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NAS CECIL FIELD  
5090.3a

GAGING SITES REPORT QUARTER ENDING 30 SEPTEMBER 1992 WITH TRANSMITTAL  
10/15/1992  
U S DEPARTMENT OF THE INTERIOR

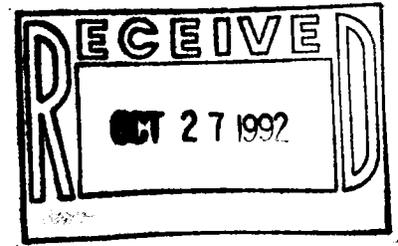


# United States Department of the Interior

GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
3728 Phillips Highway, Suite 222  
Jacksonville, Florida 32207

October 15, 1992

Mr. Clifton C. Casey  
Code 1852  
Southern Division  
Naval Facilities Engineering Command  
2155 Eagle Drive, P.O. Box 10068  
Charleston, SC 29411-0068



Dear Mr. Casey:

Enclosed is the report on the gaging sites at Naval Air Station, Cecil Field, Jacksonville, Florida for the quarter ending September 30, 1992.

Each site includes a station analysis, measurement summary, hydrograph of instantaneous values, and a table of daily discharge values. The only exception to this is the Confluence site, where the data presented is in tabular form.

Please note that the data for site 1 includes the runoff from the adjacent road ditch.

If you have any questions, please feel free to call at (904)398-2121.

Sincerely Yours,

James E. Sohm  
Supervisory Hydrologic Technician

Enclosures

Copy to: C. Tibbals, USGS, Altamonte Springs  
R. Craig, USGS, Altamonte Springs  
B. Lester, ✓  
ABB Environmental Services, Tallahassee  
J. Dingwall,  
NAS, Cecil Field, Jacksonville

1992  
Florida

STATION ANALYSIS

02245918 Rowell Creek near Fiftone, Florida

PERIOD OF ANALYSIS: June 9, 1992 to September 30, 1992.

EQUIPMENT: BDR 301 datalogger with shaft encoder and attached float and tape.  
Outside staff gage used for comparison and verification.

The datalogger operated satisfactorily except for July 23 to Aug. 19 when datalogger malfunctioned.

MEASUREMENTS: Eight discharge measurements made during the quarter ranged in stage from 1.49 ft to 5.54 ft and in discharge from 0.43 to 150 cfs. Enclosed is a computer printout of the measurement data.

DISCHARGE: The low water control at this site is a small rip-rap bag weir located about 20 feet downstream from the gage. The medium water control is the channel and the high water control is the bridge opening, which is about 150 ft downstream.

Measurement Nos. 1-8 were used to create rating No. 1. All measurements plotted within 10% of the rating. The rating was used direct with no shifts applied during the period.

Daily discharges for the period July 23 to Aug. 19 were estimated by hydrographic comparisons with 02245922, Rowell Creek at Lake Fretwell Dam gaging station. The comparison appears to be fairly good.

REMARKS: Records fair except for period July 23 to Aug. 19 which are poor.

Prepared by: J.E. Sohm  
Checked by: R.A. Craig

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - ORLANDO

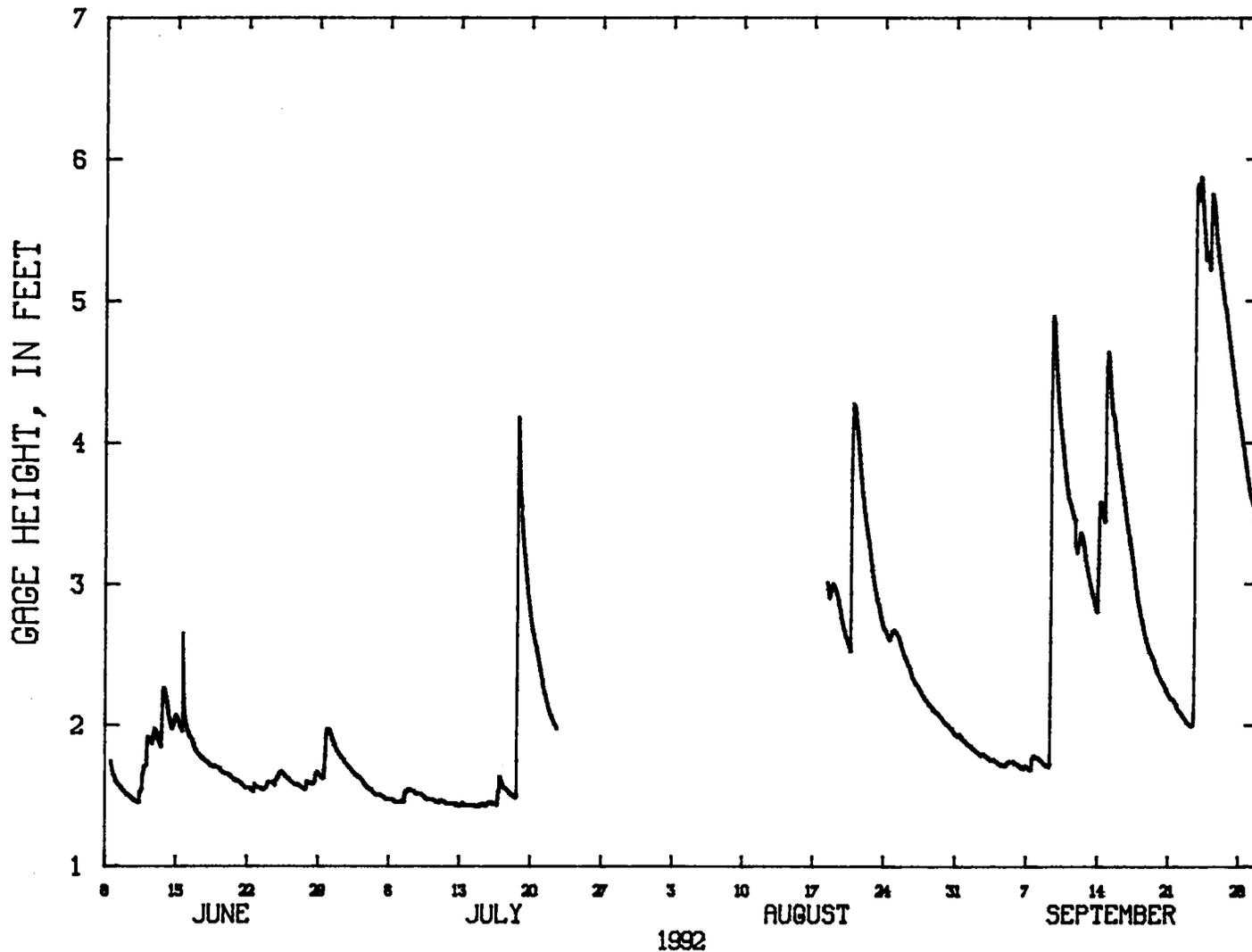
10/16/92

STATION NUMBER 02245918 ROWELL CREEK NR FIFSTONE, FL. STREAM SOURCE AGENCY USGS  
 LATITUDE 301435 LONGITUDE 0815344 DRAINAGE AREA 6.1 DATUM STATE 12 COUNTY 031  
 PROVISIONAL DATA SUBJECT TO REVISION  
 DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MEAN VALUES

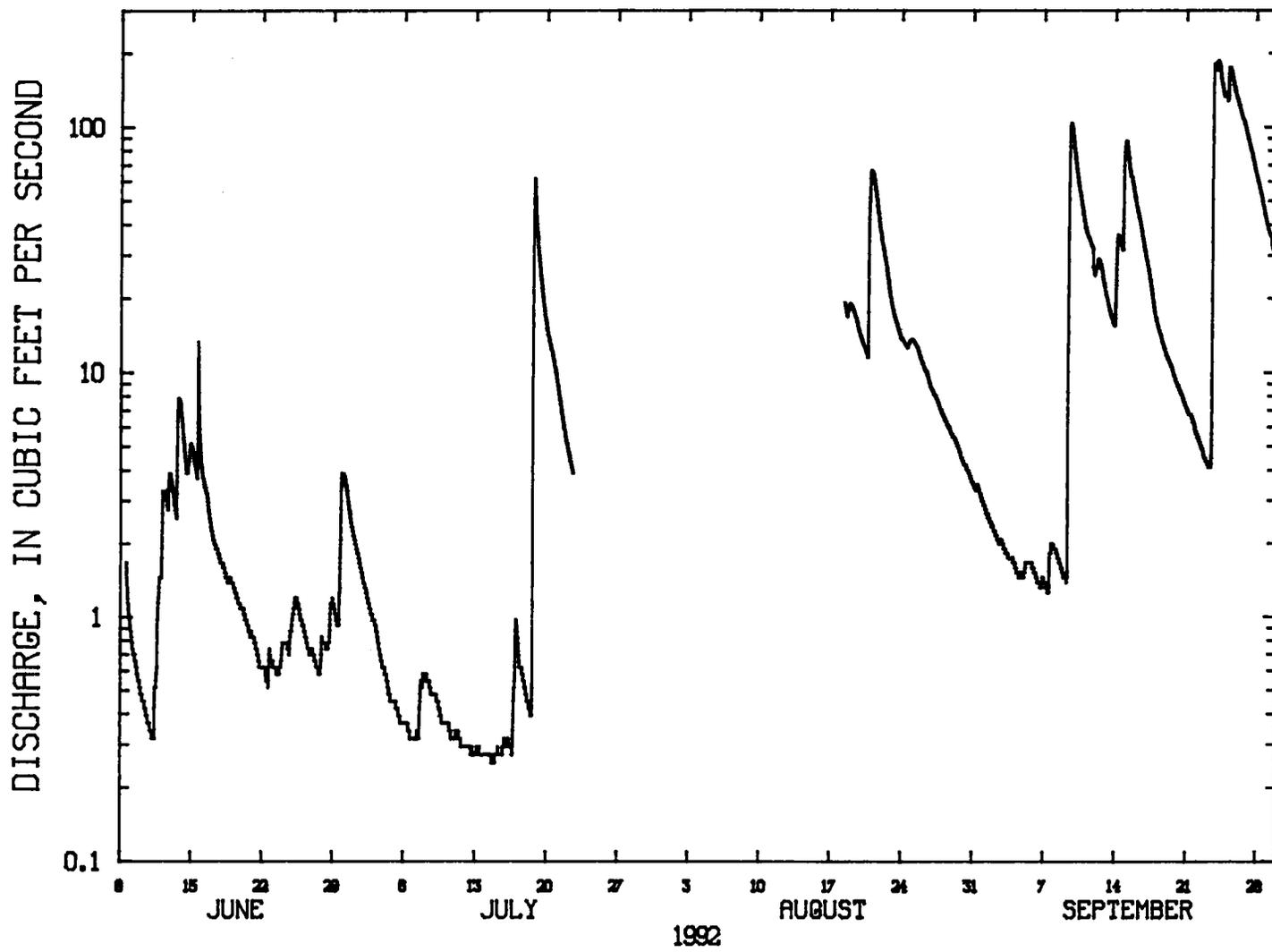
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	3.1	e4.5	3.3
2	---	---	---	---	---	---	---	---	---	1.8	e3.5	2.6
3	---	---	---	---	---	---	---	---	---	1.2	e3.0	2.1
4	---	---	---	---	---	---	---	---	---	.79	e3.0	1.8
5	---	---	---	---	---	---	---	---	---	.52	e3.5	1.5
6	---	---	---	---	---	---	---	---	---	.41	e4.0	1.6
7	---	---	---	---	---	---	---	---	---	.34	e9.0	1.4
8	---	---	---	---	---	---	---	---	---	.40	e9.0	1.6
9	---	---	---	---	---	---	---	---	---	.53	e5.5	1.7
10	---	---	---	---	---	---	---	---	.68	.43	e3.0	5.3
11	---	---	---	---	---	---	---	---	.43	.35	e1.7	5.5
12	---	---	---	---	---	---	---	---	.65	.32	e1.0	3.3
13	---	---	---	---	---	---	---	---	3.0	.29	e8.5	2.6
14	---	---	---	---	---	---	---	---	4.6	.28	e8.0	1.8
15	---	---	---	---	---	---	---	---	4.9	.26	e1.0	4.0
16	---	---	---	---	---	---	---	---	5.3	.28	e1.2	6.6
17	---	---	---	---	---	---	---	---	3.2	.36	e3.0	3.9
18	---	---	---	---	---	---	---	---	1.9	.66	e2.5	2.3
19	---	---	---	---	---	---	---	---	1.5	16	e2.0	1.4
20	---	---	---	---	---	---	---	---	1.2	24	e1.7	1.1
21	---	---	---	---	---	---	---	---	.96	12	22	8.2
22	---	---	---	---	---	---	---	---	.73	6.9	52	6.5
23	---	---	---	---	---	---	---	---	.62	e5.5	27	5.0
24	---	---	---	---	---	---	---	---	.62	e4.5	16	6.3
25	---	---	---	---	---	---	---	---	.79	e4.0	13	15.5
26	---	---	---	---	---	---	---	---	1.1	e3.5	13	15.0
27	---	---	---	---	---	---	---	---	.79	e3.0	9.8	11.1
28	---	---	---	---	---	---	---	---	.66	e3.0	7.7	7.7
29	---	---	---	---	---	---	---	---	.86	e3.0	6.2	5.1
30	---	---	---	---	---	---	---	---	1.7	e3.0	5.0	3.4
31	---	---	---	---	---	---	---	---	---	e5.0	4.0	---
TOTAL	---	---	---	---	---	---	---	---	---	105.72	538.7	1056.3
MEAN	---	---	---	---	---	---	---	---	---	3.41	17.4	35.2
MAX	---	---	---	---	---	---	---	---	---	24	90	155
MIN	---	---	---	---	---	---	---	---	---	.26	3.0	1.4
CFSM	---	---	---	---	---	---	---	---	---	.56	2.85	5.77
IN.	---	---	---	---	---	---	---	---	---	.64	3.29	6.44

e Estimated





— 02245918 ROWELL CREEK NR FIFTONE, FL.  
INSTANTANEOUS GAGE HEIGHT (FEET), STAGE, EDITED



— 02245918 ROWELL CREEK NR FIFTONE, FL.  
INSTANTANEOUS DISCHARGE (CFS)

1992  
Florida

STATION ANALYSIS

02245922 Rowell Creek at Lake Fretwell Dam near Maxville, FL

PERIOD OF ANALYSIS: June 25, 1992 to September 30, 1992.

EQUIPMENT: PS-2 pressure transducer with CR10 electronic datalogger, tipping bucket rain gage and cellular phone telemetry. Outside staff gage for comparison and verification.

The stage record was complete and satisfactory except for the following periods:

July 5, 6 - datalogger malfunction  
July 15-17 - PS-2 orifice out of water  
Aug. 6 - datalogger malfunction  
Sept. 6 - datalogger malfunction

MEASUREMENTS: Ten discharge measurements, Nos. 1-10, made between June 25 and September 30 and one subsequent measurement, No. 11, made Oct. 5 are used in this analysis.

The measurements ranged in stage from 1.75 ft to 7.85 ft and in discharge from 3.09 ft<sup>3</sup>/s to 306 ft<sup>3</sup>/s.

Measurements below a stage of 5.25 ft define leakage through the gate valve which at present is fixed in the closed position.

A computer printout of discharge measurement information is enclosed.

DISCHARGE: The rating at this site defines three distinctly different flow conditions and they are as follows:

- Condition 1 - From a gage height of -1.25 ft to 5.25 ft the rating defines leakage through the gate valve vs. head.
- Condition 2 - From a gage height of 5.26 ft to about 7.1 ft the rating defines flow over the lip of a round drop pipe plus leakage.
- Condition 3 - From a gage height above 7.1 ft the rating defines flow over the dam road plus flow of conditions 1 and 2.

Measurement Nos. 1-11 were used to define rating No. 1, which was applied direct for this period of analysis. The measurements plot within 5.3% of the rating.

Discharge for periods of no gage height record were estimated on the basis of discharge trends before and after the no gage height periods and rainfall record.

Discharge record for the period of analysis is fair.

Prepared by: J.E. Sohm  
Checked by: R.A. Craig

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - ORLANDO

10/16/92

STATION NUMBER 02245922 ROWELL CR. AT LAKE FRETWELL DAM NR MAXVILLE, FL STREAM SOURCE AGENCY USGS

LATITUDE 301305 LONGITUDE 0815354 DRAINAGE AREA 8.1 DATUM STATE 12 COUNTY 031

PROVISIONAL DATA

SUBJECT TO REVISION

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	4.4	5.1	6.4
2	---	---	---	---	---	---	---	---	---	4.4	5.0	6.2
3	---	---	---	---	---	---	---	---	---	4.3	4.9	5.9
4	---	---	---	---	---	---	---	---	---	4.1	5.2	5.7
5	---	---	---	---	---	---	---	---	---	e3.8	6.1	5.2
6	---	---	---	---	---	---	---	---	---	e3.6	e7.0	e4.8
7	---	---	---	---	---	---	---	---	---	3.5	26	4.8
8	---	---	---	---	---	---	---	---	---	3.4	130	4.5
9	---	---	---	---	---	---	---	---	---	3.2	73	4.2
10	---	---	---	---	---	---	---	---	---	3.1	41	27
11	---	---	---	---	---	---	---	---	---	2.8	23	77
12	---	---	---	---	---	---	---	---	---	2.4	12	48
13	---	---	---	---	---	---	---	---	---	2.1	11	37
14	---	---	---	---	---	---	---	---	---	1.7	16	28
15	---	---	---	---	---	---	---	---	---	1.3	19	50
16	---	---	---	---	---	---	---	---	---	e1.1	17	99
17	---	---	---	---	---	---	---	---	---	.84	40	61
18	---	---	---	---	---	---	---	---	---	.27	34	37
19	---	---	---	---	---	---	---	---	---	.72	28	22
20	---	---	---	---	---	---	---	---	---	4.5	22	14
21	---	---	---	---	---	---	---	---	---	5.4	24	9.5
22	---	---	---	---	---	---	---	---	---	5.8	72	8.2
23	---	---	---	---	---	---	---	---	---	5.8	42	7.4
24	---	---	---	---	---	---	---	---	---	5.7	25	49
25	---	---	---	---	---	---	---	---	---	5.5	16	208
26	---	---	---	---	---	---	---	---	4.2	5.2	14	204
27	---	---	---	---	---	---	---	---	4.0	4.9	9.9	157
28	---	---	---	---	---	---	---	---	3.8	4.6	8.2	114
29	---	---	---	---	---	---	---	---	3.7	4.4	7.4	82
30	---	---	---	---	---	---	---	---	3.7	4.6	6.8	54
31	---	---	---	---	---	---	---	---	---	4.9	6.6	---
TOTAL	---	---	---	---	---	---	---	---	---	112.33	757.2	1440.8
MEAN	---	---	---	---	---	---	---	---	---	3.62	24.4	48.0
MAX	---	---	---	---	---	---	---	---	---	5.8	130	208
MIN	---	---	---	---	---	---	---	---	---	.27	4.9	4.2
CFSM	---	---	---	---	---	---	---	---	---	.45	3.02	5.93
IN.	---	---	---	---	---	---	---	---	---	.52	3.48	6.62

e Estimated

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION  
 SUMMARY OF DISCHARGE MEASUREMENT DATA

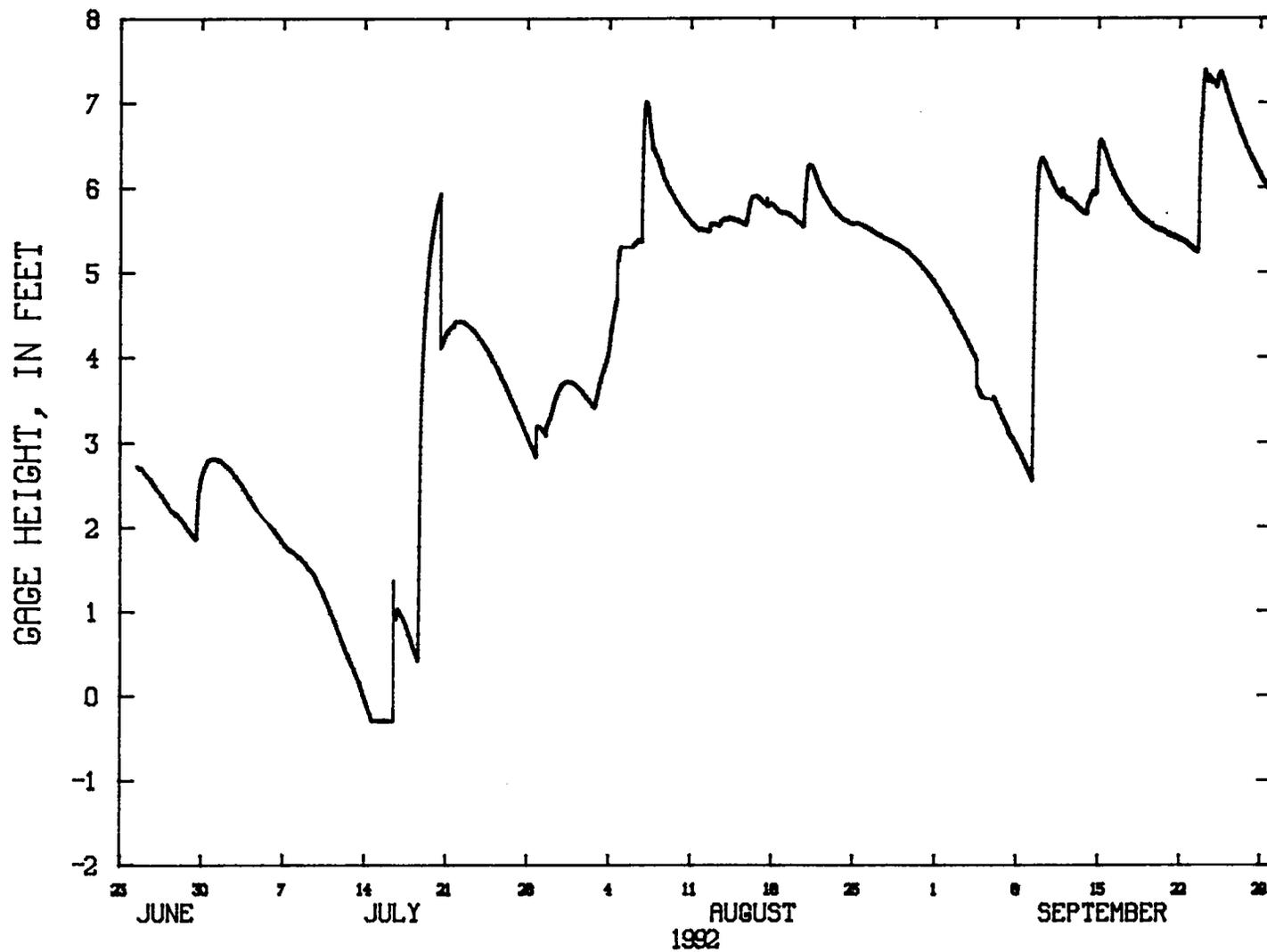
02245922

ROWELL CR. AT LAKE FRETWELL DAM NR MAXVILLE, FL

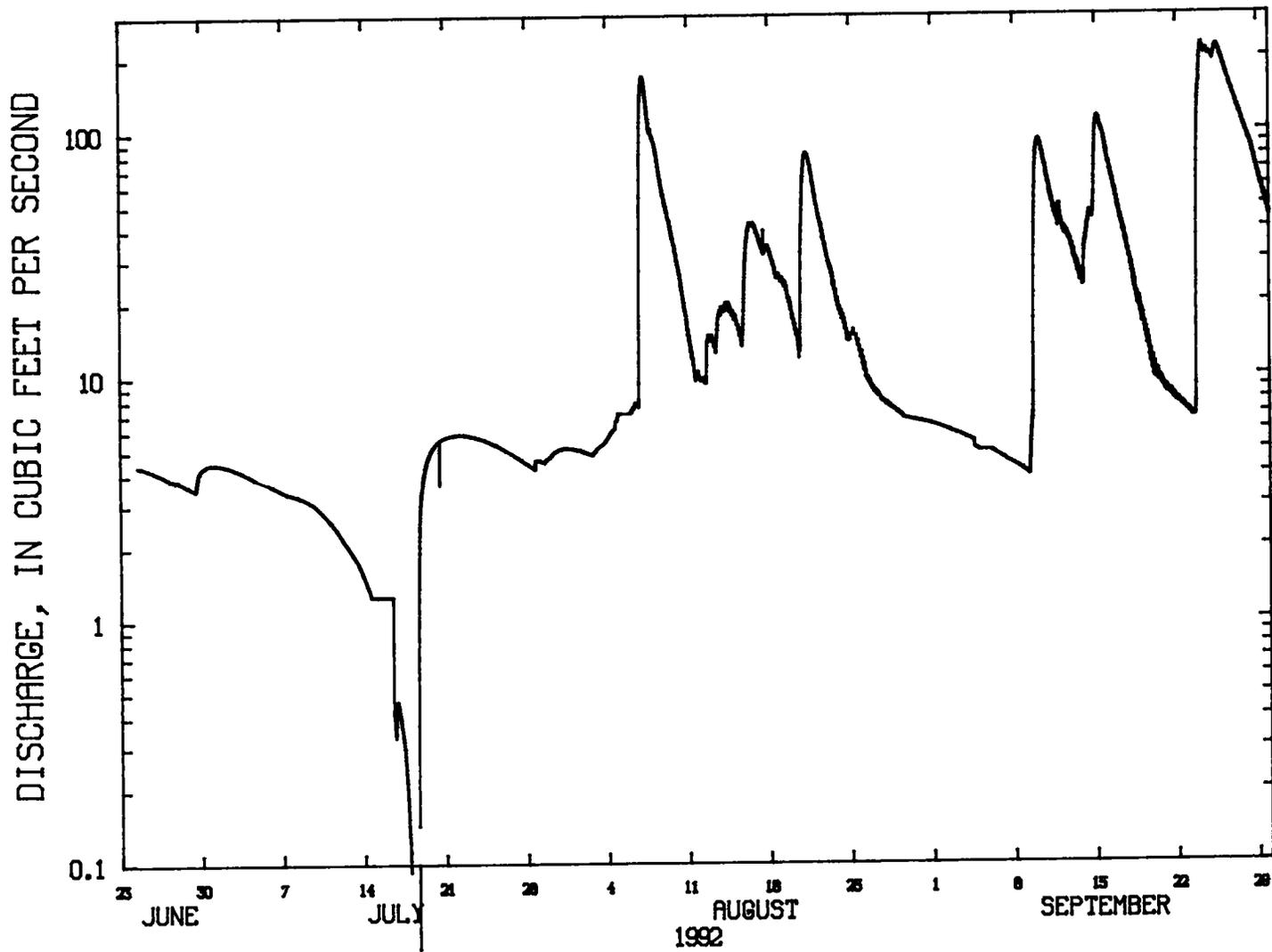
DATE PROCESSED: 16-OCT-92 08:

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 NO. \* DATE \* MADE BY \* WIDTH \* AREA \* MEAN \* GAGE \* DISCHARGE \* SHIFT \* PCT. \* NO. \* GHT. \* TIME \* RATED \* CONTROL  
 \* TIME \* \* VEL. \* HEIGHT \* CFS \* ADJ. \* DIFF. \* SECT. \* CHG. \*  
 \*\*\*\*\*

NO.	DATE	MADE BY	WIDTH	AREA	MEAN	GAGE	DISCHARGE	SHIFT	PCT.	NO.	GHT.	TIME	RATED	CONTROL
1	07/10/92	JES/CVP	3.51	0.88	1.75	3.09	0.0	1	0.00	0.3	P	CLEAR		
	1125	REMARKS: Lower O.S. = 1.78; Culvert width = 7.13ft. Discharge determined by culvert computation.												
2	07/21/92	CVP/JES	4.55	1.13	4.02	5.14	-5.3	1	0.00	0.1	F	CLEAR		
	1015	REMARKS: Measured D.S.S of 7.13ft outflow culvert; Culvert computation used to determine discharge.												
3	07/31/92	CVP/JES	4.55	1.09	3.54	4.96	+0.4	1	0.00	0.1	F			
	1130	REMARKS: Measured at D.S.S. of outflow culvert opening; discharge determine by culvert computation.												
4	08/07/92	CVP/JES	5.59	1.38	5.38	7.71	+0.1	1	0.00	0.2	F	CLEAR		
	1103	REMARKS: About maximum GH where only leakage is primary factor; stage is slightly over drop culvert.												
5	08/17/92	JES/CVP	15.3	2.71	5.90	41.5	-1.0	1	-0.01	0.3	F	CLEAR		
	0930	REMARKS: Lower O.S. = 3.65; Measured on D.S.S. of culvert. Q determined by culvert computation.												
6	08/19/92	JES/CVP	11.4	2.53	5.74	28.8	+1.1	1	0.00	0.1	F	CLEAR		
	0947	REMARKS: Lower O.S.= 3.07; Q determined by culvert computation at D.S.S. of culvert.												
7	08/26/92	JES/CVP	7.75	1.82	5.57	14.1	-3.4	1	0.00	0.2	F	CLEAR		
	0943	REMARKS: Lower O.S. = 2.57; Culvert computations were used to determine discharge.												
8	09/11/92	MJS	24.0	3.31	6.24	79.4	+0.5	1	0.00	0.2	F	CLEAR		
	1030	REMARKS: Lower O.S.= 4.90; Q determined by culvert computation at D.S.S. of culvert.												
9	09/24/92	CVP/JES	5.19	1.34	5.26	6.95	+2.5		0.00	0.1	F	CLEAR		
	1140	REMARKS: Lower O.S. = 2.09												
10	09/25/92	JES/CVP	37.2	5.38	7.27	205	-0.5		0.00	0.3		CLEAR		
	1025	REMARKS: Measured 5 CFS over road west of gage. Q determined by culvert comp. at D.S.S. of culvert.												



— 02245922 ROWELL CR. AT LAKE FRETWELL DAM NR MAXVILLE, FL  
INSTANTANEOUS GAGE HEIGHT (FEET), EDITED



— 02245922 ROWELL CR. AT LAKE FRETWELL DAM NR MAXVILLE, FL  
INSTANTANEOUS DISCHARGE (CFS)

1992  
Florida

STATION ANALYSIS

02245925 Site 1 outflow ditch near Maxville, Florida

PERIOD OF ANALYSIS: June 23, 1992 to September 30, 1992.

EQUIPMENT: BDR 301 datalogger with shaft encoder and attached float and tape.  
Outside staff gage used for comparison and verification.

The datalogger furnished a satisfactory record of stage for the period of analysis.

MEASUREMENTS: Four discharge measurements made during the period, three were volumetric and one metered.

The volumetric measurement, Nos. 1-3, were made using a collection device and graduated cylinder. Each volumetric measurement is an average of three "individual" collections. The metered measurement, No. 4, was made downstream of the V notch weir. A computer printout of the measurement data is enclosed.

DISCHARGE: The compound, V notch, rectangular weir is the control at all but extreme high stages. The control should be stable although at times debris may collect in the V notch causing minor negative shifts.

Rating No. 1 was drawn based on measurements 1-4, and applied direct during the analysis period. The measurements check the rating within 0%. Discharge above 1.0 cfs are considered poor until further measurements are made to better define the rating.

REMARKS: The weir was raised 0.12 ft on July 21 to improve measuring conditions.

Prepared by: J.E. Sohm  
Checked by: R.A. Craig

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - ORLANDO

10/16/92

STATION NUMBER 02245925 SITE 1 OUTFLOW DITCH NR MAXVILLE, FL STREAM SOURCE AGENCY USGS  
 LATITUDE 301239 LONGITUDE 0815357 DRAINAGE AREA 0.00 DATUM STATE 12 COUNTY 031  
 PROVISIONAL DATA SUBJECT TO REVISION  
 DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.016	.002	.003
2	---	---	---	---	---	---	---	---	---	.006	.001	.002
3	---	---	---	---	---	---	---	---	---	.007	.001	.001
4	---	---	---	---	---	---	---	---	---	.007	.005	.001
5	---	---	---	---	---	---	---	---	---	.006	.008	.001
6	---	---	---	---	---	---	---	---	---	.003	.011	.001
7	---	---	---	---	---	---	---	---	---	.001	.050	.000
8	---	---	---	---	---	---	---	---	---	.001	.011	.002
9	---	---	---	---	---	---	---	---	---	.001	.005	.004
10	---	---	---	---	---	---	---	---	---	.000	.003	.260
11	---	---	---	---	---	---	---	---	---	.000	.002	.011
12	---	---	---	---	---	---	---	---	---	.000	.002	.040
13	---	---	---	---	---	---	---	---	---	.000	.005	.017
14	---	---	---	---	---	---	---	---	---	.000	.008	.038
15	---	---	---	---	---	---	---	---	---	.000	.014	.189
16	---	---	---	---	---	---	---	---	---	.000	.014	.251
17	---	---	---	---	---	---	---	---	---	.000	.013	.042
18	---	---	---	---	---	---	---	---	---	.001	.009	.007
19	---	---	---	---	---	---	---	---	---	.005	.006	.006
20	---	---	---	---	---	---	---	---	---	.008	.002	.008
21	---	---	---	---	---	---	---	---	---	.005	.033	.011
22	---	---	---	---	---	---	---	---	---	.000	.007	.010
23	---	---	---	---	---	---	---	---	---	.000	.004	.011
24	---	---	---	---	---	---	---	---	.004	.000	.003	.280
25	---	---	---	---	---	---	---	---	.005	.000	.003	1.7
26	---	---	---	---	---	---	---	---	.007	.000	.002	1.1
27	---	---	---	---	---	---	---	---	.007	.000	.002	.661
28	---	---	---	---	---	---	---	---	.009	.000	.002	.324
29	---	---	---	---	---	---	---	---	.012	.051	.002	.160
30	---	---	---	---	---	---	---	---	.121	.008	.002	.059
31	---	---	---	---	---	---	---	---	---	.004	.002	---
TOTAL	---	---	---	---	---	---	---	---	---	0.130	0.234	5.200
MEAN	---	---	---	---	---	---	---	---	---	.004	.008	.17
MAX	---	---	---	---	---	---	---	---	---	.051	.050	1.7
MIN	---	---	---	---	---	---	---	---	---	.000	.001	.000

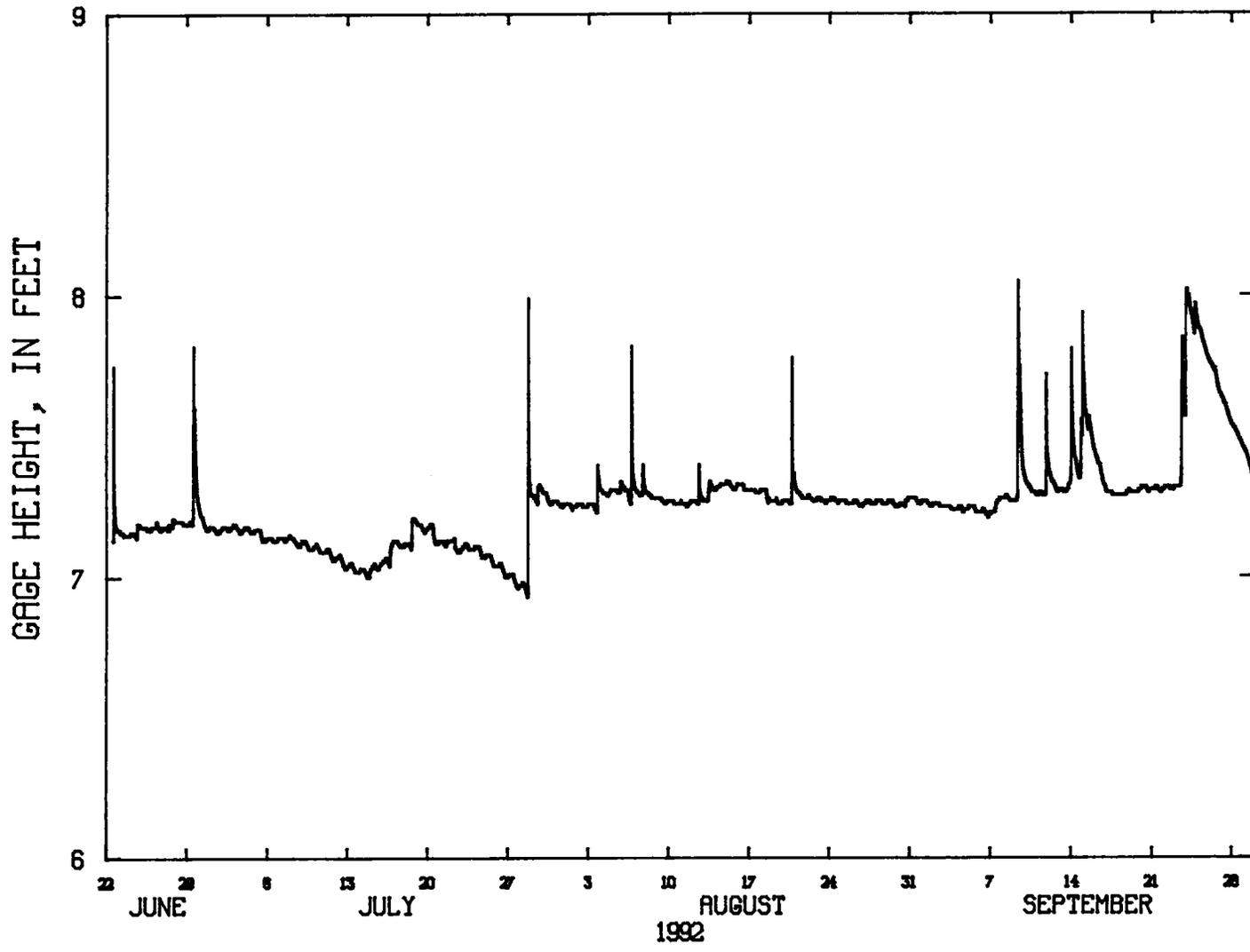
UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION  
 SUMMARY OF DISCHARGE MEASUREMENT DATA

02245925  
 SITE 1 OUTFLOW DITCH NR MAXVILLE, FL

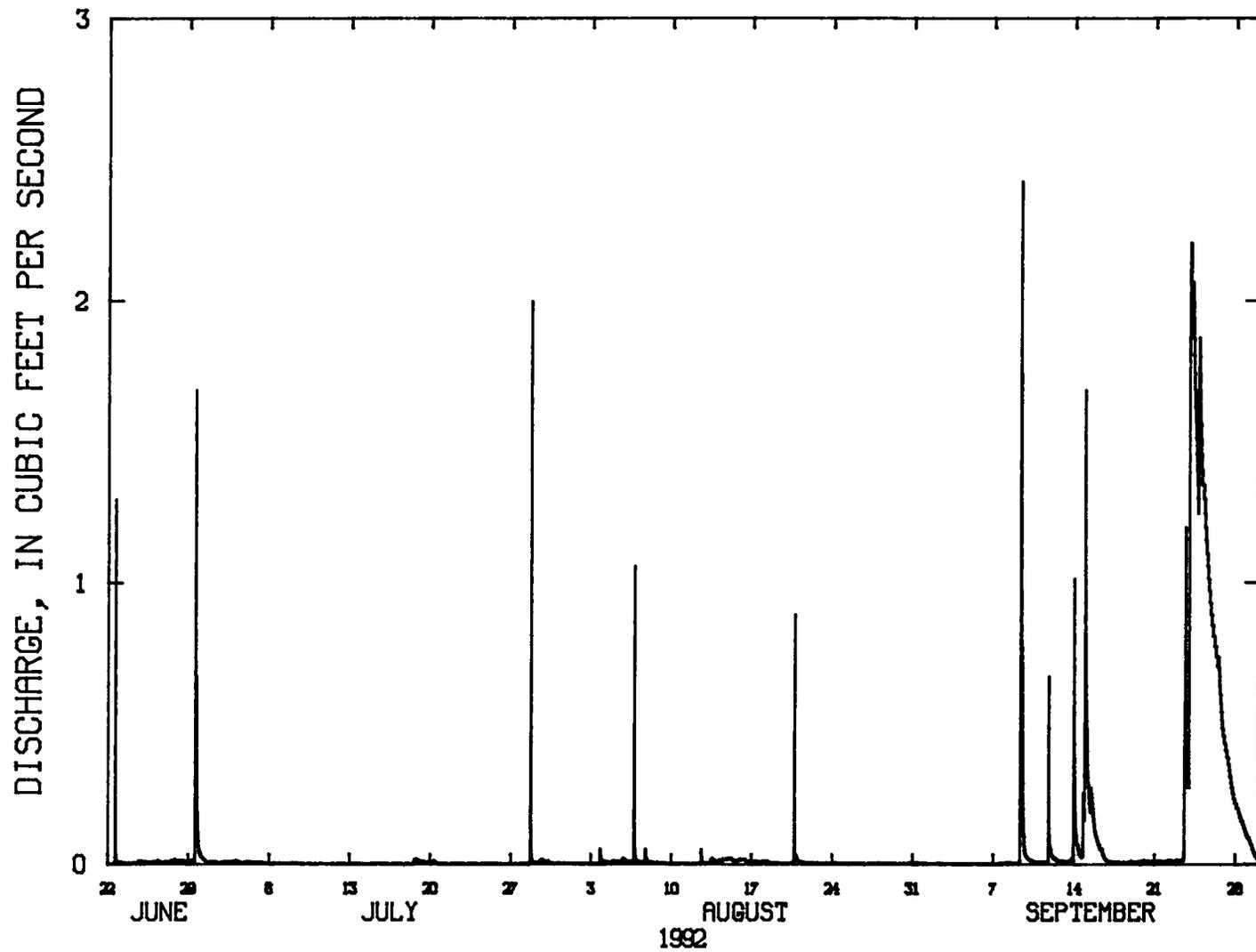
DATE PROCESSED: 16-OCT-92 08:

\*\*\*\*\*  
 NO. \* DATE \* MADE BY \* WIDTH \* AREA \* MEAN \* GAGE \* DISCHARGE \* SHIFT \* PCT. \* NO. \* GHT \* TIME \* RATED \* CONTROL  
 \* TIME \* \* VEL. \* HEIGHT \* CFS \* ADJ. \* DIFF. \* SECT. \* CHG. \*  
 \*\*\*\*\*

NO.	DATE	MADE BY	WIDTH	AREA	MEAN	GAGE	DISCHARGE	SHIFT	PCT.	NO.	GHT	TIME	RATED	CONTROL
1	07/10/92 1000	CVP/JES			7.13	0.001		+0.12	0.0				P	CLEAR
		REMARKS: Measured at V-notch of weir, Q determined volumetrically.												
2	08/07/92 1130	CVP/JES			7.31	0.007			0.0				P	CLEAR
		REMARKS: Measured at V-notch volumetrically.												
3	08/26/92 1030	CVP/JES			7.27	0.003			0.0				P	CLEAR
		REMARKS: Volumetrically measured at V-notch of weir.												
4	09/10/92 1040	CVP/MJS	4.70	1.08	0.72	7.76	0.81		0.0	15	-0.03	0.1	P	CLEAR
		REMARKS: Water approx. .02ft in rectangle of weir; measured w/pygmy meter.												



— 02245925 SITE 1 OUTFLOW DITCH NR MAXVILLE, FL  
INSTANTANEOUS GAGE HEIGHT (FEET), EDITED



— 02245925 SITE 1 OUTFLOW DITCH NR MAXVILLE, FL  
INSTANTANEOUS DISCHARGE (CFS)

1992  
Florida

### STATION ANALYSIS

02245924 Site 2 outflow ditch near Maxville, Florida

PERIOD OF ANALYSIS: June 22, 1992 to September 30, 1992.

EQUIPMENT: BDR 301 datalogger with shaft encoder, June 22 to July 17. On July 17 the BDR 301 was replaced with a CR-10 electronic datalogger and cellular telemetry was added. Outside staff gage for reference.

The BDR 301 and CR-10 dataloggers gave a complete and satisfactory record except for the following periods; Aug. 1,7 - datalogger malfunction; Sept. 2-5, datalogger malfunction; Sept. 10-19 - datalogger malfunction or float on shaft encoder became hung up on something.

MEASUREMENTS: Four volumetric discharge measurements, Nos. 1-4 were made during the period of analysis.

The measurements were made with a collection device and graduated cylinder. Each measurement is an average of three "individual" collections. A printout of the measurements is enclosed.

DISCHARGE: A compound, V notch, rectangular weir is the control a all but extreme high stages. The control should be stable and not subject to shifting except at times when debris may catch in the V notch and cause minor shifting.

Rating No. 1 was based on measurement No. 1. This rating was used June 22 to July 21 when the weir was raised 0.37 ft to improve volumetric measuring conditions. Measurement No. 1 plots within 0.0% of rating No. 1.

Rating No. 2 was based on measurements Nos. 2-4 and was made affective July 21 when the weir was raised. The measurements plot within 12% of rating No. 2.

The ratings were applied direct for the period of analysis and the discharge record is fair.

Mean daily discharges for periods of no record or questionable record were estimated by hydrographic comparison with the Site 1 gage.

Prepared by: J.E. Sohm  
Checked by: R.A. Craig

STATION NUMBER 02245924 SITE 2 OUTFLOW DITCH NR MAXVILLE, FL STREAM SOURCE AGENCY USGS  
 LATITUDE 301239 LONGITUDE 0815356 DRAINAGE AREA 0.00 DATUM STATE 12 COUNTY 031  
 PROVISIONAL DATA SUBJECT TO REVISION  
 DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.100	e.100	.062
2	---	---	---	---	---	---	---	---	---	.099	.088	.057
3	---	---	---	---	---	---	---	---	---	.088	.089	.055
4	---	---	---	---	---	---	---	---	---	.079	.330	.054
5	---	---	---	---	---	---	---	---	---	.074	.189	.054
6	---	---	---	---	---	---	---	---	---	.068	.170	.052
7	---	---	---	---	---	---	---	---	---	.063	e.332	.051
8	---	---	---	---	---	---	---	---	---	.061	.184	.060
9	---	---	---	---	---	---	---	---	---	.056	.149	.067
10	---	---	---	---	---	---	---	---	---	.053	.116	e.400
11	---	---	---	---	---	---	---	---	---	.050	.110	e.150
12	---	---	---	---	---	---	---	---	---	.044	.095	e.200
13	---	---	---	---	---	---	---	---	---	.042	.166	e.150
14	---	---	---	---	---	---	---	---	---	.043	.520	e.150
15	---	---	---	---	---	---	---	---	---	.041	.893	e.250
16	---	---	---	---	---	---	---	---	---	.043	.489	e.300
17	---	---	---	---	---	---	---	---	---	.049	.139	e.200
18	---	---	---	---	---	---	---	---	---	.042	.076	e.160
19	---	---	---	---	---	---	---	---	---	.054	.078	.146
20	---	---	---	---	---	---	---	---	---	.050	.076	.131
21	---	---	---	---	---	---	---	---	---	.028	.109	.119
22	---	---	---	---	---	---	---	---	---	.036	.102	.109
23	---	---	---	---	---	---	---	---	---	.083	.041	.104
24	---	---	---	---	---	---	---	---	---	.075	.038	.152
25	---	---	---	---	---	---	---	---	---	.074	.036	.223
26	---	---	---	---	---	---	---	---	---	.070	.027	.204
27	---	---	---	---	---	---	---	---	---	.070	.026	.191
28	---	---	---	---	---	---	---	---	---	.071	.021	.172
29	---	---	---	---	---	---	---	---	---	.072	.349	.161
30	---	---	---	---	---	---	---	---	---	.116	.150	.153
31	---	---	---	---	---	---	---	---	---	.117	.064	---
TOTAL	---	---	---	---	---	---	---	---	---	2.068	5.416	4.337
MEAN	---	---	---	---	---	---	---	---	---	.067	.17	.14
MAX	---	---	---	---	---	---	---	---	---	.349	.893	.400
MIN	---	---	---	---	---	---	---	---	---	.021	.064	.051

e Estimated

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION  
 SUMMARY OF DISCHARGE MEASUREMENT DATA

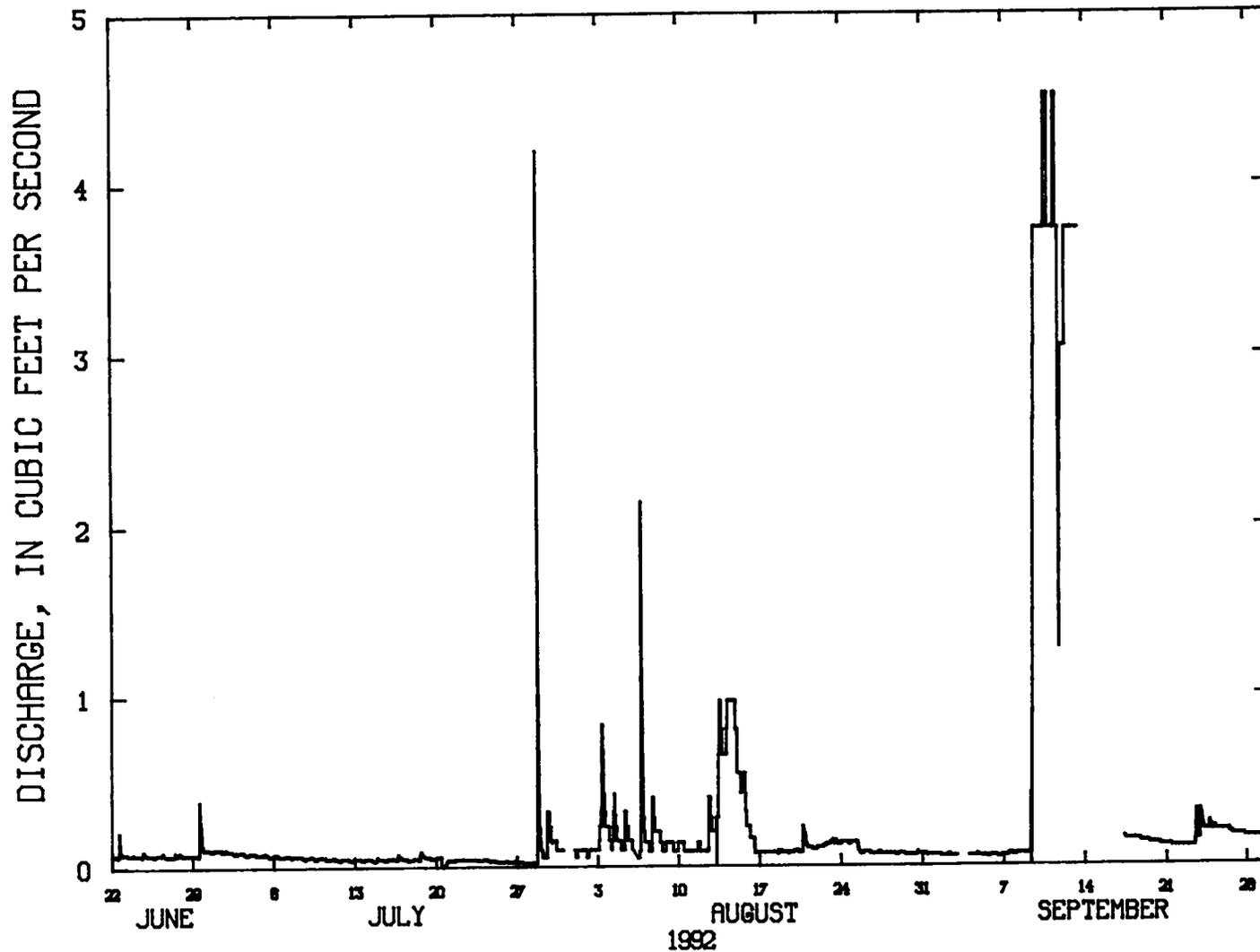
02245924

DATE PROCESSED: 16-OCT-92 08:

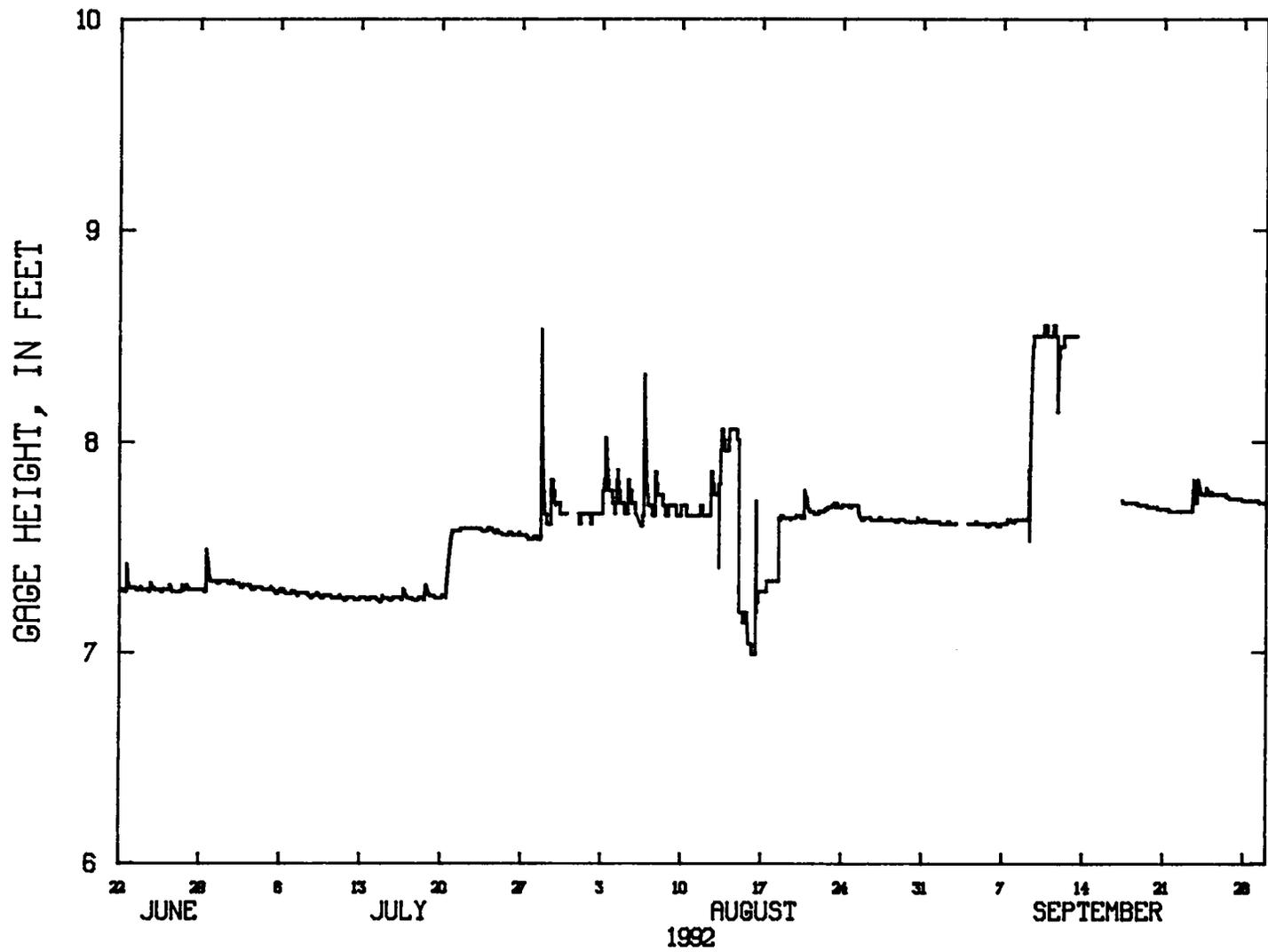
SITE 2 OUTFLOW DITCH NR MAXVILLE, FL

\*\*\*\*\*  
 NO. \* DATE \* MADE BY \* WIDTH \* AREA \* MEAN \* GAGE \* DISCHARGE \* SHIFT \* PCT. \* NO. \* GHT. \* TIME \* RATED \* CONTROL  
 \* TIME \* \* VEL. \* HEIGHT \* CFS \* ADJ. \* DIFF. \* SECT. \* CHG. \*  
 \*\*\*\*\*

1	07/10/92 1050	CVP/JES REMARKS: Mesured volumetrically at V-notch of weir.				7.27	0.05						P	CLEAR
2	08/07/92 1139	CVP/JES REMARKS: Volumetric measurement.				7.61	0.05						P	CLEAR
3	08/26/92 1038	CVP/JES REMARKS: Volumetric measurement.				7.69	0.12				0.00	0.3	P	CLEAR
4	09/10/92 1120	MJS/CVP REMARKS: Volumetric measurement.				7.80	0.29				0.00	0.2	P	CLEAR



— 02245924 SITE 2 OUTFLOW DITCH NR MAXVILLE, FL  
INSTANTANEOUS DISCHARGE (GFS)



— 02245924 SITE 2 OUTFLOW DITCH NR MAXVILLE, FL  
INSTANTANEOUS GAGE HEIGHT (FEET), EDITED

1992  
Florida

STATION ANALYSIS

02245926 Rowell Creek abv. Perimeter Road Bridge near Maxville, FL

PERIOD OF ANALYSIS: June 10, 1992 to September 30, 1992.

EQUIPMENT: BDR 301 datalogger with shaft encoder.

GAGE HEIGHT: The BDR 301 provided complete and satisfactory record for the  
period of analysis.

Prepared by: J.E. Sohm  
Checked by: R.A. Craig

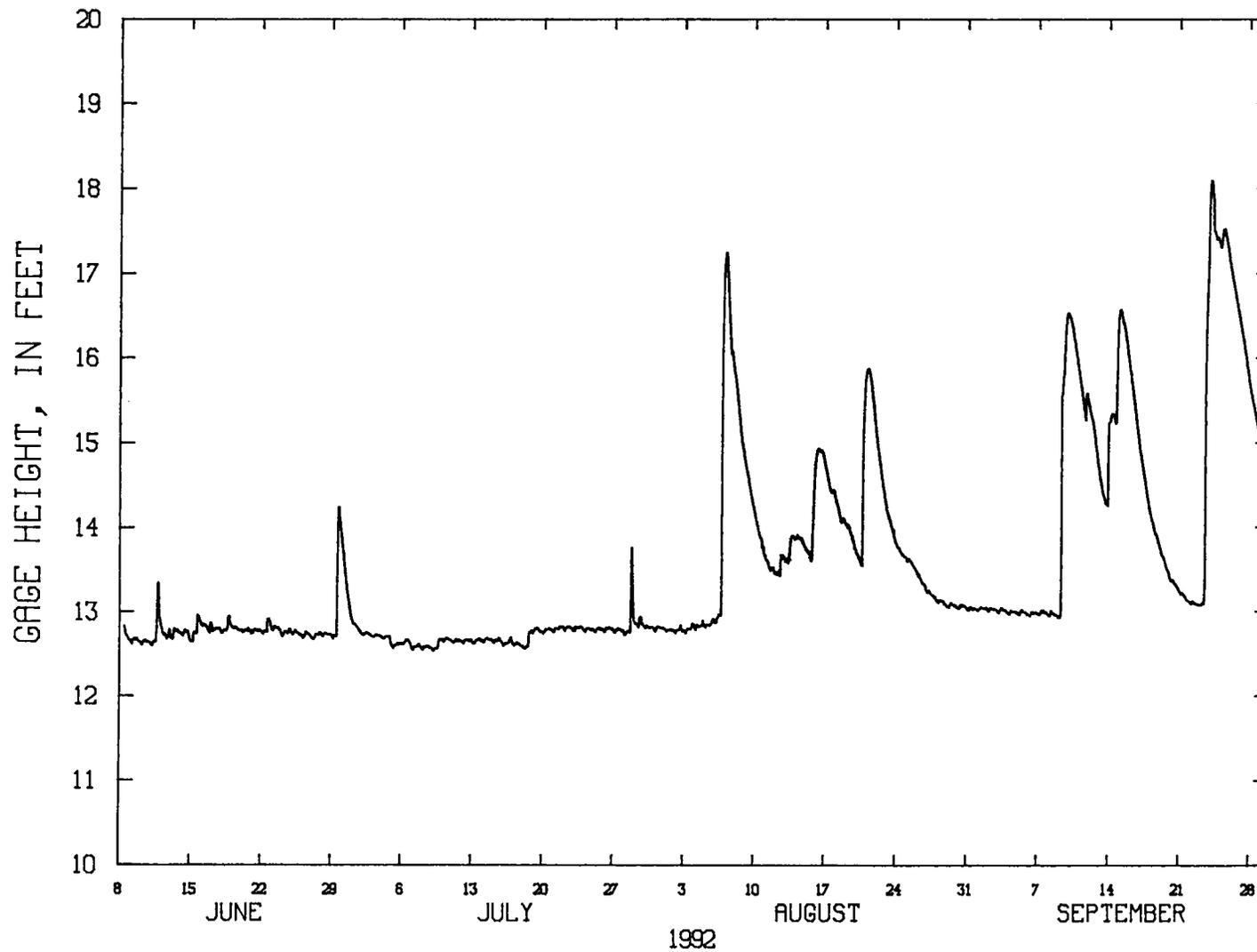
UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - ORLANDO

10/16/92

STATION NUMBER 02245926 ROWELL CR AB PER RD BRIDGE NR MAXVILLE, FL STREAM SOURCE AGENCY USGS  
 LATITUDE 301238 LONGITUDE 0815352 DRAINAGE AREA 0.00 DATUM STATE 12 COUNTY 031  
 PROVISIONAL DATA SUBJECT TO REVISION

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	13.42	12.80	13.03
2	---	---	---	---	---	---	---	---	---	12.83	12.78	13.03
3	---	---	---	---	---	---	---	---	---	12.73	12.78	13.02
4	---	---	---	---	---	---	---	---	---	12.71	12.79	13.01
5	---	---	---	---	---	---	---	---	---	12.69	12.83	12.99
6	---	---	---	---	---	---	---	---	---	12.60	12.84	12.99
7	---	---	---	---	---	---	---	---	---	12.63	13.46	12.97
8	---	---	---	---	---	---	---	---	---	12.58	16.61	12.98
9	---	---	---	---	---	---	---	---	---	12.57	15.38	12.96
10	---	---	---	---	---	---	---	---	12.65	12.58	14.54	14.88
11	---	---	---	---	---	---	---	---	12.63	12.66	13.96	16.28
12	---	---	---	---	---	---	---	---	12.78	12.65	13.56	15.57
13	---	---	---	---	---	---	---	---	12.75	12.65	13.52	15.18
14	---	---	---	---	---	---	---	---	12.74	12.65	13.72	14.44
15	---	---	---	---	---	---	---	---	12.73	12.66	13.87	15.37
16	---	---	---	---	---	---	---	---	12.77	12.65	13.78	16.36
17	---	---	---	---	---	---	---	---	12.82	12.63	14.85	15.54
18	---	---	---	---	---	---	---	---	12.80	12.61	14.54	14.64
19	---	---	---	---	---	---	---	---	12.80	12.63	14.18	14.01
20	---	---	---	---	---	---	---	---	12.80	12.78	13.94	13.61
21	---	---	---	---	---	---	---	---	12.77	12.78	13.98	13.34
22	---	---	---	---	---	---	---	---	12.77	12.79	15.66	13.18
23	---	---	---	---	---	---	---	---	12.80	12.81	14.73	13.10
24	---	---	---	---	---	---	---	---	12.79	12.80	14.05	14.27
25	---	---	---	---	---	---	---	---	12.75	12.79	13.71	17.66
26	---	---	---	---	---	---	---	---	12.74	12.79	13.58	17.39
27	---	---	---	---	---	---	---	---	12.72	12.79	13.38	16.83
28	---	---	---	---	---	---	---	---	12.71	12.78	13.21	16.14
29	---	---	---	---	---	---	---	---	12.73	12.91	13.11	15.42
30	---	---	---	---	---	---	---	---	13.17	12.88	13.07	14.81
31	---	---	---	---	---	---	---	---	---	12.81	13.06	---
TOTAL	---	---	---	---	---	---	---	---	---	394.84	428.27	435.00
MEAN	---	---	---	---	---	---	---	---	---	12.74	13.82	14.50
MAX	---	---	---	---	---	---	---	---	---	13.42	16.61	17.66
MIN	---	---	---	---	---	---	---	---	---	12.57	12.78	12.96



— 02245926 ROWELL CR AB PER RD BRIDGE NR MAXVILLE, FL  
INSTANTANEOUS GAGE HEIGHT (FEET), EDITED

1992  
Florida

STATION ANALYSIS

02245927 Rowell Creek near Maxville, Florida

PERIOD OF ANALYSIS: June 17, 1992 to September 30, 1992.

EQUIPMENT: BDR 301 datalogger with shaft encoder. Outside staff gage for comparison and verification.

The datalogger provided a complete record for the period. The orifice was found sanded in on Aug. 17, Aug. 19, and Sept. 1.

Gage height corrections were used Aug. 13 to Aug. 19 and from Aug. 22 to Sept. 1, based on USGS observations and trend of the stream before and after orifice sanded over.

MEASUREMENTS: Six discharge measurements, Nos. 1-6 were made during the period. They ranged in stage from 1.85 to 6.43 ft, and in discharge from 4.59 to 175 cfs. Enclosed is a printout of the measurement summary.

DISCHARGE: The low water control at this site is a rip-rap bag weir located about 50 ft downstream from the gage. Medium and high flows are controlled by the bridge opening and backwater from Sal Taylor Creek.

Measurements 1,2,4, and 6 were used to define rating No. 1. These measurements define the general shape of the rating if unaffected by backwater and will be used until further information is collected to define a slope rating. Discharges for June 17 to Aug. 15 are unaffected by backwater. Periods of obvious backwater are as follows:

<u>Date</u>	<u>Method of Adjustment</u>
8/16-20	shifting technique based on measurements 4 & 5
9/10-23	shifting technique based on measurement 6

After shifts were applied hydrographic comparison was made with Rowell Creek at Lake Fretwell Dam for verification.

Prepared by: J.E. Sohm  
Checked by: R.A. Craig

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - ORLANDO

10/16/92

STATION NUMBER 02245927 ROWELL CREEK NR MAXVILLE, FL STREAM SOURCE AGENCY USGS  
 LATITUDE 301229 LONGITUDE 0815351 DRAINAGE AREA 8.7 DATUM STATE 12 COUNTY 031  
 PROVISIONAL DATA SUBJECT TO REVISION  
 DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	25	6.3	7.5
2	---	---	---	---	---	---	---	---	---	8.9	6.1	7.3
3	---	---	---	---	---	---	---	---	---	6.1	6.1	7.1
4	---	---	---	---	---	---	---	---	---	5.4	6.2	7.0
5	---	---	---	---	---	---	---	---	---	5.2	6.5	6.9
6	---	---	---	---	---	---	---	---	---	4.6	6.7	6.9
7	---	---	---	---	---	---	---	---	---	4.8	23	6.8
8	---	---	---	---	---	---	---	---	---	4.5	129	6.8
9	---	---	---	---	---	---	---	---	---	4.5	79	6.7
10	---	---	---	---	---	---	---	---	---	4.6	44	28
11	---	---	---	---	---	---	---	---	---	5.1	24	91
12	---	---	---	---	---	---	---	---	---	5.0	16	62
13	---	---	---	---	---	---	---	---	---	5.0	15	52
14	---	---	---	---	---	---	---	---	---	5.0	19	32
15	---	---	---	---	---	---	---	---	---	5.1	23	76
16	---	---	---	---	---	---	---	---	---	5.0	20	118
17	---	---	---	---	---	---	---	---	---	5.0	42	86
18	---	---	---	---	---	---	---	---	5.8	5.0	32	47
19	---	---	---	---	---	---	---	---	6.0	5.0	25	26
20	---	---	---	---	---	---	---	---	6.0	6.7	22	17
21	---	---	---	---	---	---	---	---	5.6	5.9	30	12
22	---	---	---	---	---	---	---	---	5.6	6.0	97	10
23	---	---	---	---	---	---	---	---	6.3	6.1	54	9.1
24	---	---	---	---	---	---	---	---	6.1	6.0	27	42
25	---	---	---	---	---	---	---	---	5.6	5.9	18	172
26	---	---	---	---	---	---	---	---	5.9	5.9	15	184
27	---	---	---	---	---	---	---	---	5.4	5.9	12	155
28	---	---	---	---	---	---	---	---	5.4	5.8	9.6	123
29	---	---	---	---	---	---	---	---	5.9	9.5	8.7	86
30	---	---	---	---	---	---	---	---	18	9.0	8.3	59
31	---	---	---	---	---	---	---	---	---	7.1	8.2	---
TOTAL	---	---	---	---	---	---	---	---	---	198.6	838.7	1550.1
MEAN	---	---	---	---	---	---	---	---	---	6.41	27.1	51.7
MAX	---	---	---	---	---	---	---	---	---	25	129	184
MIN	---	---	---	---	---	---	---	---	---	4.5	6.1	6.7
CFSM	---	---	---	---	---	---	---	---	---	.74	3.11	5.94
IN.	---	---	---	---	---	---	---	---	---	.85	3.59	6.63

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION  
 SUMMARY OF DISCHARGE MEASUREMENT DATA

02245927

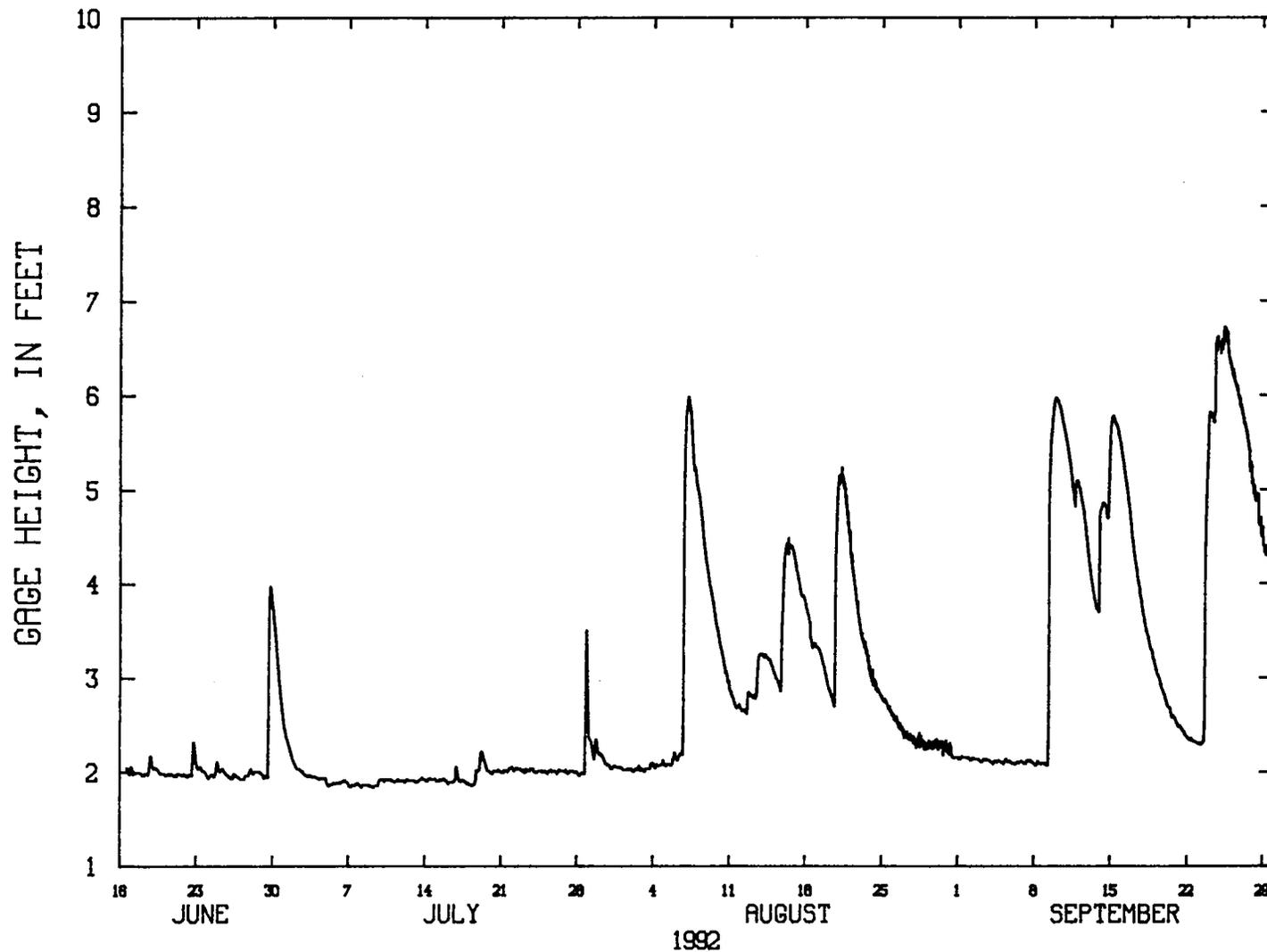
ROWELL CREEK NR MAXVILLE, FL

1992 WATER YEAR

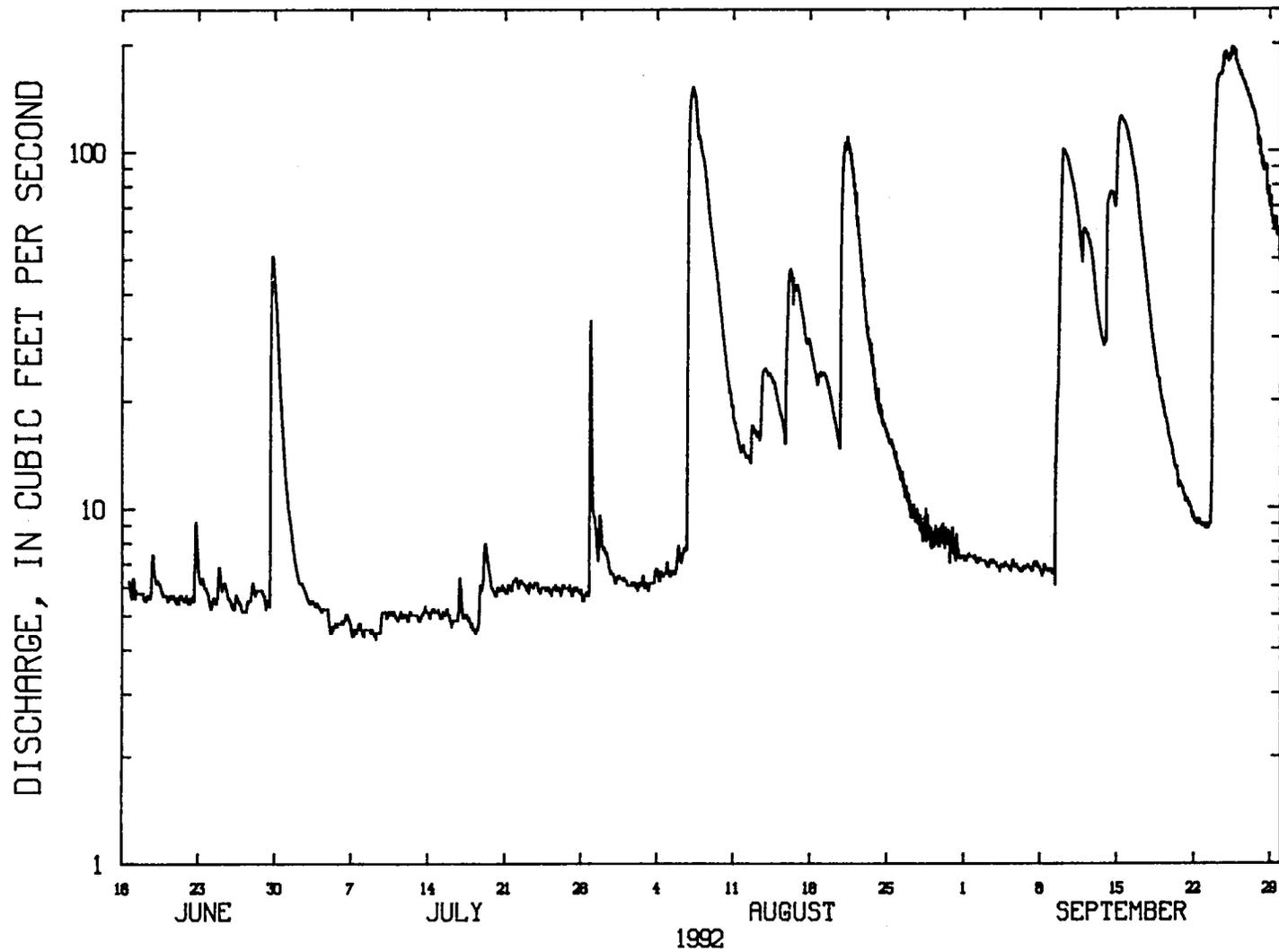
DATE PROCESSED: 16-OCT-92 08:

```
*****
NO. * DATE * MADE BY * WIDTH * AREA * MEAN * GAGE * DISCHARGE * SHIFT * PCT. * NO. * GHT. * TIME * RATED * CONTROL
   * TIME *           *          *      *     *   *     *      *     *     *     *     *     *     *
*****
```

NO.	DATE	MADE BY	WIDTH	AREA	MEAN	GAGE	DISCHARGE	SHIFT	PCT.	NO.	GHT.	TIME	RATED	CONTROL
1	07/10/92 0955	CVP/JES	9.20	8.41	0.55	1.85	4.59			24	0.00	0.4	P	CLEAR
			REMARKS: PS2 orifice set @ GH of 0.65ft.											
2	07/31/92 0910	CVP/JES	14.5	11.8	0.62	2.16	7.36			21	0.00	0.3	P	CLEAR
3	08/17/92 1010	CVP/JES	31.5	63.8	0.64	4.43	41.1			26	0.00	0.4	F	CLEAR
			REMARKS: Found orifice sanded-in; BDR sh/be 4.30 @ 1100.											
4	08/19/92 1110	CVP/JES	28.0	40.6	0.75	3.57	30.7			25	-0.01	0.4	F	CLEAR
			REMARKS: Orifice sanded-in; BDR sh/be 3.43 @ 1105.											
5	09/10/92 1450	CVP/MJS	34.0	122.	0.18	5.65	22.1			23	+0.04	0.8	F	CLEAR
			REMARKS: Appears to be under backwater from Sal Taylor creek.											
6	09/25/92 1350	cvp/jes	35.0	137.	1.28	6.36	175			25	-0.04	0.7	G	CLEAR
			REMARKS: RESET PRESSURE TRANSDUCER											



— 02245927 ROWELL CREEK NR MAXVILLE, FL  
INSTANTANEOUS GAGE HEIGHT (FEET), EDITED



— 02245927 ROWELL CREEK NR MAXVILLE, FL  
INSTANTANEOUS DISCHARGE (CFS)

1992  
Florida

STATION ANALYSIS

02245913 Sal Taylor near Maxville, Florida

PERIOD OF ANALYSIS: June 17, 1992 to September 30, 1992.

EQUIPMENT: PS-2 pressure transducer with CR10 electronic datalogger. Outside staff gage for comparison and verification. Telemetry provided by cellular phone. Auxiliary staff gage located downstream of dam structure.

The gage height data was complete and satisfactory except for June 17-23, when the PS-2 pressure transducer was drifting and Aug. 23-26, Sept. 10-19, and Sept. 24-30, when the orifice was plugged.

MEASUREMENTS: Eight discharge measurements, Nos. 1-8, and one point of zero flow were made during the period of analysis. They ranged in stage from 2.65 to 8.87 ft and in discharge from 6.89 to 374 cfs.

DISCHARGE: The control at this site consists of a dam with three 4 ft culvert pipes with gates at each entrance and seven 2.5 ft siphon tubes which flow at a stage of about 6.0 ft. Flow over the road occurs at about 8.5 ft.

The gates were fixed during the period of this analysis.

Measurement Nos. 1-8 were used to develop rating No. 1 which was used direct during the entire period. They checked the rating within 3.7 percent.

Mean daily discharges for periods of no gage height record, June 17-23, Aug. 23-26, Sept. 10-19, and Sept. 24-30, were estimated based on the trend of the stream and by hydrographic comparison with the Rowell Creek near Fiftone gage.

Prepared by: J.E. Sohm  
Checked by: R.A. Craig

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - ORLANDO

10/16/92

STATION NUMBER 02245913 SAL TAYLOR CREEK NEAR MAXVILLE, FL STREAM SOURCE AGENCY USGS  
 LATITUDE 301227 LONGITUDE 0815327 DRAINAGE AREA 15.7 DATUM STATE 12 COUNTY 031  
 PROVISIONAL DATA SUBJECT TO REVISION  
 DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	62	9.2	10
2	---	---	---	---	---	---	---	---	---	28	7.8	9.0
3	---	---	---	---	---	---	---	---	---	e20	7.4	8.1
4	---	---	---	---	---	---	---	---	---	e15	7.6	7.9
5	---	---	---	---	---	---	---	---	---	10	9.3	7.9
6	---	---	---	---	---	---	---	---	---	9.0	9.1	8.4
7	---	---	---	---	---	---	---	---	---	8.3	24	7.9
8	---	---	---	---	---	---	---	---	---	7.7	58	8.0
9	---	---	---	---	---	---	---	---	---	8.4	33	7.8
10	---	---	---	---	---	---	---	---	---	6.8	e25	e212
11	---	---	---	---	---	---	---	---	---	6.3	e20	e195
12	---	---	---	---	---	---	---	---	---	6.1	e15	e90
13	---	---	---	---	---	---	---	---	---	5.9	11	e66
14	---	---	---	---	---	---	---	---	---	5.6	19	e54
15	---	---	---	---	---	---	---	---	---	5.4	25	e51
16	---	---	---	---	---	---	---	---	---	5.6	28	e101
17	---	---	---	---	---	---	---	---	e15	8.9	67	e132
18	---	---	---	---	---	---	---	---	e14	12	48	e80
19	---	---	---	---	---	---	---	---	13	8.4	35	e48
20	---	---	---	---	---	---	---	---	13	17	30	32
21	---	---	---	---	---	---	---	---	e12	7.8	38	26
22	---	---	---	---	---	---	---	---	e12	7.8	63	23
23	---	---	---	---	---	---	---	---	e11	9.2	51	20
24	---	---	---	---	---	---	---	---	11	6.8	43	e80
25	---	---	---	---	---	---	---	---	10	6.6	32	e282
26	---	---	---	---	---	---	---	---	14	6.0	21	e166
27	---	---	---	---	---	---	---	---	10	5.7	16	e94
28	---	---	---	---	---	---	---	---	10	5.7	13	e65
29	---	---	---	---	---	---	---	---	14	16	12	e48
30	---	---	---	---	---	---	---	---	39	21	11	e35
31	---	---	---	---	---	---	---	---	---	16	10	---
TOTAL	---	---	---	---	---	---	---	---	---	365.0	798.4	1975.0
MEAN	---	---	---	---	---	---	---	---	---	11.8	25.8	65.8
MAX	---	---	---	---	---	---	---	---	---	62	67	282
MIN	---	---	---	---	---	---	---	---	---	5.4	7.4	7.8
CFSM	---	---	---	---	---	---	---	---	---	.75	1.64	4.19
IN.	---	---	---	---	---	---	---	---	---	.86	1.89	4.68

e Estimated

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION  
 SUMMARY OF DISCHARGE MEASUREMENT DATA

02245913

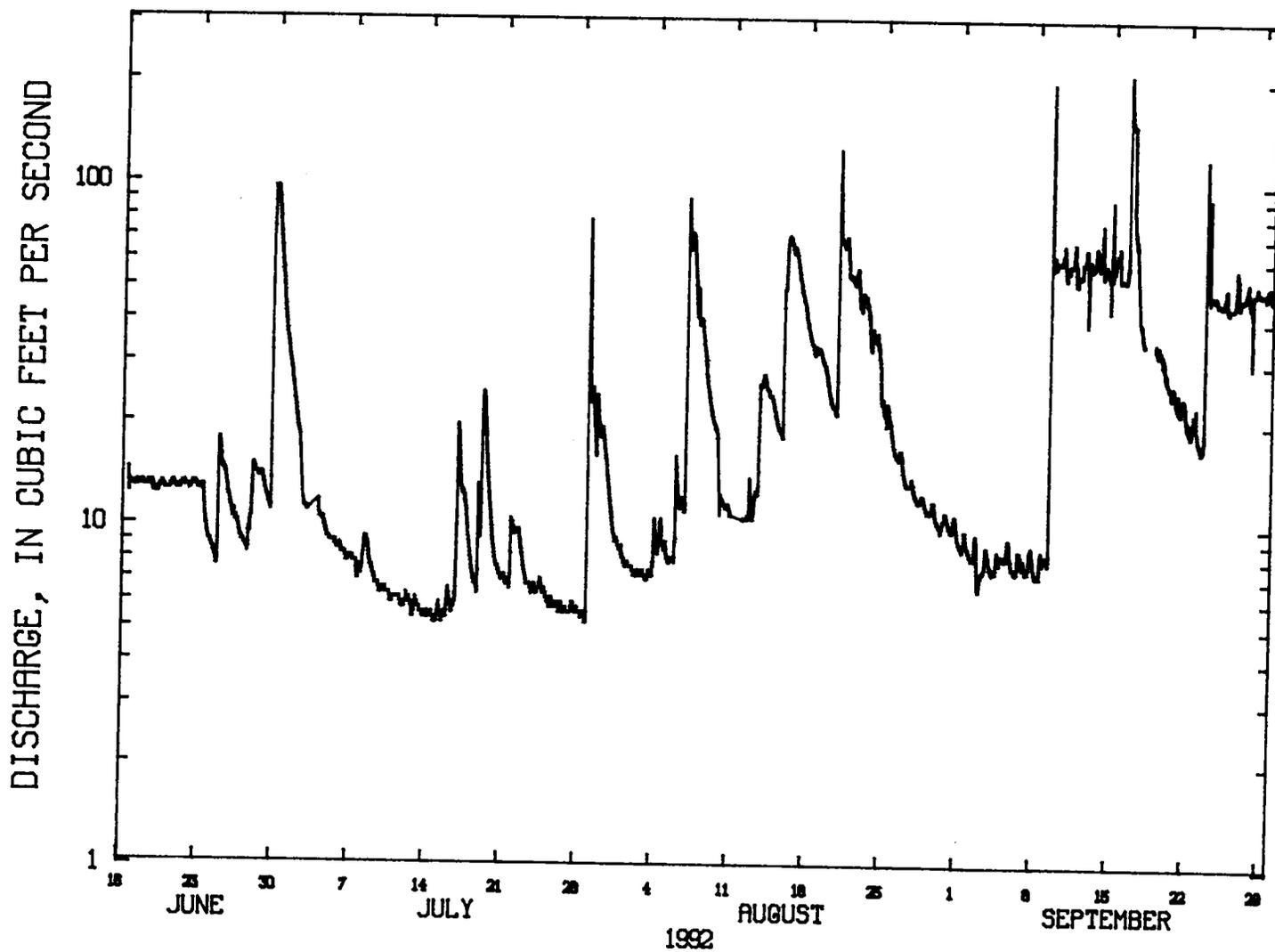
SAL TAYLOR CREEK NEAR MAXVILLE, FL

1992 WATER YEAR

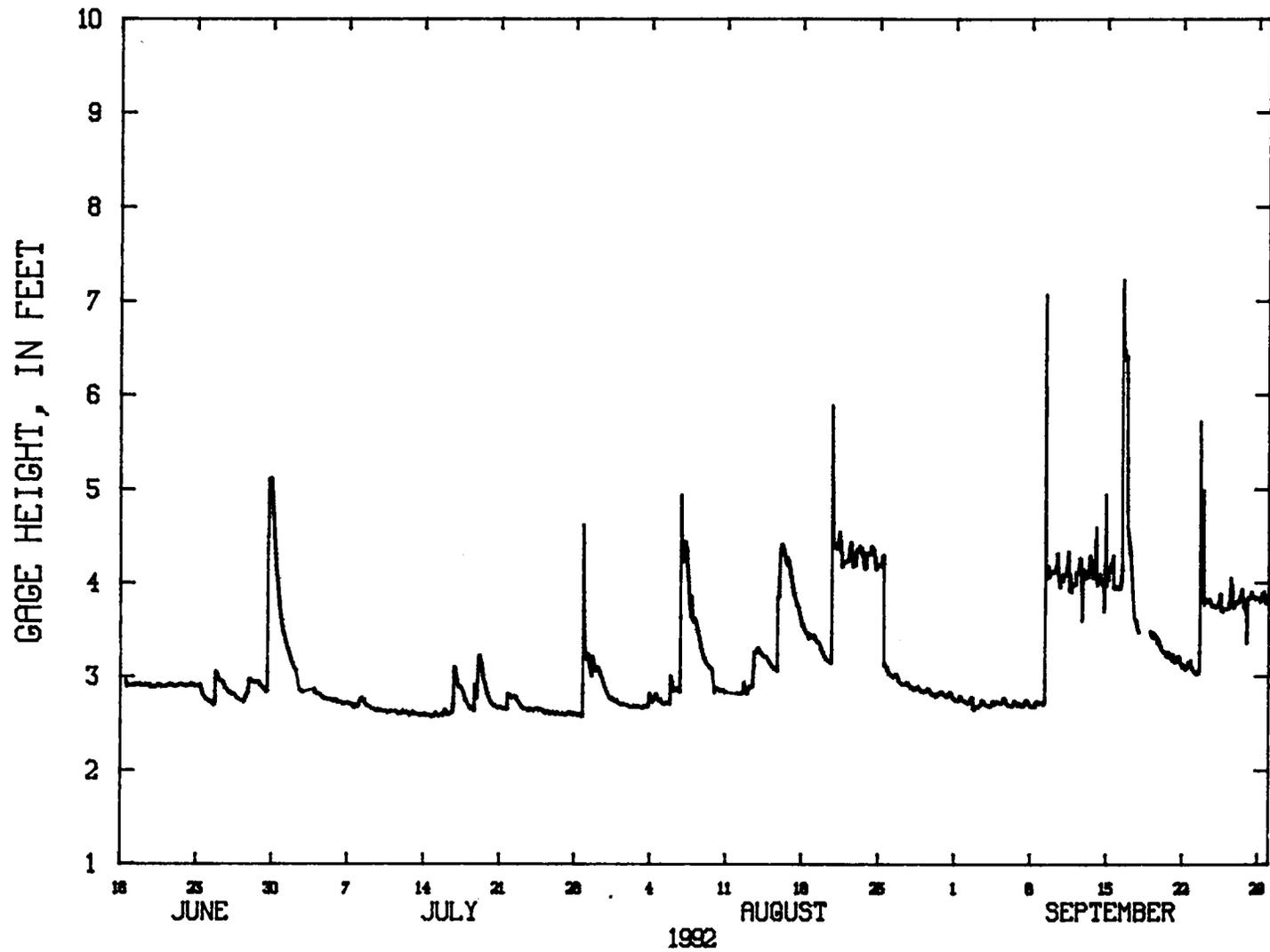
DATE PROCESSED: 16-OCT-92 08:

\*\*\*\*\*  
 NO. \* DATE \* MADE BY \* WIDTH \* AREA \* MEAN \* GAGE \* DISCHARGE \* SHIFT \* PCT. \* NO. \* GHT. \* TIME \* RATED \* CONTROL  
 \* TIME \* \* VEL. \* HEIGHT \* CFS \* ADJ. \* DIFF. \* SECT. \* CHG. \*  
 \*\*\*\*\*

NO.	DATE	MADE BY	WIDTH	AREA	MEAN VEL.	GAGE HEIGHT	DISCHARGE CFS	SHIFT ADJ.	PCT. DIFF.	NO. SECT.	GHT. CHG.	TIME	RATED	CONTROL
1	07/10/92 0845	CVP/JES	17.0	10.6	0.65	2.65	6.89			25	0.00	0.4	F	CLEAR
		REMARKS: PZF 2.05												
2	07/23/92 1225	CVP/JES	23.0	14.5	0.67	2.78	9.64			23	0.00	0.5	F	CLEAR
		REMARKS: GATES ABOVE WATER												
3	07/31/92 1015	CVP/JES	22.6	20.0	0.81	3.00	16.2			22	0.00	0.5	F	CLEAR
		REMARKS: WADING 300 FT BELOW GAGE												
4	08/17/92 1120	CVP/JES	24.0	64.6	1.03	4.26	66.4			23	-0.03	0.8	G	
5	08/19/92 1022	CVP/JES	22.0	42.0	0.82	3.46	34.3			23	0.00	0.4	G	
6	09/10/92 1305	CVP/MJS	33.0	188.	1.92	8.87	374			45	+0.04	0.8	F	
		REMARKS: WIDTH/AREA/MEAN VEL ARE MAIN CHANNEL ONLY												
7	09/17/92 1138	CVP/JES		25.6	5.16	6.02	132			9	0.00	0.1	F	
		REMARKS: DWNSTR SIDE CULVERTS												
8	09/25/92 1323	CVP/JES		61.3	4.61	8.12	283			16	0.00	0.4	P	
		REMARKS: 7 SIPHONS FLOWING												



— 02245913 SAL TAYLOR CREEK NEAR MAXVILLE, FL  
INSTANTANEOUS DISCHARGE (CFS)



— 02245913 SAL TAYLOR CREEK NEAR MAXVILLE, FL  
INSTANTANEOUS GAGE HEIGHT (FEET), STAGE, EDITED

1992  
Florida

STATION ANALYSIS

Confluence Sites 1 and 2

PERIOD OF ANALYSIS: June to September 30, 1992.

EQUIPMENT: Compound weir with outside staff gage.

MEASUREMENTS: Four discharge measurements, Nos. 1-4 were made during the period. Volumetric measurements are taken as the average of two or more individual collections.

<u>Date</u>	<u>Measured in cfs</u>	<u>Method</u>	<u>Remarks</u>
July 10	0.062	Volumetric	Prototype measuring device
Aug. 7	0.073	Volumetric	New measuring device
Aug. 26	0.116	Volumetric	PZF = 7.39 ft
Sep. 10	1.38	Metered	Measured 10 ft below weir

DISCHARGE: The measurements are made as a check on measurements made at Sites 1 and 2 located about 50 ft upstream and to account for any inflow between the confluence and the sites upstream. A comparison is shown below:

<u>Date</u>	<u>Site 1</u>	<u>&amp; Site 2</u>	<u>Total</u>	<u>Confluence</u>	<u>Difference</u>
July 10	0.001	0.054	0.055	.062	+ .007
Aug 7	0.007	0.047	0.054	.073	+ .019
Aug 26	.003	0.124	0.127	.116	- .011
Sep 10	0.810	0.292	1.102	1.38	+ 0.278

Prepared by: J.E. Sohm  
Checked by: R.A. Craig

06/16/92 Analytical Result Report 15:15:15  
Validated data

Lab Sample Number:  
Site  
Locator  
Collect Date:

21584005  
CECIL  
16-BK-1  
29-APR-92

21584004  
CECIL  
16-SS-1  
29-APR-92

21584008  
CECIL  
16-SS-2  
29-APR-92

21584M08  
CECIL  
16-SS-2MS  
29-APR-92

	VALUE	QUAL	UNITS	DL												
<b>CLP VOLATILE COMPOUNDS</b>																
Chloromethane	10	U	ug/kg	10												
Bromomethane	10	U	ug/kg	10												
Vinyl Chloride	10	U	ug/kg	10												
Chloroethane	10	U	ug/kg	10												
Methylene Chloride	120		ug/kg	5	26	U	ug/kg	5	29	U	ug/kg	5	29	U	ug/kg	5
Acetone	35		ug/kg	10	15	U	ug/kg	10	10	U	ug/kg	10	10	U	ug/kg	10
Carbon Disulfide	5	U	ug/kg	5												
1,1-Dichloroethene	5	U	ug/kg	5												
1,1-Dichloroethane	5	U	ug/kg	5												
1,2-Dichloroethene (total)	5	U	ug/kg	5												
Chloroform	5	U	ug/kg	5												
1,2-Dichloroethane	5	U	ug/kg	5												
2-Butanone	10	U	ug/kg	10												
1,1,1-Trichloroethane	5	U	ug/kg	5												
Carbon tetrachloride	5	U	ug/kg	5												
Vinyl Acetate	10	U	ug/kg	10												
Bromodichloromethane	5	U	ug/kg	5												
1,2-Dichloropropane	5	U	ug/kg	5												
cis-1,3-Dichloropropene	5	U	ug/kg	5												
Trichloroethene	5	U	ug/kg	5												
Dibromochloromethane	5	U	ug/kg	5												
1,1,2-Trichloroethane	5	U	ug/kg	5												
Benzene	5	U	ug/kg	5												
trans-1,3-Dichloropropene	5	U	ug/kg	5												
Bromoform	5	U	ug/kg	5												
4-Methyl-2-pentanone	10	U	ug/kg	10												
2-Hexanone	10	U	ug/kg	10												
Tetrachloroethene	5	U	ug/kg	5												
Toluene	14		ug/kg	5	1	J	ug/kg	5	3	J	ug/kg	5	5	U	ug/kg	5
1,1,2,2-Tetrachloroethane	5	U	ug/kg	5												
Chlorobenzene	5	U	ug/kg	5												
Ethyl Benzene	3	J	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5
Styrene	5	U	ug/kg	5												
Xylenes (total)	25		ug/kg	5	4	J	ug/kg	5	5	U	ug/kg	5	2	J	ug/kg	5

U = NOT DETECTED R = RESULT IS REJECTED AND UNUSABLE  
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

06/16/92 Analytical Result Report 15:15:15  
Validated data

Lab Sample Number:  
Site  
Locator  
Collect Date:

21584D08  
CECIL  
16-SS-2MSD  
29-APR-92

21584006  
CECIL  
16-SS-3  
29-APR-92

21584007  
CECIL  
16-SS-4  
29-APR-92

21584001  
CECIL  
EQUIPMENT  
29-APR-92

	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	
CLP VOLATILE COMPOUNDS													
Chloromethane	10	U	ug/kg	10	U	ug/kg	10	U	ug/kg	10	U	ug/l	10
Bromomethane	10	U	ug/kg	10	U	ug/kg	10	U	ug/kg	10	U	ug/l	10
Vinyl Chloride	10	U	ug/kg	10	U	ug/kg	10	U	ug/kg	10	U	ug/l	10
Chloroethane	10	U	ug/kg	10	U	ug/kg	10	U	ug/kg	10	U	ug/l	10
Methylene Chloride	20	U	ug/kg	5	29	U	ug/kg	5	49	U	ug/kg	5	5
Acetone	10	U	ug/kg	10	U	ug/kg	10	U	ug/kg	10	U	ug/l	10
Carbon Disulfide	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
1,1-Dichloroethene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
1,1-Dichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
1,2-Dichloroethene (total)	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
Chloroform	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
1,2-Dichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
2-Butanone	10	U	ug/kg	10	10	U	ug/kg	10	10	U	ug/kg	10	10
1,1,1-Trichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
Carbon tetrachloride	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
Vinyl Acetate	10	U	ug/kg	10	10	U	ug/kg	10	10	U	ug/kg	10	10
Bromodichloromethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
1,2-Dichloropropane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
cis-1,3-Dichloropropene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
Trichloroethene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
Dibromochloromethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
1,1,2-Trichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
Benzene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
trans-1,3-Dichloropropene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
Bromoform	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
4-Methyl-2-pentanone	10	U	ug/kg	10	10	U	ug/kg	10	10	U	ug/kg	10	10
2-Hexanone	10	U	ug/kg	10	10	U	ug/kg	10	10	U	ug/kg	10	10
Tetrachloroethene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
Toluene	5	U	ug/kg	5	3	J	ug/kg	5	5	J	ug/kg	5	5
1,1,2,2-Tetrachloroethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
Chlorobenzene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
Ethyl Benzene	5	U	ug/kg	5	1	J	ug/kg	5	2	J	ug/kg	5	5
Styrene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	5
Xylenes (total)	1	J	ug/kg	5	7	U	ug/kg	5	21	U	ug/kg	5	5

U = NOT DETECTED R = RESULT IS REJECTED AND UNUSABLE  
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

06/16/92 Analytical Result Report 15:15:15  
Validated data

Lab Sample Number:  
Site  
Locator  
Collect Date:

21584003  
CECIL  
FIELD\_BLK  
29-APR-92

21584002  
CECIL  
TRIP BLANK  
29-APR-92

Y05112B1  
CECIL  
VBLKS  
11-MAY-92

Y05122B1  
CECIL  
VBLKS 2  
12-MAY-92

	VALUE	QUAL	UNITS	DL												
CLP VOLATILE COMPOUNDS																
Chloromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/kg	10	10	U	ug/kg	10
Bromomethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/kg	10	10	U	ug/kg	10
Vinyl Chloride	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/kg	10	10	U	ug/kg	10
Chloroethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/kg	10	10	U	ug/kg	10
Methylene Chloride	5	U	ug/l	5	5	U	ug/l	5	4	J	ug/kg	5	6		ug/kg	5
Acetone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/kg	10	9	J	ug/kg	10
Carbon Disulfide	5	U	ug/l	5	2	J	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
1,1-Dichloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
1,1-Dichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
1,2-Dichloroethene (total)	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Chloroform	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
1,2-Dichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
2-Butanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/kg	10	10	U	ug/kg	10
1,1,1-Trichloroethane	1	J	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Carbon tetrachloride	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Vinyl Acetate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/kg	10	10	U	ug/kg	10
Bromodichloromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
1,2-Dichloropropane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
cis-1,3-Dichloropropene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Trichloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Dibromochloromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
1,1,2-Trichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Benzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
trans-1,3-Dichloropropene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Bromoform	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
4-Methyl-2-pentanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/kg	10	10	U	ug/kg	10
2-Hexanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/kg	10	10	U	ug/kg	10
Tetrachloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Toluene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
1,1,2,2-Tetrachloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Chlorobenzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Ethyl Benzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Styrene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5
Xylenes (total)	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/kg	5	5	U	ug/kg	5

U = NOT DETECTED R = RESULT IS REJECTED AND UNUSABLE  
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

06/16/92 Analytical Result Report 15:15:15  
Validated data

Lab Sample Number: X05072B1  
Site: CECIL  
Locator: VBLKW  
Collect Date: 07-MAY-92

VALUE QUAL UNITS DL

CLP VOLATILE COMPOUNDS

Chloromethane	10 U	ug/l	10
Bromomethane	10 U	ug/l	10
Vinyl Chloride	10 U	ug/l	10
Chloroethane	10 U	ug/l	10
Methylene Chloride	4 J	ug/l	5
Acetone	12	ug/l	10
Carbon Disulfide	5 U	ug/l	5
1,1-Dichloroethene	5 U	ug/l	5
1,1-Dichloroethane	5 U	ug/l	5
1,2-Dichloroethene (total)	5 U	ug/l	5
Chloroform	5 U	ug/l	5
1,2-Dichloroethane	5 U	ug/l	5
2-Butanone	10 U	ug/l	10
1,1,1-Trichloroethane	5 U	ug/l	5
Carbon tetrachloride	5 U	ug/l	5
Vinyl Acetate	10 U	ug/l	10
Bromodichloromethane	5 U	ug/l	5
1,2-Dichloropropane	5 U	ug/l	5
cis-1,3-Dichloropropene	5 U	ug/l	5
Trichloroethene	5 U	ug/l	5
Dibromochloromethane	5 U	ug/l	5
1,1,2-Trichloroethane	5 U	ug/l	5
Benzene	5 U	ug/l	5
trans-1,3-Dichloropropene	5 U	ug/l	5
Bromoform	5 U	ug/l	5
4-Methyl-2-pentanone	10 U	ug/l	10
2-Hexanone	10 U	ug/l	10
Tetrachloroethene	5 U	ug/l	5
Toluene	5 U	ug/l	5
1,1,2,2-Tetrachloroethane	5 U	ug/l	5
Chlorobenzene	5 U	ug/l	5
Ethyl Benzene	5 U	ug/l	5
Styrene	5 U	ug/l	5
Xylenes (total)	5 U	ug/l	5

U = NOT DETECTED R = RESULT IS REJECTED AND UNUSABLE  
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

06/16/92 Analytical Result Report 15:55:46  
Validated data

Lab Sample Number:  
Site  
Locator  
Collect Date:

21584005  
CECIL  
16-BK-1  
29-APR-92

21584004  
CECIL  
16-SS-1  
29-APR-92

21584008  
CECIL  
16-SS-2  
29-APR-92

21584M08  
CECIL  
16-SS-2MS  
29-APR-92

	VALUE	QUAL	UNITS	DL												
Butylbenzylphthalate	340	U	ug/kg	340	340	U	ug/kg	340	190	J	ug/kg	340	170	J	ug/kg	340
3,3'-Dichlorobenzidine	670	U	ug/kg	670	680	U	ug/kg	680	690	U	ug/kg	690	690	U	ug/kg	690
Benzo (a) anthracene	340	U	ug/kg	340	340	U	ug/kg	340	1000		ug/kg	340	130	J	ug/kg	340
Chrysene	340	U	ug/kg	340	340	U	ug/kg	340	1300		ug/kg	340	160	J	ug/kg	340
bis(2-Ethylhexyl) phthalate	340	U	ug/kg	340	69	J	ug/kg	340	470		ug/kg	340	460		ug/kg	340
Di-n-octylphthalate	340	U	ug/kg	340												
Benzo (b) fluoranthene	340	U	ug/kg	340	340	U	ug/kg	340	1100		ug/kg	340	160	J	ug/kg	340
Benzo (k) fluoranthene	340	U	ug/kg	340	340	U	ug/kg	340	920		ug/kg	340	160	J	ug/kg	340
Benzo (a) pyrene	340	U	ug/kg	340	340	U	ug/kg	340	1000		ug/kg	340	140	J	ug/kg	340
Indeno (1,2,3-cd) pyrene	340	U	ug/kg	340	340	U	ug/kg	340	670		ug/kg	340	110	J	ug/kg	340
Dibenz (a,h) anthracene	340	U	ug/kg	340	340	U	ug/kg	340	230	J	ug/kg	340	340	U	ug/kg	340
Benzo (g,h,i) perylene	340	U	ug/kg	340	340	U	ug/kg	340	670		ug/kg	340	120	J	ug/kg	340

~~6) R~~  
1) Need to check RAW DATA  
SOR 16 SS-2 / 16-SS-2MS / 16-SS-2MSD,  
~~16-SS-2~~ 16-SS-2 is usually twice the  
other two concentrations

U = NOT DETECTED  
J = ESTIMATED VA

06/16/92 Analytical Result Report 15:55:46  
Validated data

Lab Sample Number:	21584005	21584004	21584008								
Site	CECIL	CECIL	CECIL								
Locator	16-BK-1	16-SS-1	16-SS-2MS								
Collect Date:	29-APR-92	29-APR-92	29-APR-92								
VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL

CLP SEMIVOLATILES

Phenol	340 U	ug/kg	340									
bis(2-Chloroethyl) ether	340 U	ug/kg	340									
2-Chlorophenol	340 U	ug/kg	340									
1,3-Dichlorobenzene	340 U	ug/kg	340									
1,4-Dichlorobenzene	340 U	ug/kg	340									
Benzyl Alcohol	340 U	ug/kg	340									
1,2-Dichlorobenzene	340 U	ug/kg	340									
2-Methylphenol	340 U	ug/kg	340									
bis(2-Chloroisopropyl) ether	340 U	ug/kg	340									
4-Methylphenol	340 U	ug/kg	340									
N-Nitroso-di-n-propylamine	340 U	ug/kg	340									
Hexachloroethane	340 U	ug/kg	340									
Nitrobenzene	340 U	ug/kg	340									
Isophorone	340 U	ug/kg	340									
2-Nitrophenol	340 U	ug/kg	340									
2,4-Dimethylphenol	340 U	ug/kg	340									
Benzoic Acid	1600 U	ug/kg	1600	1600 U	ug/kg	1600	1700 U	ug/kg	1700	1700 U	ug/kg	1700
bis(2-Chloroethoxy) methane	340 U	ug/kg	340									
2,4-Dichlorophenol	340 U	ug/kg	340									
1,2,4-Trichlorobenzene	340 U	ug/kg	340									
Naphthalene	340 U	ug/kg	340	340 U	ug/kg	340	66 J	ug/kg	340	340 U	ug/kg	340
4-Chloroaniline	340 U	ug/kg	340									
Hexachlorobutadiene	340 U	ug/kg	340									
4-Chloro-3-methylphenol	340 U	ug/kg	340									
2-Methylnaphthalene	340 U	ug/kg	340	340 U	ug/kg	340	42 J	ug/kg	340	340 U	ug/kg	340
Hexachlorocyclopentadiene	340 U	ug/kg	340									
2,4,6-Trichlorophenol	340 U	ug/kg	340									
2,4,5-Trichlorophenol	1600 U	ug/kg	1600	1600 U	ug/kg	1600	1700 U	ug/kg	1700	1700 U	ug/kg	1700
2-Chloronaphthalene	340 U	ug/kg	340									
2-Nitroaniline	1600 U	ug/kg	1600	1600 U	ug/kg	1600	1700 U	ug/kg	1700	1700 U	ug/kg	1700
Dimethylphthalate	340 U	ug/kg	340									
Acenaphthylene	340 U	ug/kg	340									
2,6-Dinitrotoluene	340 U	ug/kg	340									
3-Nitroaniline	1600 U	ug/kg	1600	1600 U	ug/kg	1600	1700 U	ug/kg	1700	1700 U	ug/kg	1700
Acenaphthene	340 U	ug/kg	340	340 U	ug/kg	340	250 J	ug/kg	340	340 U	ug/kg	340
2,4-Dinitrophenol	1600 U	ug/kg	1600	1600 U	ug/kg	1600	1700 U	ug/kg	1700	1700 U	ug/kg	1700
4-Nitrophenol	1600 U	ug/kg	1600	1600 U	ug/kg	1600	1700 U	ug/kg	1700	1700 U	ug/kg	1700
Dibenzofuran	340 U	ug/kg	340	340 U	ug/kg	340	120 J	ug/kg	340	340 U	ug/kg	340
2,4-Dinitrotoluene	340 U	ug/kg	340									
Diethylphthalate	340 U	ug/kg	340									
4-Chlorophenyl-phenylether	340 U	ug/kg	340									
Fluorene	340 U	ug/kg	340	340 U	ug/kg	340	240 J	ug/kg	340	340 U	ug/kg	340
4-Nitroaniline	1600 U	ug/kg	1600	1600 U	ug/kg	1600	1700 U	ug/kg	1700	1700 U	ug/kg	1700
4,6-Dinitro-2-methylphenol	1600 U	ug/kg	1600	1600 U	ug/kg	1600	1700 U	ug/kg	1700	1700 U	ug/kg	1700
N-Nitrosodiphenylamine (1)	340 U	ug/kg	340									
4-Bromophenyl-phenylether	340 U	ug/kg	340									
Hexachlorobenzene	340 U	ug/kg	340									
Pentachlorophenol	1600 U	ug/kg	1600	1600 U	ug/kg	1600	1700 U	ug/kg	1700	1700 U	ug/kg	1700
Phenanthrene	340 U	ug/kg	340	340 U	ug/kg	340	2000	ug/kg	340	220 J	ug/kg	340
Anthracene	340 U	ug/kg	340	340 U	ug/kg	340	320 J	ug/kg	340	36 J	ug/kg	340
Di-n-butylphthalate	340 U	ug/kg	340	340 U	ug/kg	340	69 U	ug/kg	340	350 U	ug/kg	340
Fluoranthene	340 U	ug/kg	340	340 U	ug/kg	340	2400	ug/kg	340	350	ug/kg	340
Pyrene	340 U	ug/kg	340	340 U	ug/kg	340	2000	ug/kg	340	340 U	ug/kg	340

Validated data

Lab Sample Number:	21584008	21584006	21584007	21584001							
Site	CECIL	CECIL	CECIL	CECIL							
Locator	16-SS-2MSD	16-SS-3	16-SS-4	EQUIPMENT							
Collect Date:	29-APR-92	29-APR-92	29-APR-92	29-APR-92							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

## CLP SEMIVOLATILES

Phenol	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
bis(2-Chloroethyl) ether	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2-Chlorophenol	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
1,3-Dichlorobenzene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
1,4-Dichlorobenzene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Benzyl Alcohol	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
1,2-Dichlorobenzene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2-Methylphenol	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
bis(2-Chloroisopropyl) ether	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
4-Methylphenol	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
N-Nitroso-di-n-propylamine	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Hexachloroethane	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Nitrobenzene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Isophorone	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2-Nitrophenol	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2,4-Dimethylphenol	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Benzoic Acid	1700 U	ug/kg	1700	1700 U	ug/kg	1700	1600 U	ug/kg	1600	50 U	ug/l	50
bis(2-Chloroethoxy) methane	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2,4-Dichlorophenol	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
1,2,4-Trichlorobenzene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Naphthalene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
4-Chloroaniline	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Hexachlorobutadiene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
4-Chloro-3-methylphenol	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2-Methylnaphthalene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Hexachlorocyclopentadiene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2,4,6-Trichlorophenol	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2,4,5-Trichlorophenol	1700 U	ug/kg	1700	1700 U	ug/kg	1700	1600 U	ug/kg	1600	50 U	ug/l	50
2-Chloronaphthalene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2-Nitroaniline	1700 U	ug/kg	1700	1700 U	ug/kg	1700	1600 U	ug/kg	1600	50 U	ug/l	50
Dimethylphthalate	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Acenaphthylene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2,6-Dinitrotoluene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
3-Nitroaniline	1700 U	ug/kg	1700	1700 U	ug/kg	1700	1600 U	ug/kg	1600	50 U	ug/l	50
Acenaphthene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2,4-Dinitrophenol	1700 U	ug/kg	1700	1700 U	ug/kg	1700	1600 U	ug/kg	1600	50 U	ug/l	50
4-Nitrophenol	1700 U	ug/kg	1700	1700 U	ug/kg	1700	1600 U	ug/kg	1600	50 U	ug/l	50
Dibenzofuran	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
2,4-Dinitrotoluene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Diethylphthalate	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
4-Chlorophenyl-phenylether	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Fluorene	43 J	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
4-Nitroaniline	1700 U	ug/kg	1700	1700 U	ug/kg	1700	1600 U	ug/kg	1600	50 U	ug/l	50
4,6-Dinitro-2-methylphenol	1700 U	ug/kg	1700	1700 U	ug/kg	1700	1600 U	ug/kg	1600	50 U	ug/l	50
N-Nitrosodiphenylamine (1)	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
4-Bromophenyl-phenylether	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Hexachlorobenzene	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Pentachlorophenol	1700 U	ug/kg	1700	1700 U	ug/kg	1700	1600 U	ug/kg	1600	50 U	ug/l	50
Phenanthrene	390	ug/kg	340	53 J	ug/kg	360	36 J	ug/kg	340	10 U	ug/l	10
Anthracene	65 J	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Di-n-butylphthalate	340 U	ug/kg	340	360 U	ug/kg	360	340 U	ug/kg	340	10 U	ug/l	10
Fluoranthene	600	ug/kg	340	120 J	ug/kg	360	83 J	ug/kg	340	10 U	ug/l	10

06/16/92 Analytical Result Report 15:55:46  
Validated data

Lab Sample Number:  
Site  
Locator  
Collect Date:

21584008  
CECIL  
16-SS-2MSD  
29-APR-92

21584006  
CECIL  
16-SS-3  
29-APR-92

21584007  
CECIL  
16-SS-4  
29-APR-92

21584001  
CECIL  
EQUIPMENT  
29-APR-92

	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Pyrene	340	U	ug/kg	340	100	J	ug/kg	360	60	J	ug/kg	340	10	U	ug/l	10
Butylbenzylphthalate	150	J	ug/kg	340	59	J	ug/kg	360	120	J	ug/kg	340	10	U	ug/l	10
3,3'-Dichlorobenzidine	690	U	ug/kg	690	720	U	ug/kg	720	670	U	ug/kg	670	20	U	ug/l	20
Benzo (a) anthracene	240	J	ug/kg	340	77	J	ug/kg	360	340	U	ug/kg	340	10	U	ug/l	10
Chrysene	280	J	ug/kg	340	81	J	ug/kg	360	66	J	ug/kg	340	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	450	U	ug/kg	340	140	J	ug/kg	360	120	J	ug/kg	340	10	U	ug/l	10
Di-n-octylphthalate	340	U	ug/kg	340	360	U	ug/kg	360	340	U	ug/kg	340	10	U	ug/l	10
Benzo (b) fluoranthene	280	J	ug/kg	340	64	J	ug/kg	360	53	J	ug/kg	340	10	U	ug/l	10
Benzo (k) fluoranthene	260	J	ug/kg	340	62	J	ug/kg	360	44	J	ug/kg	340	10	U	ug/l	10
Benzo (a) pyrene	230	J	ug/kg	340	74	J	ug/kg	360	44	J	ug/kg	340	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	170	J	ug/kg	340	45	J	ug/kg	360	340	U	ug/kg	340	10	U	ug/l	10
Dibenz (a,h) anthracene	340	U	ug/kg	340	360	U	ug/kg	360	340	U	ug/kg	340	10	U	ug/l	10
Benzo (g,h,i) perylene	200	J	ug/kg	340	49	J	ug/kg	360	39	J	ug/kg	340	10	U	ug/l	10

U = NOT DETECTED R = RESULT IS REJECTED AND UNUSABLE  
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

Validated data

Lab Sample Number: 21584003  
 Site CECIL  
 Locator FIELD BLK  
 Collect Date: 29-APR-92

	VALUE	QUAL	UNITS	DL
<b>CLP SEMIVOLATILES</b>				
Phenol	10	U	ug/l	10
bis(2-Chloroethyl) ether	10	U	ug/l	10
2-Chlorophenol	10	U	ug/l	10
1,3-Dichlorobenzene	10	U	ug/l	10
1,4-Dichlorobenzene	10	U	ug/l	10
Benzyl Alcohol	10	U	ug/l	10
1,2-Dichlorobenzene	10	U	ug/l	10
2-Methylphenol	10	U	ug/l	10
bis(2-Chloroisopropyl) ether	10	U	ug/l	10
4-Methylphenol	10	U	ug/l	10
N-Nitroso-di-n-propylamine	10	U	ug/l	10
Hexachloroethane	10	U	ug/l	10
Nitrobenzene	10	U	ug/l	10
Isophorone	10	U	ug/l	10
2-Nitrophenol	10	U	ug/l	10
2,4-Dimethylphenol	10	U	ug/l	10
Benzoic Acid	50	U	ug/l	50
bis(2-Chloroethoxy) methane	10	U	ug/l	10
2,4-Dichlorophenol	10	U	ug/l	10
1,2,4-Trichlorobenzene	10	U	ug/l	10
Naphthalene	10	U	ug/l	10
4-Chloroaniline	10	U	ug/l	10
Hexachlorobutadiene	10	U	ug/l	10
4-Chloro-3-methylphenol	10	U	ug/l	10
2-Methylnaphthalene	10	U	ug/l	10
Hexachlorocyclopentadiene	10	U	ug/l	10
2,4,6-Trichlorophenol	10	U	ug/l	10
2,4,5-Trichlorophenol	50	U	ug/l	50
2-Chloronaphthalene	10	U	ug/l	10
2-Nitroaniline	50	U	ug/l	50
Dimethylphthalate	10	U	ug/l	10
Acenaphthylene	10	U	ug/l	10
2,6-Dinitrotoluene	10	U	ug/l	10
3-Nitroaniline	50	U	ug/l	50
Acenaphthene	10	U	ug/l	10
2,4-Dinitrophenol	50	U	ug/l	50
4-Nitrophenol	50	U	ug/l	50
Dibenzofuran	10	U	ug/l	10
2,4-Dinitrotoluene	10	U	ug/l	10
Diethylphthalate	10	U	ug/l	10
4-Chlorophenyl-phenylether	10	U	ug/l	10
Fluorene	10	U	ug/l	10
4-Nitroaniline	50	U	ug/l	50
4,6-Dinitro-2-methylphenol	50	U	ug/l	50
N-Nitrosodiphenylamine (1)	10	U	ug/l	10
4-Bromophenyl-phenylether	10	U	ug/l	10
Hexachlorobenzene	10	U	ug/l	10
Pentachlorophenol	50	U	ug/l	50
Phenanthrene	10	U	ug/l	10
Anthracene	10	U	ug/l	10
Di-n-butylphthalate	10	U	ug/l	10
Fluoranthene	10	U	ug/l	10

Lab Sample Number: 21584003  
Site CECIL  
Locator FIELD BLK  
Collect Date: 29-APR-92

VALUE QUAL UNITS DL

Pyrene	10 U	ug/l	10
Butylbenzylphthalate	10 U	ug/l	10
3,3'-Dichlorobenzidine	20 U	ug/l	20
Benzo (a) anthracene	10 U	ug/l	10
Chrysene	10 U	ug/l	10
bis(2-Ethylhexyl) phthalate	10 U	ug/l	10
Di-n-octylphthalate	10 U	ug/l	10
Benzo (b) fluoranthene	10 U	ug/l	10
Benzo (k) fluoranthene	10 U	ug/l	10
Benzo (a) pyrene	10 U	ug/l	10
Indeno (1,2,3-cd) pyrene	10 U	ug/l	10
Dibenz (a,h) anthracene	10 U	ug/l	10
Benzo (g,h,i) perylene	10 U	ug/l	10

U = NOT DETECTED R = RESULT IS REJECTED AND UNUSABLE  
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

06/16/92 Analytical Result Report 15:37:20  
Validated data

Lab Sample Number: Site Locator Collect Date:	21584005 CECIL 16-BK-1 29-APR-92			21584004 CECIL 16-SS-1 29-APR-92			21584008 CECIL 16-SS-2 29-APR-92			21584M08 CECIL 16-SS-2MS 29-APR-92		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
CLP PESTICIDES/PCBS												
alpha-BHC	8.2 U	ug/kg	8.2	8.2 U	ug/kg	8.2	8.3 U	ug/kg	8.3	17 U	ug/kg	17
beta-BHC	8.2 U	ug/kg	8.2	8.2 U	ug/kg	8.2	8.3 U	ug/kg	8.3	17 U	ug/kg	17
delta-BHC	8.2 U	ug/kg	8.2	8.2 U	ug/kg	8.2	8.3 U	ug/kg	8.3	17 U	ug/kg	17
gamma-BHC (Lindane)	8.2 U	ug/kg	8.2	8.2 U	ug/kg	8.2	8.3 U	ug/kg	8.3	17 U	ug/kg	17
Heptachlor	8.2 U	ug/kg	8.2	8.2 U	ug/kg	8.2	8.3 U	ug/kg	8.3	17 U	ug/kg	17
Aldrin	8.2 U	ug/kg	8.2	8.2 U	ug/kg	8.2	8.3 U	ug/kg	8.3	17 U	ug/kg	17
Heptachlor epoxide	8.2 U	ug/kg	8.2	8.2 U	ug/kg	8.2	8.3 U	ug/kg	8.3	17 U	ug/kg	17
Endosulfan I	8.2 U	ug/kg	8.2	8.2 U	ug/kg	8.2	8.3 U	ug/kg	8.3	17 U	ug/kg	17
Dieldrin	16 U	ug/kg	16	16 U	ug/kg	16	17 U	ug/kg	17	33 U	ug/kg	33
4,4'-DDE	16 U	ug/kg	16	16 U	ug/kg	16	17 U	ug/kg	17	33 U	ug/kg	33
Endrin	16 U	ug/kg	16	16 U	ug/kg	16	17 U	ug/kg	17	33 U	ug/kg	33
Endosulfan II	16 U	ug/kg	16	16 U	ug/kg	16	17 U	ug/kg	17	33 U	ug/kg	33
4,4'-DDD	16 U	ug/kg	16	16 U	ug/kg	16	17 U	ug/kg	17	33 U	ug/kg	33
Endosulfan sulfate	16 U	ug/kg	16	16 U	ug/kg	16	17 U	ug/kg	17	33 U	ug/kg	33
4,4'-DDT	16 U	ug/kg	16	16 U	ug/kg	16	17 U	ug/kg	17	33 U	ug/kg	33
Methoxychlor	82 U	ug/kg	82	82 U	ug/kg	82	83 U	ug/kg	83	170 U	ug/kg	170
Endrin ketone	16 U	ug/kg	16	16 U	ug/kg	16	17 U	ug/kg	17	33 U	ug/kg	33
alpha-Chlordane	82 U	ug/kg	82	82 U	ug/kg	82	83 U	ug/kg	83	170 U	ug/kg	170
gamma-Chlordane	82 U	ug/kg	82	82 U	ug/kg	82	83 U	ug/kg	83	170 U	ug/kg	170
Toxaphene	160 U	ug/kg	160	160 U	ug/kg	160	170 U	ug/kg	170	330 U	ug/kg	330
Aroclor-1016	82 U	ug/kg	82	82 U	ug/kg	82	83 U	ug/kg	83	170 U	ug/kg	170
Aroclor-1221	82 U	ug/kg	82	82 U	ug/kg	82	83 U	ug/kg	83	170 U	ug/kg	170
Aroclor-1232	82 U	ug/kg	82	82 U	ug/kg	82	83 U	ug/kg	83	170 U	ug/kg	170
Aroclor-1242	82 U	ug/kg	82	82 U	ug/kg	82	83 U	ug/kg	83	170 U	ug/kg	170
Aroclor-1248	82 U	ug/kg	82	82 U	ug/kg	82	83 U	ug/kg	83	170 U	ug/kg	170
Aroclor-1254	160 U	ug/kg	160	160 U	ug/kg	160	170 U	ug/kg	170	330 U	ug/kg	330
Aroclor-1260	160 U	ug/kg	160	160 U	ug/kg	160	170 U	ug/kg	170	330 U	ug/kg	330

U = NOT DETECTED R = RESULT IS REJECTED AND UNUSABLE  
J = ESTIMATED VALUE UJ = REPORTED QUANTITATION LIMIT IS ESTIMATED

06/16/92 Analytical Result Report 15:37:20  
Validated data

Lab Sample Number:	21584D08	21584006	21584007	21584001					
Site	CECIL	CECIL	CECIL	CECIL					
Locator	16-SS-2MSD	16-SS-3	16-SS-4	EQUIPMENT					
Collect Date:	29-APR-92	29-APR-92	29-APR-92	29-APR-92					
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

CLP PESTICIDES/PCBS

alpha-BHC	17 U	ug/kg	17	8.7 U	ug/kg	8.7	8.2 U	ug/kg	8.2	.05 U	ug/l	.05
beta-BHC	17 U	ug/kg	17	8.7 U	ug/kg	8.7	8.2 U	ug/kg	8.2	.05 U	ug/l	.05
delta-BHC	17 U	ug/kg	17	8.7 U	ug/kg	8.7	8.2 U	ug/kg	8.2	.05 U	ug/l	.05
gamma-BHC (Lindane)	17 U	ug/kg	17	8.7 U	ug/kg	8.7	8.2 U	ug/kg	8.2	.05 U	ug/l	.05
Heptachlor	17 U	ug/kg	17	8.7 U	ug/kg	8.7	8.2 U	ug/kg	8.2	.05 U	ug/l	.05
Aldrin	17 U	ug/kg	17	8.7 U	ug/kg	8.7	8.2 U	ug/kg	8.2	.05 U	ug/l	.05
Heptachlor epoxide	17 U	ug/kg	17	8.7 U	ug/kg	8.7	8.2 U	ug/kg	8.2	.05 U	ug/l	.05
Endosulfan I	17 U	ug/kg	17	8.7 U	ug/kg	8.7	8.2 U	ug/kg	8.2	.05 U	ug/l	.05
Dieldrin	33 U	ug/kg	33	17 U	ug/kg	17	16 U	ug/kg	16	.1 U	ug/l	.1
4,4'-DDE	33 U	ug/kg	33	17 U	ug/kg	17	16 U	ug/kg	16	.1 U	ug/l	.1
Endrin	33 U	ug/kg	33	17 U	ug/kg	17	16 U	ug/kg	16	.1 U	ug/l	.1
Endosulfan II	33 U	ug/kg	33	17 U	ug/kg	17	16 U	ug/kg	16	.1 U	ug/l	.1
4,4'-DDD	33 U	ug/kg	33	17 U	ug/kg	17	16 U	ug/kg	16	.1 U	ug/l	.1
Endosulfan sulfate	33 U	ug/kg	33	17 U	ug/kg	17	16 U	ug/kg	16	.1 U	ug/l	.1
4,4'-DDT	33 U	ug/kg	33	17 U	ug/kg	17	16 U	ug/kg	16	.1 U	ug/l	.1
Methoxychlor	170 U	ug/kg	170	87 U	ug/kg	87	82 U	ug/kg	82	.5 U	ug/l	.5
Endrin ketone	33 U	ug/kg	33	17 U	ug/kg	17	16 U	ug/kg	16	.1 U	ug/l	.1
alpha-Chlordane	170 U	ug/kg	170	87 U	ug/kg	87	82 U	ug/kg	82	.5 U	ug/l	.5
gamma-Chlordane	170 U	ug/kg	170	87 U	ug/kg	87	82 U	ug/kg	82	.5 U	ug/l	.5
Toxaphene	330 U	ug/kg	330	170 U	ug/kg	170	160 U	ug/kg	160	1 U	ug/l	1
Aroclor-1016	170 U	ug/kg	170	87 U	ug/kg	87	82 U	ug/kg	82	.5 U	ug/l	.5
Aroclor-1221	170 U	ug/kg	170	87 U	ug/kg	87	82 U	ug/kg	82	.5 U	ug/l	.5
Aroclor-1232	170 U	ug/kg	170	87 U	ug/kg	87	82 U	ug/kg	82	.5 U	ug/l	.5
Aroclor-1242	170 U	ug/kg	170	87 U	ug/kg	87	82 U	ug/kg	82	.5 U	ug/l	.5
Aroclor-1248	170 U	ug/kg	170	87 U	ug/kg	87	82 U	ug/kg	82	.5 U	ug/l	.5
Aroclor-1254	330 U	ug/kg	330	170 U	ug/kg	170	160 U	ug/kg	160	1 U	ug/l	1
Aroclor-1260	330 U	ug/kg	330	170 U	ug/kg	170	160 U	ug/kg	160	1 U	ug/l	1

U = NOT DETECTED R = RESULT IS REJECTED AND UNUSABLE  
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06/16/92 Analytical Result Report 15:37:20  
Validated data

Lab Sample Number:	21584003	W05012B1	S05042B1					
Site	CECIL	CECIL	CECIL					
Locator	FIELD_BLK	PBLK01	PBLK04					
Collect Date:	29-APR-92	12-MAY-92	04-MAY-92					
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

CLP PESTICIDES/PCBS

alpha-BHC	.05 U	ug/l	.05	.05 U	ug/l	.05	8 U	ug/kg	8
beta-BHC	.05 U	ug/l	.05	.05 U	ug/l	.05	8 U	ug/kg	8
delta-BHC	.05 U	ug/l	.05	.05 U	ug/l	.05	8 U	ug/kg	8
gamma-BHC (Lindane)	.05 U	ug/l	.05	.05 U	ug/l	.05	8 U	ug/kg	8
Heptachlor	.05 U	ug/l	.05	.05 U	ug/l	.05	8 U	ug/kg	8
Aldrin	.05 U	ug/l	.05	.05 U	ug/l	.05	8 U	ug/kg	8
Heptachlor epoxide	.05 U	ug/l	.05	.05 U	ug/l	.05	8 U	ug/kg	8
Endosulfan I	.05 U	ug/l	.05	.05 U	ug/l	.05	8 U	ug/kg	8
Dieldrin	.1 U	ug/l	.1	.1 U	ug/l	.1	16 U	ug/kg	16
4,4'-DDE	.1 U	ug/l	.1	.1 U	ug/l	.1	16 U	ug/kg	16
Endrin	.1 U	ug/l	.1	.1 U	ug/l	.1	16 U	ug/kg	16
Endosulfan II	.1 U	ug/l	.1	.1 U	ug/l	.1	16 U	ug/kg	16
4,4'-DDD	.1 U	ug/l	.1	.1 U	ug/l	.1	16 U	ug/kg	16
Endosulfan sulfate	.1 U	ug/l	.1	.1 U	ug/l	.1	16 U	ug/kg	16
4,4'-DDT	.1 U	ug/l	.1	.1 U	ug/l	.1	16 U	ug/kg	16
Methoxychlor	.5 U	ug/l	.5	.5 U	ug/l	.5	80 U	ug/kg	80
Endrin ketone	.1 U	ug/l	.1	.1 U	ug/l	.1	16 U	ug/kg	16
alpha-Chlordane	.5 U	ug/l	.5	.5 U	ug/l	.5	80 U	ug/kg	80
gamma-Chlordane	.5 U	ug/l	.5	.5 U	ug/l	.5	80 U	ug/kg	80
Toxaphene	1 U	ug/l	1	1 U	ug/l	1	160 U	ug/kg	160
Aroclor-1016	.5 U	ug/l	.5	.5 U	ug/l	.5	80 U	ug/kg	80
Aroclor-1221	.5 U	ug/l	.5	.5 U	ug/l	.5	80 U	ug/kg	80
Aroclor-1232	.5 U	ug/l	.5	.5 U	ug/l	.5	80 U	ug/kg	80
Aroclor-1242	.5 U	ug/l	.5	.5 U	ug/l	.5	80 U	ug/kg	80
Aroclor-1248	.5 U	ug/l	.5	.5 U	ug/l	.5	80 U	ug/kg	80
Aroclor-1254	1 U	ug/l	1	1 U	ug/l	1	160 U	ug/kg	160
Aroclor-1260	1 U	ug/l	1	1 U	ug/l	1	160 U	ug/kg	160

U = NOT DETECTED R = RESULT IS REJECTED AND UNUSABLE  
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06/17/92 Analytical Result Report 12:34:23  
Validated data

Lab Sample Number:	21584005	21584004	21584008	21584006								
Site	CECIL	CECIL	CECIL	CECIL								
Locator	16-BK-1	16-SS-1	16-SS-2	16-SS-3								
Collect Date:	29-APR-92	29-APR-92	29-APR-92	29-APR-92								
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

TAL ANALYTES	VALUE	QUAL UNITS	DL									
Aluminum	1050	mg/kg	200	744	mg/kg	200	3130	mg/kg	200	3750	mg/kg	200
Antimony	2.2 U	mg/kg	60	2.2 U	mg/kg	60	2.3 U	mg/kg	60	2.4 U	mg/kg	60
Arsenic	.19 UJ	mg/kg	10	.48 J	mg/kg	10	.47 J	mg/kg	10	.39 J	mg/kg	10
Barium	2.8 J	mg/kg	200	7.5 J	mg/kg	200	11.2 J	mg/kg	200	17.3 J	mg/kg	200
Beryllium	.04 U	mg/kg	5	.05 J	mg/kg	5	.09 J	mg/kg	5	.06 J	mg/kg	5
Cadmium	.6 U	mg/kg	5	.77 J	mg/kg	5	1.8	mg/kg	5	4	mg/kg	5
Calcium	372 J	mg/kg	5000	639 J	mg/kg	5000	12800	mg/kg	5000	2130	mg/kg	5000
Chromium	1.5 R	mg/kg	10	7.7 J	mg/kg	10	101 J	mg/kg	10	19.6 J	mg/kg	10
Cobalt	.73 U	mg/kg	50	.91 J	mg/kg	50	1.8 J	mg/kg	50	1.6 J	mg/kg	50
Copper	1.8 J	mg/kg	25	5.7	mg/kg	25	7.7	mg/kg	25	9.4	mg/kg	25
Iron	215	mg/kg	100	845	mg/kg	100	2590	mg/kg	100	1160	mg/kg	100
Lead	9.9 J	mg/kg	5	16.4 J	mg/kg	5	52.3 J	mg/kg	5	35 J	mg/kg	5
Magnesium	29.8 J	mg/kg	5000	67 J	mg/kg	5000	348 J	mg/kg	5000	314 J	mg/kg	5000
Manganese	1.2 J	mg/kg	15	35 J	mg/kg	15	49.5 J	mg/kg	15	242 J	mg/kg	15
Mercury	0 UJ	mg/kg	.2									
Nickel	2.8 J	mg/kg	40	4.5 J	mg/kg	40	38.4 J	mg/kg	40	9.2 J	mg/kg	40
Potassium	145 U	mg/kg	5000	147 U	mg/kg	5000	149 J	mg/kg	5000	155 U	mg/kg	5000
Selenium	.25 U	mg/kg	5	.37 J	mg/kg	5	.25 U	mg/kg	5	.26 U	mg/kg	5
Silver	.35 U	mg/kg	10	.36 U	mg/kg	10	.36 U	mg/kg	10	.45 J	mg/kg	10
Sodium	121 U	mg/kg	5000	144 U	mg/kg	5000	167 U	mg/kg	5000	196 U	mg/kg	5000
Thallium	.35 U	mg/kg	10	.35 U	mg/kg	10	.35 UJ	mg/kg	10	.37 U	mg/kg	10
Vanadium	1.1 J	mg/kg	50	3.3 J	mg/kg	50	4.8 J	mg/kg	50	3.3 J	mg/kg	50
Zinc	4.3	mg/kg	20	53.9	mg/kg	20	54.5	mg/kg	20	31.1	mg/kg	20
Cyanide	.18 U	mg/kg	10	.18 U	mg/kg	10	.19 U	mg/kg	10	.2 U	mg/kg	10

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06/17/92 Analytical Result Report 12:34:23  
Validated data

Lab Sample Number:	21584007	21584001	21584003
Site	CECIL	CECIL	CECIL
Locator	16-SS-4	EQUIPMENT	FIELD BLK
Collect Date:	29-APR-92	29-APR-92	29-APR-92

	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
TAL ANALYTES												
Aluminum	1800		mg/kg	200	37.1	U	ug/l	200	19	U	ug/l	200
Antimony	2.2	U	mg/kg	60	16	U	ug/l	60	10.9	U	ug/l	60
Arsenic	.25	J	mg/kg	10	1.2	J	ug/l	10	.95	U	ug/l	10
Barium	4.4	J	mg/kg	200	.71	U	ug/l	200	.71	J	ug/l	200
Beryllium	.04	U	mg/kg	5	.19	U	ug/l	5	.19	U	ug/l	5
Cadmium	.77	J	mg/kg	5	2.9	U	ug/l	5	2.9	U	ug/l	5
Calcium	40800		mg/kg	5000	152	J	ug/l	5000	163	U	ug/l	5000
Chromium	5.3	J	mg/kg	10	2.1	U	ug/l	10	2.1	U	ug/l	10
Cobalt	.74	U	mg/kg	50	3.6	U	ug/l	50	3.6	U	ug/l	50
Copper	2.1	J	mg/kg	25	8.9	U	ug/l	25	2.1	U	ug/l	25
Iron	508		mg/kg	100	43.8	U	ug/l	100	20.5	U	ug/l	100
Lead	12.8	J	mg/kg	5	1.4	U	ug/l	5	1.4	U	ug/l	5
Magnesium	319	J	mg/kg	5000	21.3	U	ug/l	5000	21.3	U	ug/l	5000
Manganese	8	J	mg/kg	15	1.2	U	ug/l	15	.85	U	ug/l	15
Mercury	0	UJ	mg/kg	.2	0	UJ	ug/l	.2	0	UJ	ug/l	.2
Nickel	1.6	J	mg/kg	40	3.8	U	ug/l	40	3.8	U	ug/l	40
Potassium	147	U	mg/kg	5000	710	U	ug/l	5000	710	U	ug/l	5000
Selenium	.25	U	mg/kg	5	1.5	J	ug/l	5	1.2	U	ug/l	5
Silver	.36	U	mg/kg	10	1.7	U	ug/l	10	1.7	U	ug/l	10
Sodium	210	U	mg/kg	5000	697	U	ug/l	5000	645	U	ug/l	5000
Thallium	.35	U	mg/kg	10	1.7	U	ug/l	10	1.7	U	ug/l	10
Vanadium	2.7	J	mg/kg	50	1.7	U	ug/l	50	1.7	U	ug/l	50
Zinc	16.6		mg/kg	20	9.1	U	ug/l	20	7.3	U	ug/l	20
Cyanide	.19	U	mg/kg	10	-				6.7	J	ug/l	10

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08/14/92 Surface Soils--Cecil Field 11:26:24  
Analytical Result Report

Lab Sample Number:	21584005		21584004		21584008		21584006		
Site	CECIL		CECIL		CECIL		CECIL		
Locator	16-BK-1		16-SS-1		16-SS-2		16-SS-3		
Collect Date:	29-APR-92		29-APR-92		29-APR-92		29-APR-92		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

TENTATIVELY IDENTIFIED CMPNDS:

(10.62) .Alpha.-Pinene (Acn)	1100 J	ug/kg
(10.99) 5-Hexen-2-One, 5-Methy	730 J	ug/kg
(26.99) Hexadecanoic Acid	280 J	ug/kg
(32.64) Unknown Hydrocarbon	1000 J	ug/kg
(33.56) Unknown Hydrocarbon	320 J	ug/kg
(34.46) Unknown Hydrocarbon	1500 J	ug/kg
(20.50) 1,3,6-Octatriene, 3,7-	6.9 J	ug/kg

(10.54) Ethanone, 1-(3-Ethyl	440 J	ug/kg
(10.97) 5-Hexen-2-One, 5-Methy	440 J	ug/kg
(11.94) 3-Heptanone, 2,4-Dimet	420 J	ug/kg
(8.82) Unknown Hydrocarbon	250 J	ug/kg

(11.07) 5-Hexen-2-One, 5-Methy	540 J	ug/kg
(26.89) Anthracene, Methyl- Is	190 J	ug/kg
(27.77) 9,10-Anthracenedione	210 J	ug/kg
(30.56) 11h-Benzo[A]Fluorene	450 J	ug/kg
(32.39) Benzo[B]Naphtho[1,2-D]	240 J	ug/kg
(37.42) Benzo[E]Pyrene	760 J	ug/kg
(26.81) Anthracene, Methyl- Is	150 J	ug/kg

(10.55) Ethanone, 1-(3-Ethyl	440 J	ug/kg
(10.99) 5-Hexen-2-One, 5-Methy	530 J	ug/kg
(11.97) 3-Heptanone, 2,4-Dimet	780 J	ug/kg
(27.02) Hexadecanoic Acid	700 J	ug/kg
(28.22) 1-Phenanthrenecarboxal	580 J	ug/kg
(29.11) Unknown Hydrocarbon	160 J	ug/kg

08/14/92 Surface Soils--Cecil Field 11:26:24  
Analytical Result Report

Lab Sample Number: 21584007  
Site CECIL  
Locator 16-SS-4  
Collect Date: 29-APR-92

VALUE QUAL UNITS DL

TENTATIVELY IDENTIFIED CMPNDS:  
(10.57) Ethanone, 1-(3-Ethyl  
(11.97) 3-Heptanone, 2,4-Dimet

1100 J ug/kg  
670 J ug/kg

08/14/92 ANALYTICAL RESULT REPORT---CECIL FIELD 10:34:01  
 GENERAL ORGANICS TOC AND PERCENT SOLIDS

Lab Sample Number:	LG111515		LG111516		LG111517		LG111518		
Site	CECIL		CECIL		CECIL		CECIL		
Locator	EQUIPMENT		16-SS-1		16-BK-1		16-SS-3		
Collect Date:	29-APR-92		29-APR-92		29-APR-92		29-APR-92		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

TOTAL ORGANIC CARBON	1	mg/l	1	13700	mg/kg	5	12500	mg/kg	5	17100	mg/kg	5
PERCENT SOLID	-	perce		97.1	perce		98	perce		92.1	perce	

08/14/92 ANALYTICAL RESULT REPORT---CECIL FIELD 10:34:01  
 GENERAL ORGANICS TOC AND PERCENT SOLIDS

Lab Sample Number:  
 Site  
 Locator  
 Collect Date:

LG111519  
 CECIL  
 16-SS-4  
 29-APR-92

LG111520  
 CECIL  
 16-SS-2  
 29-APR-92

LG111521  
 CECIL  
 METHOD BLANK  
 29-APR-92

VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL

TOTAL ORGANIC CARBON  
 PERCENT SOLID

10000 mg/kg 5  
 97.7 perce

10700 mg/kg 5  
 94.9 perce

1 mg/l 1  
 - perce

EMPLOYEE NAME (Last, First, MI)

HARVEY, Andrew W.

EMPL. #

4277

DEPT. #

NI

W/E DATE

8/14/92

REPORT #

PURPOSE OF EXPENDITURE:

MCLB Albany

Photographic record of the DWTP Sludge Drying Beds

DATE	LOCATION FROM	LOCATION TO	PROJECT #	TOTALS
8/13/92	@ Tallahassee		7522-30	
MEALS-EMPLOYEE				(70)
MEALS-GROUP (OVER)				(70)
CONTRACT PER DIEM				(79)
LODGING				(77)
AIRFARE				(76)
TAXI/LIMO/BUS				(76)
VEHICLE RENTALS/GAS				(76)
FIELD SUPPLIES				(75)
EQUIPMENT RENTALS				(74)
TELEPHONE				(56)
PERSONAL AUTO (OVER)				(95)
OTHER (OVER)	14.23			14.23 (95)
TOTAL EXPENDITURES - US \$	14.23			14.23

DISTRIBUTION OF EXPENDITURES

PROJECT #	ACCOUNT #	\$ AMOUNT	PROJECT #	ACCOUNT #	\$ AMOUNT	PROJECT #	ACCOUNT #	\$ AMOUNT
	-70			-70			-70	
	-79			-79			-79	
	-77			-77			-77	
	-76			-76			-76	
	-75			-75			-75	
	-74			-74			-74	
	-56			-56			-56	
7522-30	550 -95	14.23		-95			-95	
TOTAL		14.23						

Andrew Harvey 8/14/92  
 EMPLOYEE SIGNATURE DATE

McKeown 8/19/92  
 APPROVAL SIGNATURE DATE

DATE: RECEIVED PROCESSED

\*\* ATTACH ALL RECEIPTS

THANK YOU

EXPRESS PHOTO  
STORE #7616-PL  
SERIAL# 6017265

08/13/92

SELL 3	
XPR FEE 7	14.23
DRG DTR 2	0.00
SUBTOTAL	14.23
TAX 1	1.00
TOTAL	20.23
CHARGE	20.00
CHANGE	0.00

2 ITEMS

0883A001 21:00  
THANK YOU

Photos

14.23 total