

N00204.AR.004788
NAS PENSACOLA
5090.3a

JANUARY 1995 MONTHLY OPERATION AND MAINTENANCE REPORT IN THE
INDUSTRIAL WASTEWATER TREATMENT PLANT GROUNDWATER REMEDIATION NAS
PENSACOLA FL
2/6/1995
RUST ENVIRONMENTAL & INFRASTRUCTURE INC

RUST Environment & Infrastructure Inc.
2694-A Lake Park Drive
North Charleston, SC 29406
Tel. (803) 572-5600 • FAX (803) 572-5661

February 6, 1995

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

Re: January 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 E&I Project No. 89038.000

Dear Sir:

RUST Environment and Infrastructure (RUST E&I) 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 January 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 E&I has the following comments for the month of January 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. The recovery well system was operating properly during the O&M Inspections of January 3 and 17, 1995.



Commanding Officer
February 6, 1995
RUST E&I Project No. 89038.000
Page Two

2. On January 31, 1995 the pump station (Pump "A") was running but not pumping upon arrival to perform the O&M service. RUST E&I representative reprimed both pumps and left Pump "B" in operation also installed a new 0-100 psig pressure gauge at Pump "B". The pump station for RW1, 2 and 3 was operating properly upon departure from the job site.
3. The suction valve for RW1 is presently in the closed position; the suction valve for RW2 is presently in the slightly opened position; the suction valve for RW3 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 January 3, 1995 the pump station (Pump "A") was running but not pumping upon arrival to perform the O&M Service. RUST E&I representative repaired leaks at the discharge and suction ports of Pump "A"; reprimed both pumps and left Pump "B" in operation. The pump station for RW5A was operating properly upon departure from the job site.
 2. The recovery well system was operating properly during the O&M inspections of January 17 and 31, 1995.

RW 7

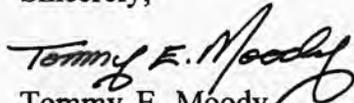
- The recovery well system did not operate properly; the following comments are offered:
 1. The recovery well system was operating properly during the O&M inspections of January 3 and 17, 1995.

Commanding Officer
February 6, 1995
RUST E&I Project No. 89038.000
Page Three

2. On January 31, 1995 the pump station (Pump "B") was running but not pumping upon arrival to perform the O&M service. RUST E&I representative removed the suction pipe from RW7 and cleaned heavy black particles from the foot check valve and PVC strainer; reprimed both pumps and left Pump "A" in operation. The pump station was operating properly upon departure from the job site.
3. On January 31, 1995 RUST E&I representative observed dewatering construction in progress at the wastewater structure adjacent to RW7. This dewatering activity probably caused Pump "B" to lose prime and stop pumping.

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 E&I
Scott Ross - RUST E&I

P:\WP\89038\020695.LTR/c

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	1-3-95	7,222,900	6.0	-21.5	6.1	6.13	20,221	0	337.02	124,008		3.81; 11.21; 13.16
RW4,6	1-3-95	11,500,842	6.0	-20.0	7.4	7.00	20,215	0	336.92	141,588		2.16; 12.05
RW 5A	1-3-95	1,789,236	24.0	-8.0	12.0	0.13	20,220	0	337.00	2,629		4.94
RW 7	1-3-95	4,049,149	6.5	-27.5	1.9	1.83	20,120	0	335.33	36,814	305,037	25.18
*RW(1,2)&3	1-17-95	7,344,055	6.0	-22.0	6.2	6.02	20,130	0	335.5	121,155		3.91; 11.30; 13.05
RW 4, 6	1-17-95	11,642,010	6.0	-21.0	7.4	7.01	20,140	0	335.67	141,168		2.31; 12.05
RW5A	1-17-95	1,892,798	31.0	-7.0	7.1	5.14	20,135	0	335.58	103,562		4.39
RW 7	1-17-95	4,086,817	6.0	-27.5	2.0	1.87	20,150	0	335.83	37,668	403,553	24.19
*RW(1,2)&3	1-31-95	7,364,583	6.0	-19.0	6.2	1.02	20,155	0	335.92	20,528		3.95; 9.05; 9.27
RW 4, 6	1-31-95	11,785,055	6.0	-20.5	7.4	7.08	20,200	0	336.67	143,045		2.48; 12.01
RW5A	1-31-95	2,053,331	28.0	-7.0	4.4	7.94	20,215	0	336.92	160,533		4.30
RW 7	1-31-95	4,094,558	5.0	-27.5	2.1	0.38	20,185	0	336.42	7,741	331,847	25.63

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. (RW1 suction valve is presently in the closed position; RW2 suction valve is presently in the slightly opened position; RW3 suction valve is presently in the full open position.)

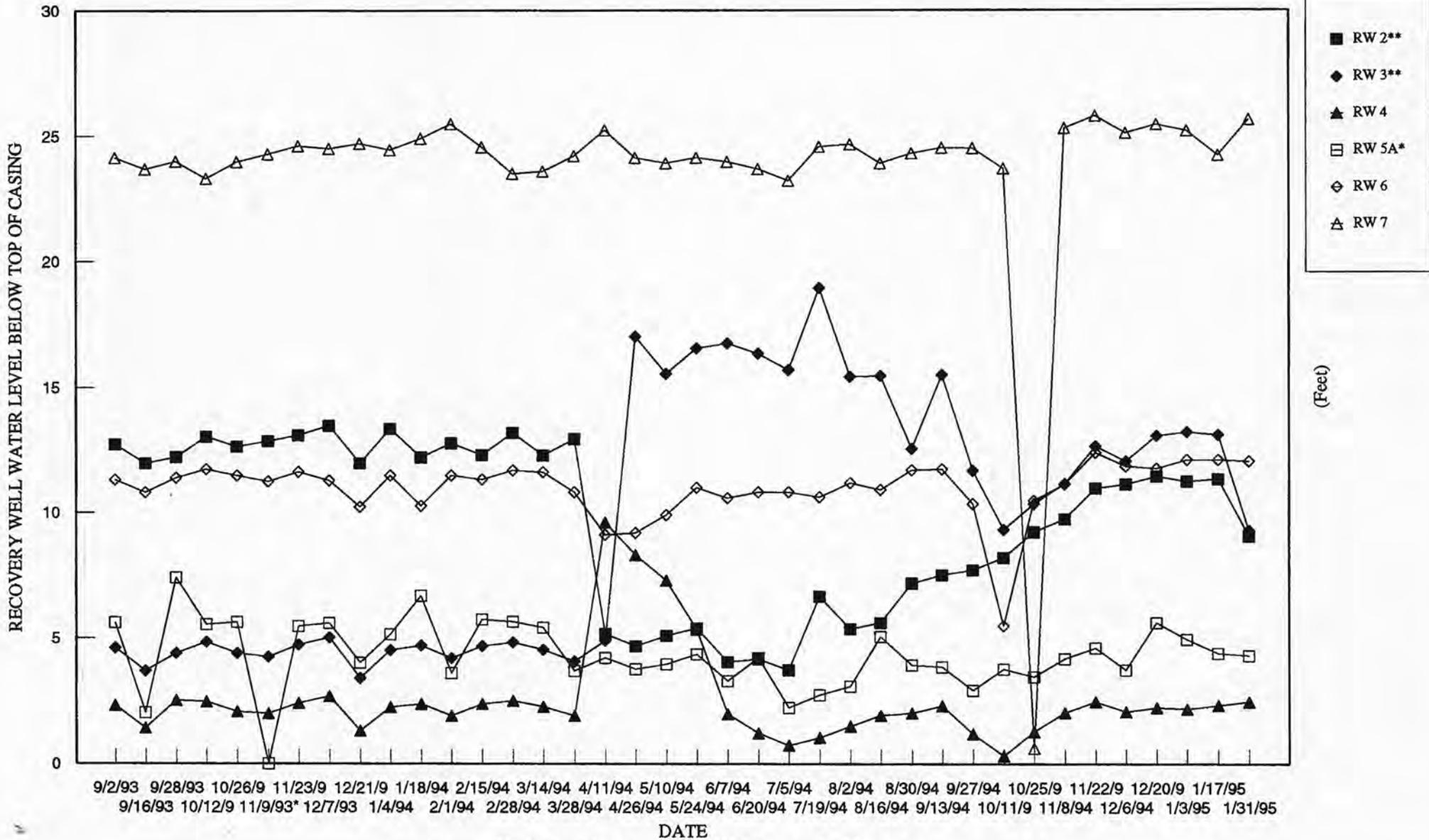
NAS PENSACOLA IWTP RCRA RECOVERY WELL WATER LEVEL BELOW TOP OF CASING

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

* 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



* 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 purge 3/28/94 to present.

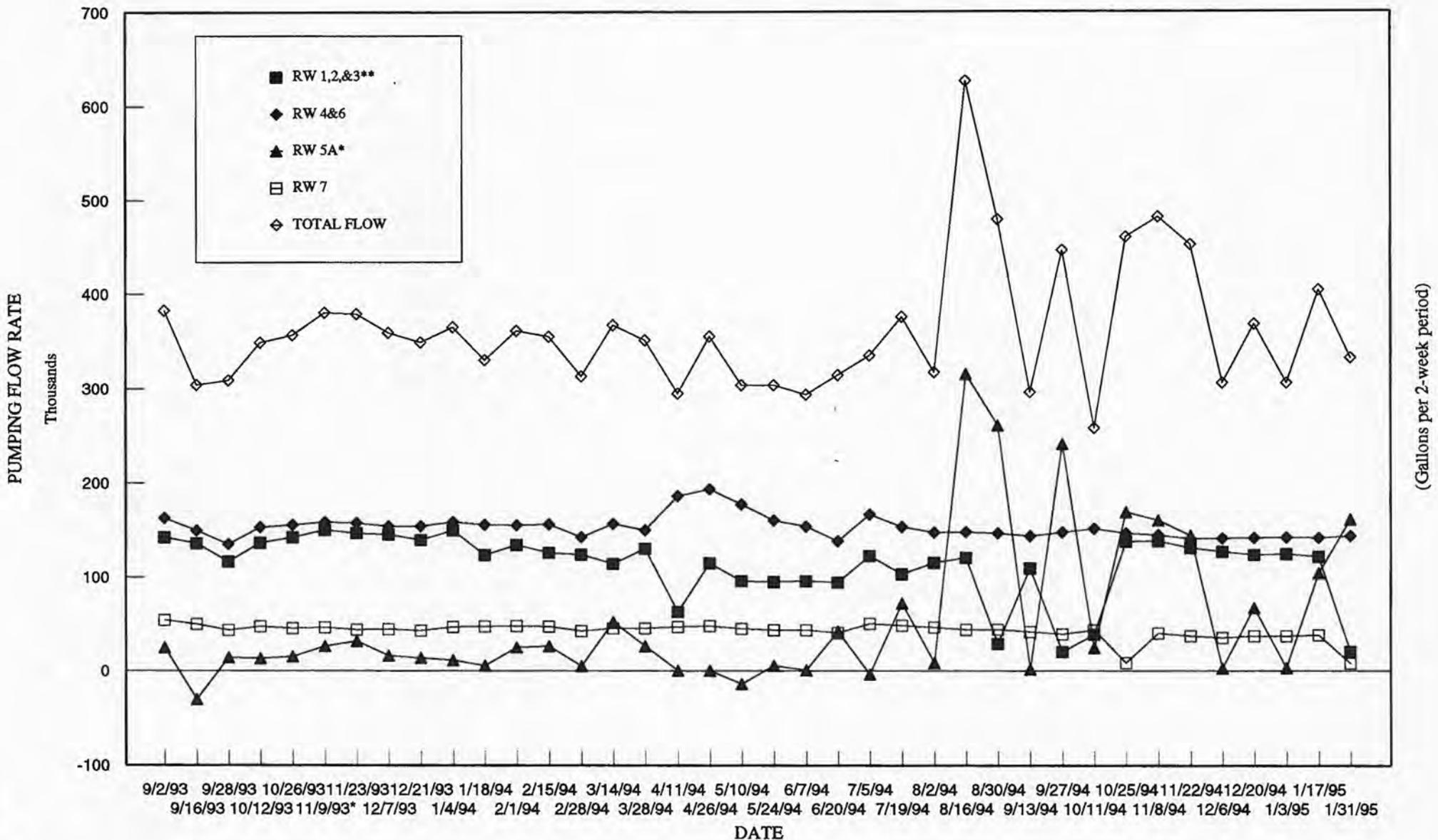
NAS PENSACOLA IWTP RCRA RECOVERY WELL FLOW DATA

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

* 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



* 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.