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NAS PENSACOLA
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FEBRUARY 1997 MONTHLY OPERATION AND MAINTENANCE REPORT ON THE
DOMESTIC WASTEWATER TREATMENT PLANT GROUNDWATER REMEDIATION
PROJECT FOR NAS PENSACOLA FL
3/7/1997
HRP SPECTRUM INC

HRP/Spectrum

March 7, 1997

Southern Division
NAVFACENGCOM
Attention: Maxie Keisler, Code 18213
2155 Eagle Drive
P.O. Box 190010
Charleston, SC 29419-3010

RE: FEBRUARY 1997 MONTHLY OPERATION AND MAINTENANCE REPORT ON THE DOMESTIC WASTEWATER TREATMENT PLANT (DWTP) GROUND-WATER REMEDIATION NAVAL AIR STATION; PENSACOLA, FLORIDA, (JOB # NAV0227.FE)

Dear Sir:

HRP/Spectrum is pleased to submit the February 1997 monthly report for the operation and maintenance activities conducted on the DWTP Ground Water Treatment System for the above referenced project. The attached Table 1 contains a summary of the recovery well pumping data for the month of February 1997 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, four (4) copies of this report have been sent to Mr. Tom Kelley, Pensacola, Naval Public Works Center and two (2) copies to Commander, Naval Air Station, Environmental Division, Attention: Mr. Bill Taylor. *HRP/Spectrum* has the following comments for the month of February:

RECOVERY WELL SYSTEM OPERATION STATUS

RW 1,2&3

- On February 11, 1997 Pump B for RW 1, 2, & 3 was in operation. The pumps and well appeared to be in good condition producing normal pressure and flow. No leaks were observed.
- No site visit was conducted during the last week of February, as a requested joint visit with USGS was postponed by USGS.

RW 4&6

- On February 11, 1997 Pump A for RW 4 & 6 was operating sufficiently with normal pressure and flow. No leaks were detected at either of the recovery well pumps.

- No site visit was conducted during the last week of February, as a requested joint visit with USGS was postponed by USGS.

RW 5A

- On February 11, 1997 Pump B for RW 5A was operating sufficiently with proper pressure and flow. No leaks were detected at either the recovery well or pumps.
- No site visit was conducted during the last week of February, as a requested joint visit with USGS was postponed by USGS.

RW 7

- On February 11, 1997 Pump B appeared to be working properly producing high pressure and normal flow. No leaks were detected in either the pumps or well.
- No site visit was conducted during the last week of February, as a requested joint visit with USGS was postponed by USGS.

PRE-TREATMENT AIR STRIPPER

- On February 11, 1997 the Air stripper unit was operating properly. No leaks were detected.

No second monthly operation and maintenance site visit was performed for the month of February. Per the request of Tom Kelley at NAS-Pensacola, **HRP/Spectrum** was to await scheduling a site visit with Dr. Frank Schappel of the United States Geological Service (USGS). The USGS is planning the shut-down of RW's 1-7 and the Air Stripper to perform groundwater studies at the domestic wastewater treatment plant for approximately six (6) months. Since **HRP/Spectrum** is familiar with the recovery well system, Mr. Kelley felt that this assistance would be valuable to the USGS. However, Dr. Frank Schappel's site visit was postponed until March 23, 1997. **HRP/Spectrum** will continue with regular scheduled visits to NAS-Pensacola for the month of March.

If you have any questions regarding this report or other matters pertaining to this project please contact me at (864) 298-0231.

Sincerely,
HRP/Spectrum

Anthony L. Gentry
Project Engineer

ALG/klo

Enclosure

cc: Tom Kelley-Naval Public Work Center-Code 480 (4 copies)
Bill Taylor-NAS Pensacola-Code 00500 (2 copies)

TABLE 1
NAS PENSACOLA
RECOVERY WELL PUMPING DATA

PUMP STATION	DATE INSPECTED	TIME (MILITARY)	FLOW METER READING (GALLONS)	DISCHARGE PRESSURE (psig)	SUCTION VACUUM ("Hg)	INSTANTANEOUS PUMPING FLOW RATE (GPM)	CALCULATED BI-WEEKLY FLOW RATE (GPM)	PUMP IN USE (A or B)	ELAPSED TIME (HOURS)	TOTAL BI-WEEKLY FLOW (GALLONS)	WATER LEVEL BELOW TOP OF CASING (Ft) (RESPECTIVELY)
RW 1,2 & 3	2/11/97	13:18	11,223,650	9	17	6.9	6.97	B	336	140,470	N/A, N/A, 6.90
RW 4&6	2/11/97	13:30	2,620,580	9	17	10.4	9.64	A	336	194,330	6.87, 7.15
RW 5A	2/11/97	13:40	6,067,120	20	11	5.1	4.76	B	336	95,910	4.22
RW 7	2/11/97	13:50	5,873,020	7.5	27.5	2.3	2.45	B	336	49,490	23.2

NOTES:

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

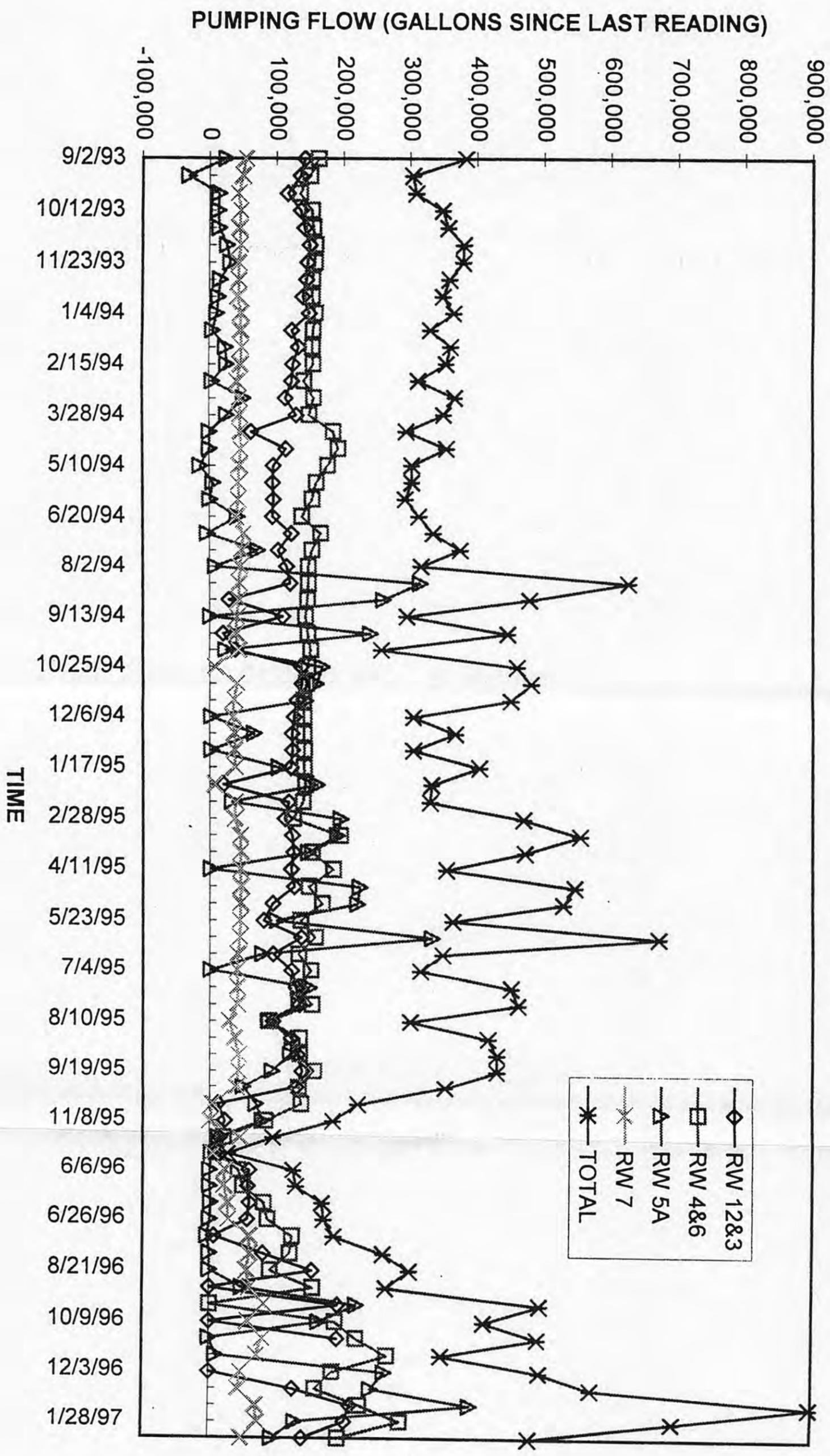
RW 4 6 - Recovery well for wells RW 4 and RW 6.

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**ATTACHMENT 1
GROUNDWATER FLOW READINGS**

DATE	RW 12&3	RW 4&6	RW 5A	RW 7	TOTAL
9/2/93	142,110	162,340	24,760	53,830	383,040
9/16/93	135,670	149,590	-30,700	49,630	304,190
9/28/93	116,270	134,810	14,330	43,120	308,530
10/12/93	136,130	152,720	13,160	46,830	348,840
10/26/93	142,140	154,940	14,830	45,010	356,920
11/9/93	149,620	158,140	26,400	46,350	380,510
11/23/93	146,570	157,290	31,320	43,950	379,130
12/7/93	144,880	154,010	16,110	44,160	359,160
12/21/93	139,320	153,600	13,510	42,630	349,060
1/4/94	149,060	158,250	11,050	46,720	365,080
1/18/94	123,050	154,960	5,120	47,100	330,230
2/1/34	133,870	154,620	24,713	47,830	361,033
2/15/94	125,390	155,560	26,547	47,110	354,607
2/28/94	123,660	142,080	4,750	42,250	312,740
3/14/34	113,800	156,140	51,810	45,330	367,080
3/28/94	129,980	149,390	26,114	45,340	350,824
4/11/94	62,480	185,229	0	46,667	294,376
4/26/94	114,540	192,381	0	47,693	354,614
5/10/94	95,550	176,590	-13,904	44,760	302,996
5/24/94	94,640	159,660	5,466	43,110	302,876
6/7/94	95,650	153,210	674	43,420	292,954
6/20/94	94,086	137,550	41,772	40,140	313,548
7/5/94	122,174	165,870	-3,652	50,170	334,562
7/19/94	102,520	152,770	71,814	48,230	375,334
8/2/94	114,960	146,980	8,396	46,040	316,376
8/16/94	120,305	147,250	314,706	43,740	626,001
8/30/94	28,735	146,150	259,724	43,840	478,449
9/13/94	109,247	143,172	1,300	41,266	294,985
9/27/94	19,933	146,778	240,010	38,974	445,695
10/11/94	38,450	150,690	24,290	43,310	256,740
10/25/94	136,920	145,910	168,195	8,650	459,675
11/8/94	137,634	143,830	159,625	39,953	481,042
11/22/94	130,526	140,433	143,430	36,652	451,041
12/6/94	126,543	140,687	2,578	35,103	304,911
12/20/94	123,081	141,034	66,629	36,927	367,671
1/3/95	124,006	141,588	2,629	36,814	305,037
1/17/95	121,155	141,168	103,562	37,668	403,553
1/31/95	20,528	143,045	160,533	7,741	331,847
2/14/95	118,171	139,268	33,440	39,172	330,051
2/28/95	112,145	124,628	195,889	37,053	469,715
3/14/95	123,141	194,925	190,593	45,607	554,266
3/28/95	125,571	152,781	147,296	46,200	471,848
4/11/95	121,568	184,651	2,015	45,893	354,127
4/25/95	126,623	147,850	224,282	47,128	545,883
5/9/95	94,185	167,684	220,647	46,206	528,722
5/23/95	80,867	135,931	100,613	46,105	363,516
6/6/95	136,660	157,320	332,514	44,446	670,940
6/20/95	94,863	132,718	78,605	42,396	348,582
7/4/95	122,115	150,562	1,577	40,923	315,177

NAS PENSACOLA GROUNDWATER RECOVERY WELL FLOW RATES



INSPECTOR'S NAME	ANTHONY L. GENTRY
DATE	2/11/97
AMBIENT TEMPERATURE	65
WEATHER CONDITIONS	SUNNY

ITEM	INSPECTION CHECK	INSPECTION FREQUENCY	DATA/ COMMENTS
INFLUENT PIPING	OPERATION OF BALL CHECK VALVE	MONTHLY	OK
	SAMPLE PORT OPERATION	MONTHLY	OK
	FLOW METER READING	BI-WEEKLY	7,390,320
	SAMPLE COLLECTION	MONTHLY	N/A
AIR STRIPPER	PRESSURE GAUGE READING	BI-WEEKLY	23.5" WATER
	CLEAN / CHECK TRAYS	BI-WEEKLY	CHECKED
BLOWER	PIPING CONNECTIONS	MONTHLY	OK
EFFLUENT PIPING	OPERATION OF BALL CHECK VALVE	MONTHLY	OK
	SAMPLE PORT OPERATION	MONTHLY	OK
	FLOW METER READING	BI-WEEKLY	N/A
	SAMPLE COLLECTION	MONTHLY	N/A
SYSTEM COMPONENTS	EXPOSED PIPING CONNECTIONS	MONTHLY	OK

SYSTEM DESCRIPTION: AIR STRIPPER OPERATING PROPERLY

ACTIVITIES PERFORMED: