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NAS PENSACOLA  
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DECEMBER 1996 MONTHLY OPERATION AND MAINTENANCE REPORT ON THE  
DOMESTIC WASTEWATER TREATMENT PLANT GROUNDWATER REMEDIATION  
PROJECT FOR NAS PENSACOLA FL  
12/23/1996  
HRP SPECTRUM INC

# HRP/Spectrum

172  
December 23, 1996

Southern Division  
NAVFACENCOM  
Attention: Maxie Keisler, Code 18213  
2155 Eagle Drive  
P.O. Box 190010  
Charleston, SC 29419-9010

**RE: DECEMBER 1996 MONTHLY OPERATION AND MAINTENANCE REPORT ON THE DOMESTIC WASTEWATER TREATMENT PLANT (DWTP) GROUND-WATER REMEDIATION NAVAL AIR STATION (NAS) PENSACOLA, FLORIDA, (JOB # NAV0227.FE)**

Dear Sir:

*HRP/Spectrum* is pleased to submit the December 1996 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 December 1996 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 the report have been sent to Mr. Tom Kelley Jacksonville, 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 December:

## RECOVERY WELL SYSTEM OPERATION STATUS

### RW 1,2&3

- On December 3, 1996 both Pumps for RW 1, 2, & 3 were shut off. No flow was reported.
- On December 4, 1996, Pump A for RW's 1, 2, & 3 was restarted. Upon departure, RW'S 1, 2, & 3 were operating normally. No leaks were detected.
- On December 16, 1996 Pump A 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.

(December.alg)

#### RW 4&6

- On December 3, 1996 Pump A for RW 4 & 6 was operating sufficiently with normal pressure and flow. No leaks were detected at either of the recovery wells or pumps.
- On December 16, 1996, Pump A for RW 4 & 6 was operating sufficiently with normal pressure and flow. No leaks were detected at either the recovery wells or pumps.

#### RW 5A

- Upon arrival to the site on December 3, 1996, RW 5A Pump B was operating normally with a leak at the pressure side of the pump. Upon further inspection, it was noted that the pressure side of Pump A was also leaking.
- To fix the leaking system, the Air Stripper was shut off. The leaking pipes were replaced and the system restarted.
- Upon departure on December 4, 1996 RW 5A was operating sufficiently with normal pressure and flow. No leaks were detected at either the recovery well or pumps.
- On December 16, 1996 Pump B of RW 5A was operating sufficiently with proper pressure and flow. No leaks were detected at either the recovery well or pumps.
- After performing RW rehabilitation in October on RW 5A, there was a approximately twenty-two (22%) percent increase in flow noted for RW 5A for the months of November and December.

#### RW 7

- On December 3, 1996, Pump B for RW 7 was operating sufficiently with normal pressure and flow. No leaks were detected.
- On December 16, 1996 Pump B appeared to be working properly producing high pressure and normal flow. No leaks were detected in either the pumps or recovery well.

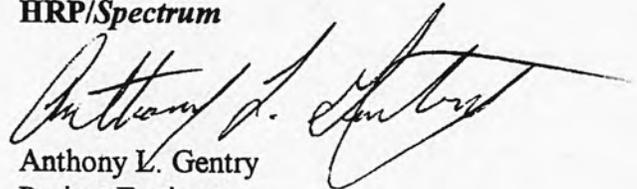
#### PRE-TREATMENT AIR STRIPPER

- On December 3, 1996 the Air Stripper was operating properly and producing normal pressure. Samples were taken from the inlet and outlet sample points. No leaks were detected.
- Upon departure on December 4, 1996, the Air Stripper was operating normally and no leaks were detected.
- On December 16, 1996, the Air Stripper was monitored for leaks and flow. No leaks were detected and normal flow was reported.

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)

**HRP/Spectrum**

**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	12/3/96	11:00	10,542,360	0	0	0	0.00	N/A	312	0	N/A, N/A, N/A
RW 4&6	12/3/96	10:30	1,755,220	8	17	9.8	9.86	A	312	184,490	5.43, 7.18
RW 5A	12/3/96	10:25	5,207,230	6	12	12.5	14.03	B	312	262,710	3.6
RW 7	12/3/96	10:40	5,636,850	7	27.5	2.4	2.52	B	312	47,130	23.25
RW 1,2 & 3	12/16/96	15:00	10,667,920	17	15	7	6.71	A	312	125,560	N/A, N/A, 5.84
RW 4&6	12/16/96	15:10	1,914,060	19	17	10.1	8.49	A	312	158,840	4.25, 5.71
RW 5A	12/16/96	15:13	5,449,810	0	11	12.3	12.96	B	312	242,580	4.94
RW 7	12/16/96	15:05	5,681,260	16	27	2.5	2.37	B	312	44,410	22.5

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.





PUMPING FLOW (GALLONS SINCE LAST READING)

