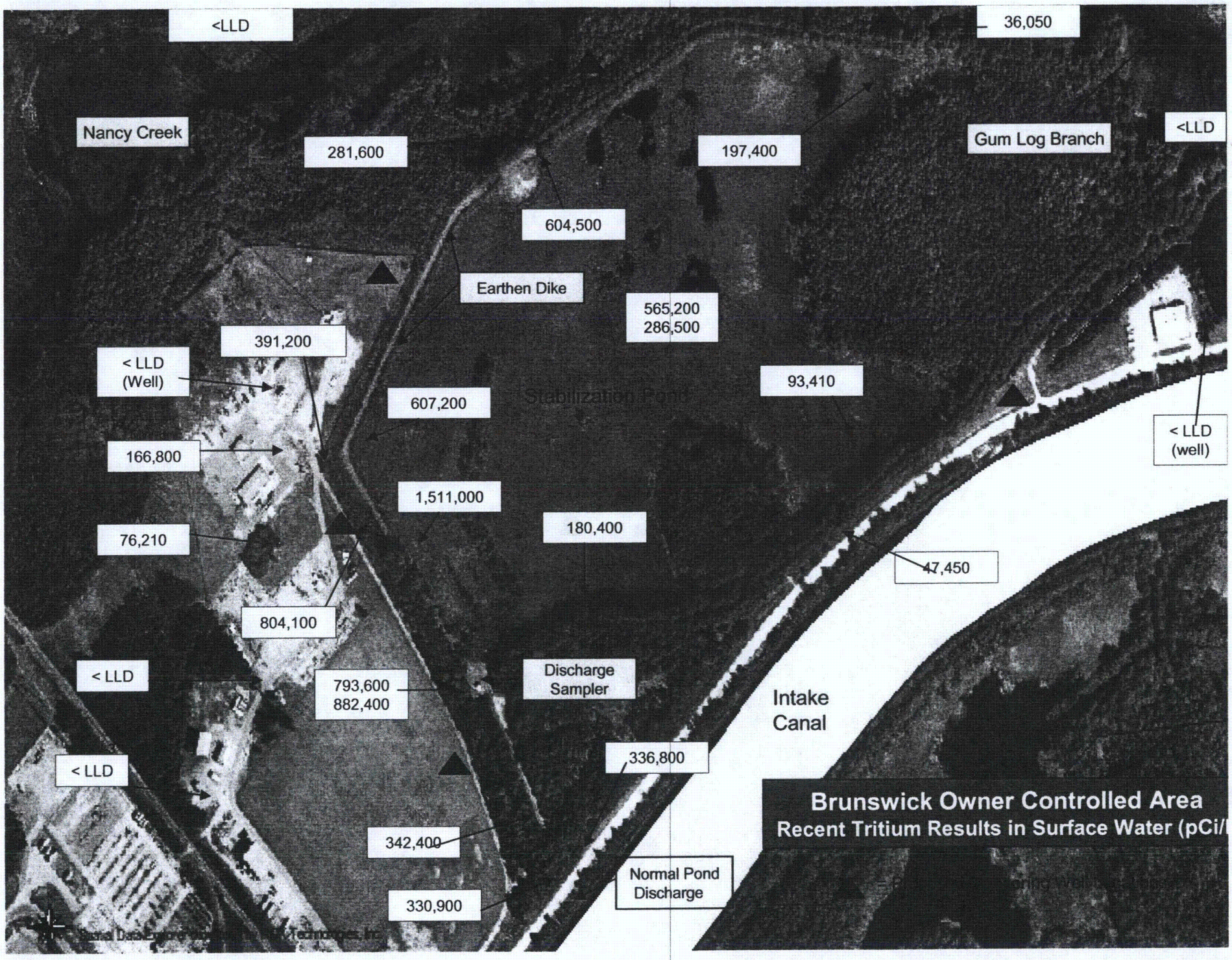
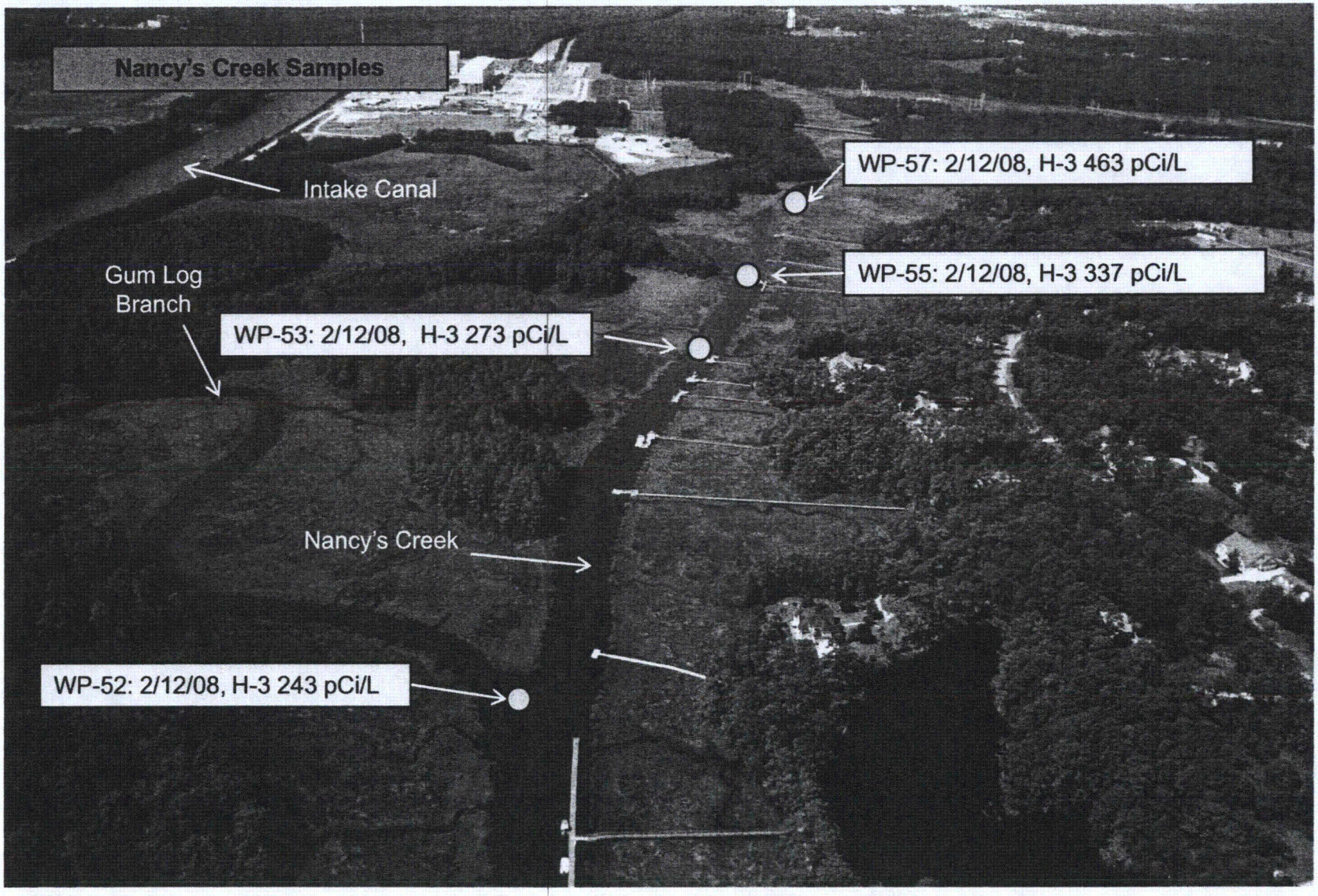
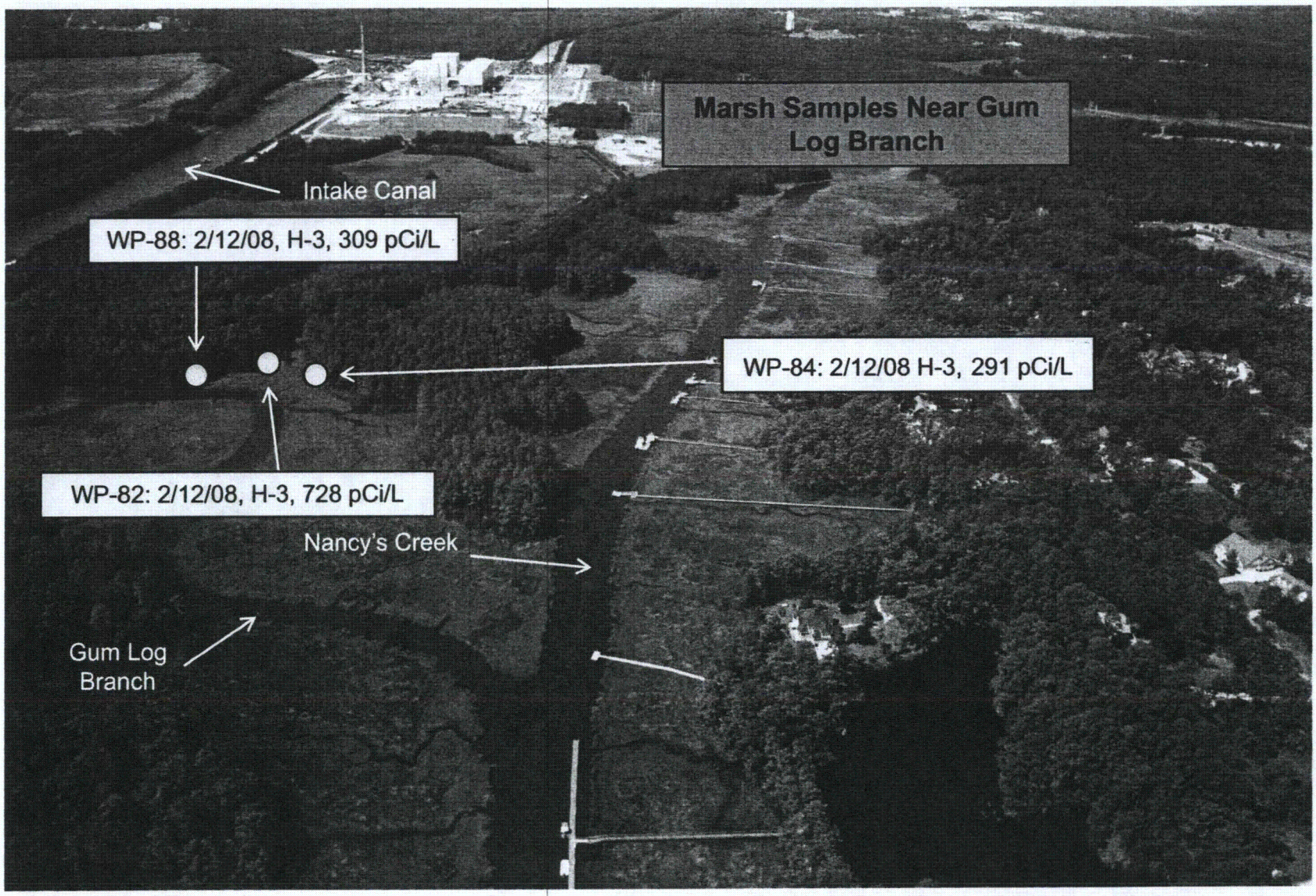

<LLD
36,050
Nancy Creek
281,600
197,400
Gum Log Branch
<LLD
604,500
Earthen Dike
565,200
286,500
391,200
< LLD
(Well)
93,410
607,200
Stabilization Pond
< LLD
(well)
166,800
1,511,000
180,400
76,210
47,450
804,100
< LLD
793,600
882,400
Discharge
Sampler
Intake
Canal
< LLD
336,800
342,400
Normal Pond
Discharge
330,900
Brunswick Owner Controlled Area
Recent Tritium Results in Surface Water (pCi/

P20



Progress Energy



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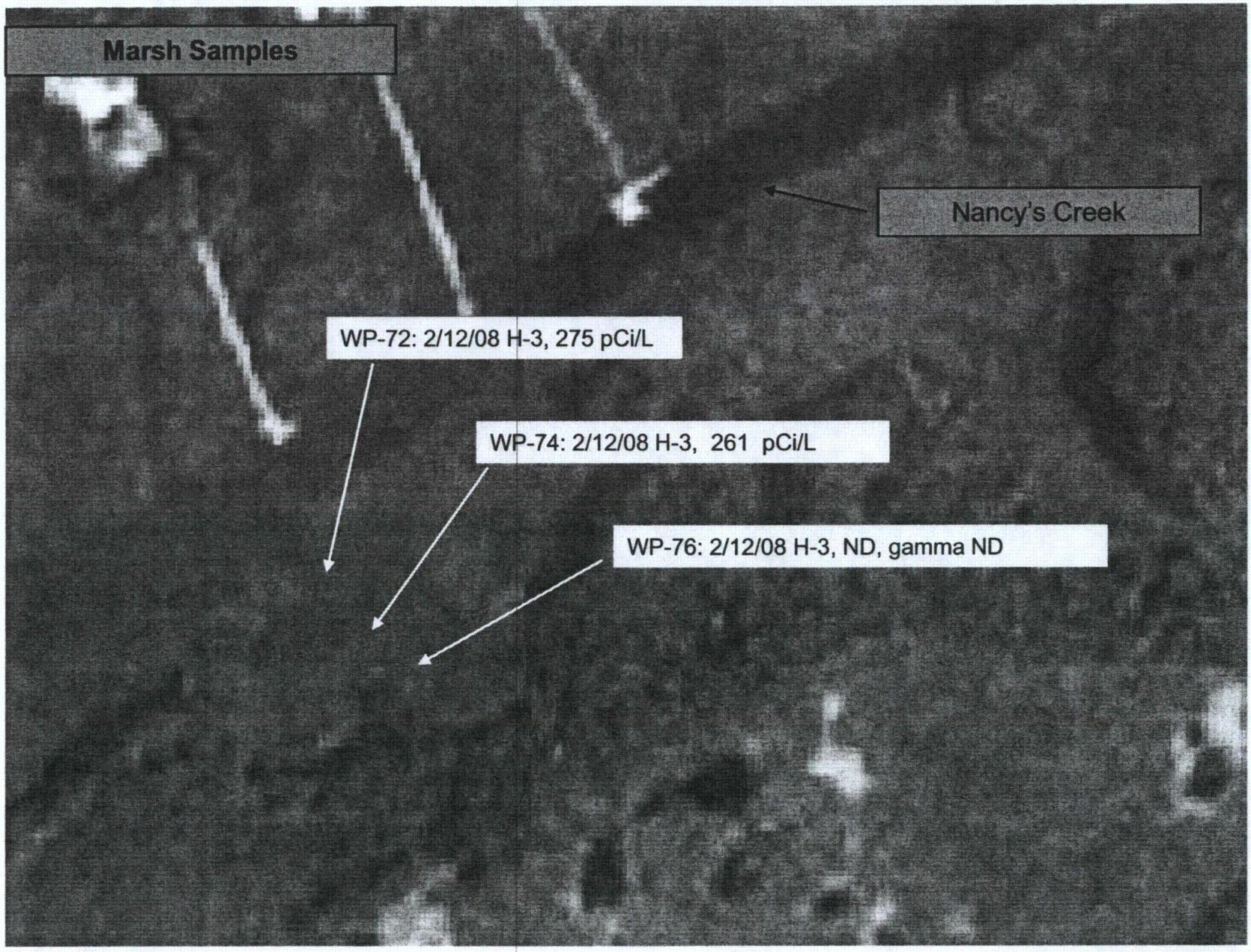

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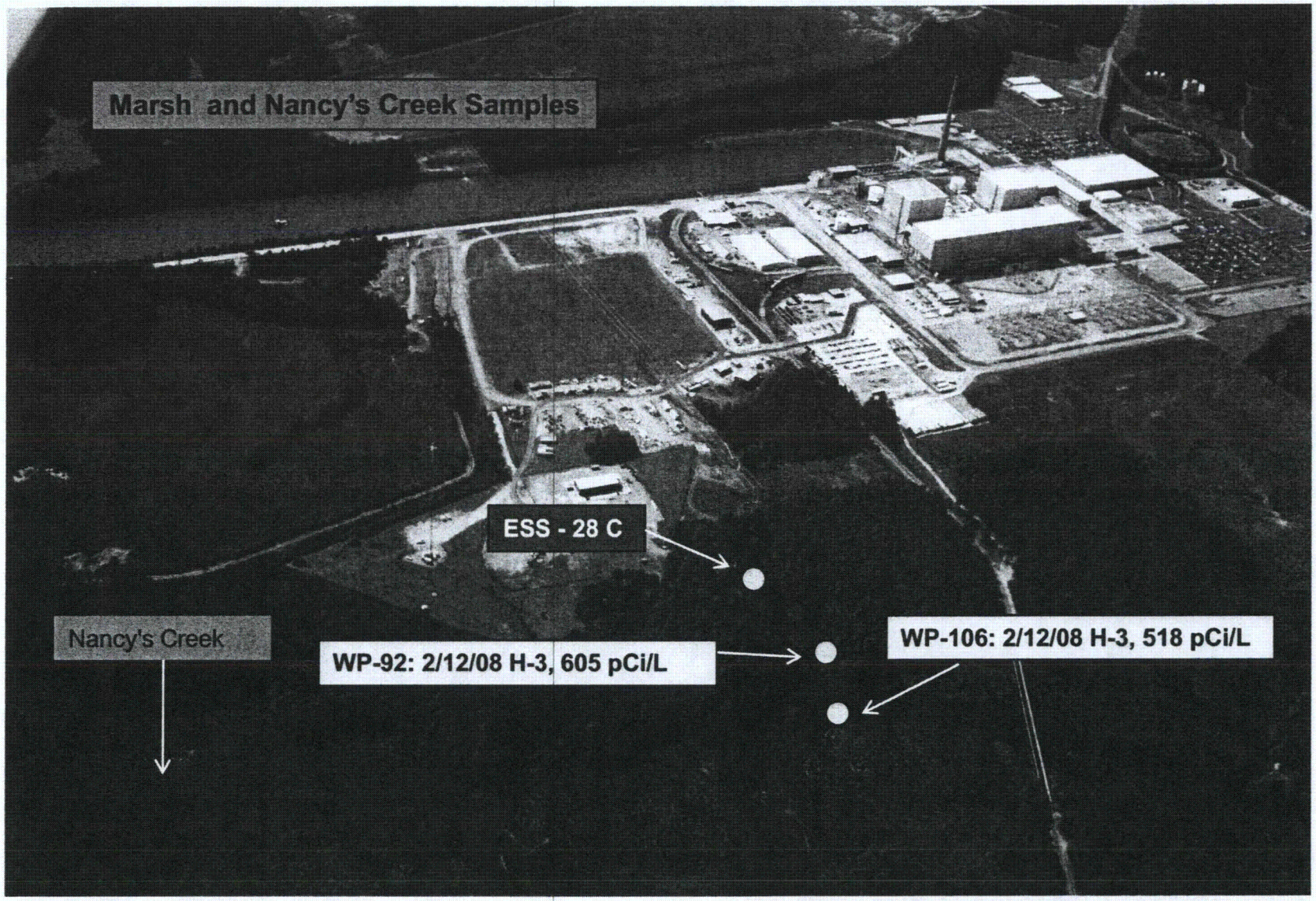
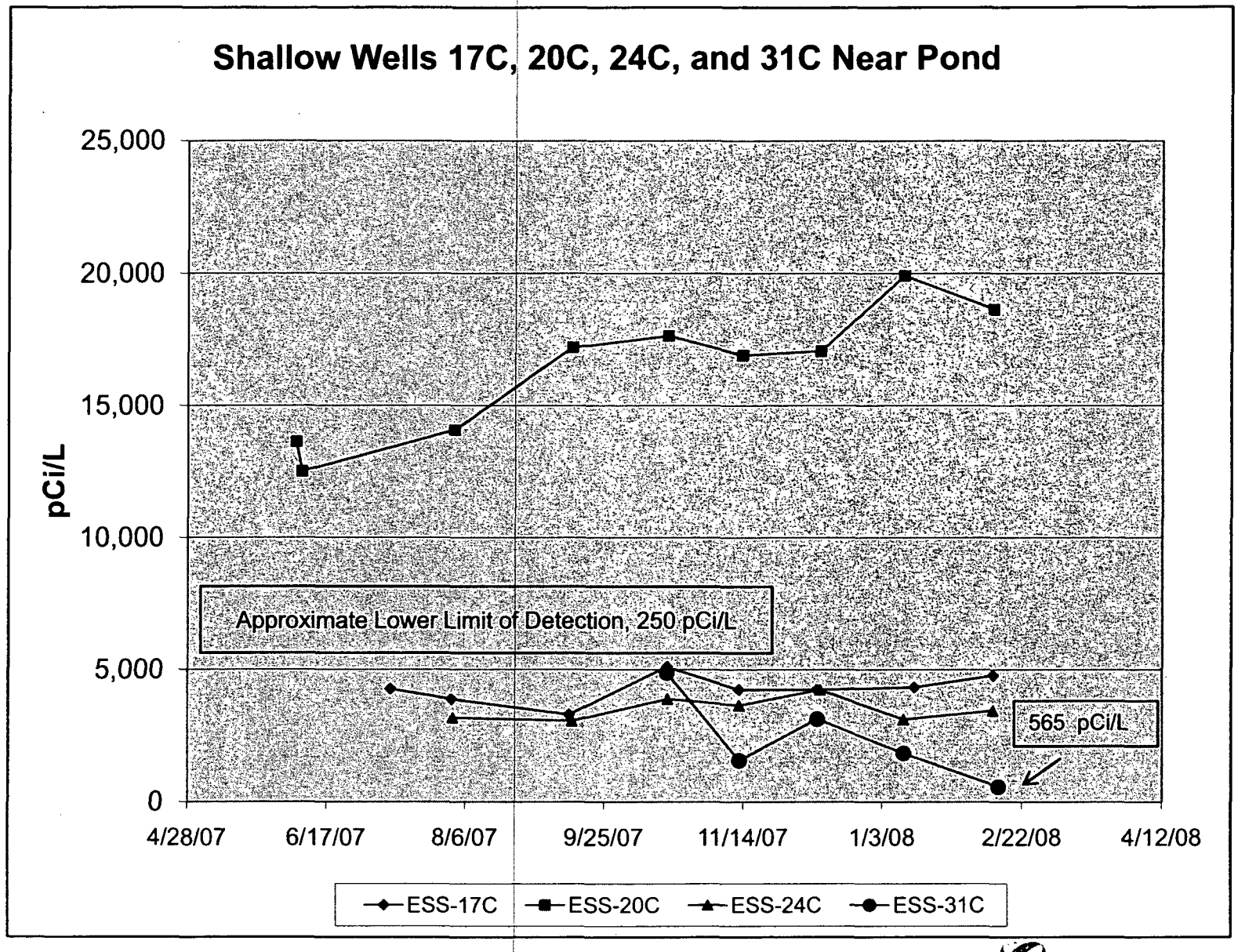
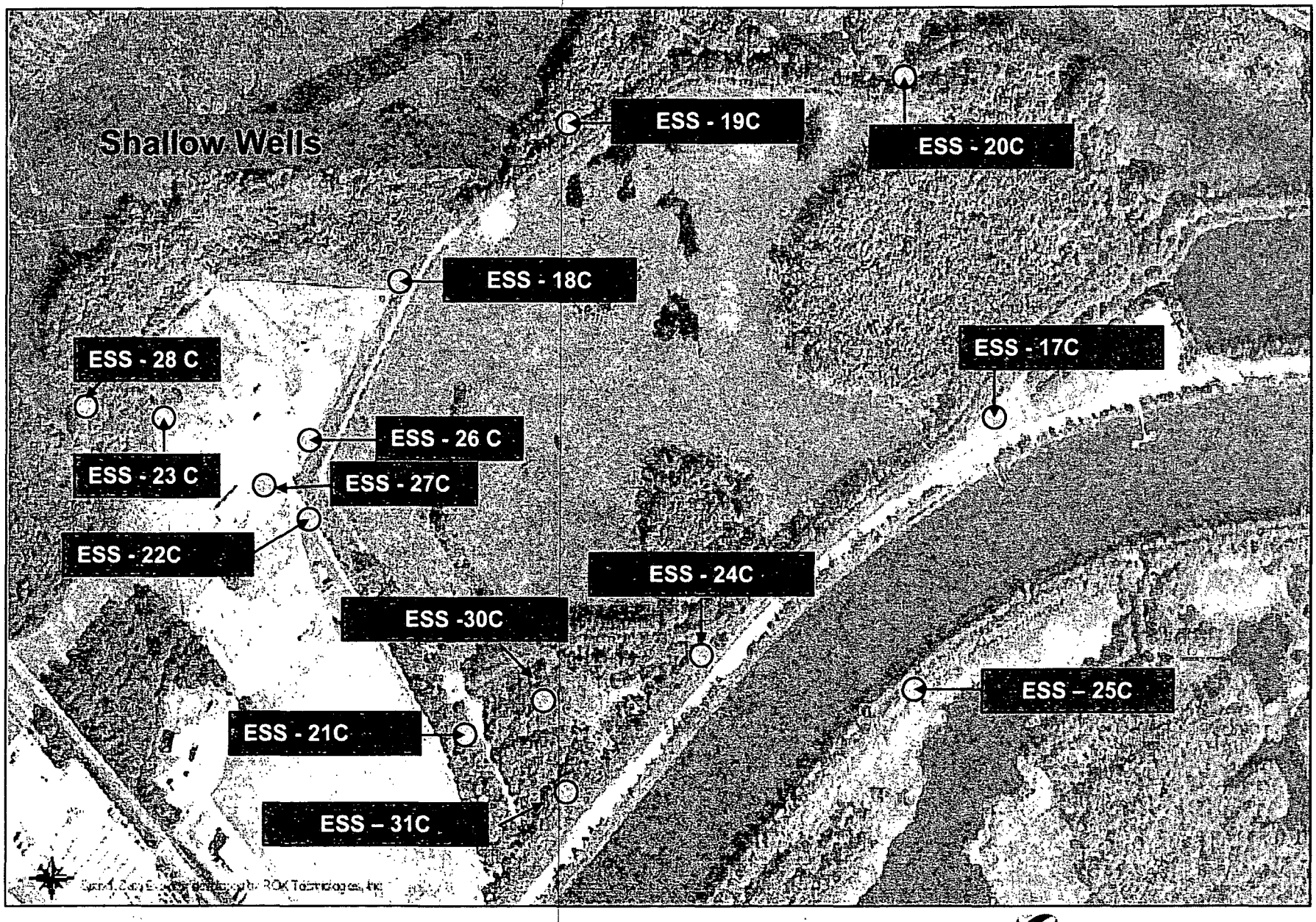


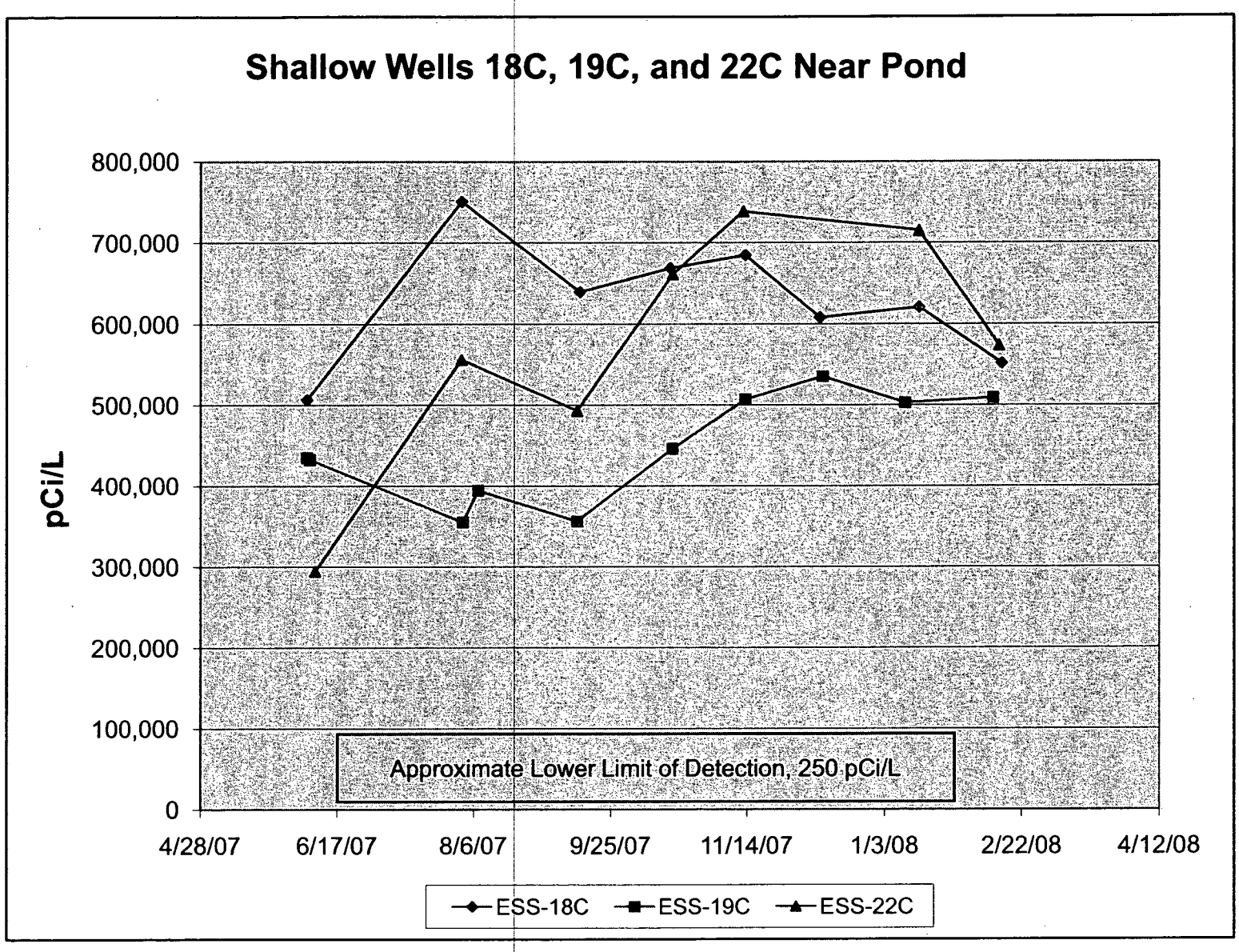
Progress Energy



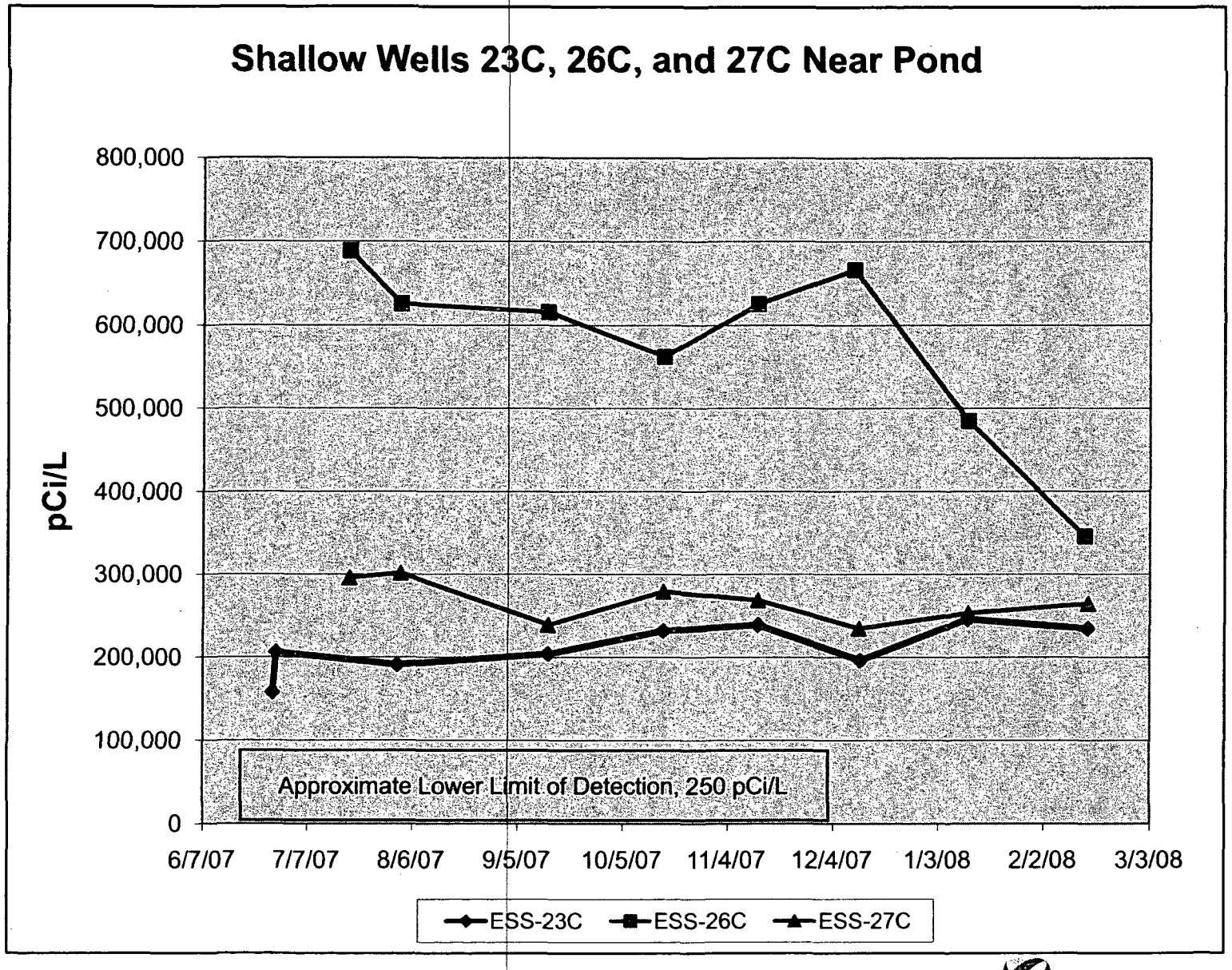
Progress Energy



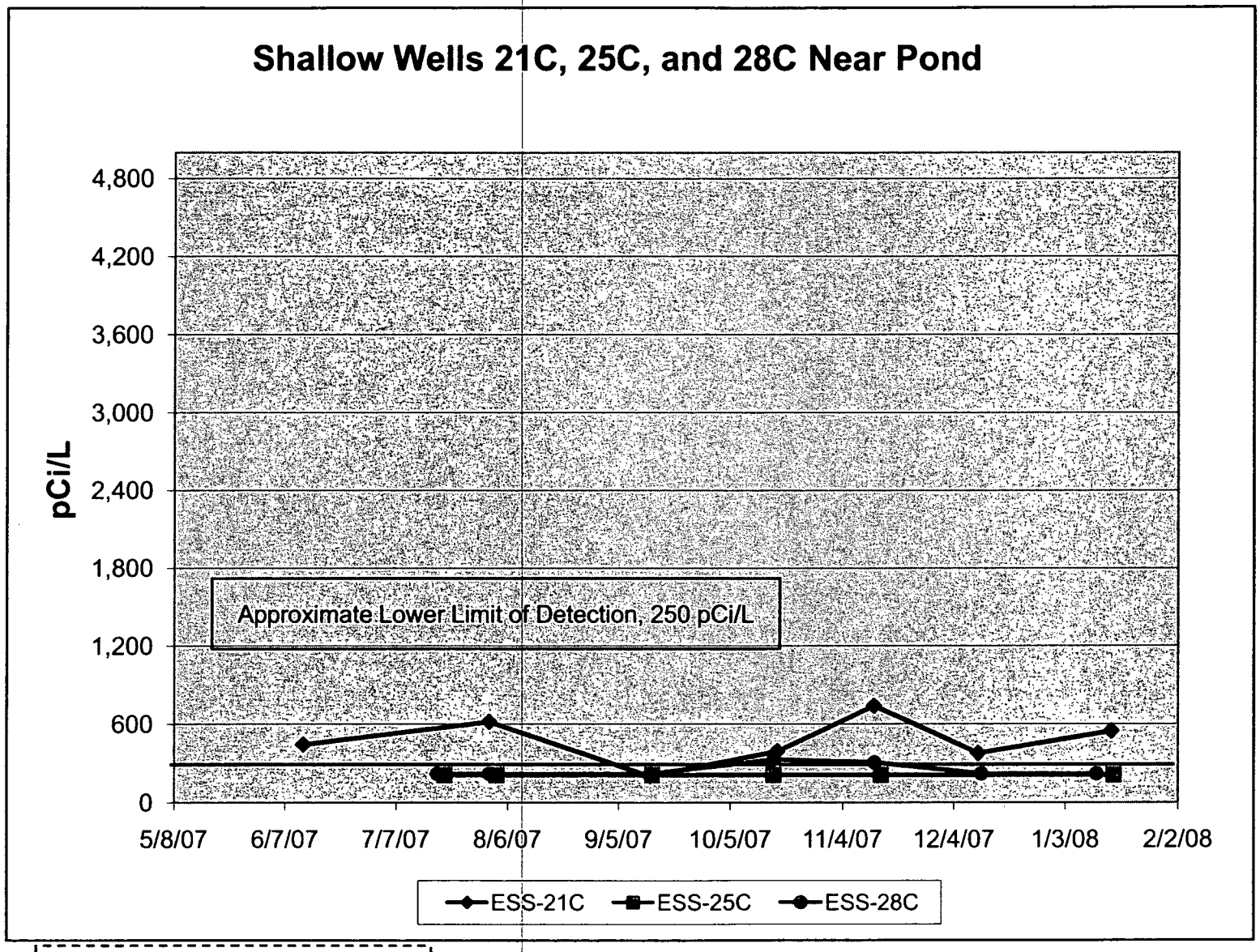
Progress Energy



Progress Energy

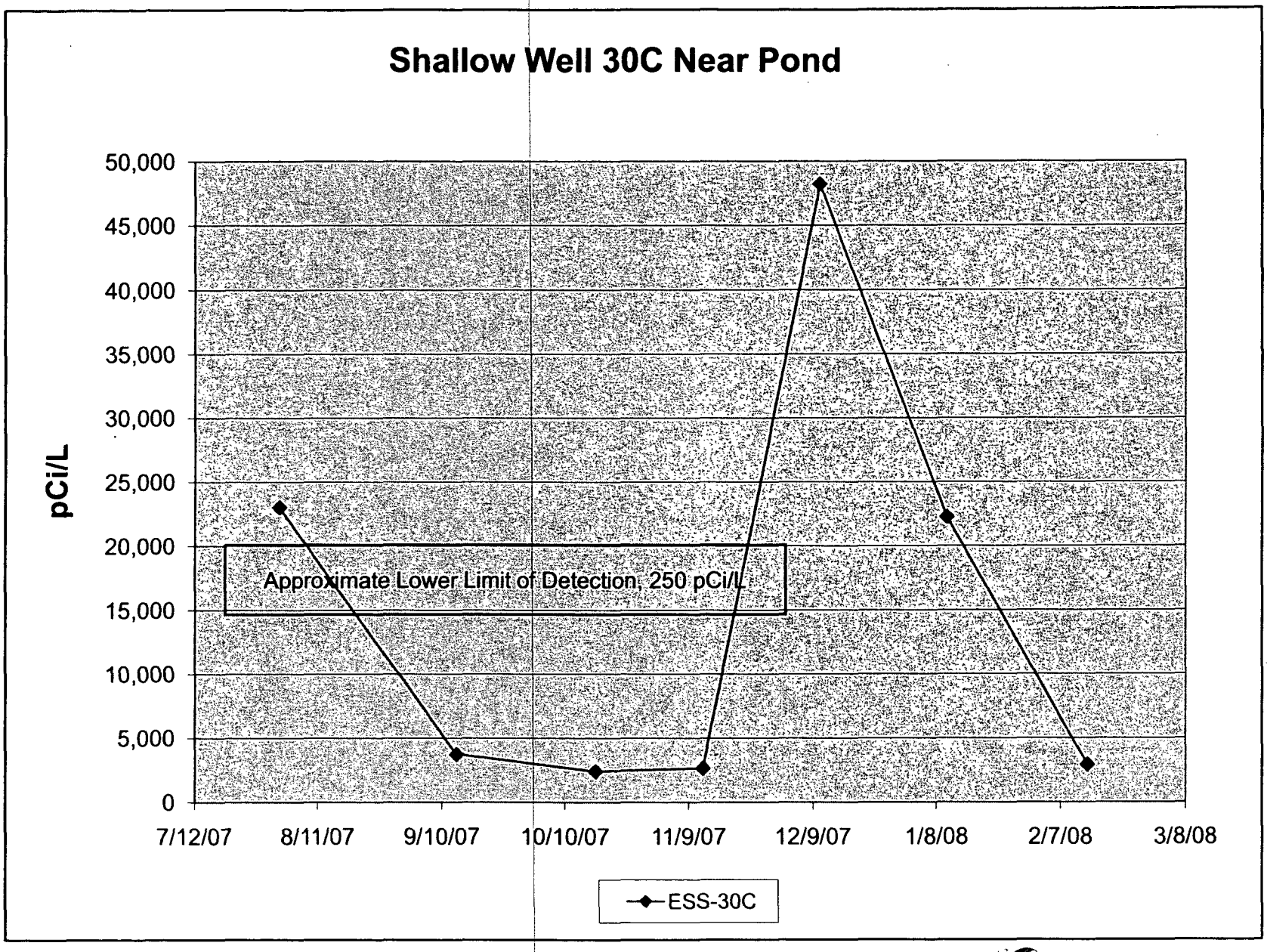


Progress Energy



Note: Values less than the lower limit of detection are non-detectable

Progress Energy

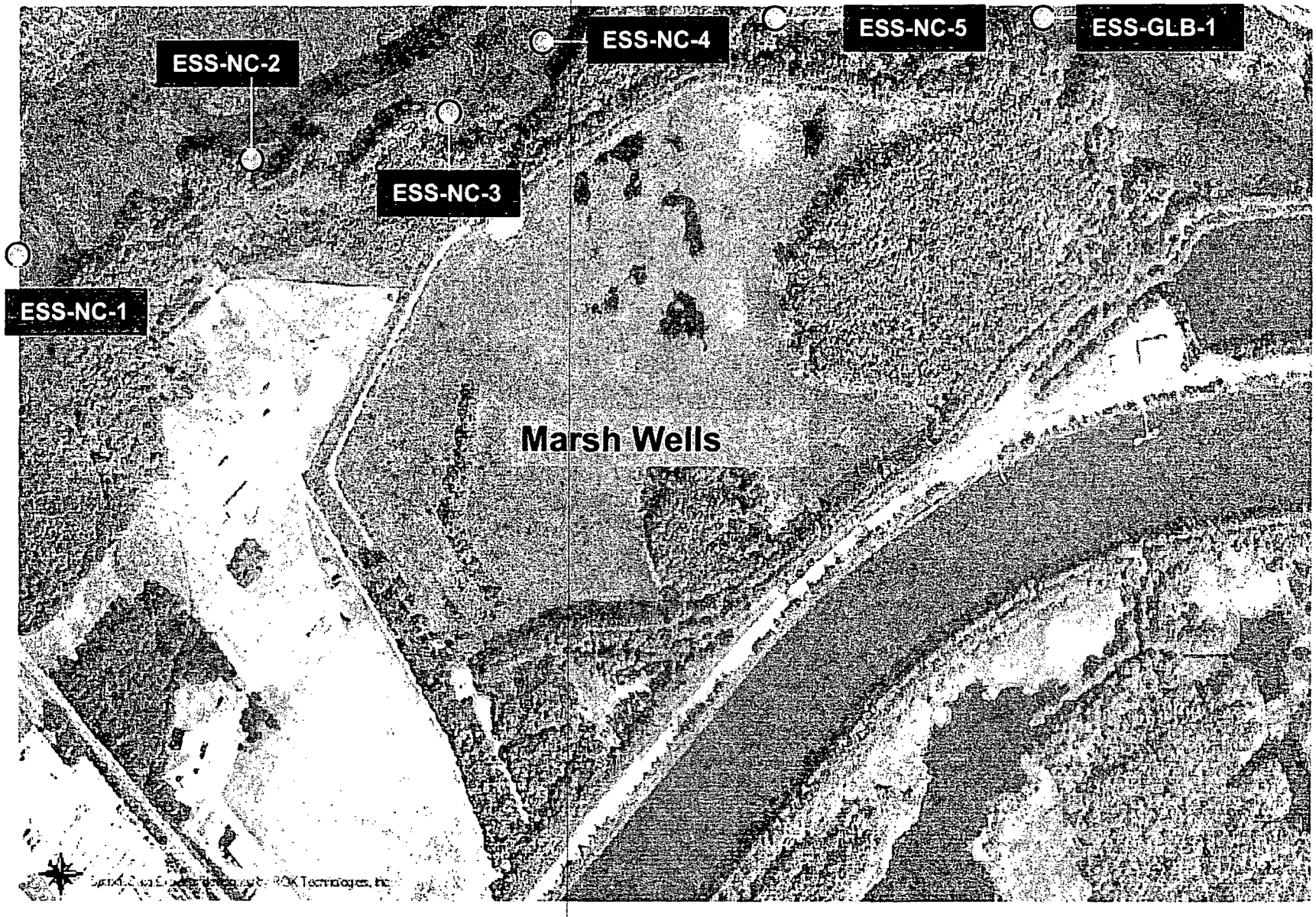


Progress Energy

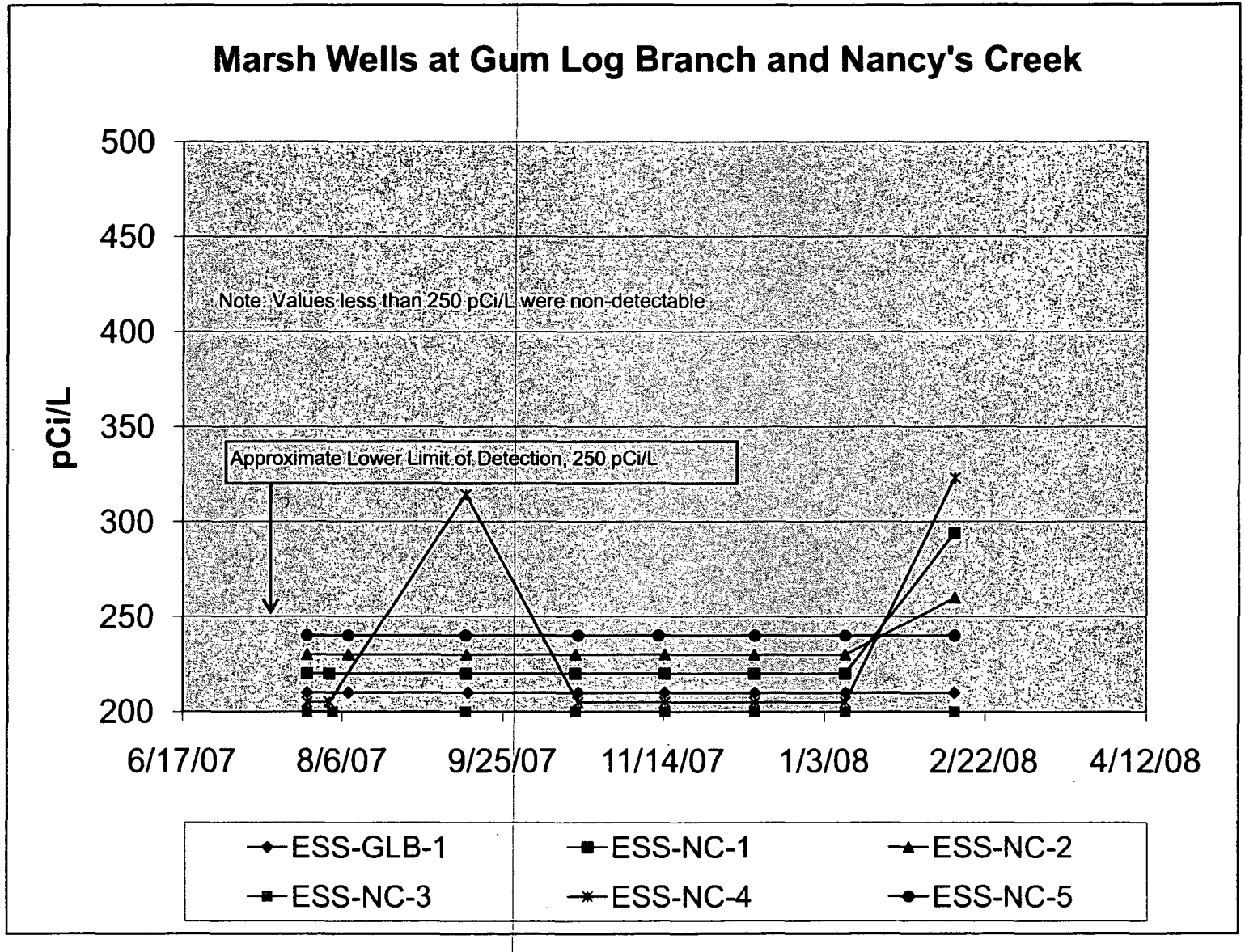
Latest Shallow Well Data

Well	Well Depth (ft)	Sample Date	Sample Results (pCi/L)
ESS-17C	26	2/11/08	4,766
ESS-18C	20	2/14/08	551,500
ESS-19C	20	2/11/08	508,900
ESS-20C	20.5	2/11/08	18,640
ESS-21C	20	1/15/08	546
ESS-22C	20	2/13/08	573,800
ESS-23C	23	2/14/08	234,400
ESS-24C	18	2/13/08	4,334
ESS-25C	22	1/16/08	<LLD
ESS-26C	15	2/13/08	345,900
ESS-27C	15.5	2/14/08	264,300
ESS-28C	23	1/11/08	<LLD
ESS-30C	15	2/13/08	2,930
ESS-31C	15	2/13/08	565

Progress Energy



Progress Energy

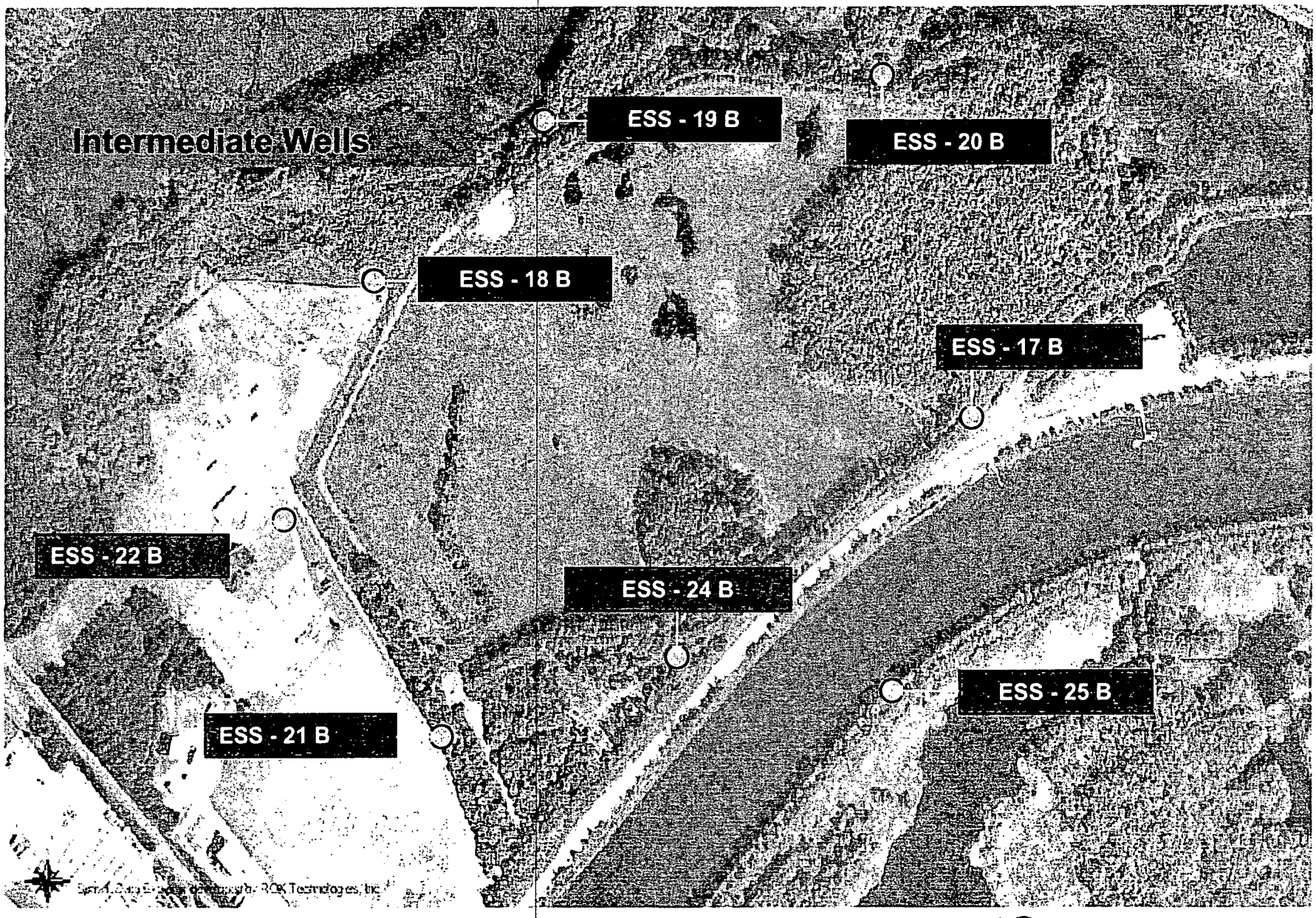


Progress Energy

Latest Marsh Well Data

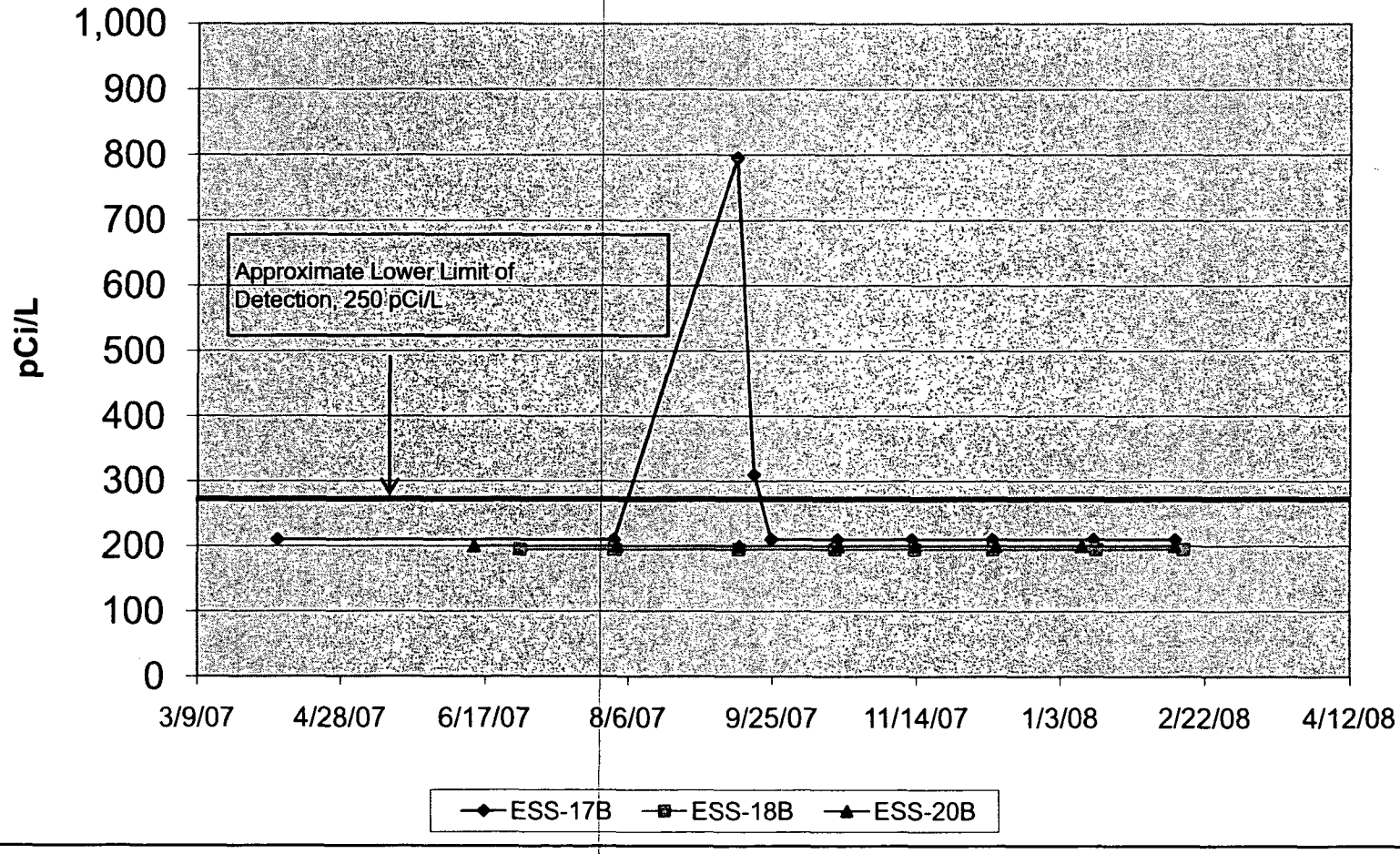
Well	Well Depth (ft)	Sample Date	Tritium Sample Results (pCi/L)
ESS-NC-1	7.5	2/12/08	294
ESS-NC-2	8	2/12/08	260
ESS-NC-3	8	2/12/08	<LLD
ESS-NC-4	8	2/12/08	323
ESS-NC-5	8	2/12/08	<LLD
ESS-GLB-1	8	2/12/08	<LLD

Progress Energy



Progress Energy

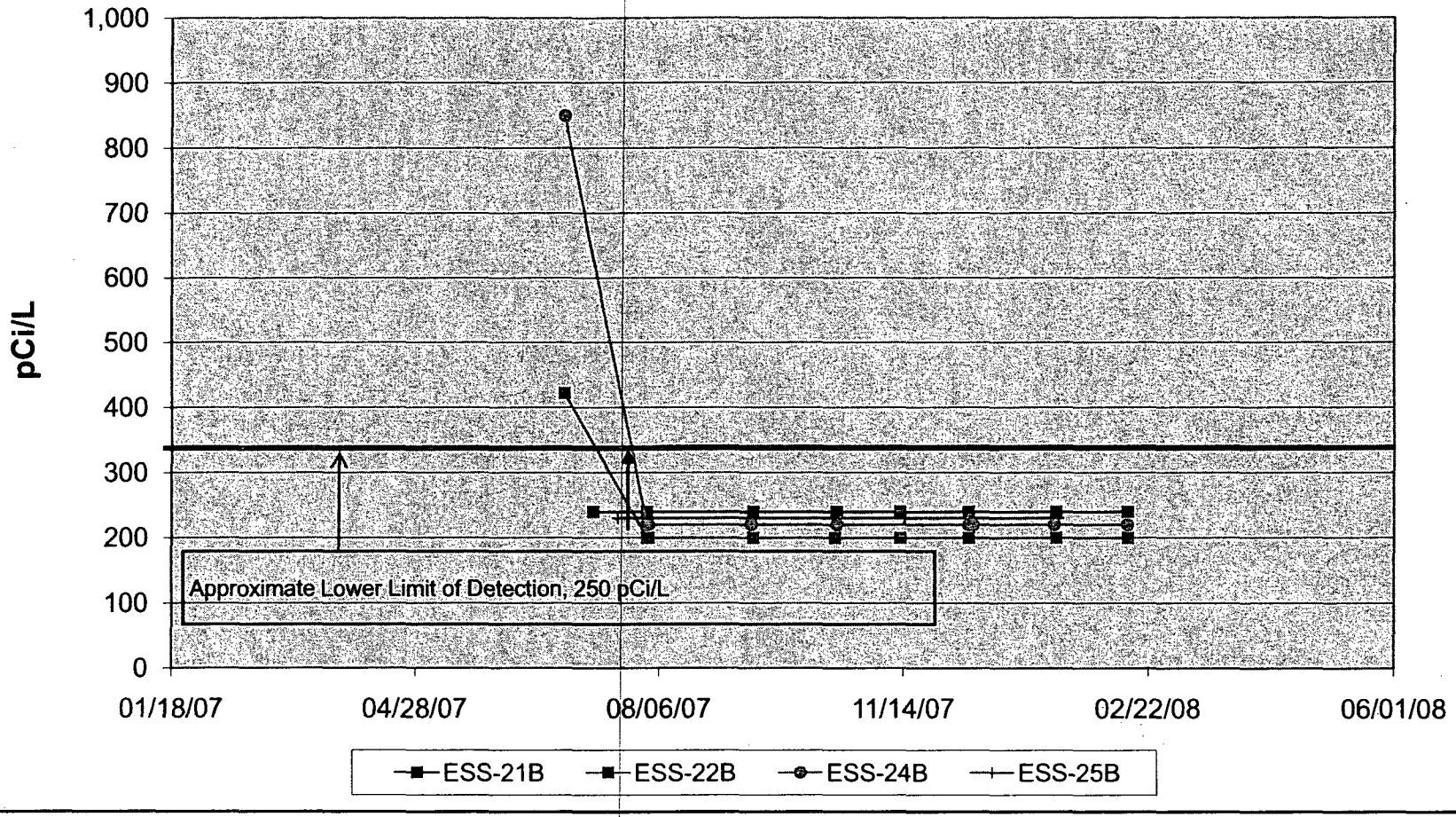
Intermediate Wells 17B, 18B, and 20B Near Pond



Note: Values less than the lower limit of detection are non-detectable

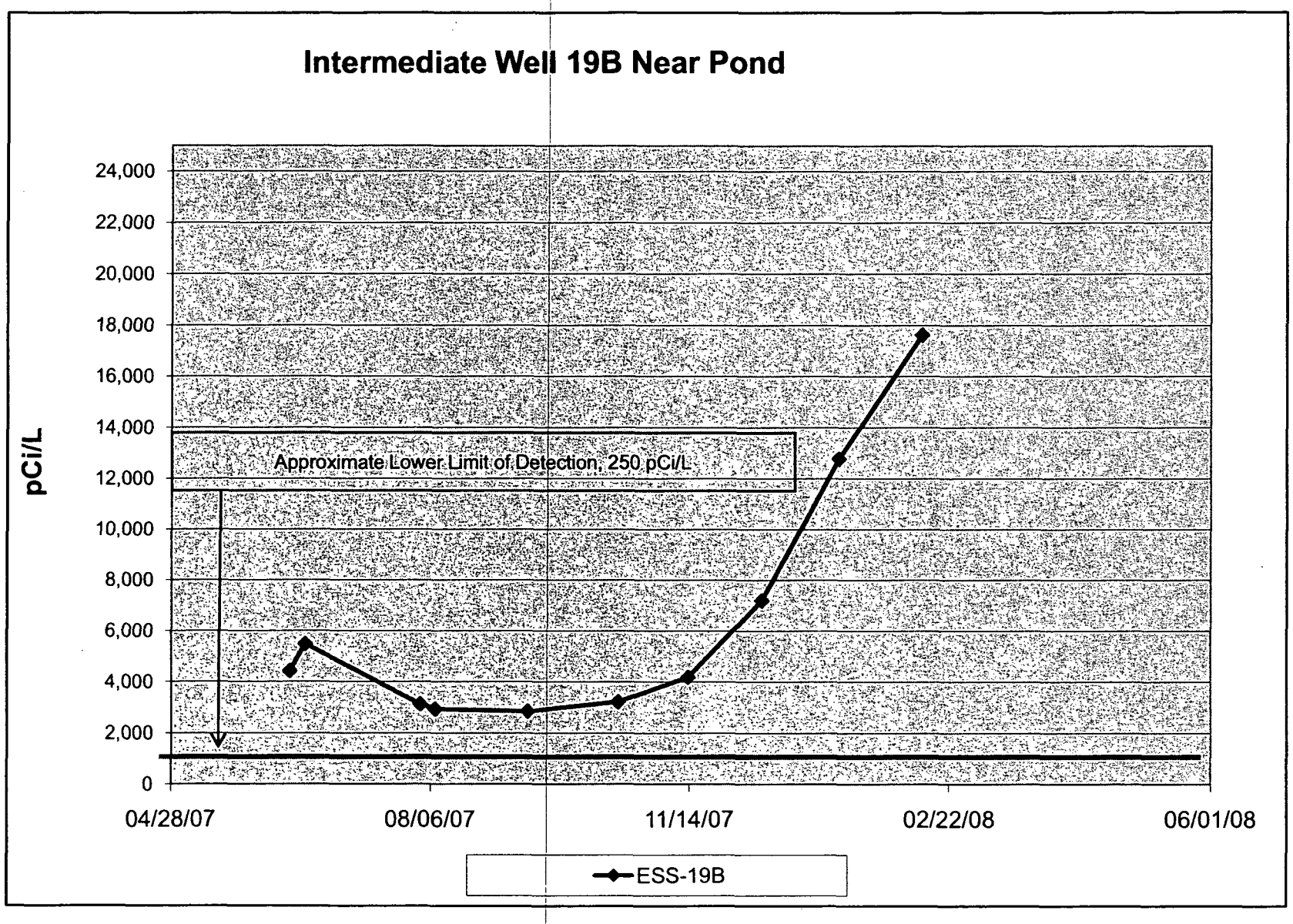
Progress Energy

Intermediate Wells 21B, 22B, 24B, and 25B Near Pond



Note: Values less than the lower limit of detection are non-detectable

Progress Energy

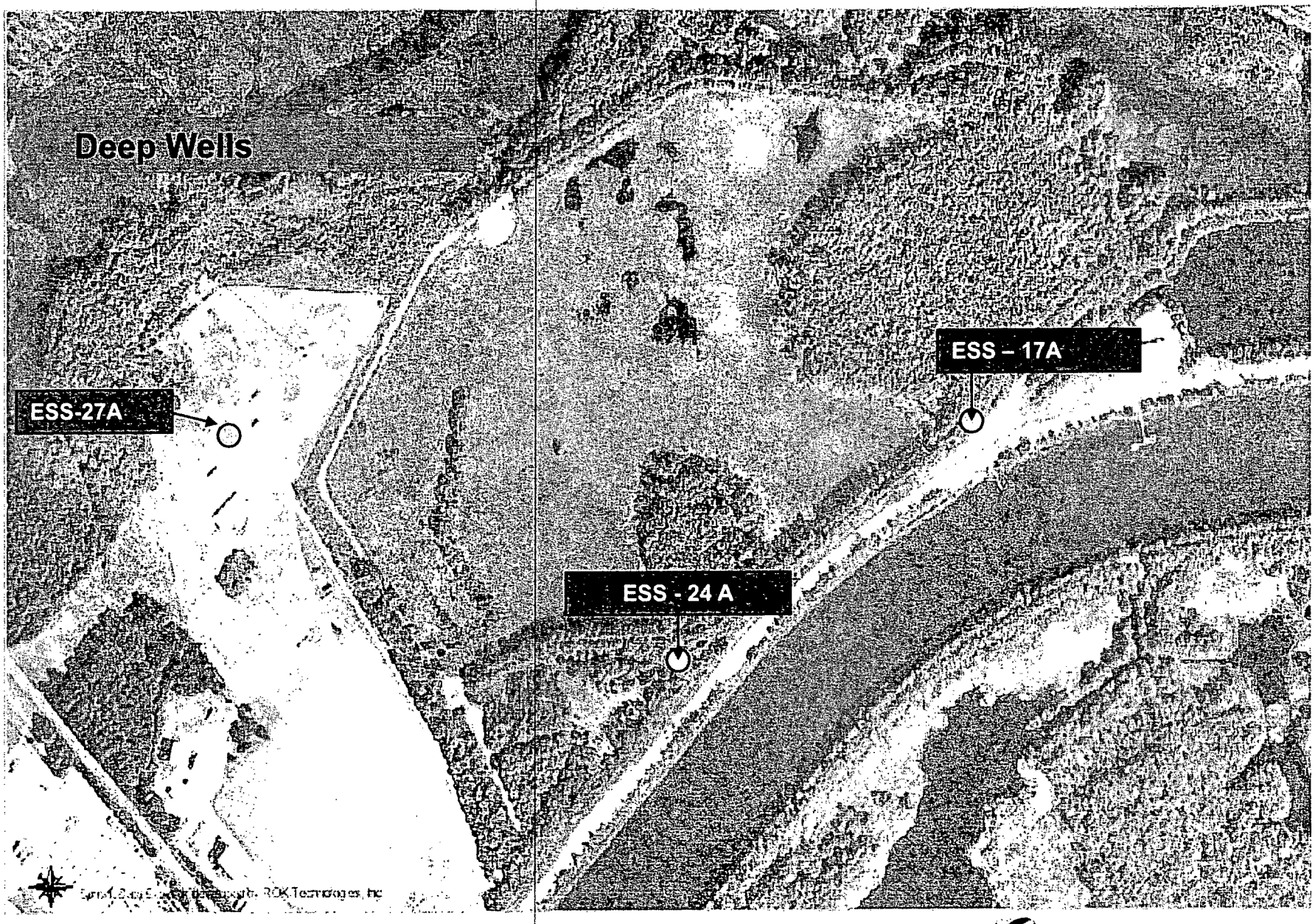


Progress Energy

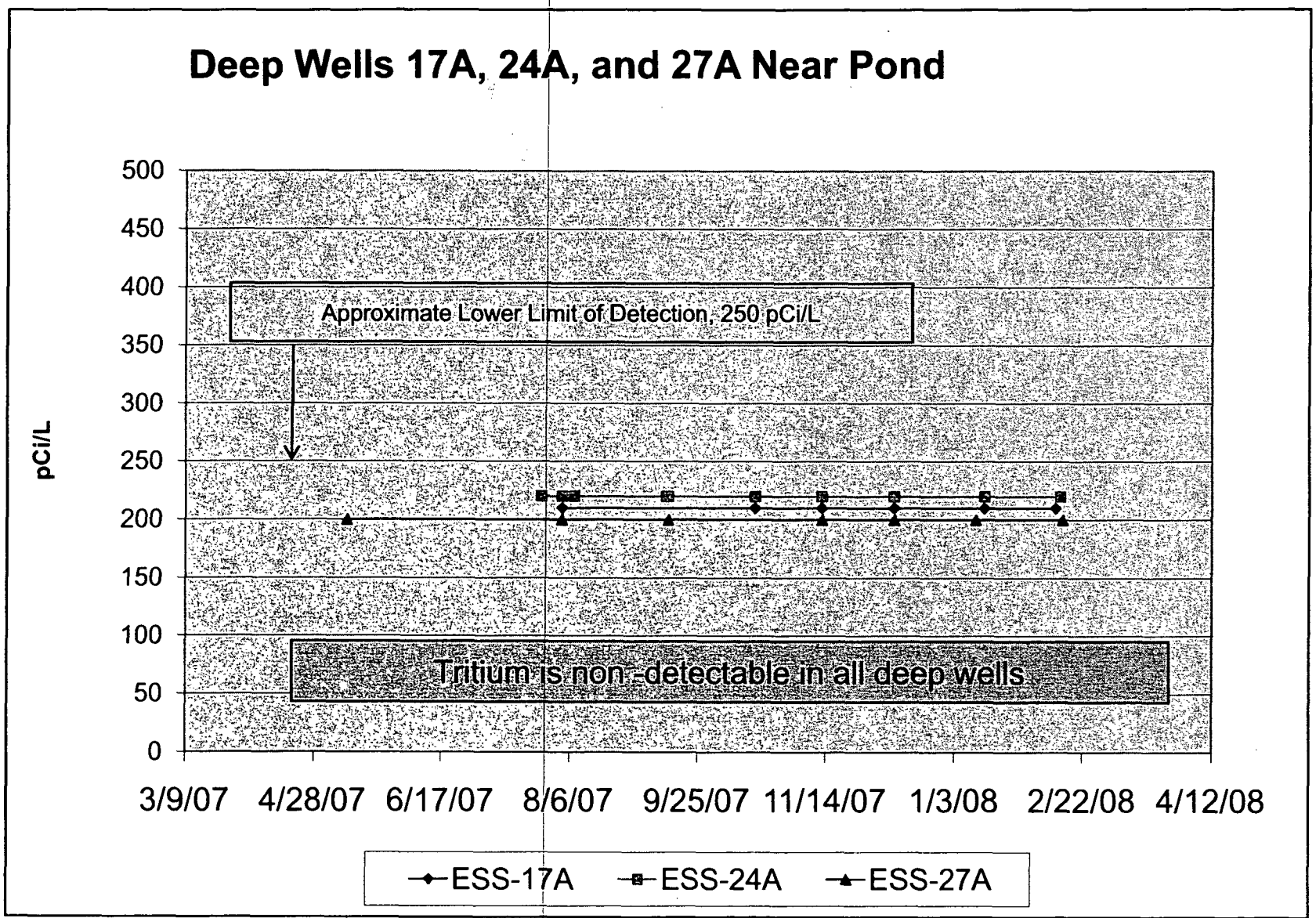
Latest Intermediate Well Sample Data

Well	Well Depth (ft)	Sample Date	Sample Results (pCi/L)
ESS-17B	53	2/11/08	<LLD
ESS-18B	63	2/14/08	<LLD
ESS-19B	42	2/11/08	17,620
ESS-20B	43	2/11/08	<LLD
ESS-21B	67	2/13/08	<LLD
ESS-22B	76	2/13/08	<LLD
ESS-24B	53	2/13/08	<LLD
ESS-25B	43	1/16/08	<LLD

Progress Energy



Progress Energy

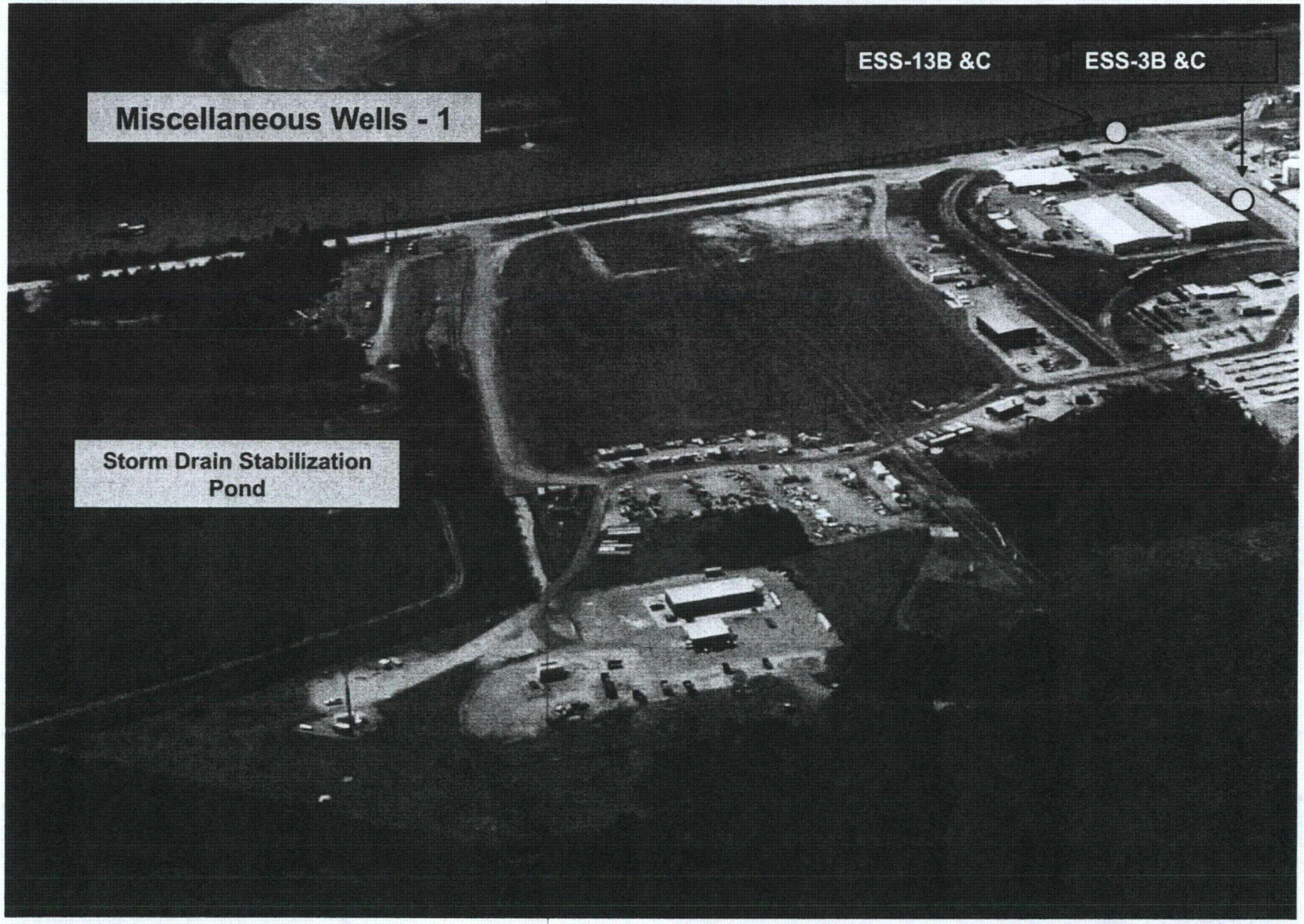


Progress Energy

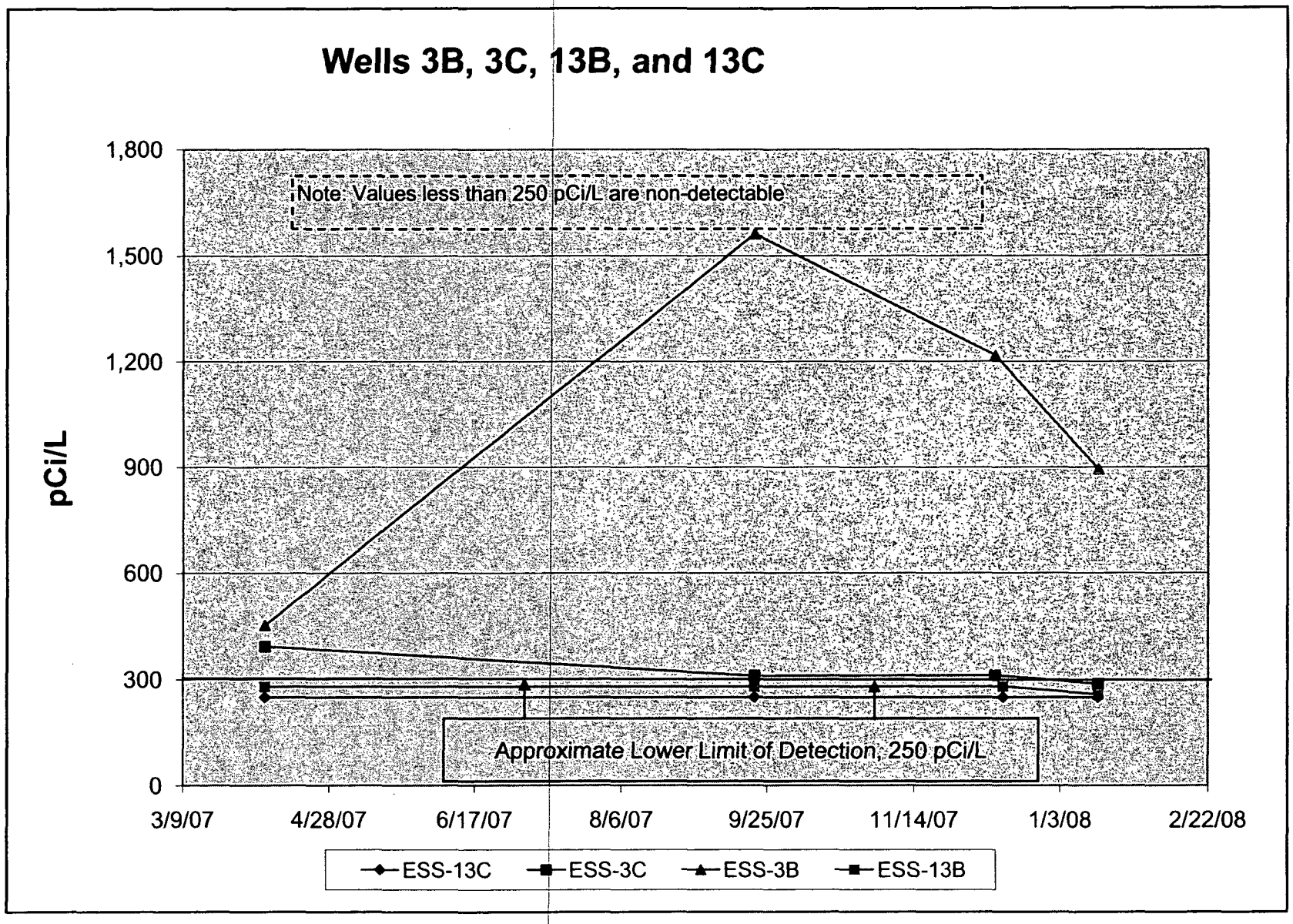
Latest Deep Well Sample Data

Well	Well Depth (ft)	Sample Date	Tritium Sample Results (pCi/L)
ESS-17A	150	2/11/08	<LLD
ESS-24A	140	2/13/08	<LLD
ESS-27A	140	2/14/08	<LLD

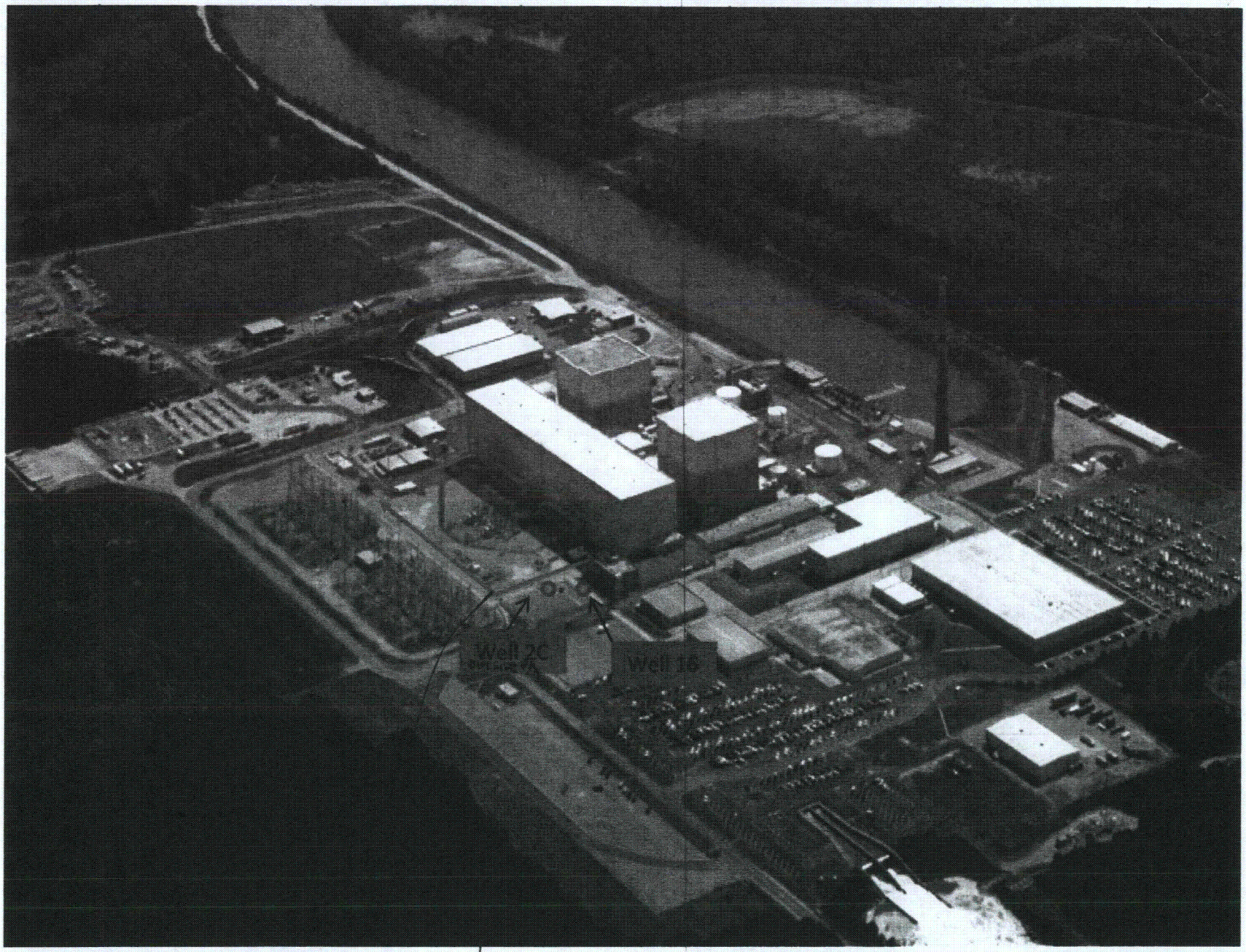
Progress Energy



Progress Energy

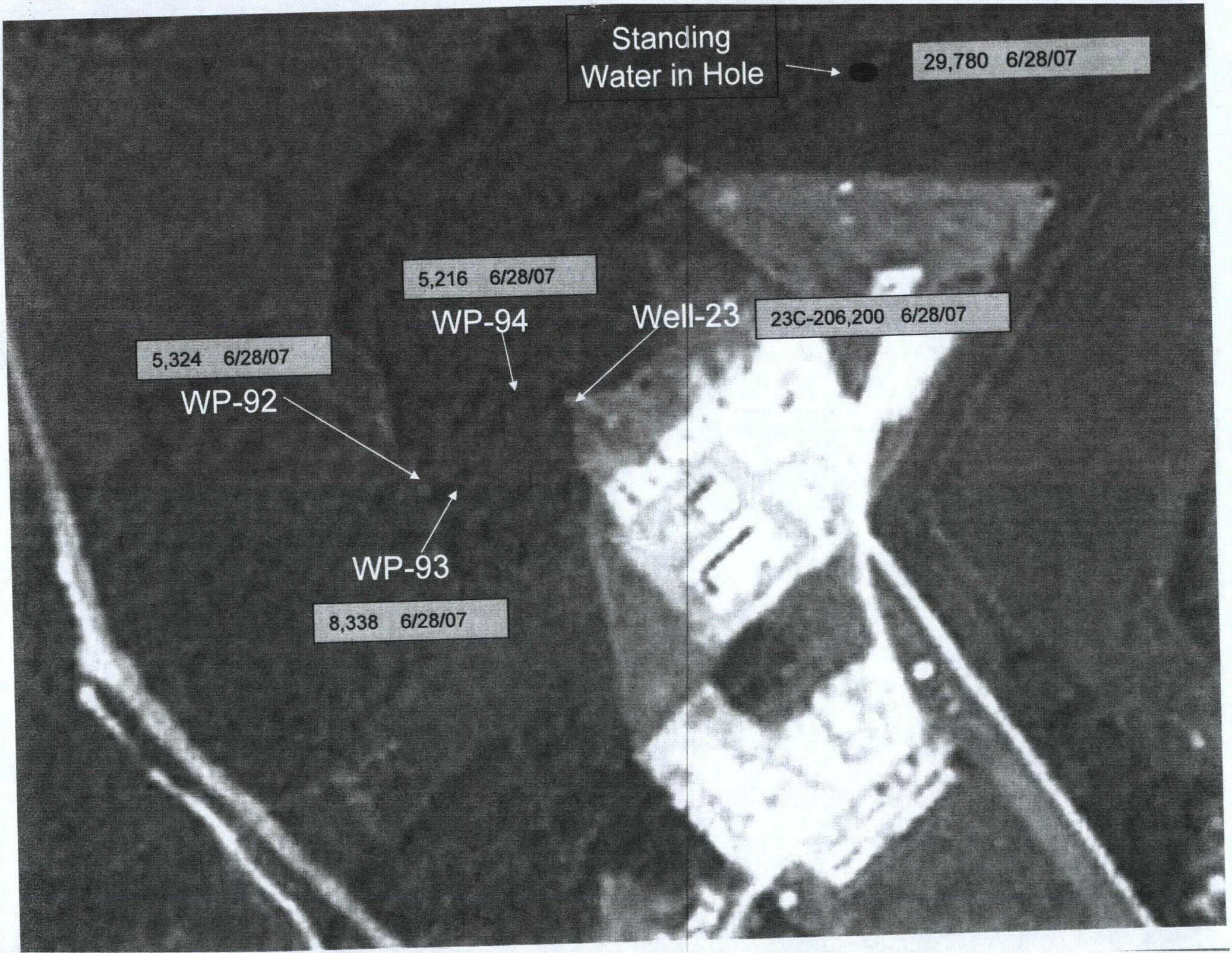


Progress Energy



POTENTIAL LEAK OF STORM DRAIN PIPING

STORM DRAIN PIPING


Standing
Water in Hole
29,780 6/28/07
5,216 6/28/07
WP-94
Well-23
23C-206,200 6/28/07
5,324 6/28/07
WP-92
WP-93
8,338 6/28/07

Miscellaneous Wells-1

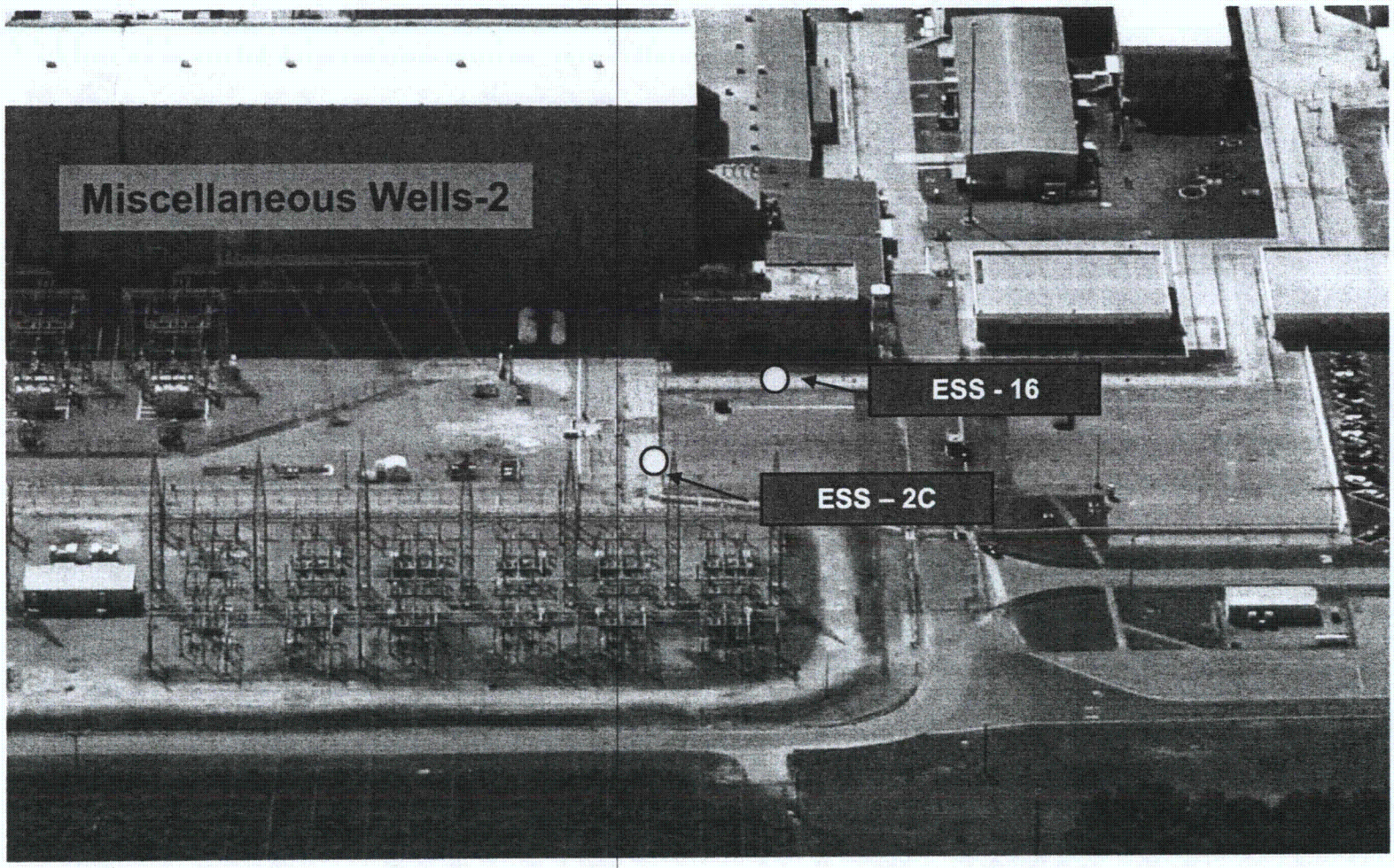
Well	Well Depth (ft)	Sample Date	Tritium Sample Results (pCi/L)
ESS-3B	52.4	1/16/08	894
ESS-3C	14.3	1/16/08	288
ESS-13B	56.5	1/16/08	<LLD
ESS-13C	24.8	1/16/08	258

Progress Energy

Miscellaneous Wells-2

Well	Well Depth (ft)	Sample Date	Tritium Sample Results (pCi/L)
ESS-2C	23	2/18/08	1,575,000
ESS-16	25.4	2/15/08	64,220

Progress Energy



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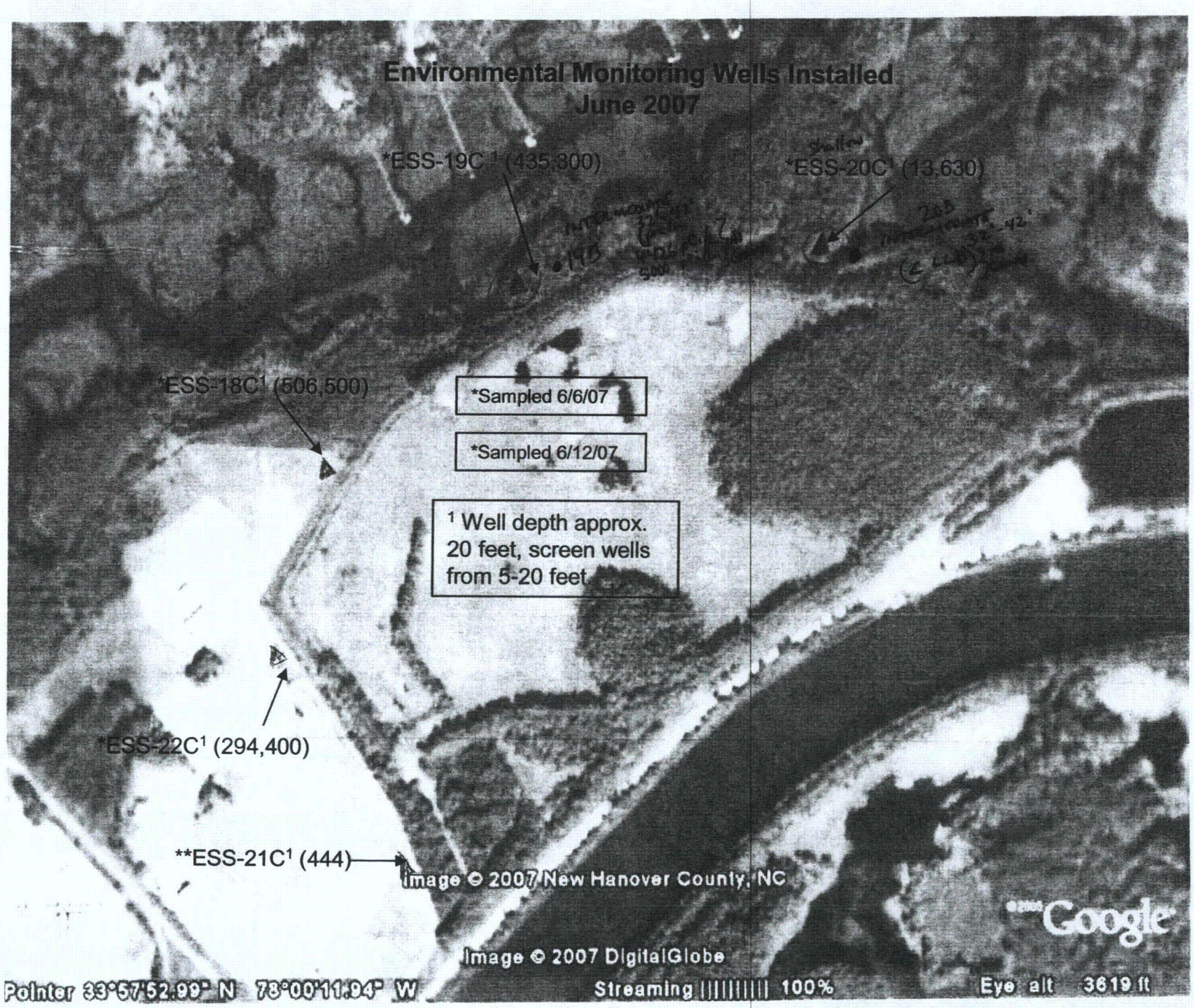
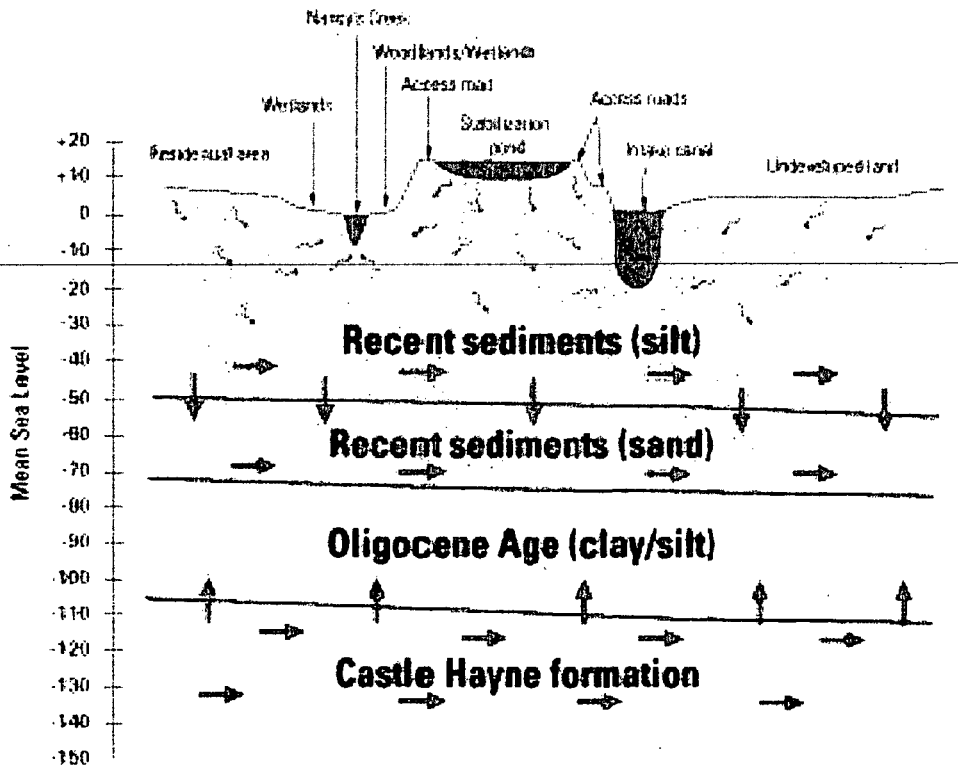

Environmental Monitoring Wells Installed
June 2007
*ESS-19C 1 (435,300)
*ESS-20C1 (13,630)
*ESS-18C1 (506,500)
*Sampled 6/6/07
*Sampled 6/12/07
1 Well depth approx. 20 feet, screen wells from 5-20 feet
*ESS-22C1 (294,400)
**ESS-21C1 (444)
Image © 2007 New Hanover County, NC
Image © 2007 DigitalGlobe
Google
Pointer 33°57'52.99" N 78°00'11.94" W
Streaming 100%
Eye alt 3619 ft

ergy

Brunswick Plant Lands

Cross-section

Castle Hayne Aquifer



Approximate horizontal scale:

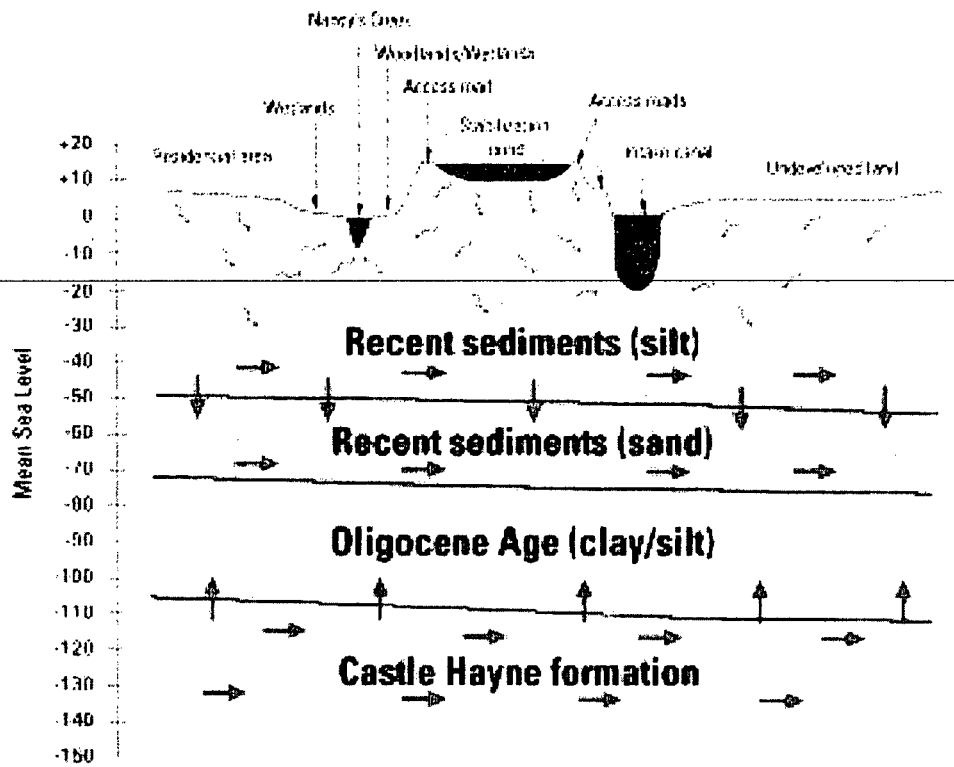
0 580 ft.

Legend:

Groundwater flow direction

Progress Energy

Cross-section Castle Hayne Aquifer



Approximate horizontal scale:

0 580 ft.

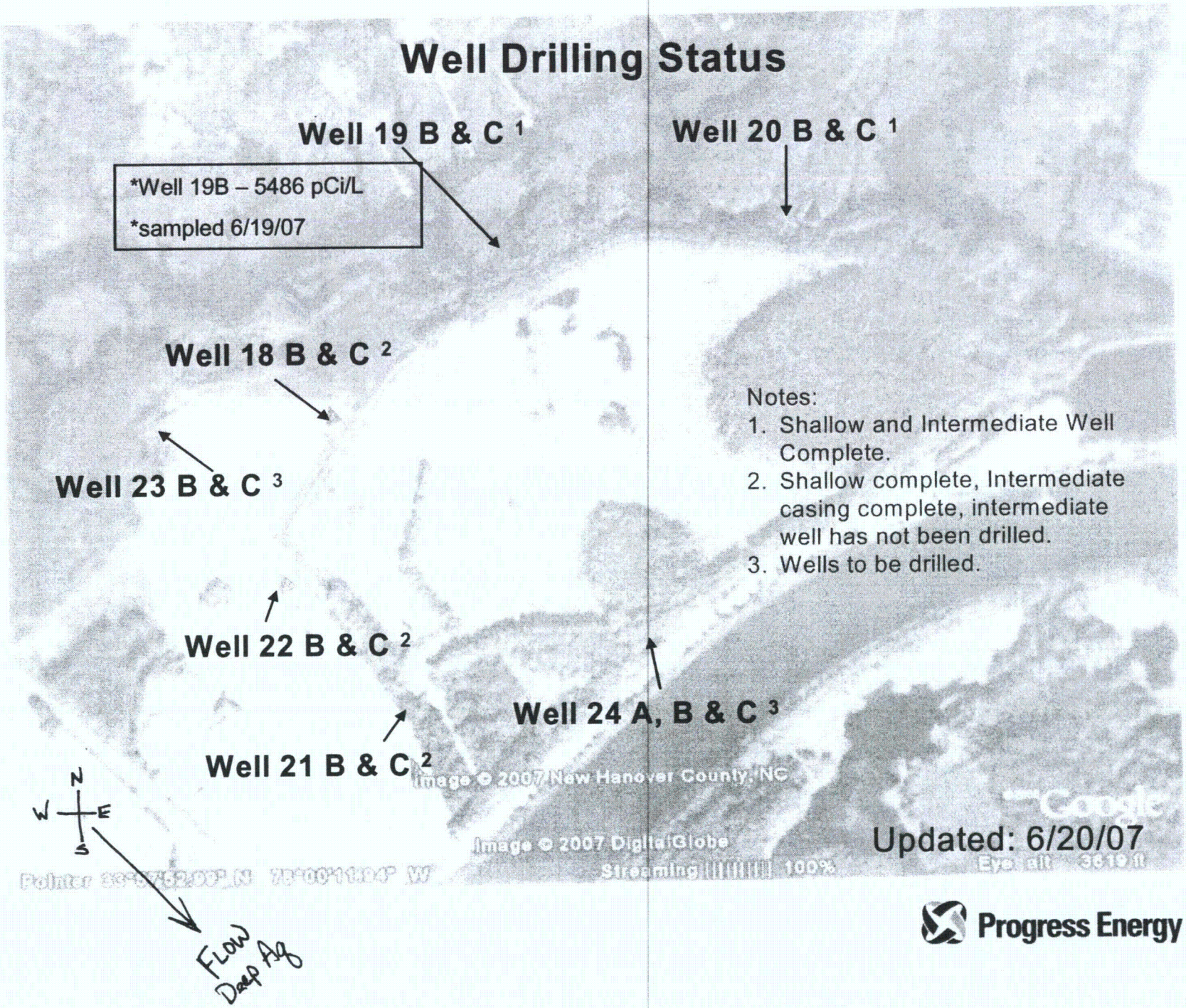
Legend:

Groundwater flow direction

Progress Energy

flow direction

Well Drilling Status



Notes:
1. Shallow and Intermediate Well Complete.
2. Shallow complete, Intermediate casing complete, intermediate well has not been drilled.
3. Wells to be drilled.

Updated: 6/20/07

Progress Energy

15 psi for 5 min/year

No equalization

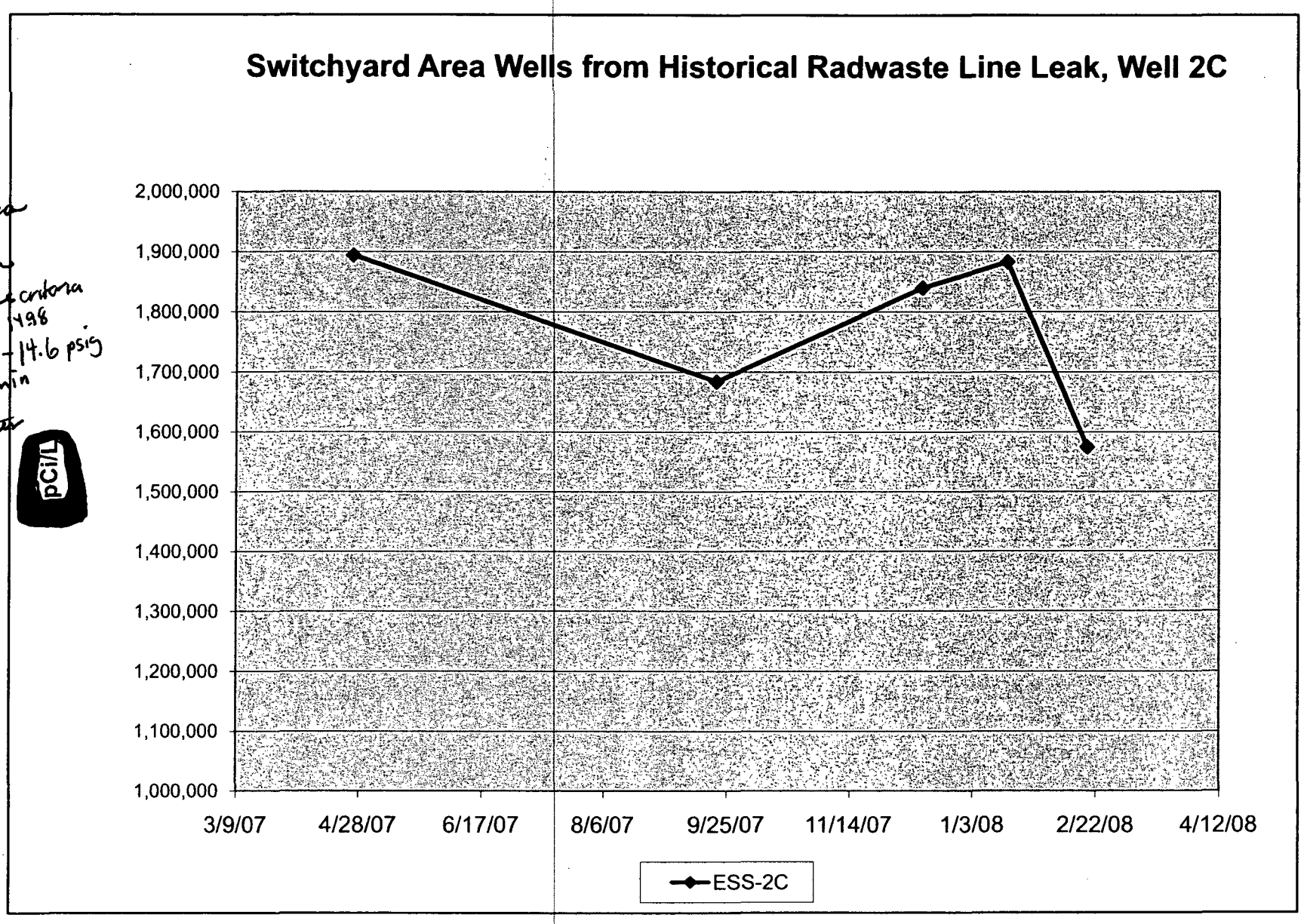
No acceptance criteria

14.96 14.98

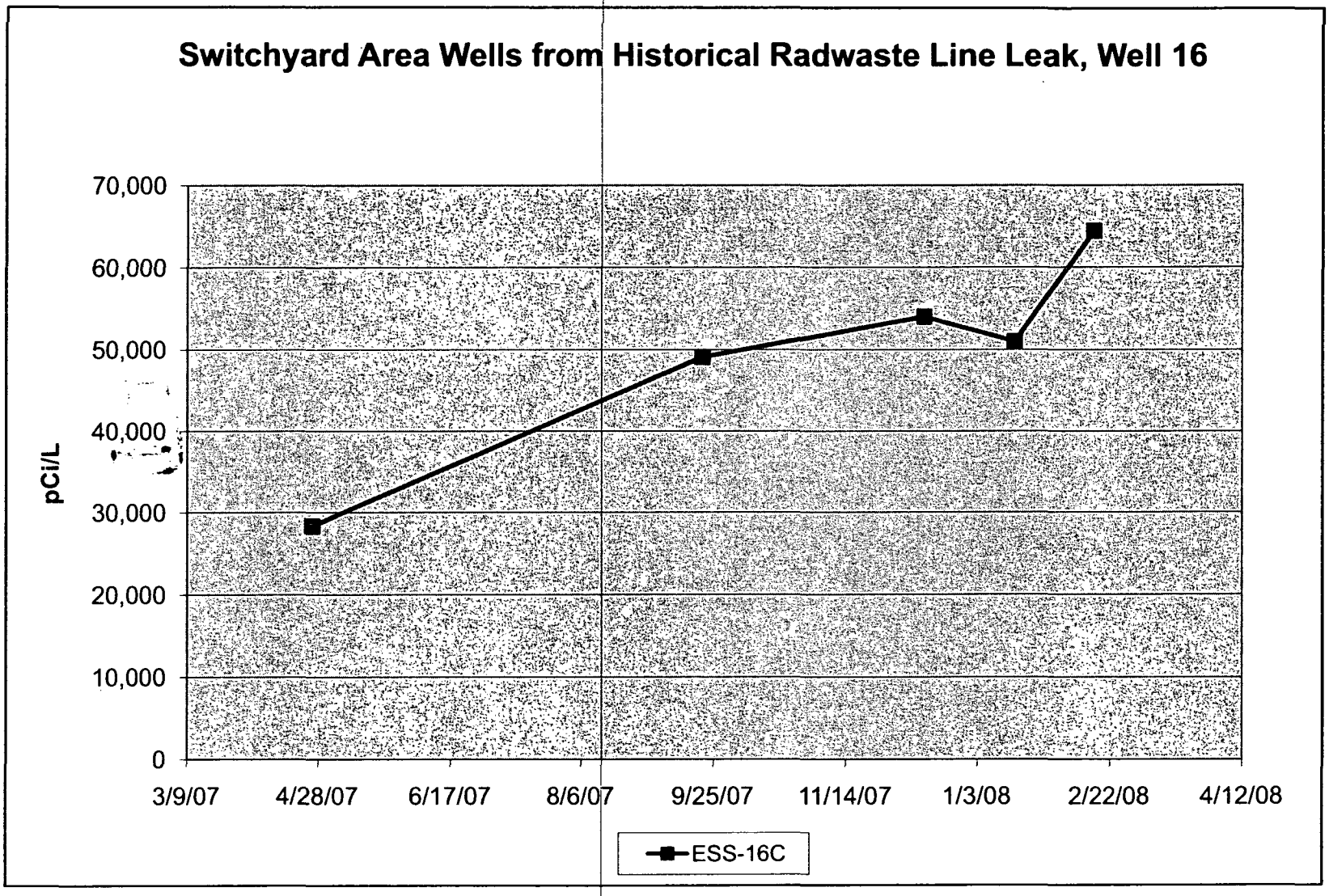
15 psig - 14.8 - 14.6 psig

= 5 min

Report Later today



Progress Energy



Progress Energy