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NAS PENSACOLA
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JUNE 1995 MONTHLY OPERATION AND MAINTENANCE REPORT IN THE INDUSTRIAL
WASTEWATER TREATMENT PLANT GROUNDWATER REMEDIATION NAS PENSACOLA
FL
6/26/1995
RUST ENVIRONMENTAL & INFRASTRUCTURE INC

RUST Rust Environment & Infrastructure Inc.

A Rust International Company Phone 803.572.5600
2694 Lake Park Drive Fax 803.572.5661
Charleston, SC 29406

June 26, 1995

Commanding Officer
Naval Public Works Center, Code 911.3
Attn: Mr. Tom Kelley
Naval Air Station
Pensacola, FL 32508-6500

Re: June 1995 Monthly Operation and Maintenance
Report on the Industrial Wastewater Treatment Plant (IWTP)
Ground-Water Remediation
Naval Air Station (NAS) Pensacola, Florida
Contract No. N62467-93-D-0662, Delivery Order No. 0026
Rust Project No. 89038.000

Dear Sir:

Rust Environment and Infrastructure (Rust) is pleased to submit a monthly operation and maintenance report on the IWTP ground-water remediation for the above referenced project. The attached table 1 contains a summary of the recovery well pumping data for the month of June 1995 and Attachment "A" contains time series graphs of the calculated bi-weekly pump flow rates and measured well water levels to facilitate evaluation of the performance and maintenance requirements of the recovery wells and pumps. In addition, two (2) copies of the report have been sent to Mr. Tom Sailors with Southern Division, Naval Facilities Engineering Command and two (2) copies to Commander, Naval Air Station, Environmental Division, Attention: Mr. Bill Taylor. Rust has the following comments for the month of June 1995.

RECOVERY WELL SYSTEM OPERATION STATUS

RW 1,2 AND 3

- The recovery well system did not operate properly; the following comments are offered:
 1. On June 6, 1995 the pump station for RW1, 2 and 3 was operating properly.



2. On June 20, 1995 the pump station (Pump "A") was running but not pumping upon arrival to perform the O&M service. Rust representative experienced difficulties repriming the pumps. Trouble shooting revealed that the suction vacuum gauge was defective and was leaking internally. Rust representative installed a new vacuum gauge and reprimed both pumps. Pump "B" was left in operation and was operating properly upon departure from the IWTP job site.
3. The suction valve for RW 1 is presently in the closed position; the suction valve for RW 2 is presently in the slightly opened position; the suction valve for RW 3 is presently in the full open position.

RW 4 and 6

- The recovery well system operated properly.

RW 5A

- The recovery well system did not operate properly; the following comments are offered:
 1. On June 6, 1995 the recovery well system was operating properly.
 2. On June 20, 1995 the pump station (pump "B") was running but not pumping upon arrival to perform the O&M service. Rust representative repaired leaks at the discharge and suction ports of Pump "B" and reprimed both pumps. Pump "B" was left in operation and was operating properly upon departure from the IWTP job site.
 3. Rust representative plans to modify the suction piping of RW 5A next O&M inspection so as to handle the believed gaseous well. To deliver gas-free water: suspend a pipe, closed at the suction pipe inlet. Since the gases rise in the well casing, the water sucked down through the pipe and into the suction pipe is free of gas.

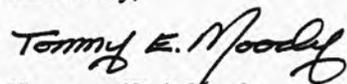
Commanding Officer
June 26, 1995
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Page Three

RW 7

- The recovery well system operated properly.

As always, if there are any questions regarding this report or other matters pertaining to this project, please feel free to contact me or Susan Burdick at (803) 572-5600.

Sincerely,



Tommy E. Moody
Project O&M

Enclosure

- c: Tom Sailors - NAVFAC - Code 1826 (2 copies)
Bill Taylor - NAS, Environmental Division (2 copies)
Brian Caldwell - ENSAFE
Susan Burdick - Rust

TABLE 1

NAS PENSACOLA INDUSTRIAL WASTEWATER TREATMENT PLANT
RECOVERY WELL PUMPING DATA

PUMP STATION	DATE INSPECTED	FLOWMETER READINGS (gallons)	DISCHARGE PRESSURE (psig)	SUCTION VACUUM (" Hg)	INSTANTANEOUS PUMPING FLOW RATE (gpm)	CALCULATED BI-WEEKLY PUMP FLOW RATE (gpm)	PUMP CYCLE TIME "ON" (minutes)	PUMP CYCLE TIME "OFF" (minutes)	ELAPSED TIME (hours)	TOTAL BI-WEEKLY FLOW (gallons)	BI-WEEKLY CUMULATIVE FLOW (gallons)	WATER LEVEL BELOW TOP OF CASE PIPE ELEVATION (ft) (respectively)
*RW (1, 2) & 3	06-06-95	8,403,514	6.00	-28.00	7.00	6.78	20,170	0	336.17	136,660		3.97; 10.70; 9.91
RW 4, 6	06-06-95	13,190,093	10.00	-20.50	8.00	7.82	20,125	0	335.42	157,320		1.90; 11.20
RW 5A	06-06-95	3,500,620	17.00	-22.00	17.70	16.54	20,100	0	335.00	332,514		5.09
RW 7	06-06-95	4,492,368	4.50	-27.50	2.20	2.21	20,130	0	335.50	44,446	670,940	23.79
*RW (1, 2) & 3	06-20-95	8,498,377	6.00	-22.00	6.00	4.71	20,155	0	335.92	94,863		4.31; 10.27; 9.78
RW 4, 6	06-20-95	13,322,811	10.00	-20.50	6.40	6.54	20,290	0	338.17	132,718		2.56; 10.21
RW 5A	06-20-95	3,579,225	19.00	-15.00	14.00	3.87	20,305	0	338.42	78,605		4.97
RW 7	06-20-95	4,534,764	4.00	-27.50	2.10	2.09	20,310	0	338.50	42,396	348,582	23.99

NOTES:

RW 1, 2 & 3 - Pump station for recovery wells RW 1, RW 2, and RW 3.

RW 4, 6 - Pump station for recovery wells RW 4 and RW 6.

RW 5A - Pump station for recovery well RW 5A.

RW 7 - Pump station for recovery well RW 7.

* RW3 only being purged 3/28/94 to present.

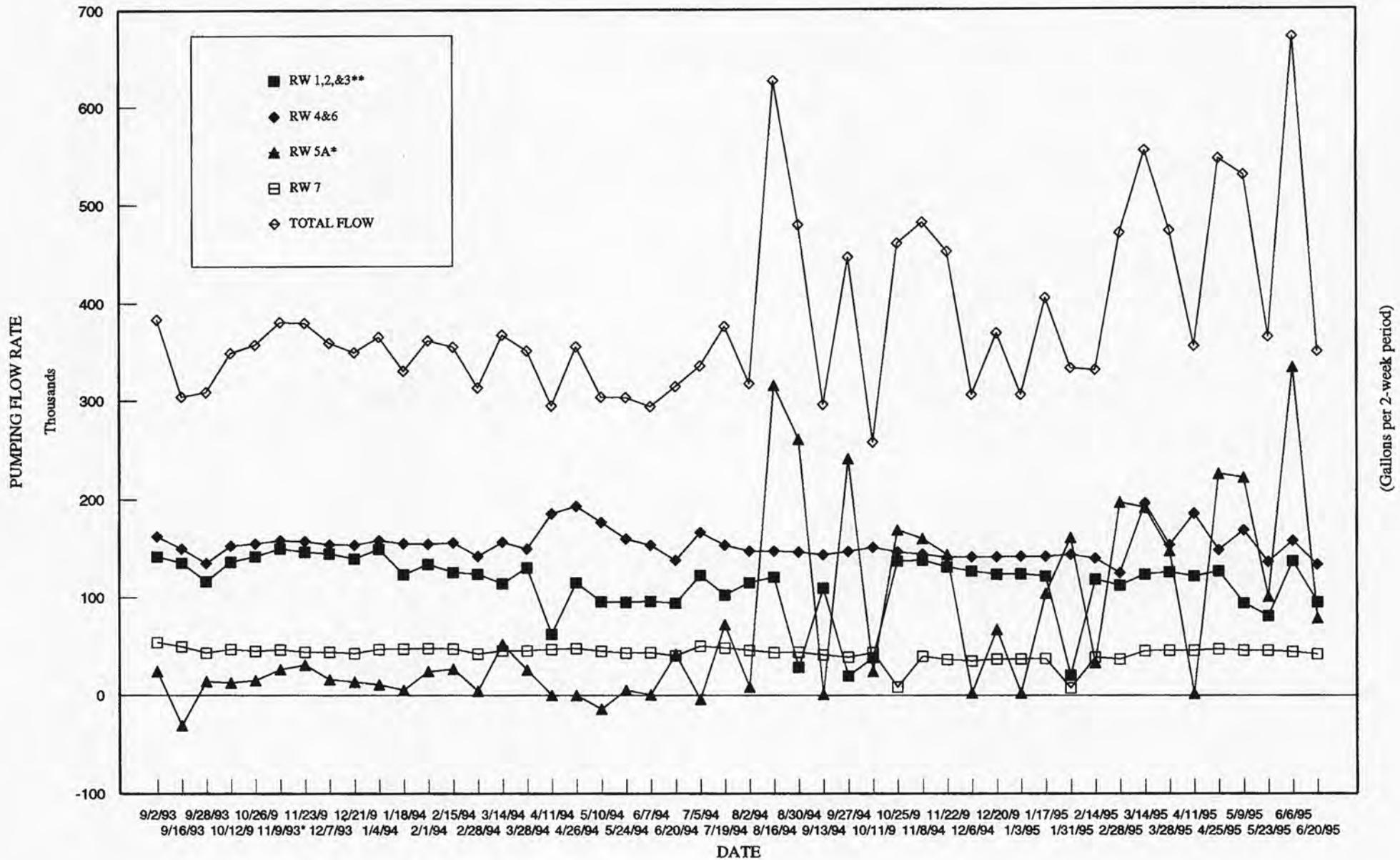
NAS PENSACOLA IWTP RCRA RECOVERY WELL FLOW DATA

DATE	RW 1,2,&3** FLOW (GALS/2wks)	RW 4&6 FLOW (GALS/2wks)	RW 5A* FLOW (GALS/2wks)	RW 7 FLOW (GALS/2wks)	TOTAL FLOW (GALS/2wks)
9/2/93	142110	162340	24760	53830	383040
9/16/93	135670	149590	-30700	49630	304190
9/28/93	116270	134810	14330	43120	308530
10/12/93	136130	152720	13160	46830	348840
10/26/93	142140	154940	14830	45010	356920
11/9/93*	149620	158140	26400	46350	380510
11/23/93*	146570	157290	31320	43950	379130
12/7/93	144880	154010	16110	44160	359160
12/21/93	139320	153600	13510	42630	349060
1/4/94	149060	158250	11050	46720	365080
1/18/94	123050	154960	5120	47100	330230
2/1/94	133870	154620	24713	47830	361033
2/15/94	125390	155560	26547	47110	354607
2/28/94	123660	142080	4750	42250	312740
3/14/94	113800	156140	51810	45330	367080
3/28/94	129980	149390	26114	45340	350824
4/11/94	62480	185229	0	46667	294376
4/26/94	114540	192381	0	47693	354614
5/10/94	95550	176590	-13904	44760	302996
5/24/94	94640	159660	5466	43110	302876
6/7/94	95650	153210	674	43420	292954
6/20/94	94086	137550	41772	40140	313548
7/5/94	122174	165870	-3652	50170	334562
7/19/94	102520	152770	71814	48230	375334
8/2/94	114960	146980	8396	46040	316376
8/16/94	120305	147250	314706	43740	626001
8/30/94	28735	146150	259724	43840	478449
9/13/94	109247	143172	1300	41266	294985
9/27/94	19933	146778	240010	38974	445695
10/11/94	38450	150690	24290	43310	256740
10/25/94	136920	145910	168195	8650	459675
11/8/94	137634	143830	159625	39953	481042
11/22/94	130526	140433	143430	36652	451041
12/6/94	126543	140687	2578	35103	304911
12/20/94	123081	141034	66629	36927	367671
1/3/95	124006	141588	2629	36814	305037
1/17/95	121155	141168	103562	37668	403553
1/31/95	20528	143045	160533	7741	331847
2/14/95	118171	139268	33440	39172	330051
2/28/95	112145	124628	195889	37053	469715
3/14/95	123141	194925	190593	45607	554266
3/28/95	125571	152781	147296	46200	471848
4/11/95	121568	184651	2015	45893	354127
4/25/95	126623	147850	224282	47128	545883
5/9/95	94185	167684	220647	46206	528722
5/23/95	80867	135931	100613	46105	363516
6/6/95	136660	157320	332514	44446	670940
6/20/95	94863	132718	78605	42396	348582

* RW 5 relocated and pump replaced 11/12/93, renamed RW 5A.

** RW 2 only being purged 9/2/93 thru 3/28/94; RW 3 only being purged 3/28/94 to present.
(RW 1 suction valve is presently in the closed position; RW 2 suction valve is presently
in the slightly opened position; RW 3 suction valve is presently in the full open position.)

NAS PENSACOLA IWTP RCRA SITE
RECOVERY WELL FLOW DATA



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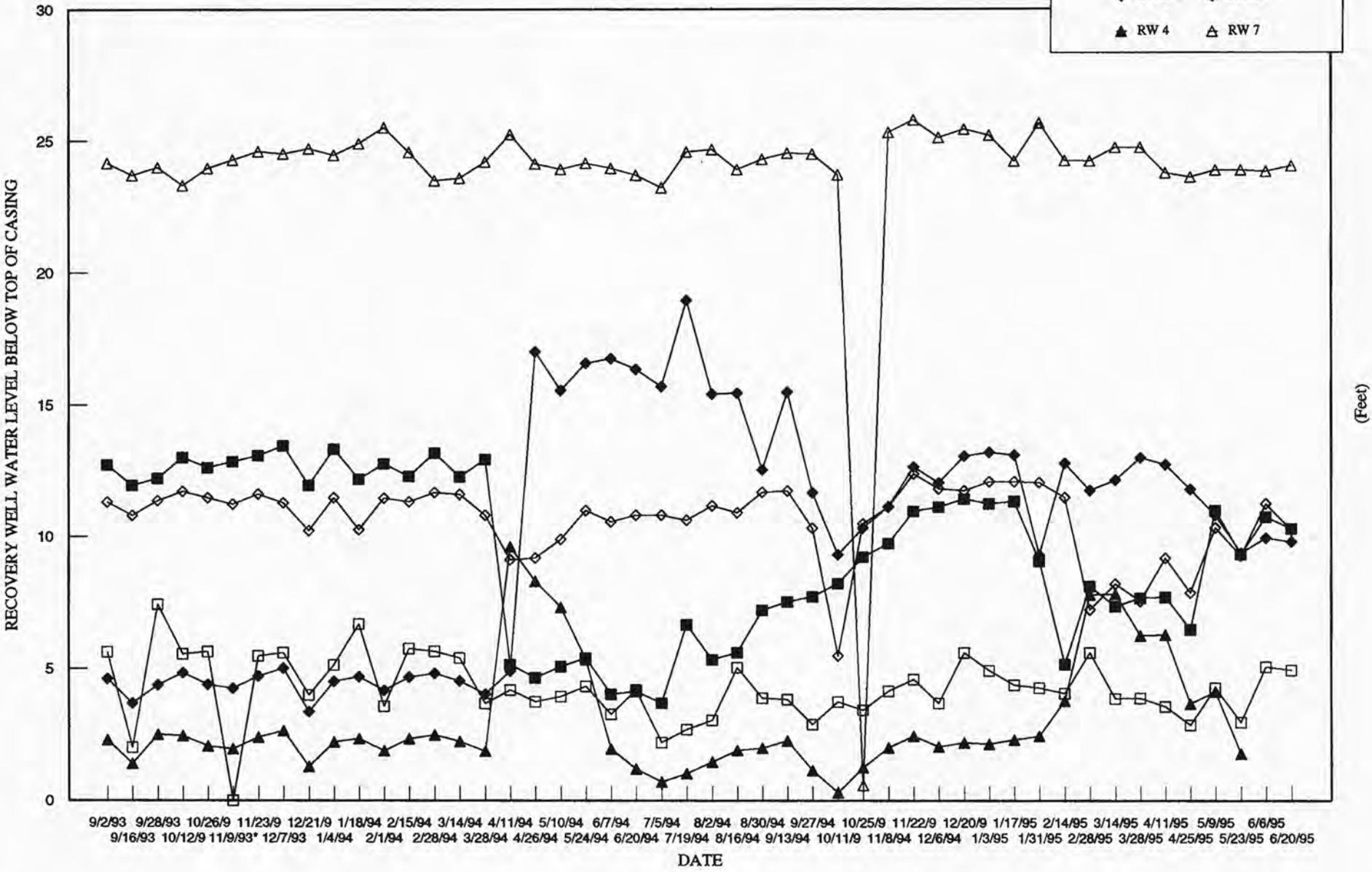
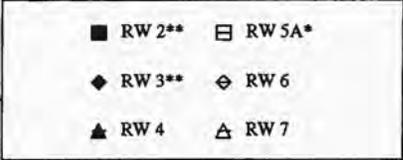
NAS PENSACOLA IWTP RCRA RECOVERY WELL WATER LEVEL BELOW TOP OF CASING

DATE	RW 1** WLBTC (feet)	RW 2** WLBTC (feet)	RW 3** WLBTC (feet)	RW 4 WLBTC (feet)	RW 5A* WLBTC (feet)	RW 6 WLBTC (feet)	RW 7 WLBTC (feet)
9/2/93	3.78	12.71	4.61	2.30	5.61	11.30	24.15
9/16/93	3.02	11.95	3.68	1.41	2.01	10.80	23.70
9/28/93	3.77	12.21	4.38	2.50	7.41	11.36	23.99
10/12/93	4.05	13.01	4.83	2.45	5.55	11.71	23.30
10/26/93	3.72	12.62	4.39	2.06	5.63	11.47	23.97
11/9/93*	3.71	12.83	4.25	1.97	0.00	11.22	24.28
11/23/93*	4.10	13.07	4.72	2.40	5.47	11.61	24.61
12/7/93	4.31	13.44	5.01	2.66	5.60	11.26	24.50
12/21/93	2.87	11.95	3.38	1.29	4.01	10.21	24.70
1/4/94	4.03	13.32	4.52	2.23	5.14	11.46	24.45
1/18/94	4.15	12.18	4.69	2.35	6.68	10.25	24.90
2/1/94	3.69	12.75	4.19	1.89	3.59	11.45	25.49
2/15/94	4.20	12.28	4.68	2.36	5.75	11.30	24.55
2/28/94	4.20	13.15	4.82	2.49	5.65	11.65	23.49
3/14/94	4.01	12.26	4.54	2.25	5.41	11.59	23.58
3/28/94	3.42	12.91	4.05	1.88	3.68	10.80	24.19
4/11/94	4.15	5.16	4.90	9.60	4.21	9.11	25.23
4/26/94	3.64	4.67	16.99	8.30	3.75	9.18	24.12
5/10/94	3.97	5.09	15.52	7.30	3.95	9.88	23.91
5/24/94	4.36	5.40	16.53	5.35	4.35	10.97	24.13
6/7/94	3.06	4.04	16.72	1.96	3.28	10.56	23.95
6/20/94	2.58	4.16	16.31	1.20	4.21	10.80	23.67
7/5/94	2.31	3.71	15.65	0.71	2.21	10.80	23.20
7/19/94	2.85	6.66	18.92	1.03	2.71	10.60	24.55
8/2/94	3.44	5.36	15.38	1.47	3.06	11.15	24.65
8/16/94	3.49	5.62	15.42	1.91	5.05	10.88	23.89
8/30/94	3.67	7.19	12.51	1.99	3.91	11.65	24.29
9/13/94	3.87	7.51	15.45	2.28	3.85	11.70	24.51
9/27/94	2.83	7.71	11.64	1.16	2.90	10.31	24.48
10/11/94	1.75	8.20	9.30	0.30	3.75	5.49	23.67
10/25/94	3.12	9.21	10.31	1.26	3.45	10.45	0.60
11/8/94	3.75	9.71	11.11	2.01	4.18	11.10	25.28
11/22/94	4.14	10.93	12.61	2.45	4.61	12.35	25.76
12/6/94	3.74	11.09	12.01	2.05	3.71	11.79	25.09
12/20/94	3.98	11.40	13.02	2.22	5.61	11.71	25.42
1/3/95	3.81	11.21	13.16	2.16	4.94	12.05	25.18
1/17/95	3.91	11.30	13.05	2.31	4.39	12.05	24.19
1/31/95	3.95	9.05	9.27	2.46	4.30	12.01	25.63
2/14/95	4.19	5.18	12.74	3.80	4.07	11.45	24.21
2/28/95	4.41	8.09	11.70	7.78	5.62	7.21	24.20
3/14/95	3.49	7.34	12.10	7.80	3.88	8.19	24.70
3/28/95	3.70	7.65	12.94	6.25	3.91	7.53	24.70
4/11/95	3.71	7.69	12.69	6.29	3.58	9.16	23.73
4/25/95	2.64	6.47	11.75	3.68	2.88	7.86	23.58
5/9/95	3.81	10.95	10.77	4.15	4.30	10.31	23.85
5/23/95	3.31	9.29	9.35	1.80	2.99	9.25	23.84
6/6/95	3.97	10.70	9.91	1.90	5.09	11.20	23.79
6/20/95	4.31	10.27	9.78	2.56	4.97	10.21	23.99

* RW 5 relocated and pump replaced 11/12/93, renamed RW 5A.

** RW 2 only being purged 9/2/93 thru 3/28/94; RW 3 only being purged 3/28/94 to present.
(RW 1 suction valve is presently in the closed position; RW 2 suction valve is presently in the slightly opened position; RW 3 suction valve is presently in the full open position.)

NAS PENSACOLA IWTP RCRA SITE
WATER LEVEL BELOW TOP CASING, RECOVERY WELLS 2, 3, 4, 5A, 6, & 7



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