SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12
SAMPLE DATE	11/30/83	12/20/83	01/18/84	02/21/84	03/22/84	04/25/84	05/17/84	06/28/84	07/27/84	08/24/84
LOCATION	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
LOCATION	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	1	-10	-23	2	-5	3	11	19	17	19
FLOW (CFS)						0.18	0.45	0.35		
WATER TEMPERATURE (C)	8	7	8	4	9	11	11	13	12	15
SPEC. COND. (UMHOS/CM) FIELD	594	530	754	1015	892	570	550	712	708	614
PH FIELD	7.2	6.9	7.4	6.9	7.1	7.6	7.7	7.2	7.3	7.5
TURBIDITY (NTU) FIELD	18	38	100+	42	100+	100+	100+	100+	48	82
TOTAL SUSP. SOLIDS	10.0	5.0	11.5	105	81.0	220	167	4750	31.0	60.0
TOTAL DISS. SOLIDS MEAS.	345	420	456	700	860	339	490	550	358	390
TOTAL SETTLEABLE SOLIDS			0.1							
OXYGEN (O) DISS										5.6
TOTAL SOLIDS						0.59	0.89	0.77	0.51	0.64
COMMON IONS										
CALCIUM (CA)	53.00	58.40	100.0	152.00	145.60	66.00	160.00	116.00	66.40	48.00
MAGNESIUM (MG)	21.00	26.40	35.50	37.20	40.80	34.80	<0.10	40.40	46.60	43.20
SODIUM (NA)	46.00	8.60	8.70	18.10	11.30	8.10	8.90	10.50	12.00	40.00
POTASSIUM (K)	3.5	8.2	5.7	5.1	5.8	5.7	6.7	6.7	5.95	5.61
ACIDITY AS CACO3	12.00									10.50
ALKALINITY AS CACO3 (LAB)	248									250
BICARBONATE (HCO3) (LAB)	302.5	253.8	248.9	230.6	225.7	302.6	256.2	274.5	207.4	305.0
SULFATE (SO4)	44	58	205	320	54	66	188	237	197	74
CHLORIDE (CL)	24.00	8.00	8.0	32.0	20.0	7.0	9.5	7.3	15.3	20.0
FLUORIDE (F)	0.10									0.28
NUTRIENTS										
NITRATE (NO3-N)	<0.01									0.02
AMMONIA (NH3 AS N)	1.80							0.26		0.28
TOTAL PHOSPHATE (PO4)	0.05							0.02		<0.01
TRACE ELEMENTS										
BARIUM (BA) TOTAL	0.086									0.11
BORON (B) TOTAL	0.200									0.141
COPPER (CU) TOTAL	0.010									0.023
IRON (FE) TOTAL	0.160	0.020	0.18	0.83	3.04	1.23	2.31	32.40	0.71	2.40
LEAD (PB) TOTAL	<0.001									0.009
MANGANESE (MN) TOTAL	0.020	0.036	0.03	0.06	0.04	0.03	0.13	0.33	0.04	0.02
ZINC (ZN) TOTAL	0.003									0.062
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	2.50									<0.01
PHENOLS	<0.001							<0.001		<0.001
OTHER PARAMETERS										
OIL AND GREASE	<0.2							2.0		<0.1

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12
SAMPLE DATE	11/30/83	12/20/83	01/18/84	02/21/84	03/22/84	04/25/84	05/17/84	06/28/84	07/27/84	08/24/84
OTHER PARAMETERS										
CYANIDE (CN)	<0.001									<0.001

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12	CS-12
SAMPLE DATE	09/27/84	10/16/85	11/15/85	12/11/85	01/22/86	03/06/86	03/26/86	04/17/86	05/28/86	06/24/86
LOCATION	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE
LOCATION	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3	MINE NO.3
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	5	9	1	-12	4		10	-3	18	19
FLOW (CFS)		0.36	0.34	0.53	0.60	0.53	0.53	0.58	0.53	0.63
WATER TEMPERATURE (C)	13.5	12	11	12	16.5	12.5	11	11	11.5	12
SPEC. COND. (UMHOS/CM) FIELD	498	589	770	593	698	698	736	789	620	728
PH FIELD	7.3	7.1	7.2	7.4	7.0	7.3	7.0	7.5	7.3	7.1
TURBIDITY (NTU) FIELD	61	27	20	36	14	23	16	17	58	25.81
TOTAL SUSP. SOLIDS	65.0	23.0	9.0	26.0	7.0	50.0	26.0	22.0	219	14.0
TOTAL DISS. SOLIDS MEAS.	310	364	512	406	502	486	520	542	400	496
TOTAL SETTLEABLE SOLIDS			<0.1				<0.1	<0.1	0.5	
TOTAL SOLIDS	0.62									
COMMON IONS										
CALCIUM (CA)	42.00	81.60	110.40	65.20	91.60		111.60	98.40	79.20	90.10
MAGNESIUM (MG)	42.60	27.10	31.90	30.20	<0.10		31.90	33.10	28.80	27.80
SODIUM (NA)	7.50	9.80	11.00	17.60	58.00		11.20	12.40	12.92	15.13
POTASSIUM (K)	5.35	4.48	5.34	4.68	4.88		4.43	5.64	4.97	6.98
BICARBONATE (HCO3) (LAB)	224.5	231.8	216.0	220.0	206.0		206.0	176.0	189.0	175.7
SULFATE (SO4)	102	144	239	141	180		205	235	180	213
CHLORIDE (CL)	5.0	4.2	6.6	8.2	10.8		35.0	14.0	3.4	3.9
NUTRIENTS										
AMMONIA (NH3 AS N)		<0.01								0.16
TOTAL PHOSPHATE (PO4)		0.06								0.04
TRACE ELEMENTS										
IRON (FE) TOTAL	0.43	0.15	0.15	0.17	0.51	0.18	0.20	0.18	0.58	0.20
MANGANESE (MN) TOTAL	0.01	<0.01	0.04	0.02	0.05		0.02	0.02	0.06	0.05
ORGANIC PARAMETERS										
PHENOLS		<0.001								<0.001
OTHER PARAMETERS										
OIL AND GREASE		<0.1	<0.1	1.6	1.0	<0.1	1.6	1.0	1.4	<0.1

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	CS-13	CS-13	CS-13	CS-13	CS-13	CS-13	CS-13	CS-13	CS-13	CS-13
SAMPLE DATE	11/10/83	11/11/83	02/22/84	03/22/84	04/25/84	05/17/84	06/29/84	07/27/84	08/24/84	09/18/84
LOCATION	FRENCH DR.	FRENCH DR.	FRENCH DR.	FRENCH DR.	FRENCH DR.	FRENCH DR.	FRENCH DR.	FRENCH DR.	FRENCH DR.	FRENCH DR.
LOCATION	N.LOADOUT	N.LOADOUT	N.LOADOUT	N.LOADOUT	N.LOADOUT	N.LOADOUT	N.LOADOUT	N.LOADOUT	N.LOADOUT	N.LOADOUT
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	2	1	-4	-3	3	16	22	14	15	14
FLOW (CFS)	0.01	0.02	0.02	0.02	0.08	0.08	0.04	0.04	0.02	0.02
WATER TEMPERATURE (C)	6	4	2	4	3	9	8	11	10	9
SPEC. COND. (UMHOS/CM) FIELD	626	599	651	656	874	803	686	670	742	634
PH FIELD	7.2	6.7	7.3	7.4	7.2	7.2	7.5	7.0	7.3	7.1
TURBIDITY (NTU) FIELD	13	13	10	3.4	12.5	5.2	17	23	40	24
TOTAL SUSP. SOLIDS	24.0	24.0	4.0	5.0	12	6.0	7.0	5.0	71.0	39.0
TOTAL DISS. SOLIDS MEAS.	390	420	440	480	485	665	455	360	480	450
OXYGEN (O) DISS									9.8	
COMMON IONS										
CALCIUM (CA)	98.40	97.60	84.00	107.20	142.00	220.00	100.00	104.00	104.00	110.00
MAGNESIUM (MG)	27.36	27.84	44.40	30.48	14.40	12.00	33.60	25.90	36.00	30.00
SODIUM (NA)	8.10	8.10	8.60	10.50	15.10	13.50	10.20	9.80	40.00	9.30
POTASSIUM (K)	2.3	2.2	2.3	2.4	3.2	2.5	2.4	2.34	2.24	2.30
ACIDITY AS CACO3									20.20	
ALKALINITY AS CACO3 (LAB)									340	
BICARBONATE (HCO3) (LAB)	368	368	363	379	403.8	390.4	366.0	380.0	414.8	378.2
SULFATE (SO4)	51	53	66	56	74	180	85	60	54	76
CHLORIDE (CL)	14.00	14.00	24.0	31.0	26.00	80.7	15.4	15.1	20.0	18.0
FLUORIDE (F)									0.17	
NUTRIENTS										
NITRATE (NO3-N)									0.8	
AMMONIA (NH3 AS N)	0.50						0.19		0.08	
TOTAL PHOSPHATE (PO4)	0.02						0.03		0.03	
TRACE ELEMENTS										
BARIUM (BA) TOTAL									0.06	
BORON (B) TOTAL									0.041	
COPPER (CU) TOTAL									0.022	
IRON (FE) TOTAL	0.150	0.200	0.25	0.05	0.30	0.25	0.23	0.22	0.50	0.54
LEAD (PB) TOTAL									0.013	
MANGANESE (MN) TOTAL	0.019	0.060	0.04	0.05	0.10	0.11	0.05	0.04	0.09	0.06
ZINC (ZN) TOTAL									0.056	
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)									<0.01	
PHENOLS	<0.001						0.001		<0.001	
OTHER PARAMETERS										
OIL AND GREASE	<0.02						0.6		<0.1	
CYANIDE (CN)									<0.001	

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	CS-13	CS-13	CS-13	CS-13
SAMPLE DATE	10/16/85	04/17/86	05/28/86	06/25/86
LOCATION	FRENCH DR.	FRENCH DR.	FRENCH DR.	FRENCH DR.
LOCATION	N.LOADOUT	N.LOADOUT	N.LOADOUT	N.LOADOUT
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	10	-2	22	18
FLOW (CFS)	0.05	0.06	0.08	0.03
WATER TEMPERATURE (C)	7	5	9.5	10
SPEC. COND. (UMHOS/CM) FIELD	708	850	699	697
PH FIELD	7.2	7.3	7.1	7.1
TURBIDITY (NTU) FIELD	4.4	8.7	3.7	0.07
TOTAL SUSP. SOLIDS	10.0	227	16.0	<0.1
TOTAL DISS. SOLIDS MEAS.	424	535	486	426
COMMON IONS				
CALCIUM (CA)	110.40	128.40	109.60	82.40
MAGNESIUM (MG)	26.60	33.60	30.20	26.40
SODIUM (NA)	11.0	16.30	11.40	12.45
POTASSIUM (K)	2.10	2.28	1.54	2.14
BICARBONATE (HCO3) (LAB)	240.3	378.0	375.0	297.7
SULFATE (SO4)	170	126	83	68
CHLORIDE (CL)	19.7	34.7	23.9	20.0
NUTRIENTS				
AMMONIA (NH3 AS N)	<0.01			0.36
TOTAL PHOSPHATE (PO4)	<0.01			<0.01
TRACE ELEMENTS				
IRON (FE) TOTAL	0.05	0.09	0.05	0.10
MANGANESE (MN) TOTAL	0.04	0.04	0.02	0.03
ORGANIC PARAMETERS				
PHENOLS	<0.001			<0.001
OTHER PARAMETERS				
OIL AND GREASE	0.2			<0.1

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3
SAMPLE DATE	05/13/81	06/23/81	07/30/81	08/20/81	09/25/81	10/22/81	11/10/81	12/08/81	05/20/82	06/30/82
LOCATION	HUNT.CR BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW
LOCATION	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	13	20	21	25	5	16	-2	3	9	20
WATER TEMPERATURE (C)	7	9	9	9	9	8	5	3	3	10
SPEC. COND. (UMHOS/CM) FIELD	220	220	210	240	230	270	280	280	362	270
PH FIELD	8.1	7.9	8.0	8.2	8.1	6.6	7.9	7.9	7.2	8.0
TURBIDITY (NTU) FIELD	0.48			0.64			0.50		2.3	
TOTAL SUSP. SOLIDS	10	3.0	3.0	1.5	13.0	4.8	1.0	1.0	1.0	
TOTAL DISS. SOLIDS MEAS.	144	142	140	155	150	185	179	185	158	
OXYGEN (O) DISS	10.3	11.1	9.6	9.8	11.2	9.8	8.5			
COMMON IONS										
TOTAL HARDNESS AS CACO3	136									
CALCIUM (CA)	45.60	40.80	40.80	44.80	41.60	45.60	44.50	46.00	46.40	
MAGNESIUM (MG)	5.28	8.16	7.20	6.72	5.28	7.68	8.50	8.50	8.80	
SODIUM (NA)	2.00	2.50	1.80	1.90	1.85	11.80	12.10	10.90	1.7	
POTASSIUM (K)	0.90	0.82	0.81	0.86	0.75	0.81	0.85	0.66	3.90	
ACIDITY AS CACO3	<0.01			3.60			6.00			
ALKALINITY AS CACO3 (LAB)	120			120		159	137	138	144	
BICARBONATE (HCO3) (LAB)	146	134	139	146	146	193	168	169	176	
CARBONATE AS CO3 (LAB)	<0.01									
SULFATE (SO4)	13.0	24.0	15.0	18.0	9.0	9.0	27.9	29.0	15.0	
CHLORIDE (CL)	3.30	3.24	3.05	2.85	2.07	4.80	2.90	2.70	1.50	
FLUORIDE (F)	0.13			0.11			0.09			
NUTRIENTS										
NITRATE (NO3-N)	0.24			0.20			0.13			
NITRITE (NO2-N)	0.01									
AMMONIA (NH3 AS N)	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.62		
TOTAL PHOSPHATE (PO4)	0.150		0.120	0.120	1.500	0.166	0.440	0.430		
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	<0.001									
ARSENIC (AS) TOTAL	<0.001			<0.001			<0.001			
ARSENIC (AS) DISS	<0.001			<0.001			<0.001			
BARIUM (BA) TOTAL	0.035			0.025			0.032			
BARIUM (BA) DISS	0.025			0.015			0.025			
BORON (B) TOTAL	0.008			0.010			0.030			
BORON (B) DISS	<0.001			0.005			0.015			
CADMIUM (CD) TOTAL	<0.001			<0.001			<0.001			
CADMIUM (CD) DISS	<0.001			<0.001			<0.001			
CHROMIUM (CR) TOTAL	<0.001			<0.001			<0.001			
CHROMIUM (CR) DISS	<0.001			<0.001			<0.001			
COPPER (CU) TOTAL	0.010			0.040			<0.001			
COPPER (CU) DISS	<0.001			<0.001			<0.001			
IRON (FE) TOTAL	0.010	0.040	0.052	0.120	0.065	0.144	0.150	0.070	0.050	

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3
SAMPLE DATE	05/13/81	06/23/81	07/30/81	08/20/81	09/25/81	10/22/81	11/10/81	12/08/81	05/20/82	06/30/82
TRACE ELEMENTS										
IRON (FE) TOTAL	0.060									
LEAD (PB) TOTAL	0.001			<0.001			<0.001			
LEAD (PB) DISS	<0.001			<0.001			<0.001			
MANGANESE (MN) TOTAL	0.030	0.020	0.015	0.020	0.018	0.019	0.020	0.015	0.012	
MERCURY (HG) TOTAL	<0.0002			<0.0002			<0.0002			
MOLYBDENUM (MO) TOTAL	<0.001									
NICKEL (NI) TOTAL	<0.001									
SELENIUM (SE) TOTAL	<0.001			<0.001			<0.001			
SELENIUM (SE) DISS	<0.001			<0.001			<0.001			
SILVER (AG) TOTAL	<0.001			<0.001			<0.001			
SILVER (AG) DISS	<0.001			<0.001			<0.001			
ZINC (ZN) TOTAL	0.005			0.070			0.060			
ZINC (ZN) DISS	0.005			0.005			0.010			
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)				<2.0			<2.0			
TOTAL COLIFORM (NO./100ML)				8.0			2.0			
5 - DAY BOD				1.4						
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	2.10			12.00			4.00			
PHENOLS	0.014	0.494	<0.001	<0.001	<0.001	<0.001	<0.001	0.068		
OTHER PARAMETERS										
OIL AND GREASE	0.40			2.60			2.40			
CYANIDE (CN)	<0.001			0.002			0.006			

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3	UPL-3
SAMPLE DATE	07/22/82	08/20/82	09/15/82	10/15/82	06/30/83	07/21/83	08/26/83	09/29/83	10/27/83	06/29/84
LOCATION	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW
LOCATION	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	21	27	9	18	13	18	16	16	16	18
WATER TEMPERATURE (C)	6	7	5	7	4	6	9	8	9	12
SPEC. COND. (UMHOS/CM) FIELD	138	238	220	288	210	258	162	272	282	254
PH FIELD	7.5	8.4	8.1	8.6	7.3	7.2	7.7	7.2	7.4	8.4
TURBIDITY (NTU) FIELD	11	7.3	3.5	3	28	10.1	7.1	5.2	7.6	23
TOTAL SUSP. SOLIDS		13.0					13.0			
TOTAL DISS. SOLIDS MEAS.		195					136			
OXYGEN (O) DISS		8.0					6.0			
COMMON IONS										
CALCIUM (CA)		40.80					36.80			
MAGNESIUM (MG)		9.60					6.72			
SODIUM (NA)		1.8					4.0			
POTASSIUM (K)		0.79					0.7			
ACIDITY AS CACO3		3.0					12.00			
ALKALINITY AS CACO3 (LAB)		127					116			
BICARBONATE (HCO3) (LAB)		155					142			
SULFATE (SO4)		<3.0					11			
CHLORIDE (CL)		15.30					<0.1			
FLUORIDE (F)		0.09					0.06			
NUTRIENTS										
NITRATE (NO3-N)		0.44					<0.02			
AMMONIA (NH3 AS N)		0.16					0.55			
TOTAL PHOSPHATE (PO4)		0.090					0.02			
TRACE ELEMENTS										
BARIUM (BA) TOTAL		0.068					0.020			
BORON (B) TOTAL		0.013					0.040			
COPPER (CU) TOTAL		<0.001					0.020			
IRON (FE) TOTAL		0.080					0.210			
LEAD (PB) TOTAL		<0.001					0.007			
MANGANESE (MN) TOTAL		0.080					0.025			
ZINC (ZN) TOTAL		0.002					0.037			
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)		7.80					0.50			
PHENOLS		0.008					<0.001			
OTHER PARAMETERS										
OIL AND GREASE		0.2					<0.2			
CYANIDE (CN)		0.004					<0.001			

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	UFL-3	UFL-3	UFL-3	UFL-3	UFL-3	UFL-3
SAMPLE DATE	07/31/84	08/24/84	09/26/84	10/15/85	05/27/86	06/19/86
LOCATION	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW	HUNT.CR.BLW
LOCATION	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK
PHYSICAL PARAMETERS						
AIR TEMPERATURE (C)	17	15	15	12	22	19
WATER TEMPERATURE (C)	9	6	9	6	3	14
SPEC. COND. (UMHOS/CM) FIELD	245	352	256	250	222	208
PH FIELD	7.2	7.7	7.3	7.2	6.7	7.7
TURBIDITY (NTU) FIELD	22	13	5.9	3.6	2.8	
TOTAL SUSP. SOLIDS		3.0				
TOTAL DISS. SOLIDS MEAS.		210				
OXYGEN (O) DISS		8.4				
COMMON IONS						
CALCIUM (CA)		48.00				
MAGNESIUM (MG)		14.40				
SODIUM (NA)		29.00				
POTASSIUM (K)		0.75				
ACIDITY AS CACO3		15.70				
ALKALINITY AS CACO3 (LAB)		150				
BICARBONATE (HCO3) (LAB)		183.0				
SULFATE (SO4)		12				
CHLORIDE (CL)		15.0				
FLUORIDE (F)		0.14				
NUTRIENTS						
NITRATE (NO3-N)		0.31				
AMMONIA (NH3 AS N)		0.03				
TOTAL PHOSPHATE (PO4)		.0.01				
TRACE ELEMENTS						
BARIUM (BA) TOTAL		0.03				
BORON (B) TOTAL		0.013				
COPPER (CU) TOTAL		0.016				
IRON (FE) TOTAL		1.40				
LEAD (PB) TOTAL		0.011				
MANGANESE (MN) TOTAL		0.03				
ZINC (ZN) TOTAL		0.031				
ORGANIC PARAMETERS						
ORGANIC CARBON (TOTAL)		<0.01				
PHENOLS		<0.001				
OTHER PARAMETERS						
OIL AND GREASE		<0.1				
CYANIDE (CN)		<0.001				

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10
SAMPLE DATE	05/13/81	06/23/81	07/30/81	08/21/81	09/24/81	10/22/81	11/10/81	12/08/81	06/28/82	07/21/82
LOCATION	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV
LOCATION	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	11	20	23	14	16	9	4	10	20	21
FLOW (CFS)	7.45	2.4					1.10		12!9	6.05
WATER TEMPERATURE (C)	11	17.5	13	11	15	0	3	0	13	13
SPEC. COND. (UMHOS/CM) FIELD	170	200	250	280	260	290	300	330	332	231
PH FIELD	8.2	8.4	8.2	8.2	8.5	6.8	8.0	8.2	8.2	7.9
TURBIDITY (NTU) FIELD	3.60			2.00			2.00		10.5	8.3
TOTAL SUSP. SOLIDS	10	7.0	1.0	2.0	11.0	3.1	4.0	2.0		
TOTAL DISS. SOLIDS MEAS.	115	131	167	179	177	195	196	212		
OXYGEN (O) DISS	9.5	9.8	9.9	10.8	9.6	10.2	12.8			
COMMON IONS										
TOTAL HARDNESS AS CACO3	92									
CALCIUM (CA)	29.60	40.00	48.80	57.06	48.00	53.60	48.50	54.50		
MAGNESIUM (MG)	4.32	5.76	9.12	6.24	9.12	6.24	7.00	8.00		
SODIUM (NA)	6.80	1.70	2.10	2.40	2.20	13.50	12.90	11.80		
POTASSIUM (K)	0.54	0.57	0.73	0.82	0.69	0.92	0.90	0.80		
ACIDITY AS CACO3	2.00			<0.01			<0.01			
ALKALINITY AS CACO3 (LAB)	84			158		181	145	155		
BICARBONATE (HCO3) (LAB)	102	127	171	190	161	221	162	189		
CARBONATE AS CO3 (LAB)	<0.01									
SULFATE (SO4)	19.5	18.0	18.0	12.0	24.0	6.0	38.0	33.0		
CHLORIDE (CL)	2.80	2.48	2.81	2.85	2.61	3.80	3.00	2.70		
FLUORIDE (F)	0.10			0.14			0.09			
NUTRIENTS										
NITRATE (NO3-N)	0.23			<0.01			0.11			
NITRITE (NO2-N)	0.02									
AMMONIA (NH3 AS N)	<0.01	<0.01	<0.01	<0.01	0.17	<0.01	0.30	0.65		
TOTAL PHOSPHATE (PO4)	0.090		0.350	0.190	6.000	0.200	0.360	0.800		
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	0.040									
ARSENIC (AS) TOTAL	<0.001			<0.001			<0.001			
ARSENIC (AS) DISS	<0.001			<0.001			<0.001			
BARIUM (BA) TOTAL	0.029			0.035			0.035			
BARIUM (BA) DISS	0.020			0.028			0.025			
BORON (B) TOTAL	0.004			0.016			0.015			
BORON (B) DISS	<0.001			0.011			0.010			
CADMIUM (CD) TOTAL	<0.001			<0.001			<0.001			
CADMIUM (CD) DISS	<0.001			<0.001			<0.001			
CHROMIUM (CR) TOTAL	<0.001			<0.001			<0.001			
CHROMIUM (CR) DISS	<0.001			<0.001			<0.001			
COPPER (CU) TOTAL	<0.001			0.010			<0.001			
COPPER (CU) DISS	<0.001			<0.001			<0.001			

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10
SAMPLE DATE	05/13/81	06/23/81	07/30/81	08/21/81	09/24/81	10/22/81	11/10/81	12/08/81	06/28/82	07/21/82
TRACE ELEMENTS										
IRON (FE) TOTAL	0.080	0.300	0.277	0.520	0.310	0.550	0.580	0.370		
IRON (FE) TOTAL	0.480									
LEAD (PB) TOTAL	0.002			0.004			<0.001			
LEAD (PB) DISS	<0.001			0.002			<0.001			
MANGANESE (MN) TOTAL	0.020	0.020	0.019	0.040	0.021	0.045	0.048	0.040		
MERCURY (HG) TOTAL	<0.0002			<0.0002			<0.0002			
MOLYBDENUM (MO) TOTAL	<0.001									
NICKEL (NI) TOTAL	<0.001									
SELENIUM (SE) TOTAL	<0.001			<0.001			<0.001			
SELENIUM (SE) DISS	<0.001			<0.001			<0.001			
SILVER (AG) TOTAL	<0.001			<0.001			<0.001			
SILVER (AG) DISS	<0.001			<0.001			<0.001			
ZINC (ZN) TOTAL	0.008			0.017			0.019			
ZINC (ZN) DISS	0.005			0.010			0.012			
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)				170			2.0			
TOTAL COLIFORM (NO./100ML)				2200			110			
5 - DAY BOD				1.5						
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	4.10			21.70			11.30			
PHENOLS	0.025	<0.001	<0.001	<0.001	<0.001	<0.001	28.000	0.026		
OTHER PARAMETERS										
OIL AND GREASE	<0.01			2.40			23.80			
CYANIDE (CN)	<0.001			0.003			<0.001			

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10
SAMPLE DATE	08/17/82	09/15/82	10/15/82	06/28/83	07/19/83	08/24/83	09/27/83	10/20/83	05/24/84	06/26/84
LOCATION	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV
LOCATION	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	20	10	11	17	23	16	13	9	13	14
FLOW (CFS)	2.58	3.20	3.60	63.1	11.35	5.31	7.75	5.10	•	31.2
WATER TEMPERATURE (C)	14	8	4	13	12	9	10	6	8	11
SPEC. COND. (UMHOS/CM) FIELD	246	320	247	126	270	315	263	283	142	227
PH FIELD	8.2	8.0	8.6	8.0	8.0	7.6	6.6	7.7	7.3	6.8
TURBIDITY (NTU) FIELD	11.0	50	15	24	22	16	100+	15	100+	22
TOTAL SUSP. SOLIDS	17.0					41.0				
TOTAL DISS. SOLIDS MEAS.	187					176				
OXYGEN (O) DISS	8.6					7.4				
COMMON IONS										
CALCIUM (CA)	50.40					49.60				
MAGNESIUM (MG)	6.72					8.64				
SODIUM (NA)	13.0					2.3				
POTASSIUM (K)	0.64					0.7				
ACIDITY AS CACO3	<0.01					16.00				
ALKALINITY AS CACO3 (LAB)	171					154				
BICARBONATE (HCO3) (LAB)	208					188				
SULFATE (SO4)	<3.0					13				
CHLORIDE (CL)	11.20					<0.1				
FLUORIDE (F)	0.11					0.07				
NUTRIENTS										
NITRATE (NO3-N)	0.23					<0.02				
AMMONIA (NH3 AS N)	0.29					0.90				
TOTAL PHOSPHATE (PO4)	0.100					0.03				
TRACE ELEMENTS										
BARIUM (BA) TOTAL	0.060					0.021				
BORON (B) TOTAL	0.015					0.025				
COPPER (CU) TOTAL	0.010					0.010				
IRON (FE) TOTAL	0.630					0.720				
LEAD (PB) TOTAL	0.005					0.002				
MANGANESE (MN) TOTAL	0.040					0.050				
ZINC (ZN) TOTAL	0.003					0.020				
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	7.90					1.60				
PHENOLS	0.004					<0.001				
OTHER PARAMETERS										
OIL AND GREASE	0.4					<0.2				
CYANIDE (CN)	0.005					<0.001				

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10	UPL-10
SAMPLE DATE	07/31/84	08/24/84	09/27/84	10/15/85	05/27/86	06/19/86
LOCATION	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV	HUNT.CR.ABV
LOCATION	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK	ELECTRIC LK
PHYSICAL PARAMETERS						
AIR TEMPERATURE (C)	15	14	9	10	15	21
FLOW (CFS)	5.35	3.10	2.88	2.15		31.2
WATER TEMPERATURE (C)	12	10	3.5	6	7	14
SPEC. COND. (UMHOS/CM) FIELD	291	35.3	311	290	120	191
PH FIELD	7.5	7.7	7.6	7.7	7.3	7.8
TURBIDITY (NTU) FIELD	33	29	14	7.4	32.5	
TOTAL SUSP. SOLIDS		17.0				
TOTAL DISS. SOLIDS MEAS.		225				
OXYGEN (O) DISS		9.4				
COMMON IONS						
CALCIUM (CA)		60.00				
MAGNESIUM (MG)		21.60				
SODIUM (NA)		9.50				
POTASSIUM (K)		0.63				
ACIDITY AS CACO3		11.20				
ALKALINITY AS CACO3 (LAB)		180				
BICARBONATE (HCO3) (LAB)		219.6				
SULFATE (SO4)		<10				
CHLORIDE (CL)		20.0				
FLUORIDE (F)		0.13				
NUTRIENTS						
NITRATE (NO3-N)		0.13				
AMMONIA (NH3 AS N)		0.02				
TOTAL PHOSPHATE (PO4)		0.02				
TRACE ELEMENTS						
BARIUM (BA) TOTAL		0.03				
BORON (B) TOTAL		0.021				
COPPER (CU) TOTAL		0.020				
IRON (FE) TOTAL		0.16				
LEAD (PB) TOTAL		0.007				
MANGANESE (MN) TOTAL		0.07				
ZINC (ZN) TOTAL		0.044				
ORGANIC PARAMETERS						
ORGANIC CARBON (TOTAL)		<0.01				
PHENOLS		<0.001				
OTHER PARAMETERS						
OIL AND GREASE		<0.01				
CYANIDE (CN)		<0.001				

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6
SAMPLE DATE	01/27/81	03/11/81	04/08/81	05/12/81	06/23/81	07/29/81	08/20/81	09/24/81	10/23/81	11/11/81
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK.	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	-2	4	7	17	22	24	15	18	2	4
FLOW (CFS)			0.9	0.56						
WATER TEMPERATURE (C)	0	1	2	6	12	14.5	10	11	2	1
SPEC. COND. (UMHOS/CM) FIELD	265	258	248	300	320	380	440	590	520	420
PH FIELD	7.8	7.9	8.1	8.4	8.1	8.3	8.3	8.2	7.8	7.8
TURBIDITY (NTU) FIELD				18.00			3.20			0.70
TOTAL SUSP. SOLIDS	7.0	11.0	534	52.0	25.0	35.0	1.0	19.0	12.0	12.0
TOTAL DISS. SOLIDS MEAS.	295	265	290	201	210	250	285	385	338	278
OXYGEN (O) DISS				9.5	9.5	10.5	6.6	9.2	11.0	11.4
COMMON IONS										
TOTAL HARDNESS AS CACO3				188						
CALCIUM (CA)	87.20	78.40	83.20	56.00	29.60	20.80	88.00	46.40	35.20	45.60
MAGNESIUM (MG)	16.80	17.28	16.32	11.52	12.48	51.84	9.60	8.16	11.52	20.50
SODIUM (NA)	7.50	3.30	5.10	6.50	35.40	3.80	4.00	50.00	86.00	29.00
POTASSIUM (K)	1.90	1.39	1.95	1.05	1.29	1.71	1.69	1.50	1.30	2.23
ACIDITY AS CACO3				<0.01			<0.01			<0.01
ALKALINITY AS CACO3 (LAB)				186			250		294	255
BICARBONATE (HCO3) (LAB)	356.24	314.76	285.48	212	229	283	281	298	359	297
CARBONATE AS CO3 (LAB)				7.20						
SULFATE (SO4)	6.0	7.2	44.0	9.0	15.0	30.0	29.0	15.0	24.0	15.0
CHLORIDE (CL)	4.67	6.38	6.00	6.00	4.33	6.07	5.75	5.76	5.20	7.30
FLUORIDE (F)				0.16			0.20			0.18
NUTRIENTS										
NITRATE (NO3-N)				0.29			0.32			0.54
NITRITE (NO2-N)				0.03						
AMMONIA (NH3 AS N)	<0.01	<0.01	0.15	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.37
TOTAL PHOSPHATE (PO4)	0.050	0.080	1.280	0.170		0.320	0.180	0.710	0.730	0.380
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL				<0.001						
ARSENIC (AS) TOTAL				<0.001			<0.001			<0.001
ARSENIC (AS) DISS				<0.001			<0.001			<0.001
BARIUM (BA) TOTAL				0.045			0.055			0.050
BARIUM (BA) DISS				0.030			0.045			0.018
BORON (B) TOTAL				0.012			0.030			0.026
BORON (B) DISS				0.010			0.020			0.020
CADMIUM (CD) TOTAL				<0.001			<0.001			<0.001
CADMIUM (CD) DISS				<0.001			<0.001			<0.001
CHROMIUM (CR) TOTAL				<0.001			<0.001			<0.001
CHROMIUM (CR) DISS				<0.001			<0.001			<0.001
COPPER (CU) TOTAL				0.010			0.013			<0.001
COPPER (CU) DISS				<0.001			<0.001			<0.001

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6
SAMPLE DATE	01/27/81	03/11/81	04/08/81	05/12/81	06/23/81	07/29/81	08/20/81	09/24/81	10/23/81	11/11/81
TRACE ELEMENTS										
IRON (FE) TOTAL	0.330	0.120	0.310	1.240	0.140	0.136	0.200	0.150	0.144	0.380
LEAD (PB) TOTAL				0.004			<0.001			<0.001
LEAD (PB) DISS				<0.001			<0.001			<0.001
MANGANESE (MN) TOTAL	0.031	0.020	0.028	0.030	0.020	0.016	0.060	0.012	0.010	0.060
MERCURY (HG) TOTAL				<0.0002			<0.0002			<0.0002
MOLYBDENUM (MO) TOTAL				<0.001						
NICKEL (NI) TOTAL				<0.001						
SELENIUM (SE) TOTAL				<0.001			<0.001			<0.001
SELENIUM (SE) DISS				<0.001			<0.001			<0.001
SILVER (AG) TOTAL				<0.001			<0.001			<0.001
SILVER (AG) DISS				<0.001			<0.001			<0.001
ZINC (ZN) TOTAL				0.025			0.028			0.015
ZINC (ZN) DISS				0.007			0.020			0.010
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)							23.0			2.0
TOTAL COLIFORM (NO./100ML)							1300			200
5 - DAY BOD							2.3			2.6
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)				2.80			1.00			3.80
PHENOLS	0.014	<0.001	0.266	<0.001	<0.001	0.017	<0.001	<0.001		0.002
OTHER PARAMETERS										
OIL AND GREASE				<0.01			1.60			<0.01
CYANIDE (CN)				<0.001			0.002			<0.001
SULFIDE				1.20						

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6
SAMPLE DATE	12/09/81	05/20/82	06/30/82	07/21/82	08/19/82	09/14/82	10/14/82	11/09/82	12/14/82	01/19/83
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	7	14	16	22	26	7	5	-1	-5	-3
FLOW (CFS)			1.00	1.00	0.78	0.55	0.56	0.50		0.50
WATER TEMPERATURE (C)	1	4	9	12	12	6	4	1	1	2.5
SPEC. COND. (UMHOS/CM) FIELD	510	248	350	418	370	405	460	535	470	535
PH FIELD	8.0	7.9	8.2	8.0	8.4	8.6	8.5	7.7	7.7	8.0
TURBIDITY (NTU) FIELD		100+	44	41	5.4	100+	103	71	23	12
TOTAL SUSP. SOLIDS	4.0	460	15.0	62.0	75.0	376	407	329	51.0	25.0
TOTAL DISS. SOLIDS MEAS.	333	179	238	266	258	288	300	310	316	335
COMMON IONS										
CALCIUM (CA)	90.00	48.80	66.00	40.00	69.60	76.80	74.40	76.00	78.00	86.40
MAGNESIUM (MG)	21.50	9.40	11.80	15.84	18.24	15.84	19.20	17.28	24.00	18.72
SODIUM (NA)	4.10	2.4	3.1	45.0	5.7	6.4	11.8	4.7	5.5	10.0
POTASSIUM (K)	1.80	4.40	1.03	1.10	1.74	2.16	2.20	1.74	2.05	1.95
ACIDITY AS CACO3					2.00					
ALKALINITY AS CACO3 (LAB)	284	143		263	237					
BICARBONATE (HCO3) (LAB)	337	174	215	321	289	296	307	309	322	344
SULFATE (SO4)	38.0	22.0	39.0	3.0	(3.0	20.0	30.0	10.0	36.0	27.0
CHLORIDE (CL)	5.00	1.90	1.70	0.60	18.70	6.00	8.10	5.40	3.50	6.60
FLUORIDE (F)					0.15					
NUTRIENTS										
NITRATE (NO3-N)					0.48					
AMMONIA (NH3 AS N)	0.62		0.33		0.38		0.27			
TOTAL PHOSPHATE (PO4)	0.490		0.460		0.210		0.120			
TRACE ELEMENTS										
BARIUM (BA) TOTAL					0.030					
BORON (B) TOTAL					0.018					
COPPER (CU) TOTAL					0.010					
IRON (FE) TOTAL	0.270	7.100		1.000	1.150	10.500	2.030	1.850	0.900	0.380
LEAD (PB) TOTAL					0.002					
MANGANESE (MN) TOTAL	0.55	0.065		0.050	0.075	0.425	0.417	0.210	0.235	0.305
ZINC (ZN) TOTAL					0.012					
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)					11.90					
PHENOLS	0.020				0.013		(0.001			
OTHER PARAMETERS										
OIL AND GREASE					1.0		2.8			
CYANIDE (CN)					(0.001					

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6
SAMPLE DATE	02/15/83	03/31/83	04/21/83	05/25/83	06/30/83	07/20/83	08/25/83	09/29/83	10/26/83	11/11/83
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	-2	2	7	17	7	15	15	10	.9	1
FLOW (CFS)	0.50	0.55	0.55	11.9	3.72	1.22	0.81	0.81	0.56	0.59
WATER TEMPERATURE (C)	0.5	2	3	7	6	10	11	7	6	3
SPEC. COND. (UMHOS/CM) FIELD	562	565	658	311	359	471	341	573	542	476
PH FIELD	8.2	8.1	7.8	7.7	7.9	8.0	7.9	7.8	7.9	7.4
TURBIDITY (NTU) FIELD	36	65	100+	100+	27	23	17	34	21	24
TOTAL SUSP. SOLIDS	17.0	67.0	150	19.50	26.0	2.0	149	28.0	36.0	33.0
TOTAL DISS. SOLIDS MEAS.	370	359	320	216	232	290	280	290	335	320
TOTAL SETTLEABLE SOLIDS				0.4						
OXYGEN (O) DISS							6.0			
COMMON IONS										
CALCIUM (CA)	79.20	72.00	71.20	47.20	61.60	76.00	68.00	72.00	75.20	71.20
MAGNESIUM (MG)	20.64	21.60	17.76	9.60	9.12	14.40	21.60	21.12	20.16	23.52
SODIUM (NA)	28.0	19.0	18.3	6.0	6.0	18.0	9.0	5.30	20.00	5.70
POTASSIUM (K)	1.77	1.91	2.00	1.35	1.11	1.6	1.9	1.9	1.4	1.8
ACIDITY AS CACO3							27.00			
ALKALINITY AS CACO3 (LAB)							250			
BICARBONATE (HCO3) (LAB)	333	299	261	178	225	303	305	283	281	299
SULFATE (SO4)	54.0	42.0	40.0	21.0	12.0	36	25	35	65	34
CHLORIDE (CL)	17.10	20.10	29.60	4.00	8.0	6.0		6.00	10.00	8.00
NUTRIENTS										
AMMONIA (NH3 AS N)					<0.1				<0.01	
TOTAL PHOSPHATE (PO4)					0.16				0.03	
TRACE ELEMENTS										
IRON (FE) TOTAL	0.710	1.070	4.900	16.100	0.500	0.230		0.770		0.410
MANGANESE (MN) TOTAL	0.265	0.115	0.200			0.170		0.211		0.180

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6
SAMPLE DATE	12/14/83	01/18/84	02/22/84	03/22/84	04/26/84	05/17/84	06/28/84	07/27/84	08/28/84	09/18/84
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	-3	-24	-9	-4	-5	14	18	14	14	6
FLOW (CFS)						25.4	6.4	2.9	0.88	1.11
WATER TEMPERATURE (C)	1	0	0.5	1	2	8	13	11	12	10
SPEC. COND. (UMHOS/CM) FIELD	602	577	569	560	461	328	410	483	600	504
PH FIELD	8.0	7.7	8.1	7.8	8.3	7.3	7.9	7.7	8.1	7.8
TURBIDITY (NTU) FIELD	48	7.9	10.1	19	49	100+	37	36	23	60
TOTAL SUSP. SOLIDS	11.0	14.0	6.0	29.0	59	1868	4.0	17.0	21.0	112
TOTAL DISS. SOLIDS MEAS.	380	344	400	460	350	620	256	270	286	346
OXYGEN (O) DISS									8.6	
COMMON IONS										
CALCIUM (CA)	79.20	84.00	90.00	83.20	76.00	160.00	76.00	77.60	74.00	82.00
MAGNESIUM (MG)	22.08	2.16	34.80	23.52	33.60	36.00	7.20	14.60	26.40	25.20
SODIUM (NA)	25.70	45.00	9.50	12.90	6.20	3.30	20.00	4.80	21.00	6.70
POTASSIUM (K)	2.3	1.8	2.1	1.9	1.3	2.9	1.7	1.49	2.17	3.05
ACIDITY AS CACO3									10.00	
ALKALINITY AS CACO3 (LAB)									210	
BICARBONATE (HCO3) (LAB)	295	307.4	306.2	316.0	267.2	201.3	287.9	296.5	256.2	305.0
SULFATE (SO4)	52	50	80	25	95	319	30	20	80	64
CHLORIDE (CL)	34.00	14.0	18.0	31.0	12.0	37.5	3.3	4.9	7.0	10.0
FLUORIDE (F)									0.26	
NUTRIENTS										
NITRATE (NO3-N)									0.24	
AMMONIA (NH3 AS N)							0.16		<0.01	
TOTAL PHOSPHATE (PO4)							0.05		0.03	
TRACE ELEMENTS										
BARIUM (BA) TOTAL									0.05	
BORON (B) TOTAL									0.028	
COPPER (CU) TOTAL									0.018	
IRON (FE) TOTAL	0.610	0.40	0.30	0.68	1.15	28.00	0.44	0.75	0.56	1.42
LEAD (PB) TOTAL									<0.001	
MANGANESE (MN) TOTAL	0.220	0.50	0.36	0.39	0.16	1.05	0.10	0.18	0.14	0.21
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)									0.40	
PHENOLS							<0.001		<0.001	
OTHER PARAMETERS										
OIL AND GREASE							0.8		<0.1	
CYANIDE (CN)									<0.001	

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6	VC-6
SAMPLE DATE	10/16/85	11/19/85	12/11/85	01/24/86	03/20/86	04/17/86	05/28/86	06/25/86
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK	ABV S. FK
PHYSICAL PARAMETERS								
AIR TEMPERATURE (C)	9	-10	-18	4	4	-4	21	17
FLOW (CFS)	1.12						18.9	3.17
WATER TEMPERATURE (C)	6	0.5	0.5	2	3	3	6	10
SPEC. COND. (UMHOS/CM) FIELD	556	625	546	584	601	507	261	472
PH FIELD	8.0	8.2	8.2	8.1	8.0	8.0	7.8	7.8
TURBIDITY (NTU) FIELD	17	5.3	13	1.1	6.6	18	95	8.06
TOTAL SUSP. SOLIDS	17.0	9.0	15.0	1.0	20.0	40.0	284	17.0
TOTAL DISS. SOLIDS MEAS.	342	400	408	412	412	320	210	296
COMMON IONS								
CALCIUM (CA)	86.40	83.60	78.80	82.00	90.80	83.60	47.60	71.20
MAGNESIUM (MG)	21.60	26.60	26.20	26.20	23.00	17.50	7.20	14.90
SODIUM (NA)	23.00	10.30	24.00	8.83	14.00	5.80	5.86	5.51
POTASSIUM (K)	4.03	3.35	2.97	2.63	2.33	2.12	0.55	2.01
BICARBONATE (HCO3) (LAB)	309.9	253.0	268.0	268.0	296.0	242.0	15.00	217.2
SULFATE (SO4)	97	120	111	100	95	80	138	65
CHLORIDE (CL)	6.7	8.0	24.2	12.0	14.6	7.0	2.5	3.9
NUTRIENTS								
AMMONIA (NH3 AS N)	<0.01							0.48
TOTAL PHOSPHATE (PO4)	0.02							0.02
TRACE ELEMENTS								
IRON (FE) TOTAL	0.23	0.21	0.12	0.04	0.25	0.17	1.40	0.05
MANGANESE (MN) TOTAL	0.09	0.10	0.06	0.09	0.15	0.08	0.12	0.08
ORGANIC PARAMETERS								
PHENOLS	<0.001							<0.001
OTHER PARAMETERS								
OIL AND GREASE	1.8		0.4					<0.1

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9
SAMPLE DATE	01/27/81	02/25/81	03/11/81	04/08/81	05/12/81	06/23/81	07/29/81	08/20/81	09/24/81	10/23/81
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV MUD. CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	0	10	2	8	17	27	28	11	22	3
FLOW (CFS)	2.7	3.8	2.4	2.3						
WATER TEMPERATURE (C)	1	5	3	6	11.5	12.5	15	8	12	2
SPEC. COND. (UMHOS/CM) FIELD	265	380	275	332	370	380	410	470	450	540
PH FIELD	7.8	8.1	7.9	8.1	8.3	8.1	8.2	8.1	8.1	7.6
TURBIDITY (NTU) FIELD					1.60			5.00		
TOTAL SUSP. SOLIDS	20.0	30.0	17.0	115	64	42	23	1.0	2.0	1.3
TOTAL DISS. SOLIDS MEAS.	285	246	265	290	245	248	268	312	280	350
OXYGEN (O) DISS					9.8	9.1	10.9	9.9	8.9	10.8
COMMON IONS										
TOTAL HARDNESS AS CACO3					228					
CALCIUM (CA)	73.60	20.20	67.20	79.20	83.20	26.40	48.80	68.80	48.00	61.60
MAGNESIUM (MG)	23.04	49.90	21.60	15.84	4.80	24.00	33.60	27.84	27.36	20.64
SODIUM (NA)	5.20	4.60	4.30	6.80	4.00	32.00	4.10	8.00	18.00	47.00
POTASSIUM (K)	2.00	2.34	2.15	2.40	1.70	2.06	2.28	2.31	2.00	2.40
ACIDITY AS CACO3					<0.01			<0.01		
ALKALINITY AS CACO3 (LAB)					200			258		319
BICARBONATE (HCO3) (LAB)	331.84	280.60	280.60	278	239	244	259	312	298	389
CARBONATE AS CO3 (LAB)					2.40					
SULFATE (SO4)	15.0	21.0	20.0	26.0	22.6	33.0	45.0	39.0	27.0	21.0
CHLORIDE (CL)	5.00	10.00	10.64	16.00	9.70	6.72	7.65	8.12	5.18	5.20
FLUORIDE (F)					0.20			0.21		
NUTRIENTS										
NITRATE (NO3-N)					0.06			<0.01		
NITRITE (NO2-N)					0.01					
AMMONIA (NH3 AS N)	<0.01	<0.01	<0.01	0.15	<0.1	<0.01	<0.01	<0.01	0.12	<0.01
TOTAL PHOSPHATE (PO4)	0.030	<0.001	0.070	0.020	0.150		0.240	0.300	0.800	0.850
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL					0.200					
ARSENIC (AS) TOTAL					<0.001			0.002		
ARSENIC (AS) DISS					<0.001			<0.001		
BARIUM (BA) TOTAL					0.080			0.055		
BARIUM (BA) DISS					0.050			0.020		
BORON (B) TOTAL					0.025			0.030		
BORON (B) DISS					0.020			0.006		
CADMIUM (CD) TOTAL					<0.001			<0.001		
CADMIUM (CD) DISS					<0.001			<0.001		
CHROMIUM (CR) TOTAL					<0.001			<0.001		
CHROMIUM (CR) DISS					<0.001			<0.001		
COPPER (CU) TOTAL					0.010			0.040		
COPPER (CU) DISS					<0.001			<0.001		

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9
SAMPLE DATE	01/27/81	02/25/81	03/11/81	04/08/81	05/12/81	06/23/81	07/29/81	08/20/81	09/24/81	10/23/81
TRACE ELEMENTS										
IRON (FE) TOTAL	1.200	0.740	0.360	0.750	0.820	0.440	0.380	0.460	0.410	0.440
LEAD (PB) TOTAL					0.004			<0.001		
LEAD (PB) DISS					<0.001			<0.001		
MANGANESE (MN) TOTAL	0.095	0.080	0.070	0.090	0.080	0.050	0.043	0.120	0.048	0.130
MERCURY (HG) TOTAL					<0.0002			<0.0002		
MOLYBDENUM (MO) TOTAL					<0.001					
NICKEL (NI) TOTAL					<0.001					
SELENIUM (SE) TOTAL					0.002			<0.001		
SELENIUM (SE) DISS					<0.001			<0.001		
SILVER (AG) TOTAL					<0.001			<0.001		
SILVER (AG) DISS					<0.001			<0.001		
ZINC (ZN) TOTAL					0.010			0.025		
ZINC (ZN) DISS					0.005			0.010		
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)								23.0		
TOTAL COLIFORM (NO./100ML)								3300		
5 - DAY BOD								1.2		
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)					19			8.30		
PHENOLS	<0.001	0.003	<0.001	0.003	0.74	<0.001	<0.001	<0.001	<0.001	<0.001
OTHER PARAMETERS										
OIL AND GREASE					1.00			1.40		
CYANIDE (CN)					<0.001			0.001		

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9
SAMPLE DATE	11/11/81	12/09/81	01/21/82	02/18/82	03/31/82	04/15/82	05/20/82	06/30/82	07/22/82	08/19/82
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	7	10	-6	12	-1	3	11	18	13	26
WATER TEMPERATURE (C)	4	3	2	3	2	4	8	11	9	12
SPEC. COND. (UMHOS/CM) FIELD	450	510	450	550	612	567	322	400	443	392
PH FIELD	7.6	8.0	8.4	7.9	7.9	7.7	8.0	8.4	8.4	8.1
TURBIDITY (NTU) FIELD	0.44				40	98	100+	54	21	103
TOTAL SUSP. SOLIDS	8.0	3.0	128	31.0	113	328	339	40.0	40.0	193
TOTAL DISS. SOLIDS MEAS.	300	330	291	355	324	370	235	253	226	289
OXYGEN (O) DISS	10.2									10.3
COMMON IONS										
CALCIUM (CA)	62.40	77.50	60.90	80.00	90.50	90.00	56.00	64.00	38.40	69.60
MAGNESIUM (MG)	29.00	27.50	24.80	27.50	28.50	27.00	13.30	16.40	24.91	23.52
SODIUM (NA)	4.60	4.80	12.00	6.80	8.70	2.4	9.2	4.4	14.0	6.1
POTASSIUM (K)	2.40	2.20	2.10	2.10	2.25	6.80	6.90	1.70	1.80	2.54
ACIDITY AS CACO3	<0.01									2.00
ALKALINITY AS CACO3 (LAB)	246	255	257	255	266	237	178		226	232
BICARBONATE (HCO3) (LAB)	286	311	313	312	202	289	217	211	276	283
SULFATE (SO4)	41.0	52.0	18.0	60.0	75.0	70.0	36.0	55.0	4.0	8.0
CHLORIDE (CL)	6.10	5.30	8.10	11.10		24.40	4.10	4.30	3.30	31.80
FLUORIDE (F)	0.15									0.19
NUTRIENTS										
NITRATE (NO3-N)	0.04									0.16
AMMONIA (NH3 AS N)	1.38	0.63	2.46	<0.02				0.20		0.33
TOTAL PHOSPHATE (PO4)	0.260	0.440	0.460	0.080				0.090		0.170
TRACE ELEMENTS										
ARSENIC (AS) TOTAL	<0.001									
ARSENIC (AS) DISS	<0.001									
BARIUM (BA) TOTAL	0.065									0.070
BARIUM (BA) DISS	0.050									
BORON (B) TOTAL	0.035									0.014
BORON (B) DISS	0.030									
CADMIUM (CD) TOTAL	<0.001									
CADMIUM (CD) DISS	<0.001									
CHROMIUM (CR) TOTAL	<0.001									
CHROMIUM (CR) DISS	<0.010									
COPPER (CU) TOTAL	0.012									0.010
COPPER (CU) DISS	0.010									
IRON (FE) TOTAL	0.010	0.370	3.340	0.960	1.650	5.450	4.500	1.250	0.800	2.600
IRON (FE) TOTAL	0.490									
LEAD (PB) TOTAL	<0.001									0.004
LEAD (PB) DISS	<0.001									
MANGANESE (MN) TOTAL	0.100	0.080	0.135	0.080	0.170	0.250	0.125	0.115	0.070	0.115

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9
SAMPLE DATE	11/11/81	12/09/81	01/21/82	02/18/82	03/31/82	04/15/82	05/20/82	06/30/82	07/22/82	08/19/82
TRACE ELEMENTS										
MERCURY (HG) TOTAL	<0.0002						<0.0002			
SELENIUM (SE) TOTAL	<0.001									
SELENIUM (SE) DISS	<0.001									
SILVER (AG) TOTAL	<0.001									
SILVER (AG) DISS	<0.001									0.015
ZINC (ZN) TOTAL	0.010									
ZINC (ZN) DISS	0.010									
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)	<2.0									
TOTAL COLIFORM (NO./100ML)	2300									
5 - DAY BOD	3.0									
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	11.40									10.00
PHENOLS	<0.001	0.020	0.023	0.010				<0.001		0.004
OTHER PARAMETERS										
OIL AND GREASE	0.20							16.0		0.2
CYANIDE (CN)	0.026									<0.001

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9
SAMPLE DATE	09/14/82	10/14/82	11/10/82	12/14/82	01/19/83	02/15/83	03/31/83	04/21/83	05/25/83	06/30/83
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	7	13	-1	-5	-5	-1	-1	8	17	12
WATER TEMPERATURE (C)	6	6	0	0	1.3	1	3	4	6	8
SPEC. COND. (UMHOS/CM) FIELD	410	530	520	407	574	566	624	793	356	397
PH FIELD	8.4	8.4	7.9	7.8	7.8	8.0	8.0	7.7	7.8	7.9
TURBIDITY (NTU) FIELD	32	52	20	20	19	45	78	100+	100+	31
TOTAL SUSP. SOLIDS	90.0	159	45.0	31.0	34.0	65.0	297	984	4166	25.0
TOTAL DISS. SOLIDS MEAS.	335	312	295	315	368	365	394	388	288	262
TOTAL SETTLEABLE SOLIDS									0.6	
COMMON IONS										
CALCIUM (CA)	72.80	78.40	74.40	68.00	77.60	73.60	71.20	80.00	49.60	59.20
MAGNESIUM (MG)	32.16	22.56	21.60	28.80	28.80	21.12	23.52	23.04	14.88	15.84
SODIUM (NA)	4.8	4.9	4.6	8.6	8.9	32.0	34.0	20.0	5.5	10.5
POTASSIUM (K)	2.19	2.35	2.00	2.25	2.31	2.24	2.34	3.10	1.59	1.45
BICARBONATE (HCO3) (LAB)	303	310	310	321	320	327	311	266	200	237
SULFATE (SO4)	58.0	39.0	20.0	31.0	42.0	48.0	58.0	65.0	28.0	32.0
CHLORIDE (CL)	10.50	6.10	6.80	9.00	18.80	21.50	31.20	39.40	8.00	10.0
NUTRIENTS										
AMMONIA (NH3 AS N)		0.37								<0.1
TOTAL PHOSPHATE (PO4)		0.060								0.20
TRACE ELEMENTS										
IRON (FE) TOTAL	1.550	1.170	0.710	1.350	0.710	0.970	2.000	15.400	36.200	0.760
MANGANESE (MN) TOTAL	0.120	0.130	0.115	0.125	0.125	0.135	0.145	0.505	1.000	0.065
ORGANIC PARAMETERS										
PHENOLS		<0.001								0.006
OTHER PARAMETERS										
OIL AND GREASE		<0.1								<0.2

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9
SAMPLE DATE	07/20/83	08/25/83	09/29/83	10/26/83	11/10/83	12/14/83	01/18/84	02/22/84	03/22/84	04/26/84
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	17	17	11	9	0	-2	-22	-4	-3	-5
WATER TEMPERATURE (C)	11	13	8	6	4	1	0	0.5	1	3
SPEC. COND. (UMHOS/CM) FIELD	527	575	597	574	516	652	593	575	625	1604
PH FIELD	8.0	7.7	7.8	7.9	7.9	8.0	7.9	8.3	7.9	8.4
TURBIDITY (NTU) FIELD	15	9.1	27	12	37	47	9.9	13	23	100+
TOTAL SUSP. SOLIDS	4.0	81.0	12.0	14.0	32.0	20.0	10.0	2.0	26.0	339
TOTAL DISS. SOLIDS MEAS.	320	295	316	360	340	450	338	380	460	850
OXYGEN (O) DISS		3.4								
COMMON IONS										
CALCIUM (CA)	66.40	63.20	72.00	67.20	70.40	80.00	78.40	78.00	80.00	96.00
MAGNESIUM (MG)	21.60	25.44	24.96	27.36	27.36	27.84	25.90	34.80	28.80	20.40
SODIUM (NA)	23.0	9.8	6.40	24.00	8.80	38.10	9.50	13.50	21.50	224
POTASSIUM (K)	2.3	0.8	2.8	2.5	2.6	3.1	2.2	2.4	2.3	2.5
ACIDITY AS CACO3		16.00								
ALKALINITY AS CACO3 (LAB)		226								
BICARBONATE (HCO3) (LAB)	286	276	249	268	283	290	298.9	303.8	312.3	314.8
SULFATE (SO4)	62	46	70	92	59	75	55	73	31	6
CHLORIDE (CL)	10.0	10.0	14.00	12.00	14.00	58.00	16.0	28.0	54.0	392
FLUORIDE (F)		0.16								
NUTRIENTS										
NITRATE (NO3-N)		<0.02								
AMMONIA (NH3 AS N)		0.30		<0.01						
TOTAL PHOSPHATE (PO4)		<0.01		0.02						
TRACE ELEMENTS										
BARIUM (BA) TOTAL		0.040								
BORON (B) TOTAL		0.044								
COPPER (CU) TOTAL		0.020								
IRON (FE) TOTAL	0.400	0.450	0.580	0.410	0.620	0.500	0.65	0.47	0.67	4.99
LEAD (PB) TOTAL		0.003								
MANGANESE (MN) TOTAL	0.095	0.100	0.098	0.110	0.120	0.140	0.18	0.16	0.17	0.28
ZINC (ZN) TOTAL		0.030								
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)		1.40								
PHENOLS		<0.2		<0.001						
OTHER PARAMETERS										
OIL AND GREASE		<0.2		<0.2						
CYANIDE (CN)		<0.001								

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9	VC-9
SAMPLE DATE	05/17/84	06/29/84	07/27/84	08/28/84	09/18/84	10/16/85	11/19/85	12/11/85	01/23/86	02/20/86
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	16	21	17	15	14	10	-10	-18	4	-2
WATER TEMPERATURE (C)	8	9	12	11	9	6	0.5	0.5	3	1
SPEC. COND. (UMHOS/CM) FIELD	363	491	560	661	531	576	970	664	682	744
PH FIELD	7.9	8.4	7.8	8.2	8.0	7.9	8.2	7.9	7.8	7.9
TURBIDITY (NTU) FIELD	100+	24	49	23	35	5.9	11.0	12.0	1.5	9.6
TOTAL SUSP. SOLIDS	1424	9.0	80.0	26.0	25.0	9.0	9.0	24.0	3.0	4.0
TOTAL DISS. SOLIDS MEAS.	750	198	280	380	362	390	586	420	402	490
OXYGEN (O) DISS				9.0						
COMMON IONS										
CALCIUM (CA)	140.00	74.00	77.40	70.00	80.00	107.20	80.00	80.40	71.60	78.00
MAGNESIUM (MG)	72.00	27.60	28.60	39.60	24.00	8.88	30.70	30.50	29.50	25.40
SODIUM (NA)	4.50	4.70	57.00	14.00	14.00	23.00	92.00	18.00	17.02	65.00
POTASSIUM (K)	2.5	1.8	2.17	2.45	2.84	4.12	2.89	2.43	2.58	2.56
ACIDITY AS CACO3				4.00						
ALKALINITY AS CACO3 (LAB)				275						
BICARBONATE (HCO3) (LAB)	231.8	283.0	290.4	335.5	305.0	309.9	287.0	298.0	272.0	278.0
SULFATE (SO4)	426	64	170	62	69	85	88	90	66	88
CHLORIDE (CL)	8.9	6.5	9.2	14.0	12.0	17.2	144	25.7	28.2	86.0
FLUORIDE (F)				0.26						
NUTRIENTS										
NITRATE (NO3-N)				0.04						
AMMONIA (NH3 AS N)		0.26		0.01		<0.01				
TOTAL PHOSPHATE (PO4)		0.06		0.03		<0.01				
TRACE ELEMENTS										
BARIUM (BA) TOTAL				0.06						
BORON (B) TOTAL				0.030						
COPPER (CU) TOTAL				0.017						
IRON (FE) TOTAL	20.20	0.39	1.43	1.50	0.73	0.21	0.40	0.39	0.23	0.67
LEAD (PB) TOTAL				<0.001						
MANGANESE (MN) TOTAL	0.74	0.07	0.13	0.08	0.10	0.07	0.10	0.08	0.08	0.08
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)				0.23						
PHENOLS		<0.001		<0.001		<0.001				
OTHER PARAMETERS										
OIL AND GREASE		0.8		<0.1		0.2		1.8		
CYANIDE (CN)				<0.001						

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-9	VC-9	VC-9	VC-9
SAMPLE DATE	03/20/86	04/17/86	05/28/86	06/25/86
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.	ABV MUD CR.
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	5	-2	22	20
WATER TEMPERATURE (C)	3	3	9	13
SPEC. COND. (UMHOS/CM) FIELD	763	2280	296	526
PH FIELD	8.0	8.1	7.7	7.6
TURBIDITY (NTU) FIELD	5.2	9.3	87	40.32
TOTAL SUSP. SOLIDS	28.0	242	486	81.0
TOTAL DISS. SOLIDS MEAS.	432	1320	204	292
COMMON IONS				
CALCIUM (CA)	88.80	87.60	48.80	63.20
MAGNESIUM (MG)	27.40	20.90	10.60	22.10
SODIUM (NA)	24.20	394.00	12.00	6.03
POTASSIUM (K)	2.78	2.50	0.78	2.36
BICARBONATE (HCO3) (LAB)	303.0	261.0	168.0	219.6
SULFATE (SO4)	72	104	51	67
CHLORIDE (CL)	52.3	59.0	4.6	7.9
NUTRIENTS				
TOTAL PHOSPHATE (PO4)				0.02
TRACE ELEMENTS				
IRON (FE) TOTAL	0.28	2.85	2.54	0.28
MANGANESE (MN) TOTAL	0.12	0.27	0.19	0.10

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10
SAMPLE DATE	05/12/81	06/23/81	07/29/81	08/20/81	09/24/81	10/23/81	11/11/81	12/09/81	05/20/82	06/30/82
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	17	22	24	10	18	2	6	7	14	16
FLOW (CFS)	0.70								5.05	2.49
WATER TEMPERATURE (C)	7.5	11	14	10	10	0	0	1	4	9
SPEC. COND. (UMHOS/CM) FIELD	280	220	340	350	310	440	380	400	241	300
PH FIELD	8.5	8.3	8.3	8.2	8.3	7.8	7.8	8.2	7.9	8.3
TURBIDITY (NTU) FIELD	0.70			0.60			0.38		33	15
TOTAL SUSP. SOLIDS	11.0	18.0	2.0	2.0	21.0	1.5	34.0	3.0	76	5.0
TOTAL DISS. SOLIDS MEAS.	184	144	210	223	214	288	249	265	188	185
OXYGEN (O) DISS	10.5	9.1	10.8	9.0	9.6					
COMMON IONS										
TOTAL HARDNESS AS CACO3	170									
CALCIUM (CA)	50.40	43.20	53.60	60.00	46.40	56.00	65.60	68.50	50.40	52.00
MAGNESIUM (MG)	10.56	14.88	17.76	16.80	19.68	21.12	18.50	17.50	9.80	9.50
SODIUM (NA)	3.50	9.50	2.20	2.60	4.10	26.00	2.40	6.00	2.0	1.9
POTASSIUM (K)	0.77	0.82	1.06	1.15	1.10	1.10	1.01	1.10	5.50	0.68
ACIDITY AS CACO3	<0.01			<0.01			<0.01			
ALKALINITY AS CACO3 (LAB)	166			204		274	229	239	166	
BICARBONATE (HCO3) (LAB)	193	217	222	239	244	335	260	292	202	176
CARBONATE AS CO3 (LAB)	4.80									
SULFATE (SO4)	6.0	10.5	24.0	21.0	6.0	9.0	25.0	15.0	8.2	21.0
CHLORIDE (CL)	6.00	2.52	3.13	3.32	2.59	3.70	3.20	2.60	1.00	3.00
FLUORIDE (F)	0.16			0.19			0.15			
NUTRIENTS										
NITRATE (NO3-N)	0.04			0.03			0.09			
NITRITE (NO2-N)	0.02									
AMMONIA (NH3 AS N)	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	0.52	0.53		0.24
TOTAL PHOSPHATE (PO4)	0.140		0.140	0.130	0.910	1.100	0.390	0.380		0.080
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	<0.001									
ARSENIC (AS) TOTAL	<0.001			<0.001			<0.001			
ARSENIC (AS) DISS	<0.001			<0.001			<0.001			
BARIUM (BA) TOTAL	0.050			0.025			0.030			
BARIUM (BA) DISS	0.045			0.020			0.025			
BORON (B) TOTAL	<0.001			0.020			0.020			
BORON (B) DISS	<0.001			0.010			0.015			
CADMIUM (CD) TOTAL	<0.001			<0.001			<0.001			
CADMIUM (CD) DISS	<0.001			<0.001			<0.001			
CHROMIUM (CR) TOTAL	<0.001			<0.001			<0.001			
CHROMIUM (CR) DISS	<0.001			<0.001			<0.001			
COPPER (CU) TOTAL	0.010			0.020			0.001			
COPPER (CU) DISS	<0.001			<0.001			<0.001			

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10
SAMPLE DATE	05/12/81	06/23/81	07/29/81	08/20/81	09/24/81	10/23/81	11/11/81	12/09/81	05/20/82	06/30/82
TRACE ELEMENTS										
IRON (FE) TOTAL	0.030	0.240	0.250	0.370	0.230	0.360	0.800	0.470	1.100	0.400
IRON (FE) TOTAL	0.230									
LEAD (PB) TOTAL	0.001			0.005			<0.001			
LEAD (PB) DISS	<0.001			0.002			<0.001			
MANGANESE (MN) TOTAL	0.020	0.030	0.025	0.060	0.030	0.055	0.090	0.083	0.060	0.025
MERCURY (HG) TOTAL	<0.0002			<0.0002			<0.0002			
MOLYBDENUM (MO) TOTAL	<0.001									
NICKEL (NI) TOTAL	<0.001									
SELENIUM (SE) TOTAL	<0.001			<0.001			<0.001			
SELENIUM (SE) DISS	<0.001			<0.001			<0.001			
SILVER (AG) TOTAL	<0.001			0.02			<0.001			
SILVER (AG) DISS	<0.001			<0.001			<0.001			
ZINC (ZN) TOTAL	0.010			0.045			0.035			
ZINC (ZN) DISS	0.005			0.035			0.005			
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)				70.0			5.0			
TOTAL COLIFORM (NO./100ML)				330			11.0			
5 - DAY BOD				1.0			5.1			
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	3.30			<0.01			5.60			
PHENOLS	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	0.036		0.008
OTHER PARAMETERS										
OIL AND GREASE	<0.01			1.20			1.60			<0.1
CYANIDE (CN)	<0.001			<0.001			<0.001			
SULFIDE	1.20									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10
SAMPLE DATE	07/22/82	08/20/82	09/14/82	10/14/82	11/09/82	12/14/82	01/19/83	02/15/83	03/31/83	04/21/83
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	14	17	7	5	-1	-8	-2	-2	2	9
FLOW (CFS)	0.98	0.55	0.55	0.62	0.30					
WATER TEMPERATURE (C)	8	10	3	1	0	0	2	0	0.5	0
SPEC. COND. (UMHOS/CM) FIELD	387	403	470	523	575	410	594	576	560	654
PH FIELD	8.4	8.6	8.4	8.4	7.8	7.9	7.9	7.8	7.9	7.7
TURBIDITY (NTU) FIELD	3.8	9.1	15	4.2	7.3	10	5.9	18	4.0	8.7
TOTAL SUSP. SOLIDS	10.0	17.0	1.0	25.0	21.0	8.0	2.0	9.0	30.0	9.0
TOTAL DISS. SOLIDS MEAS.	244	305	328	350	355	342	356	380	365	326
COMMON IONS										
CALCIUM (CA)	53.60	76.00	78.40	85.60	86.40	87.20	88.00	82.40	84.80	77.60
MAGNESIUM (MG)	20.64	22.56	25.92	27.84	24.96	25.44	25.44	21.12	18.24	23.52
SODIUM (NA)	14.0	2.7	2.5	0.9	2.5	2.8	2.7	24.0	21.0	2.6
POTASSIUM (K)	0.65	1.36	1.58	1.65	1.59	1.70	1.63	1.57	1.40	1.38
ACIDITY AS CACO3		3.00								
ALKALINITY AS CACO3 (LAB)	246	222								
BICARBONATE (HCO3) (LAB)	300	271	262	303	289	318	303	310	310	266
SULFATE (SO4)	3.0	47.0	83.0	78.0	75.0	62.0	74.0	87.0	80.0	74.0
CHLORIDE (CL)	2.90	12.40	4.50	3.20	3.50	2.50	3.40	4.70	1.60	5.90
FLUORIDE (F)		0.15								
NUTRIENTS										
NITRATE (NO3-N)		0.16								
AMMONIA (NH3 AS N)		0.34		0.37						
TOTAL PHOSPHATE (PO4)		0.100		0.020						
TRACE ELEMENTS										
BARIUM (BA) TOTAL		0.065								
BORON (B) TOTAL		0.021								
COPPER (CU) TOTAL		<0.001								
IRON (FE) TOTAL	0.110	0.150	0.190	0.140	0.280	0.330	0.390	0.300	0.290	0.400
LEAD (PB) TOTAL		<0.001								
MANGANESE (MN) TOTAL	0.18	0.030	0.030	0.035	0.030	0.030	0.035	0.038	0.030	0.030
ZINC (ZN) TOTAL		0.003								
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)		5.80								
PHENOLS		0.004		<0.001						
OTHER PARAMETERS										
OIL AND GREASE		0.6		1.2						
CYANIDE (CN)		0.005								

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10
SAMPLE DATE	05/25/83	06/30/83	07/20/83	08/25/83	09/29/83	10/26/83	11/11/83	12/14/83	02/22/84	03/22/84
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	18	7	15	16	10	9	1	-3	-9	-4
FLOW (CFS)	9.2	4.39	1.47	0.57	0.35	0.32	0.22			
WATER TEMPERATURE (C)	3	4	9	9	5	2	5	0	0	1
SPEC. COND. (UMHOS/CM) FIELD	330	282	434	544	538	510	482	501	527	535
PH FIELD	7.7	7.9	8.1	7.9	7.8	7.9	7.5	8.2	8.1	7.8
TURBIDITY (NTU) FIELD	100+	16	15	6.6	17	10.2	15	19	7.6	9.4
TOTAL SUSP. SOLIDS	244	8.0	1.0	23.0	9.0	15.0	4.0	9.0	3.0	4.0
TOTAL DISS. SOLIDS MEAS.	228	212	270	291	300	326	360	440	340	360
TOTAL SETTLEABLE SOLIDS	0.2									
OXYGEN (O) DISS				5.6						
COMMON IONS										
CALCIUM (CA)	51.20	55.20	66.00	67.20	75.20	72.00	80.00	85.60	112.00	86.80
MAGNESIUM (MG)	12.48	11.04	14.64	20.16	23.04	23.52	23.52	24.00	30.00	26.64
SODIUM (NA)	3.8	5.4	17.0	13.0	2.50	15.00	2.70	2.40	2.60	4.60
POTASSIUM (K)	1.28	0.75	1.1	1.3	1.5	1.0	1.4	1.5	1.6	1.7
ACIDITY AS CACO3				20.00						
ALKALINITY AS CACO3 (LAB)				238						
BICARBONATE (HCO3) (LAB)	198	203	259	290	261	251	284	278	299	305
SULFATE (SO4)	21.0	22.0	40	40	67	88	64	77	133	60
CHLORIDE (CL)	2.00	6.00	6.0	4.0	2.0	6.00	6.00	6.00	13.0	16.0
FLUORIDE (F)				0.13						
NUTRIENTS										
NITRATE (NO3-N)				<0.02						
AMMONIA (NH3 AS N)		<0.1		0.30		<0.01				
TOTAL PHOSPHATE (PO4)		0.16		<0.01		<0.01				
TRACE ELEMENTS										
BARIUM (BA) TOTAL				0.030						
BORON (B) TOTAL				0.036						
COPPER (CU) TOTAL				<0.001						
IRON (FE) TOTAL	3.510	0.390	0.200	0.120	0.360	0.190	0.250	0.260	0.26	0.33
LEAD (PB) TOTAL				<0.001						
MANGANESE (MN) TOTAL	0.130	0.007	0.020	0.030	0.055	0.025	0.050	0.050	0.05	0.11
ZINC (ZN) TOTAL				0.006						
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)				0.85						
PHENOLS		0.004		<0.001		<0.001				
OTHER PARAMETERS										
OIL AND GREASE		<0.2		<0.2		<0.2				
CYANIDE (CN)				<0.001						

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10	VC-10
SAMPLE DATE	04/26/84	05/17/84	06/28/84	07/27/84	08/28/84	09/17/84	10/16/85	04/17/86	05/28/86	06/25/86
LOCATION	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.	ECCLES CR.
LOCATION	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU	ABV CONFLU
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	-5	14	18	14	15	16	9	-4	21	17
FLOW (CFS)		12.5	4.3	1.38	0.58	0.36	0.34		14.43	2.27
WATER TEMPERATURE (C)	1	6	12	9	11	11	1	1	6	7
SPEC. COND. (UMHOS/CM) FIELD	453	320	373	542	626	505	552	490	252	439
PH FIELD	8.2	8.0	8.1	7.7	8.3	8.1	8.2	8.2	7.7	7.9
TURBIDITY (NTU) FIELD	18	100+	25	25	13	9.6	5.1	3.7	46	1.45
TOTAL SUSP. SOLIDS	38	173	3.0	2.0	11.0		9.0	10.0	165	12.0
TOTAL DISS. SOLIDS MEAS.	275	320	200	320	340		365	276	170	256
OXYGEN (O) DISS					9.0					
COMMON IONS										
CALCIUM (CA)	70.40	120.00	70.00	79.20	76.00		93.20	77.20	45.60	61.60
MAGNESIUM (MG)	21.36	<0.10	12.00	23.30	30.00		30.96	14.00	9.10	16.30
SODIUM (NA)	11.0	1.60	9.00	2.90	10.00		2.40	7.00	5.14	2.17
POTASSIUM (K)	1.2	1.0	1.1	1.77	1.93		3.32	1.23	0.22	1.42
ACIDITY AS CACO3					5.00					
ALKALINITY AS CACO3 (LAB)					220					
BICARBONATE (HCO3) (LAB)	329.4	195.2	253.8	273.8	268.4		296.5	283.0	165.0	219.6
SULFATE (SO4)	9	120	33	65	90		93	28	19	39
CHLORIDE (CL)	8.0	7.9	1.6	2.0	5.0		18.0	6.8	3.7	2.0
FLUORIDE (F)					0.22					
NUTRIENTS										
NITRATE (NO3-N)					0.08					
AMMONIA (NH3 AS N)			0.12		0.04		0.60			0.66
TOTAL PHOSPHATE (PO4)			0.02		0.04		0.18			0.03
TRACE ELEMENTS										
BARIUM (BA) TOTAL					0.04					
BORON (B) TOTAL					0.055					
COPPER (CU) TOTAL					0.012					
IRON (FE) TOTAL	0.50	3.50	0.36	0.38	0.38		0.10	0.10	0.90	0.16
LEAD (PB) TOTAL					0.060					
MANGANESE (MN) TOTAL	0.03	0.17	0.03	0.03	0.02		0.02	<0.01	0.09	0.07
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)					0.45					
PHENOLS			<0.001		<0.001		<0.001			<0.001
OTHER PARAMETERS										
OIL AND GREASE			0.4		<0.01		<0.1			<0.1
CYANIDE (CN)					<0.001					

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	VC-10
SAMPLE DATE	07/23/86
LOCATION	ECCLES CR.
LOCATION	ABV CONFLU
PHYSICAL PARAMETERS	
AIR TEMPERATURE (C)	11
FLOW (CFS)	0.87
WATER TEMPERATURE (C)	8
SPEC. COND. (UMHOS/CM) FIELD	519
PH FIELD	7.8
TURBIDITY (NTU) FIELD	0.72
TOTAL SUSP. SOLIDS	3.0
TOTAL DISS. SOLIDS MEAS.	284
COMMON IONS	
CALCIUM (CA)	65.60
MAGNESIUM (MG)	24.00
SODIUM (NA)	2.84
POTASSIUM (K)	1.82
BICARBONATE (HCO3) (LAB)	246.4
SULFATE (SO4)	59
CHLORIDE (CL)	3.3
TRACE ELEMENTS	
IRON (FE) TOTAL	0.03
MANGANESE (MN) TOTAL	<0.01

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1
SAMPLE DATE	06/29/81	08/18/81	09/25/81	06/29/82	07/20/82	08/18/82	09/22/82	10/12/82	06/29/83	07/19/83
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	27	22	13	22	25	10	12	7	11	19
FLOW (CFS)	.01	0.001	0.0001	0.003	0.01	0.002	0.001	0.001	0.07	0.01
WATER TEMPERATURE (C)	8	10	10	6	7	16	7	3	3	5
SPEC. COND. (UMHOS/CM) FIELD	85	105	190	187	165	120	147	137	77	140
PH FIELD	7.6	7.5		7.3	7.1	8.5	7.6	8.4	7.3	6.5
TURBIDITY (NTU) FIELD	9.3	0.26		14	8.6	17	9.7	16	25	19
TOTAL SUSP. SOLIDS	<0.1	3.0		1.0		39.0		21.0	6.0	
TOTAL DISS. SOLIDS MEAS.	5	68.0		66		78		98.0	64.0	
OXYGEN (O) DISS		8.3				8.5				
COMMON IONS										
TOTAL HARDNESS AS CACO3	46									
CALCIUM (CA)	12.00	17.60		13.50		16.80		14.40	12.00	
MAGNESIUM (MG)	3.84	3.84		3.20		4.32		2.88	2.88	
SODIUM (NA)	1.50	1.80		2.0		1.7		1.5	10.3	
POTASSIUM (K)	0.33	0.40		0.41		0.36		0.58	0.60	
CALCIUM (CA) TOTAL	12.50									
MAGNESIUM (MG) TOTAL	3.84									
SODIUM (NA) TOTAL	1.75									
POTASSIUM (K) TOTAL	0.38									
ACIDITY AS CACO3	<0.01	1.60				1.00				
ALKALINITY AS CACO3 (LAB)	28	52.0				27.3				
BICARBONATE (HCO3) (LAB)	34.2	63.4		20.7		33.3		3.90	58.6	
CARBONATE AS CO3 (LAB)	<0.01									
SULFATE (SO4)	15.4	8.0		32.0		14.0		44.5	12.0	
CHLORIDE (CL)	2.51	1.53		0.60		14.90		1.00	4.0	
FLUORIDE (F)	0.05	0.08				0.05				
CHLORIDE (CL) TOTAL	2.60									
FLUORIDE (F) TOTAL	0.05									
NUTRIENTS										
NITRATE (NO3-N)	1.43					0.51				
NITRITE (NO2-N)	0.04									
AMMONIA (NH3 AS N)	<0.01	<0.01		0.27		0.13		0.30	0.3	
TOTAL PHOSPHATE (PO4)	0.240	0.190		0.060		0.080		0.030	0.14	
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	0.030									
ALUMINUM (AL) DISS	0.070									
ARSENIC (AS) TOTAL	<0.001	0.003								
ARSENIC (AS) DISS	<0.001	<0.001								
BARIUM (BA) TOTAL	0.015	0.015				0.010				
BARIUM (BA) DISS	0.010	0.010								
BORON (B) TOTAL	0.028	<0.001				0.009				
BORON (B) DISS	0.020	<0.001								

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1
SAMPLE DATE	06/29/81	08/18/81	09/25/81	06/29/82	07/20/82	08/18/82	09/22/82	10/12/82	06/29/83	07/19/83
TRACE ELEMENTS										
CADMIUM (CD) TOTAL	<0.001	<0.001								
CADMIUM (CD) DISS	<0.001	<0.001								
CHROMIUM (CR) TOTAL	<0.001	<0.001								
CHROMIUM (CR) DISS	<0.001	<0.001								
COPPER (CU) TOTAL	0.010	0.010				<0.001				
COPPER (CU) DISS	<0.001	<0.001								
IRON (FE) TOTAL	0.030	0.140		0.420		0.260		0.270	0.370	
IRON (FE) TOTAL	0.160									
LEAD (PB) TOTAL	<0.001	<0.001				0.002				
LEAD (PB) DISS	0.002	<0.001								
MANGANESE (MN) TOTAL	0.005	0.010		0.002		0.002		0.003	0.004	
MANGANESE (MN) TOTAL	0.012									
MERCURY (HG) TOTAL	<0.0002	<0.0002								
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI) DISS	<0.001									
SELENIUM (SE) TOTAL	<0.001	<0.001								
SELENIUM (SE) DISS	<0.001		<0.001							
SELENIUM (SE) DISS	<0.001									
SILVER (AG) TOTAL	<0.001	<0.001								
SILVER (AG) DISS	<0.001		<0.001							
ZINC (ZN) TOTAL	0.020	0.030				0.002				
ZINC (ZN) DISS	0.015		0.007							
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)		17.0								
TOTAL COLIFORM (NO./100ML)		700								
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	20.60	7.50				6.90				
PHENOLS	0.008	0.055		<0.001		0.004		<0.001	<0.001	
OTHER PARAMETERS										
OIL AND GREASE	1.60	1.00				0.8				
CYANIDE (CN)	<0.001	<0.001				<0.001				
SULFIDE	0.16									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1	S10-1
SAMPLE DATE	08/22/83	09/27/83	10/19/83	06/26/84	07/30/84	08/22/84	09/26/84	10/15/85	06/18/86
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS									
AIR TEMPERATURE (C)	22	12	6	16	15	15	12	5	23
FLOW (CFS)	0.004	0.003	0.002	0.04	0.01	0.003	0.002	0.002	0.04
WATER TEMPERATURE (C)	8	8	4	4	7	5	7	3	45
SPEC. COND. (UMHOS/CM) FIELD	157	152	129	101	128	161	131	127	99
PH FIELD	6.6	6.6	7.1	6.1	6.5	6.9	6.7	6.8	6.4
TURBIDITY (NTU) FIELD	18	11	11	26	33	20	17	5.9	22
TOTAL SUSP. SOLIDS	41.0		18.0	1.0		4.0		11.0	7.0
TOTAL DISS. SOLIDS MEAS.	82.0		95.0	112		119		94.0	68.0
OXYGEN (O) DISS	7.8					7.7			
COMMON IONS									
CALCIUM (CA)	19.20		18.40	28.00		24.00		32.00	12.80
MAGNESIUM (MG)	9.12		3.84	6.00		13.20		7.20	2.40
SODIUM (NA)	7.0		10.00	1.40		1.50		0.50	1.70
POTASSIUM (K)	0.4		1.5	0.5		0.67		1.12	0.04
ACIDITY AS CACO3	6.00					1.50			
ALKALINITY AS CACO3 (LAB)	70.0					60.0			
BICARBONATE (HCO3) (LAB)	85.4		61.0	63.4		73.20		112.2	46.4
SULFATE (SO4)	28		22	40		21		6	4
CHLORIDE (CL)	<0.1		8.00	1.3		20.0		8.0	1.8
FLUORIDE (F)	0.04					0.02			
NUTRIENTS									
NITRATE (NO3-N)	<0.02					0.29			
AMMONIA (NH3 AS N)	0.10		<0.01	0.23		0.11		<0.01	<0.01
TOTAL PHOSPHATE (PO4)	0.02		0.05	0.10		0.18		0.06	0.06
TRACE ELEMENTS									
BARIUM (BA) TOTAL	0.020					0.02			
BORON (B) TOTAL	0.057					0.035			
COPPER (CU) TOTAL	0.020					0.013			
IRON (FE) TOTAL	0.320		0.190	0.46		0.36		0.10	0.21
LEAD (PB) TOTAL	0.006					0.007			
MANGANESE (MN) TOTAL	0.010		0.020	0.02		0.01		0.02	<0.01
ZINC (ZN) TOTAL	0.023					0.041			
ORGANIC PARAMETERS									
ORGANIC CARBON (TOTAL)	0.78					1.30			
PHENOLS	<0.001		<0.001	<0.001		<0.001		<0.001	<0.001
OTHER PARAMETERS									
OIL AND GREASE	<0.2					<0.1			
CYANIDE (CN)	<0.001					<0.001			

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S12-1	S12-1	S12-1	S12-1	S12-1	S12-1	S12-1	S12-1	S12-1	S12-1
SAMPLE DATE	06/29/81	06/29/82	07/20/82	08/18/82	10/16/82	06/29/83	07/19/83	08/22/83	09/27/83	10/19/83
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	24	23	23	14	9	11	19	19	9	6
FLOW (CFS)	0.001	0.18	0.01	0.0007	0.0004	0.17	0.01	0.001	0.003	0.0004
WATER TEMPERATURE (C)	19	16	21	14	1	5	19	8	9	4
SPEC. COND. (UMHOS/CM) FIELD	130	128	160	155	148	86	168	233	241	201
PH FIELD	7.6	7.6	7.5	7.9	7.5	6.6	8.9	7.2	8.0	7.2
TURBIDITY (NTU) FIELD	1.10	9.9	18	21	19	9.8	5.0	12	24	38
TOTAL SUSP. SOLIDS	6	3.0		14.0	105	3.0		17.0		58.0
TOTAL DISS. SOLIDS MEAS.	84	56		132	125	58.0		124		100
OXYGEN (O) DISS				7.6				5.0		
COMMON IONS										
TOTAL HARDNESS AS CACO3	70									
CALCIUM (CA)	24.80	14.50		29.60	27.20	16.80		34.40		32.80
MAGNESIUM (MG)	1.92	1.40		3.84	2.88	1.92		3.36		3.36
SODIUM (NA)		1.6		16.2	17.0	4.2		7.0		4.00
POTASSIUM (K)	0.32	0.27		4.04	0.94	0.31		1.0		0.8
CALCIUM (CA) TOTAL	24.90									
MAGNESIUM (MG) TOTAL	1.95									
SODIUM (NA) TOTAL	2.55									
POTASSIUM (K) TOTAL	0.41									
ACIDITY AS CACO3	1.70			3.00				8.0		
ALKALINITY AS CACO3 (LAB)	62			111.7				100		
BICARBONATE (HCO3) (LAB)	80.5	47		136	120	56.1		122		102
CARBONATE AS CO3 (LAB)	<0.01									
SULFATE (SO4)	7.9	3.0		<3.0	15.0	5.0		10		8
CHLORIDE (CL)	2.86	2.90		15.00	2.90	8.0		6.0		8.00
FLUORIDE (F)	0.12			0.09				0.07		
CHLORIDE (CL) TOTAL	3.50									
FLUORIDE (F) TOTAL	0.12									
NUTRIENTS										
NITRATE (NO3-N)	0.22			0.23				<0.02		
NITRITE (NO2-N)	0.01									
AMMONIA (NH3 AS N)	0.25	0.25		0.59	0.26	<0.1		0.25		<0.01
TOTAL PHOSPHATE (PO4)	0.850	0.060		0.130	0.060	0.18		0.01		0.10
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	0.045									
ALUMINUM (AL) DISS	0.090									
ARSENIC (AS) TOTAL	<0.001									
ARSENIC (AS) DISS	<0.001									
BARIUM (BA) TOTAL	0.012			0.035				0.080		
BARIUM (BA) DISS	0.005									
BORON (B) TOTAL	0.030			0.017				0.028		
BORON (B) DISS	0.020									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S12-1	S12-1	S12-1	S12-1	S12-1	S12-1	S12-1	S12-1	S12-1	S12-1
SAMPLE DATE	06/29/81	06/29/82	07/20/82	08/18/82	10/16/82	06/29/83	07/19/83	08/22/83	09/27/83	10/19/83
TRACE ELEMENTS										
CADMIUM (CD) TOTAL	<0.001									
CADMIUM (CD) DISS	<0.001									
CHROMIUM (CR) TOTAL	<0.001									
CHROMIUM (CR) DISS	<0.001									
COPPER (CU) TOTAL	0.070			<0.001				0.020		
COPPER (CU) DISS	<0.001									
IRON (FE) TOTAL	0.030	0.210		0.65	0.220	0.050		0.320		0.620
IRON (FE) TOTAL	0.210									
LEAD (PB) TOTAL	<0.001			0.001				<0.001		
LEAD (PB) DISS	<0.001									
MANGANESE (MN) TOTAL	0.010	0.010		0.315	0.310	0.007		0.760		0.390
MANGANESE (MN) TOTAL	0.100									
MERCURY (HG) TOTAL	<0.0002									
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI) DISS	<0.001									
NICKEL (NI) DISS	<0.001									
SELENIUM (SE) TOTAL	<0.001									
SELENIUM (SE) DISS	<0.001									
SILVER (AG) TOTAL	<0.001									
SILVER (AG) DISS	<0.001									
ZINC (ZN) TOTAL	0.005			0.002				0.015		
ZINC (ZN) DISS	0.005									
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	34.90			12.50				0.95		
PHENOLS	0.525	<0.001		0.13	<0.001	<0.001		<0.001		<0.001
OTHER PARAMETERS										
OIL AND GREASE	0.80			0.8				<0.2		
CYANIDE (CN)	<0.001			0.005				<0.001		
SULFIDE	<0.01									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S12-1	S12-1	S12-1	S12-1	S12-1
SAMPLE DATE	06/26/84	07/31/84	08/22/84	09/26/84	06/18/86
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS					
AIR TEMPERATURE (C)	20	13	13	7	14
FLOW (CFS)	0.06	0.002	0.0008	0.0002	0.19
WATER TEMPERATURE (C)	3	12	13	3	10
SPEC. COND. (UMHOS/CM) FIELD	135	199	236	260	96
PH FIELD	6.4	7.9	7.1	7.3	6.7
TURBIDITY (NTU) FIELD	11	34	21	15	8.9
TOTAL SUSP. SOLIDS	1.0		6.0		10.0
TOTAL DISS. SOLIDS MEAS.	105		170		54.0
OXYGEN (O) DISS			7.7		
COMMON IONS					
CALCIUM (CA)	30.00		36.00		13.60
MAGNESIUM (MG)	4.08		6.00		1.40
SODIUM (NA)	1.00		21.00		2.10
POTASSIUM (K)	0.4		0.76		0.03
ACIDITY AS CACO3			2.60		
ALKALINITY AS CACO3 (LAB)			100		
BICARBONATE (HCO3) (LAB)	97.6		122.0		46.4
SULFATE (SO4)	11		10		3
CHLORIDE (CL)	1.0		30.0		1.7
FLUORIDE (F)			0.06		
NUTRIENTS					
NITRATE (NO3-N)			0.08		
AMMONIA (NH3 AS N)	0.15		0.11		<0.01
TOTAL PHOSPHATE (PO4)	0.02		0.19		0.14
TRACE ELEMENTS					
BARIUM (BA) TOTAL			0.02		
BORON (B) TOTAL			0.044		
COPPER (CU) TOTAL			0.017		
IRON (FE) TOTAL	0.31		0.33		0.18
LEAD (PB) TOTAL			0.002		
MANGANESE (MN) TOTAL	0.02		0.12		<0.01
ZINC (ZN) TOTAL			0.048		
ORGANIC PARAMETERS					
ORGANIC CARBON (TOTAL)			2.80		
PHENOLS	<0.001		<0.001		<0.001
OTHER PARAMETERS					
OIL AND GREASE			<0.1		
CYANIDE (CN)			<0.001		

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2
SAMPLE DATE	05/14/81	08/20/81	09/25/81	10/23/81	11/12/81	12/09/81	05/20/82	06/30/82	07/21/82	08/19/82
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	18	22	13	2	2	9	13	16	23	26
FLOW (CFS)	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001
WATER TEMPERATURE (C)	9	14	10	1	1	3	8	5	15	12
SPEC. COND. (UMHOS/CM) FIELD	430	490	540	540	570	540	416	538	473	411
PH FIELD	7.85	8.0			7.1	8.0	7.4	8.1	7.6	7.9
TURBIDITY (NTU) FIELD	0.48	0.30			0.70		7.4	4.3	9.1	4.5
TOTAL SUSP. SOLIDS	17.0	2.0			16.0	92.0		6.0		30.0
TOTAL DISS. SOLIDS MEAS.	279	327			369	350		345		310
OXYGEN (O) DISS		9.1			11.2					9.8
COMMON IONS										
TOTAL HARDNESS AS CACO3	170									
CALCIUM (CA)	25.60	80.00			91.00	91.50		93.40		76.80
MAGNESIUM (MG)	24.00	21.60			24.50	23.00		22.20		25.92
SODIUM (NA)	6.00	5.90			6.50	5.90		5.2		5.2
POTASSIUM (K)		1.39			1.50	1.25		1.10		1.26
CALCIUM (CA) TOTAL	26.40									
MAGNESIUM (MG) TOTAL	24.96									
SODIUM (NA) TOTAL	45.00									
POTASSIUM (K) TOTAL	1.50									
ACIDITY AS CACO3	<0.01	5.40			4.00					8.00
ALKALINITY AS CACO3 (LAB)	212	230			213	263				276
BICARBONATE (HCO3) (LAB)	254	281			260	320		356		337
CARBONATE AS CO3 (LAB)	2.40									
SULFATE (SO4)	45.0	57.0			113	62.0		38.0		7.0
CHLORIDE (CL)	7.8	8.14			6.10	5.20		2.80		18.70
FLUORIDE (F)	0.26	0.21			0.20					0.21
CHLORIDE (CL) TOTAL	8.00									
FLUORIDE (F) TOTAL	0.26									
NUTRIENTS										
NITRATE (NO3-N)	1.61	1.34			0.74					0.68
NITRITE (NO2-N)	0.02									
AMMONIA (NH3 AS N)	<0.01	<0.01			0.30	0.60				0.12
TOTAL PHOSPHATE (PO4)	0.140	0.160			0.420	0.680		0.075		0.090
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	0.010									
ALUMINUM (AL) DISS	<0.001									
ARSENIC (AS) TOTAL	<0.001	<0.001			<0.001					
ARSENIC (AS) DISS	<0.001	<0.001			<0.001					
BARIUM (BA) TOTAL	0.025	0.020			0.020					0.044
BARIUM (BA) DISS	0.020	0.016			0.015					
BORON (B) TOTAL	0.038	0.030			0.033					0.015
BORON (B) DISS	0.030	0.007			0.025					

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2
SAMPLE DATE	05/14/81	08/20/81	09/25/81	10/23/81	11/12/81	12/09/81	05/20/82	06/30/82	07/21/82	08/19/82
TRACE ELEMENTS										
CADMIUM (CD) TOTAL	<0.001	<0.001			<0.001					
CADMIUM (CD) DISS	<0.001	<0.001			<0.001					
CHROMIUM (CR) TOTAL	<0.001	<0.001			<0.001					
CHROMIUM (CR) DISS	<0.001	<0.001			<0.001					
COPPER (CU) TOTAL	<0.001	0.020			0.012					0.010
COPPER (CU) DISS	<0.001	<0.001			0.010					
IRON (FE) TOTAL	0.010	0.220			0.250	0.910		0.260		0.170
IRON (FE) TOTAL	0.290									
LEAD (PB) TOTAL	0.002	0.006			<0.001					0.005
LEAD (PB) DISS	<0.001	0.002			0.003					
MANGANESE (MN) TOTAL	0.010	<0.001			0.006	0.010		0.012		0.007
MANGANESE (MN) TOTAL	0.020									
MERCURY (HG) TOTAL	<0.0002	<0.0002			<0.0002					
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI) DISS	<0.001									
SELENIUM (SE) TOTAL	<0.001	<0.001			<0.001					
SELENIUM (SE) DISS	<0.001	<0.001			<0.001					
SILVER (AG) TOTAL	<0.001	<0.001			<0.001					
SILVER (AG) DISS	<0.001	<0.001			<0.001					
ZINC (ZN) TOTAL	0.005	0.038			0.035					0.002
ZINC (ZN) DISS	0.005	0.030			0.027					
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)		4.0			<2.0					
TOTAL COLIFORM (NO./100ML)		1100			790					
5 - DAY BOD		1.7								
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	5.20	11.00			13.10					10.30
PHENOLS	0.405	<0.001			<0.001	0.039				0.017
OTHER PARAMETERS										
OIL AND GREASE	0.20	2.60			0.20					<0.1
CYANIDE (CN)	<0.001	0.002			0.004					<0.001
SULFIDE	1.50									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2
SAMPLE DATE	09/15/82	10/14/82	11/09/82	06/30/83	07/20/83	08/25/83	09/28/83	10/26/83	11/11/83	06/27/84
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	7	5	0	16	16	12	13	13	3	22
FLOW (CFS)	0.002	0.001	0.001	0.003	0.002	0.0006	0.0007	0.0007	0.002	0.003
WATER TEMPERATURE (C)	6.5	3	1	10	8	8	9	10	4.5	8
SPEC. COND. (UMHOS/CM) FIELD	398	440	615	551	520	613	574	581	536	576
PH FIELD	8.3	7.7	7.8	7.9	7.4	7.2	7.6	7.4	7.3	7.6
TURBIDITY (NTU) FIELD	39	19	26	27	45	23	7.8	29	21	60
TOTAL SUSP. SOLIDS		83.0		18.0		240		117		5.0
TOTAL DISS. SOLIDS MEAS.		338		334		355		340		340
OXYGEN (O) DISS						6.8				
COMMON IONS										
CALCIUM (CA)		87.20		80.00		81.60		87.20		88.00
MAGNESIUM (MG)		20.16		20.64		21.12		23.52		24.00
SODIUM (NA)		12.0		16.0		18.0		5.50		4.70
POTASSIUM (K)		1.37		1.22		1.0		0.5		1.0
ACIDITY AS CACO3						31.00				
ALKALINITY AS CACO3 (LAB)						280				
BICARBONATE (HCO3) (LAB)		346		329		342		312		348.9
SULFATE (SO4)		39.0		40.0		44		48		44
CHLORIDE (CL)		4.40		10.0		6.0		12.00		3.4
FLUORIDE (F)						0.17				
NUTRIENTS										
NITRATE (NO3-N)						<0.02				
AMMONIA (NH3 AS N)		0.36		<0.1		0.45		0.30		0.39
TOTAL PHOSPHATE (PO4)		0.050		0.14		0.05		0.04		0.04
TRACE ELEMENTS										
BARIUM (BA) TOTAL						0.019				
BORON (B) TOTAL						0.015				
COPPER (CU) TOTAL						0.021				
IRON (FE) TOTAL		0.380		0.690		0.120		0.125		0.15
LEAD (PB) TOTAL						0.003				
MANGANESE (MN) TOTAL		0.010		0.010		0.010		0.013		0.02
ZINC (ZN) TOTAL						0.010				
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)						1.40				
PHENOLS		<0.001		0.008		<0.001		<0.001		<0.001
OTHER PARAMETERS										
OIL AND GREASE						<0.2				
CYANIDE (CN)						<0.001				

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S13-2	S13-2	S13-2	S13-2	S13-2	S13-2
SAMPLE DATE	07/26/84	08/28/84	09/17/84	10/16/85	05/28/86	06/24/86
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS						
AIR TEMPERATURE (C)	14	15	16	6	18	20
FLOW (CFS)	0.002	0.002	0.002	0.003	0.01	0.01
WATER TEMPERATURE (C)	10	8	13	7	9	8
SPEC. COND. (UMHOS/CM) FIELD	541	640	541	587	467	547
PH FIELD	7.7	7.7	7.5	6.5	7.0	6.9
TURBIDITY (NTU) FIELD	18	14	26	3.2	1.8	0.22
TOTAL SUSP. SOLIDS		10.0		12.0		17.0
TOTAL DISS. SOLIDS MEAS.		360		382		290
OXYGEN (O) DISS		8.6				
COMMON IONS						
CALCIUM (CA)		88.00		98.40		74.40
MAGNESIUM (MG)		21.60		20.20		19.76
SODIUM (NA)		20.00		5.40		4.93
POTASSIUM (K)		1.05		1.66		0.76
ACIDITY AS CACO3		10.00				
ALKALINITY AS CACO3 (LAB)		270				
BICARBONATE (HCO3) (LAB)		229.4		342.8		280.6
SULFATE (SO4)		89		57		39
CHLORIDE (CL)		25.0		6.2		3.7
FLUORIDE (F)		0.19				
NUTRIENTS						
NITRATE (NO3-N)		0.39				
AMMONIA (NH3 AS N)		<0.01		<0.01		1.08
TOTAL PHOSPHATE (PO4)		0.05		<0.01		0.02
TRACE ELEMENTS						
BARIUM (BA) TOTAL		0.02				
BORON (B) TOTAL		0.022				
COPPER (CU) TOTAL		0.024				
IRON (FE) TOTAL		0.12		0.05		0.07
LEAD (PB) TOTAL		<0.001				
MANGANESE (MN) TOTAL		0.01		<0.01		<0.01
ORGANIC PARAMETERS						
ORGANIC CARBON (TOTAL)		<0.01				
PHENOLS		<0.001		<0.001		<0.001
OTHER PARAMETERS						
OIL AND GREASE		<0.1				
CYANIDE (CN)		<0.001				

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S13-7	S13-7	S13-7	S13-7	S13-7	S13-7	S13-7	S13-7	S13-7	S13-7
SAMPLE DATE	06/29/81	06/29/82	07/20/82	08/18/82	06/29/83	07/19/83	08/22/83	06/26/84	07/31/84	08/22/84
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	26	23	23	26	13	18	22	13	15	11
FLOW (CFS)	0.0005	0.09	0.01	0.004	0.09	0.01	0.002	0.08	0.004	0.002
WATER TEMPERATURE (C)	8	3	4	17	3	4	5	8	5	6
SPEC. COND. (UMHOS/CM) FIELD	200	217	257	235	111	261	369	125	337	361
PH FIELD	8.1	7.6	7.5	8.4	6.5	7.2	6.9	6.6	7.1	7.4
TURBIDITY (NTU) FIELD	1.40	9.6	5.5	16	8.0	4.1	3.7	13	8.7	16
TOTAL SUSP. SOLIDS	48	<1.0		10.0	2.0		36.0	1.0		1.0
TOTAL DISS. SOLIDS MEAS.	133	64		165	110		210	107		240
OXYGEN (O) DISS				10.2			8.0			7.6
COMMON IONS										
TOTAL HARDNESS AS CACO3	126				30.40		56.00	28.00		68.00
CALCIUM (CA)	44.80	19.50	51.20		3.36		10.56	4.80		14.40
MAGNESIUM (MG)	3.36	2.10	7.68		5.8		4.0	1.90		1.20
SODIUM (NA)		1.0	3.5		0.35		0.6	0.4		0.58
POTASSIUM (K)	0.42	0.29	0.54							
CALCIUM (CA) TOTAL	45.10									
MAGNESIUM (MG) TOTAL	3.84									
SODIUM (NA) TOTAL	1.50									
POTASSIUM (K) TOTAL	0.45					170				
TOTAL ALKALINITY AS CACO3				3.00			17.00			4.00
ACIDITY AS CACO3	1.70			146						205
ALKALINITY AS CACO3 (LAB)	118			178	107	207		75.6		205.0
BICARBONATE (HCO3) (LAB)	144.5	52.3								
CARBONATE AS CO3 (LAB)	<0.01			<3.0	4.0		12	25		19
SULFATE (SO4)	6.5	15.0			8.0		4.0	2.3		24.0
CHLORIDE (CL)	2.90	<0.01	16.20				0.11			0.09
FLUORIDE (F)	0.13		0.14							
CHLORIDE (CL) TOTAL	3.00									
FLUORIDE (F) TOTAL	0.14									
NUTRIENTS										
NITRATE (NO3-N)	0.70			1.91			<0.02			2.60
NITRITE (NO2-N)	0.06									
AMMONIA (NH3 AS N)	0.10	0.24		0.30	0.1		0.50	0.10		0.07
TOTAL PHOSPHATE (PO4)	0.970	0.080		0.100	0.20		0.02	0.05		0.16
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	<0.001									
ALUMINUM (AL) DISS	<0.001									
ARSENIC (AS) TOTAL	<0.001									
ARSENIC (AS) DISS	<0.001						0.021			0.02
BARIUM (BA) TOTAL	0.018		0.050							
BARIUM (BA) DISS	0.010						0.010			0.047
BORON (B) TOTAL	0.015		0.013							

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S13-7	S13-7	S13-7	S13-7	S13-7	S13-7	S13-7	S13-7	S13-7	S13-7
SAMPLE DATE	06/29/81	06/29/82	07/20/82	08/18/82	06/29/83	07/19/83	08/22/83	06/26/84	07/31/84	08/22/84
TRACE ELEMENTS										
BORON (B) DISS	0.010									
CADMIUM (CD) TOTAL	<0.001									
CADMIUM (CD) DISS	<0.001									
CHROMIUM (CR) TOTAL	<0.001									
CHROMIUM (CR) DISS	<0.001						0.010			0.016
COPPER (CU) TOTAL	0.010		<0.001							
COPPER (CU) DISS	<0.001									
IRON (FE) TOTAL	0.010	1.200	0.060		0.190		0.130	0.32		0.13
IRON (FE) TOTAL	0.200									
LEAD (PB) TOTAL	<0.001		0.001				0.003			<0.001
LEAD (PB) DISS	<0.001									
MANGANESE (MN) TOTAL	0.003	0.010	0.002		0.002		0.010	0.04		0.01
MANGANESE (MN) TOTAL	0.014									
MERCURY (HG) TOTAL	<0.0002									
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI) DISS	<0.001									
NICKEL (NI) DISS	<0.001									
SELENIUM (SE) TOTAL	<0.001									
SELENIUM (SE) DISS	<0.001									
SILVER (AG) TOTAL	<0.001									
SILVER (AG) DISS	<0.001									
ZINC (ZN) TOTAL	0.010		0.002				0.015			0.058
ZINC (ZN) DISS	0.010									
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	27.40			5.60			0.65			<0.01
PHENOLS	0.512	0.004		0.013	0.004		<0.001	<0.001		<0.001
OTHER PARAMETERS										
OIL AND GREASE	0.60			<0.1			<0.2			<0.1
CYANIDE (CN)	<0.001		0.007				<0.001			<0.001
SULFIDE	<0.01									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S13-7
SAMPLE DATE	06/18/86
LOCATION	SPRING
PHYSICAL PARAMETERS	
AIR TEMPERATURE (C)	18
FLOW (CFS)	0.08
WATER TEMPERATURE (C)	3
SPEC. COND. (UMHOS/CM) FIELD	121
PH FIELD	6.5
TURBIDITY (NTU) FIELD	7.6
TOTAL SUSP. SOLIDS	3.0
TOTAL DISS. SOLIDS MEAS.	54
COMMON IONS	
CALCIUM (CA)	18.40
MAGNESIUM (MG)	1.40
SODIUM (NA)	1.40
POTASSIUM (K)	0.10
BICARBONATE (HCO3) (LAB)	58.60
SULFATE (SO4)	2
CHLORIDE (CL)	2.6
NUTRIENTS	
AMMONIA (NH3 AS N)	<0.01
TOTAL PHOSPHATE (PO4)	0.48
TRACE ELEMENTS	
IRON (FE) TOTAL	0.14
MANGANESE (MN) TOTAL	<0.01
ORGANIC PARAMETERS	
PHENOLS	<0.001

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4
SAMPLE DATE	06/29/81	08/18/81	09/24/81	11/11/81	06/29/82	07/20/82	08/18/82	09/22/82	06/29/83	07/19/83
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	20	22	15	-4	20	20	18	13	10	17
FLOW (CFS)	0.01	0.002	0.001	0.001	0.03	0.01	0.004	0.002	0.03	0.01
WATER TEMPERATURE (C)	5	7	7	2	4	4	8	6	3	4
SPEC. COND. (UMHOS/CM) FIELD	300	350	400	410	298	345	300	435	144	333
PH FIELD	7.6	7.1			7.7	7.6	8.2	8.2	6.5	7.4
TURBIDITY (NTU) FIELD	0.89	0.48			7.7	6.5	8	5	9.2	3.3
TOTAL SUSP. SOLIDS	4.0	1.0			<1.0				1.0	
TOTAL DISS. SOLIDS MEAS.	190	233			136				98.0	
OXYGEN (O) DISS		8.5								
COMMON IONS										
TOTAL HARDNESS AS CACO3	170								24.80	
CALCIUM (CA)	59.20	74.40			37.50				4.32	
MAGNESIUM (MG)	5.28	6.72			3.80				3.3	
SODIUM (NA)	2.60	3.10			2.5				0.76	
POTASSIUM (K)	1.05	1.13			0.80					
CALCIUM (CA) TOTAL	59.70									
MAGNESIUM (MG) TOTAL	5.50									
SODIUM (NA) TOTAL	4.00									
POTASSIUM (K) TOTAL	1.16									
ACIDITY AS CACO3	5.10	6.40								
ALKALINITY AS CACO3 (LAB)	154	198							92.7	
BICARBONATE (HCO3) (LAB)	190	242			75.4					
CARBONATE AS CO3 (LAB)	<0.01								6.0	
SULFATE (SO4)	17.3	14.0			45.0				6.0	
CHLORIDE (CL)	5.89	5.28			2.90					
FLUORIDE (F)	0.14	0.16								
CHLORIDE (CL) TOTAL	5.90									
FLUORIDE (F) TOTAL	0.14									
NUTRIENTS										
NITRATE (NO3-N)	1.95									
NITRITE (NO2-N)	0.07								0.1	
AMMONIA (NH3 AS N)	<0.01	<0.01			0.13					
AMMONIA (NH3 AS N)	<0.01								0.20	
TOTAL PHOSPHATE (PO4)	0.460	0.200			0.070					
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	<0.001									
ALUMINUM (AL) DISS	<0.001									
ARSENIC (AS) TOTAL	<0.001	0.003								
ARSENIC (AS) DISS	<0.001	<0.001								
BARIUM (BA) TOTAL	0.020	0.015								
BARIUM (BA) DISS	0.010	0.012								
BORON (B) TOTAL	0.018	0.010								

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4
SAMPLE DATE	06/29/81	08/18/81	09/24/81	11/11/81	06/29/82	07/20/82	08/18/82	09/22/82	06/29/83	07/19/83
TRACE ELEMENTS										
BORON (B) DISS	0.010	0.005								
CADMIUM (CD) TOTAL	<0.001	<0.001								
CADMIUM (CD) DISS	<0.001	<0.001								
CHROMIUM (CR) TOTAL	<0.001	<0.001								
CHROMIUM (CR) DISS	<0.001	<0.001								
COPPER (CU) TOTAL	0.010	0.010								
COPPER (CU) DISS	<0.001	<0.001								
IRON (FE) TOTAL	0.020	0.165			0.100				0.230	
IRON (FE) TOTAL	0.040									
LEAD (PB) TOTAL	<0.001	<0.001								
LEAD (PB) DISS	<0.001	<0.001								
MANGANESE (MN) TOTAL	0.002	<0.001			0.003				0.003	
MANGANESE (MN) TOTAL	0.013									
MERCURY (HG) TOTAL	<0.0002	<0.0002								
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI) DISS	<0.001									
SELENIUM (SE) TOTAL	<0.001	<0.001								
SELENIUM (SE) DISS	<0.001	<0.001								
SILVER (AG) TOTAL	<0.001	<0.001								
SILVER (AG) DISS	<0.001	<0.001								
ZINC (ZN) TOTAL	0.010	0.050								
ZINC (ZN) DISS	0.007	0.007								
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)		<2.0								
TOTAL COLIFORM (NO./100ML)		<2.0								
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	36.00	2.60								
PHENOLS	0.285	0.025			<0.001				<0.001	
PHENOLS	0.285									
OTHER PARAMETERS										
OIL AND GREASE	2.40	2.60								
CYANIDE (CN)	<0.001	<0.001								
SULFIDE	<0.01									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4	S14-4
SAMPLE DATE	08/22/83	09/27/83	10/19/83	06/26/84	07/30/84	08/22/84	09/26/84	10/16/85	05/27/86	06/18/86
LOCATION	SPRING	SPRING	SPRING	SPRING		SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	18	11	9	12	14	16	7	6	14	14
FLOW (CFS)	0.01	0.003	0.004	0.03	0.01	0.01	0.003	0.0002	0.05	0.04
WATER TEMPERATURE (C)	6	9	4	3	5	6	4	3	2.5	3
SPEC. COND. (UMHOS/CM) FIELD	387	414	405	197	364	421	419	420	116	251
PH FIELD	6.7	6.3	6.7	6.2	6.4	6.5	6.8	6.5	6.3	6.6
TURBIDITY (NTU) FIELD	1.3	2.2	6.5	9.0	5.7	12	3.7	3.0	2.1	6.8
TOTAL SUSP. SOLIDS	6.0		7.0	1.0		2.0		5.0		6.0
TOTAL DISS. SOLIDS MEAS.	204		220	140		250		278		106
OXYGEN (O) DISS	6.0					7.4				
COMMON IONS										
CALCIUM (CA)	64.80		70.40	46.00		52.00		80.4		29.60
MAGNESIUM (MG)	8.16		8.64	3.60		19.20		8.20		1.90
SODIUM (NA)	6.1		2.90	2.40		18.00		2.00		1.80
POTASSIUM (K)	1.3		0.6	0.8		1.10		1.54		0.34
ACIDITY AS CACO3	23.00					3.50				
ALKALINITY AS CACO3 (LAB)	196					195				
BICARBONATE (HCO3) (LAB)	239		224	125.7		237.8		252.5		87.80
SULFATE (SO4)	10		20	26		11		13		5
CHLORIDE (CL)	4.0		8.00	2.0		26.00		13.0		4.9
FLUORIDE (F)	0.10					0.08				
NUTRIENTS										
NITRATE (NO3-N)	<0.02					1.70				
AMMONIA (NH3 AS N)	0.30		<0.01	0.14		0.09		<0.01		<0.01
TOTAL PHOSPHATE (PO4)	<0.01		0.02	0.03		0.16		0.02		0.08
TRACE ELEMENTS										
BARIUM (BA) TOTAL	0.011					0.02				
BORON (B) TOTAL	0.012					0.054				
COPPER (CU) TOTAL	<0.001					0.014				
IRON (FE) TOTAL	0.010		0.080	0.27		0.10		<0.01		0.09
LEAD (PB) TOTAL	<0.001					0.017				
MANGANESE (MN) TOTAL	0.002		0.020	0.01		0.01		<0.01		<0.01
ZINC (ZN) TOTAL	0.005					0.048				
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	1.20					<0.01				
PHENOLS	<0.001		<0.001	<0.001		<0.001		<0.001		<0.001
OTHER PARAMETERS										
OIL AND GREASE	<0.2					<0.1				
CYANIDE (CN)	<0.001					<0.001				

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3
SAMPLE DATE	05/14/81	08/18/81	09/24/81	10/22/81	11/10/81	12/08/81	06/28/82	07/21/82	08/18/82	09/15/82
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	17	11	20	4	8	10	28	22	21	10
FLOW (CFS)	0.65	0.02	0.01	0.01	0.01	0.01	0.36	0.11	0.08	0.05
WATER TEMPERATURE (C)	3	5	12	5	5	5	4	4	5	4
SPEC. COND. (UMHOS/CM) FIELD	160	320	370	300	400	320	293	290	226	287
PH FIELD	7.9	7.4			7.4	8.2	7.4	8.0	8.2	7.8
TURBIDITY (NTU) FIELD	1.00	0.65			0.49		10.5	6.3	8.4	4.7
TOTAL SUSP. SOLIDS	3.0	1.0			3.0	10.0	<1.0		8.0	
TOTAL DISS. SOLIDS MEAS.	105	210			258	210	88		198	
OXYGEN (O) DISS		10.3			10.3				11.1	
COMMON IONS										
TOTAL HARDNESS AS CACO3	760									
CALCIUM (CA)	23.28	64.00			71.00	59.00	28.00		53.60	
MAGNESIUM (MG)	3.80	8.16			11.00	10.50	3.60		8.64	
SODIUM (NA)	1.70	2.40			6.80	6.20	1.8		12.0	
POTASSIUM (K)	0.420	0.79			1.85	1.60	0.44		0.72	
CALCIUM (CA) TOTAL	24.00									
MAGNESIUM (MG) TOTAL	3.84									
SODIUM (NA) TOTAL	6.50									
POTASSIUM (K) TOTAL	2.30									
ACIDITY AS CACO3	1.82	4.80			4.00				3.00	
ALKALINITY AS CACO3 (LAB)	76.0	176			184	184			178	
BICARBONATE (HCO3) (LAB)	92.7	215			225	225	96.1		217	
CARBONATE AS CO3 (LAB)	<0.01									
SULFATE (SO4)	16.0	18.0			46.0	15.0	8.0		<3.0	
CHLORIDE (CL)	2.00	2.13			2.90	2.70	0.60		14.30	
FLUORIDE (F)	0.09	0.15			0.12				0.12	
CHLORIDE (CL) TOTAL	2.00									
FLUORIDE (F) TOTAL	0.09									
NUTRIENTS										
NITRATE (NO3-N)	0.24				0.16				0.19	
NITRITE (NO2-N)	0.03									
AMMONIA (NH3 AS N)	<0.01	<0.01			<0.01	0.65	0.25		0.26	
TOTAL PHOSPHATE (PO4)	0.120	0.200			0.220	0.340	0.060		0.110	
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	0.250									
ALUMINUM (AL) DISS	0.200									
ARSENIC (AS) TOTAL	<0.001	0.002			<0.001					
ARSENIC (AS) DISS	<0.001	<0.001			<0.001					
BARIUM (BA) TOTAL	0.010	0.015			0.090				0.020	
BARIUM (BA) DISS	0.005	0.010			0.075					
BORON (B) TOTAL	0.015	0.010			0.010				0.010	
BORON (B) DISS	0.010	0.005			0.005					

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3
SAMPLE DATE	05/14/81	08/18/81	09/24/81	10/22/81	11/10/81	12/08/81	06/28/82	07/21/82	08/18/82	09/15/82
TRACE ELEMENTS										
CADMIUM (CD) TOTAL	<0.001	<0.001			<0.001					
CADMIUM (CD) DISS	<0.001	<0.001			<0.001					
CHROMIUM (CR) TOTAL	<0.001	<0.001			<0.001					
CHROMIUM (CR) DISS	<0.001	<0.001			<0.001					
COPPER (CU) TOTAL	<0.001	0.010			0.011				0.010	
COPPER (CU) DISS	<0.001	<0.001			<0.001					
IRON (FE) TOTAL	0.050	0.130			0.165	0.030	0.290		0.020	
IRON (FE) TOTAL	0.190									
LEAD (PB) TOTAL	0.002	<0.001			<0.001				0.002	
LEAD (PB) DISS	<0.001	<0.001			<0.001					
MANGANESE (MN) TOTAL	<0.001	<0.001			0.015	0.011	0.002		0.002	
MANGANESE (MN) TOTAL	0.010									
MERCURY (HG) TOTAL	<0.0002	<0.0002			<0.0002					
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI) DISS	<0.001									
SELENIUM (SE) TOTAL	<0.001	<0.001			<0.001					
SELENIUM (SE) DISS	<0.001	<0.001			<0.001					
SILVER (AG) TOTAL	<0.001	<0.001			<0.001					
SILVER (AG) DISS	<0.001	<0.001			<0.001					
ZINC (ZN) TOTAL	0.005	0.008			0.010				0.002	
ZINC (ZN) DISS	0.005	0.055			0.002					
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)		2.0			<2.0					
TOTAL COLIFORM (NO./100ML)		13.0			8.0					
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	4.20	14.80			10.10				6.20	
PHENOLS	0.017	0.059			0.010	0.020	0.008		0.008	
OTHER PARAMETERS										
OIL AND GREASE	0.20	1.20			<0.01				<0.1	
CYANIDE (CN)	<0.001	<0.001			0.004				<0.001	
SULFIDE	1.80									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3	S15-3
SAMPLE DATE	10/15/82	06/28/83	07/19/83	08/24/83	09/27/83	10/20/83	04/12/84	05/24/84	06/26/84	07/31/84
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	8	16	22	14	11	9	7	13	14	20
FLOW (CFS)	0.08	0.98	0.13	0.07	0.05	0.06		2.30	0.31	0.19
WATER TEMPERATURE (C)	5	5	4	6	6	6	3	8	3	8
SPEC. COND. (UMHOS/CM) FIELD	268	143	225	317	329	313	312	140	176	281
PH FIELD	7.7	8.3	7.6	7.2	6.8	7.3	7.5	7.1	6.8	6.8
TURBIDITY (NTU) FIELD	4	16	13	2.4	4.1	7.1	4.3	28	14	7.8
TOTAL SUSP. SOLIDS	18.00	<0.1		4.0		3.0			1.0	
TOTAL DISS. SOLIDS MEAS.	169	90.0		180		200			112	
OXYGEN (O) DISS				7.8						
COMMON IONS										
CALCIUM (CA)	46.40	24.00		52.00		52.80			18.00	
MAGNESIUM (MG)	9.12	3.36		6.24		8.16			10.80	
SODIUM (NA)	3.9	8.6		9.0		8.80			8.50	
POTASSIUM (K)	0.65	0.42		0.8		1.2			0.5	
ACIDITY AS CACO3				15.00						
ALKALINITY AS CACO3 (LAB)				160						
BICARBONATE (HCO3) (LAB)	171	100		195		176			113.5	
SULFATE (SO4)	21.00	4.0		16		35			18	
CHLORIDE (CL)	2.00	6.0		<0.1		2.00			0.9	
FLUORIDE (F)				0.08						
NUTRIENTS										
NITRATE (NO3-N)				<0.02						
AMMONIA (NH3 AS N)	0.33	<0.1		0.30		0.70			0.13	
TOTAL PHOSPHATE (PO4)	0.060	0.44		0.02		0.01			0.02	
TRACE ELEMENTS										
BARIUM (BA) TOTAL				0.013						
BORON (B) TOTAL				0.033						
COPPER (CU) TOTAL				<0.001						
IRON (FE) TOTAL	0.070	0.390		0.020		0.060			0.36	
LEAD (PB) TOTAL				<0.001						
MANGANESE (MN) TOTAL	0.002	0.003		<0.001		0.010			0.01	
ZINC (ZN) TOTAL				0.003						
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)				0.80						
PHENOLS	<0.001	<0.001		<0.001		<0.001			<0.001	
OTHER PARAMETERS										
OIL AND GREASE				<0.2						
CYANIDE (CN)				<0.001						

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S15-3	S15-3	S15-3	S15-3	S15-3
SAMPLE DATE	08/24/84	09/27/84	10/15/85	05/27/86	06/19/86
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS					
AIR TEMPERATURE (C)	8	3	11	15	19
FLOW (CFS)	0.07	0.05	0.06	3.00	0.33
WATER TEMPERATURE (C)	4	4	5	3	4
SPEC. COND. (UMHOS/CM) FIELD	349	335	330	97	179
PH FIELD	7.1	7.2	7.2		
TURBIDITY (NTU) FIELD	13	5.9	5.0	26	
TOTAL SUSP. SOLIDS	3.0		4.0		6.0
TOTAL DISS. SOLIDS MEAS.	250		216		162
OXYGEN (O) DISS	8.4				
COMMON IONS					
CALCIUM (CA)	60.00		58.4		25.60
MAGNESIUM (MG)	8.40		6.20		3.40
SODIUM (NA)	37.00		1.00		2.20
POTASSIUM (K)	0.67		1.25		0.07
ACIDITY AS CACO3	12.00				
ALKALINITY AS CACO3 (LAB)	175				
BICARBONATE (HCO3) (LAB)	213.5		199.0		85.4
SULFATE (SO4)	<10		14		4
CHLORIDE (CL)	25.0		1.8		5.1
FLUORIDE (F)	0.14				
NUTRIENTS					
NITRATE (NO3-N)	0.11				
AMMONIA (NH3 AS N)	0.09		<0.01		<0.01
TOTAL PHOSPHATE (PO4)	<0.01		<0.01		0.09
TRACE ELEMENTS					
BARIUM (BA) TOTAL	0.02				
BORON (B) TOTAL	0.054				
COPPER (CU) TOTAL	0.023				
IRON (FE) TOTAL	1.80		0.06		0.19
LEAD (PB) TOTAL	0.016				
MANGANESE (MN) TOTAL	0.01		<0.01		<0.01
ZINC (ZN) TOTAL	0.034				
ORGANIC PARAMETERS					
ORGANIC CARBON (TOTAL)	<0.01				
PHENOLS	<0.001		<0.001		<0.001
OTHER PARAMETERS					
OIL AND GREASE	<0.1				
CYANIDE (CN)	<0.001				

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2
SAMPLE DATE	01/27/81	02/25/81	03/11/81	04/08/81	05/14/81	08/20/81	09/24/81	10/23/81	11/11/81	12/09/81
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	-3	10	2	5	16	15	22	3	2	7
FLOW (CFS)		0.17	0.04	0.04	0.05	0.2	0.03	0.2	0.31	0.29
WATER TEMPERATURE (C)	9	10	10	8	8	9	12	9	8	9
SPEC. COND. (UMHOS/CM) FIELD	342	460	340	361	480	500	540	500	540	510
PH FIELD	7.1	7.9	7.5	7.2	7.8	7.8			6.8	7.8
TURBIDITY (NTU) FIELD					0.64	4.00			2.30	
TOTAL SUSP. SOLIDS		5.0			4.0	<0.1			3.0	2.0
TOTAL DISS. SOLIDS MEAS.		460			315	330			348	336
OXYGEN (O) DISS						8.5				
COMMON IONS										
TOTAL HARDNESS AS CACO3					302					
CALCIUM (CA)		74.30			77.60	75.20			76.00	77.00
MAGNESIUM (MG)		26.70			25.92	30.24			32.50	30.50
SODIUM (NA)		3.30			4.00	3.80			3.90	3.10
POTASSIUM (K)		2.44			2.42	2.40			2.35	2.10
ACIDITY AS CACO3						9.00			8.00	
ALKALINITY AS CACO3 (LAB)					262	250			266	279
BICARBONATE (HCO3) (LAB)		305			320	305			324	341
CARBONATE AS CO3 (LAB)					<0.01					
SULFATE (SO4)		42.0			40.5	61.0			58.0	45.0
CHLORIDE (CL)		6.0			6.00	5.38			4.20	3.90
FLUORIDE (F)					0.18	0.17			0.17	
NUTRIENTS										
NITRATE (NO3-N)					<0.01	0.03			0.01	
NITRITE (NO2-N)					<0.01					
AMMONIA (NH3 AS N)			<0.01		<0.01	<0.01			<0.01	0.62
TOTAL PHOSPHATE (PO4)		0.028			0.080	0.170			0.260	0.330
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL					<0.001					
ARSENIC (AS) TOTAL					<0.001	<0.001			<0.001	
ARSENIC (AS) DISS					<0.001	<0.001			<0.001	
BARIUM (BA) TOTAL					0.075	0.065			0.075	
BARIUM (BA) DISS					0.060	0.050			0.065	
BORON (B) TOTAL					0.030	0.020			0.025	
BORON (B) DISS					0.020	0.010			0.020	
CADMIUM (CD) TOTAL					<0.001	<0.001			<0.001	
CADMIUM (CD) DISS					<0.001	<0.001			<0.001	
CHROMIUM (CR) TOTAL					<0.001	<0.001			<0.001	
CHROMIUM (CR) DISS					<0.001	<0.001			<0.001	
COPPER (CU) TOTAL					0.010	0.010			<0.001	
COPPER (CU) DISS					<0.001	<0.001			<0.001	
IRON (FE) TOTAL		0.920			1.160	0.460			0.510	1.000

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2
SAMPLE DATE	01/27/81	02/25/81	03/11/81	04/08/81	05/14/81	08/20/81	09/24/81	10/23/81	11/11/81	12/09/81
TRACE ELEMENTS										
LEAD (PB) TOTAL					<0.001	0.003			<0.001	
LEAD (PB) DISS					<0.001	0.002			<0.001	
MANGANESE (MN) TOTAL		0.060			0.070	0.060			0.034	0.030
MERCURY (HG) TOTAL					<0.0002	<0.0002			<0.0002	
MOLYBDENUM (MO) TOTAL					<0.001					
NICKEL (NI) TOTAL					<0.001					
SELENIUM (SE) TOTAL					<0.001	<0.001			<0.001	
SELENIUM (SE) DISS					<0.001	<0.001			<0.001	
SILVER (AG) TOTAL					<0.001	<0.001			<0.001	
SILVER (AG) DISS					<0.001	<0.001			<0.001	
ZINC (ZN) TOTAL					0.005	0.010			0.020	
ZINC (ZN) DISS					0.005	0.005			0.006	
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)						<2.0			<2.0	
TOTAL COLIFORM (NO./100ML)						<2.0			2.0	
5 - DAY BOD						1.4				
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)					2.80	6.10			9.60	
PHENOLS		<0.002			0.160	<0.001			0.014	0.020
OTHER PARAMETERS										
OIL AND GREASE					<0.01	0.60			<0.01	
CYANIDE (CN)					<0.001	0.002			<0.001	

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2
SAMPLE DATE	01/21/82	03/31/82	04/15/82	05/20/82	06/29/82	07/21/82	08/19/82	09/14/82	10/14/82	11/10/82
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	-6	1	5	14	17	21	25	7	11	-1
FLOW (CFS)	0.22	0.22	0.25	0.22	0.26	0.22	0.24	0.22	0.20	0.22
WATER TEMPERATURE (C)	9	8	9	10	9	14	9	9	9	9
SPEC. COND. (UMHOS/CM) FIELD	500	602	630	504	523	524	425	415	527	582
PH FIELD	7.7	6.6	6.7	6.9	7.4	7.4	7.7	7.8	7.4	7.2
TURBIDITY (NTU) FIELD			13	1.5	2.1	2.6	8.8	9	2.1	6.8
TOTAL SUSP. SOLIDS	11.0				6.0		7.0		23.0	
TOTAL DISS. SOLIDS MEAS.	329				344		318		329	
OXYGEN (O) DISS							7.5			
COMMON IONS										
CALCIUM (CA)	74.50				78.00		74.40		72.00	
MAGNESIUM (MG)	30.80				30.80		30.24		28.32	
SODIUM (NA)	3.55				3.9		3.7		12.0	
POTASSIUM (K)	2.50				2.45		2.41		2.38	
ACIDITY AS CACO3							8.00			
ALKALINITY AS CACO3 (LAB)	272						280			
BICARBONATE (HCO3) (LAB)	332				319		341		338	
SULFATE (SO4)	42.00				59.0		16.0		45.0	
CHLORIDE (CL)	3.55				5.60		16.70		3.10	
FLUORIDE (F)							0.17			
NUTRIENTS										
NITRATE (NO3-N)							<0.01			
AMMONIA (NH3 AS N)	2.48				0.25		0.28		0.27	
TOTAL PHOSPHATE (PO4)	0.100				0.070		0.080		0.060	
TRACE ELEMENTS										
BARIUM (BA) TOTAL							0.036			
BORON (B) TOTAL							0.015			
COPPER (CU) TOTAL							<0.001			
IRON (FE) TOTAL	0.990				0.860		0.920		0.860	
LEAD (PB) TOTAL							0.001			
MANGANESE (MN) TOTAL	0.030				0.065		0.065		0.058	
ZINC (ZN) TOTAL							0.001			
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)							10.00			
PHENOLS	<0.001				0.008		0.004		<0.001	
OTHER PARAMETERS										
OIL AND GREASE							0.2			
CYANIDE (CN)							<0.001			

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2
SAMPLE DATE	12/14/82	01/19/83	02/15/83	03/31/83	04/21/83	05/25/83	06/30/83	07/20/83	08/25/83	09/29/83
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	-8	-5	-1	-1	8	17	12	17	16	11
FLOW (CFS)	0.25	0.21	0.22	0.22	0.22	0.24	0.25	0.25	0.29	0.25
WATER TEMPERATURE (C)	6	7.4	8.0	8.0	8	10	9	9	10	9
SPEC. COND. (UMHOS/CM) FIELD	335	576	558	597	696	631	600	599	625	614
PH FIELD	6.8	7.0	7.0	7.0	6.8	7.0	6.9	7.2	7.0	6.9
TURBIDITY (NTU) FIELD	7.0	6.5	12	1.7	1.6	2.0	2.5	5.5	1.3	1.3
TOTAL SUSP. SOLIDS							<0.1		8.0	
TOTAL DISS. SOLIDS MEAS.							373		354	
OXYGEN (O) DISS									4.2	
COMMON IONS										
CALCIUM (CA)							72.80		74.40	
MAGNESIUM (MG)							31.20		29.28	
SODIUM (NA)							14.0		11.0	
POTASSIUM (K)							2.50		2.5	
ACIDITY AS CACO3									29.00	
ALKALINITY AS CACO3 (LAB)									266	
BICARBONATE (HCO3) (LAB)							315		325	
SULFATE (SO4)							68.0		59	
CHLORIDE (CL)							14.0		6.0	
FLUORIDE (F)									0.14	
NUTRIENTS										
NITRATE (NO3-N)									<0.02	
AMMONIA (NH3 AS N)							<0.1		0.25	
TOTAL PHOSPHATE (PO4)							0.22		<0.01	
TRACE ELEMENTS										
BARIUM (BA) TOTAL									0.093	
BORON (B) TOTAL									0.035	
COPPER (CU) TOTAL									<0.001	
IRON (FE) TOTAL							0.770		0.860	
LEAD (PB) TOTAL									<0.001	
MANGANESE (MN) TOTAL							0.047		0.052	
ZINC (ZN) TOTAL									0.004	
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)									1.10	
PHENOLS							0.003		<0.001	
OTHER PARAMETERS										
OIL AND GREASE									<0.2	
CYANIDE (CN)									<0.001	

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2
SAMPLE DATE	10/26/83	11/10/83	12/20/83	01/18/84	02/22/84	03/22/84	04/25/84	05/17/84	06/29/84	07/27/84
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	9	0	-7	-23	-4	-3	3	13	22	16
FLOW (CFS)	0.25	0.25	0.24	0.21	0.22	0.21	0.26	0.25	0.26	0.29
WATER TEMPERATURE (C)	9	8	7	7	8	8	8	10.5	9	10
SPEC. COND. (UMHOS/CM) FIELD	595	496	596	562	535	528	581	590	597	590
PH FIELD	7.0	6.7	7.0	7.1	7.1	6.7	7.1	7.1	7.3	6.9
TURBIDITY (NTU) FIELD	4.7	7.8	1.3	2.8	1.4	1.9	3.4	4.9	5.5	9.4
TOTAL SUSP. SOLIDS	11.0								1.0	
TOTAL DISS. SOLIDS MEAS.	350								360	
COMMON IONS										
CALCIUM (CA)	74.40								86.00	
MAGNESIUM (MG)	30.72								27.60	
SODIUM (NA)	4.10								10.00	
POTASSIUM (K)	2.3								2.4	
BICARBONATE (HCO3) (LAB)	303								342.8	
SULFATE (SO4)	59								66	
CHLORIDE (CL)	8.00								5.3	
NUTRIENTS										
AMMONIA (NH3 AS N)	0.20								0.12	
TOTAL PHOSPHATE (PO4)	<0.01								0.11	
TRACE ELEMENTS										
IRON (FE) TOTAL	0.850								0.78	
MANGANESE (MN) TOTAL	0.050								0.05	
ORGANIC PARAMETERS										
PHENOLS	<0.001								<0.001	

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2	S17-2
SAMPLE DATE	08/24/84	09/18/84	10/16/85	03/27/86	04/17/86	05/28/86	06/25/86
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS							
AIR TEMPERATURE (C)	15	9	10	8	-2	21	21
FLOW (CFS)	0.24	0.22	0.33	0.27	0.29	0.32	0.32
WATER TEMPERATURE (C)	10	9	9	9	9	9	9
SPEC. COND. (UMHOS/CM) FIELD	648	544	560	618	634	543	598
PH FIELD	7.2	6.9	6.7	6.7	7.0	6.9	7.0
TURBIDITY (NTU) FIELD	8.5	14	3.9	0.3	0.3	0.42	6.13
TOTAL SUSP. SOLIDS	20.0		5.0				10.0
TOTAL DISS. SOLIDS MEAS.	460		362				420
OXYGEN (O) DISS	6.2						
COMMON IONS							
CALCIUM (CA)	80.00		84.00				67.2
MAGNESIUM (MG)	45.60		34.10				31.70
SODIUM (NA)	46.00		2.90				45.00
POTASSIUM (K)	2.23		2.45				2.51
ACIDITY AS CACO3	19.50						
ALKALINITY AS CACO3 (LAB)	300						
BICARBONATE (HCO3) (LAB)	366.0		357.0				405.0
SULFATE (SO4)	51		61				62
CHLORIDE (CL)	45.0		5.3				6.2
FLUORIDE (F)	0.21						
NUTRIENTS							
NITRATE (NO3-N)	0.06						
AMMONIA (NH3 AS N)	0.10		<0.01				0.13
TOTAL PHOSPHATE (PO4)	0.02		0.07				0.04
TRACE ELEMENTS							
BARIUM (BA) TOTAL	0.07						
BORON (B) TOTAL	0.035						
COPPER (CU) TOTAL	0.015						
IRON (FE) TOTAL	1.30		0.78				0.80
LEAD (PB) TOTAL	0.005						
MANGANESE (MN) TOTAL	0.05		0.04				0.04
ZINC (ZN) TOTAL	0.033						
ORGANIC PARAMETERS							
ORGANIC CARBON (TOTAL)	<0.01						
PHENOLS	<0.001		<0.001				<0.001
OTHER PARAMETERS							
OIL AND GREASE	<0.1						
CYANIDE (CN)	<0.001						

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5
SAMPLE DATE	05/14/81	08/18/81	09/24/81	10/22/81	11/10/81	12/08/81	06/29/82	07/20/82	08/18/82	09/15/82
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	14	11	21	3	9	10	17	26	18	9
FLOW (CFS)	0.03	0.01	0.005	0.0004	0.01		0.13	0.04	0.01	0.02
WATER TEMPERATURE (C)	3	5	7	4	5	3	4	4	14	5
SPEC. COND. (UMHOS/CM) FIELD	270	330	380	340	350	350	312	376	290	315
PH FIELD	7.85	7.4			7.6	8.1	7.4	7.9	8.2	8.4
TURBIDITY (NTU) FIELD	7.80	0.52			0.30		3.4	9.1	239	8.6
TOTAL SUSP. SOLIDS	1.0	6.0			1.0	1.0	1.0		6.0	
TOTAL DISS. SOLIDS MEAS.	175	212			225	229	178		215	
OXYGEN (O) DISS		11.4			9.9				8.8	
COMMON IONS										
TOTAL HARDNESS AS CACO3	166									
CALCIUM (CA)	56.96	68.00			67.00	69.50	58.00		65.60	
MAGNESIUM (MG)	5.20	8.16			10.50	10.00	6.50		9.60	
SODIUM (NA)	2.50	3.00			4.50	4.10	2.4		4.0	
POTASSIUM (K)	0.560	0.73			0.98	0.70	0.57		0.69	
CALCIUM (CA) TOTAL	57.60									
MAGNESIUM (MG) TOTAL	5.28									
SODIUM (NA) TOTAL	3.60									
POTASSIUM (K) TOTAL	1.65									
ACIDITY AS CACO3	<0.01	6.40			6.00				5.00	
ALKALINITY AS CACO3 (LAB)	154	186			218	200			196	
BICARBONATE (HCO3) (LAB)	183	227			266	244	199		239	
CARBONATE AS CO3 (LAB)	2.40									
SULFATE (SO4)	12.5	17.6			3.0	15.0	9.0		<3.0	
CHLORIDE (CL)	3.8	2.76			3.40	2.90	1.60		14.30	
FLUORIDE (F)	0.14	0.17			0.14				0.15	
CHLORIDE (CL) TOTAL	4.00									
FLUORIDE (F) TOTAL	0.14									
NUTRIENTS										
NITRATE (NO3-N)	1.63				1.08				0.29	
NITRITE (NO2-N)	0.03									
AMMONIA (NH3 AS N)	<0.01	<0.01			0.10	0.63	0.25		0.28	
TOTAL PHOSPHATE (PO4)	0.140	0.170			0.230	0.820	0.060		0.120	
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	0.065									
ALUMINUM (AL) DISS	0.020									
ARSENIC (AS) TOTAL	<0.001	0.002			<0.001					
ARSENIC (AS) DISS	<0.001	<0.001			<0.001					
BARIUM (BA) TOTAL	0.018	0.020			0.025				0.030	
BARIUM (BA) DISS	0.015	0.013			0.020					
BORON (B) TOTAL	<0.001	0.018			0.013				0.015	
BORON (B) DISS	<0.001	0.010			0.005					

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5
SAMPLE DATE	05/14/81	08/18/81	09/24/81	10/22/81	11/10/81	12/08/81	06/29/82	07/20/82	08/18/82	09/15/82
TRACE ELEMENTS										
CADMIUM (CD) TOTAL	<0.001	<0.001			<0.001					
CADMIUM (CD) DISS	<0.001	<0.001			<0.001					
CHROMIUM (CR) TOTAL	<0.001	<0.001			<0.001					
CHROMIUM (CR) DISS	<0.001	<0.001			<0.001					
COPPER (CU) TOTAL	0.010	0.010			0.011				<0.001	
COPPER (CU) DISS	0.010	<0.001			0.010					
IRON (FE) TOTAL	0.020	0.098			0.110	1.450	0.050		0.010	
IRON (FE) TOTAL	0.050									
LEAD (PB) TOTAL	0.002	0.005			<0.001				0.001	
LEAD (PB) DISS	<0.001	<0.001			<0.001					
MANGANESE (MN) TOTAL	<0.001	<0.001			0.002	0.005	0.003		0.002	
MANGANESE (MN) TOTAL	0.010									
MERCURY (HG) TOTAL	<0.0002	<0.0002			<0.0002					
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI) DISS	<0.001									
SELENIUM (SE) TOTAL	<0.001	<0.001			<0.001					
SELENIUM (SE) DISS	<0.001	<0.001			<0.001					
SILVER (AG) TOTAL	<0.001	<0.001			<0.001					
SILVER (AG) DISS	<0.001	<0.001			<0.001					
ZINC (ZN) TOTAL	0.010	0.059			0.060				0.001	
ZINC (ZN) DISS	0.003	0.055			0.040					
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)		<2.0			<2.0					
TOTAL COLIFORM (NO./100ML)		2.0			130					
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	3.90	5.30			4.90				4.50	
PHENOLS	0.482	<0.001			0.001	0.020	0.013		<0.001	
OTHER PARAMETERS										
OIL AND GREASE	0.20	0.80			20.60				0.4	
CYANIDE (CN)	<0.001	<0.001			<0.001				<0.001	
SULFIDE	2.20									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5	S22-5
SAMPLE DATE	10/15/82	06/28/83	07/19/83	08/24/83	09/27/83	10/20/83	06/26/84	07/31/84	08/23/84	09/27/84
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	7	16	21	17	14	9	14	21	13	8
FLOW (CFS)	0.01	0.16	0.07	0.04	0.02	0.02	0.13	0.05	0.04	0.02
WATER TEMPERATURE (C)	5	3	3	5	6	6	3	6	4	4.5
SPEC. COND. (UMHOS/CM) FIELD	359	277	378	408	390	373	337	388	413	384
PH FIELD	7.9	7.6	7.6	7.3	6.1	6.9	6.7	7.0	7.3	7.3
TURBIDITY (NTU) FIELD	4	7.4	2.5	1.2	3.4	7.0	9.9	8.9	8.3	6.2
TOTAL SUSP. SOLIDS	16.0	<0.1		2.0		7.0	3.0		2.0	
TOTAL DISS. SOLIDS MEAS.	269	186		225		240	300		330	
OXYGEN (O) DISS				2.2					9.6	
COMMON IONS										
CALCIUM (CA)	68.00	47.20		64.00		65.60	54.00		72.00	
MAGNESIUM (MG)	7.68	6.24		8.64		9.60	13.20		8.40	
SODIUM (NA)	26.0	9.6		6.8		6.00	7.50		46.00	
POTASSIUM (K)	0.69	0.54		0.6		0.4	0.5		0.59	
ACIDITY AS CACO3				22.0					2.80	
ALKALINITY AS CACO3 (LAB)				192					290	
BICARBONATE (HCO3) (LAB)	289	166		234		222	228.1		353.8	
SULFATE (SO4)	21.0	22.0		13		25	20		<10	
CHLORIDE (CL)	2.20	6.0		4.0		4.00	1.7		10.0	
FLUORIDE (F)				0.12					0.08	
NUTRIENTS										
NITRATE (NO3-N)				<0.02					1.50	
AMMONIA (NH3 AS N)	0.27	<0.1		0.10		0.35	0.16		0.07	
TOTAL PHOSPHATE (PO4)	0.060	0.22		<0.01		<0.01	0.02		0.12	
TRACE ELEMENTS										
BARIUM (BA) TOTAL				0.020					0.02	
BORON (B) TOTAL				0.021					0.057	
COPPER (CU) TOTAL				0.020					0.014	
IRON (FE) TOTAL	0.010	0.050		0.060		0.090	0.15		0.11	
LEAD (PB) TOTAL				<0.001					0.004	
MANGANESE (MN) TOTAL	0.002	0.003		0.008		0.020	0.01		0.01	
ZINC (ZN) TOTAL				0.013					0.028	
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)				0.65					<0.01	
PHENOLS	<0.001	0.013		<0.001		<0.001	<0.001		<0.001	
OTHER PARAMETERS										
OIL AND GREASE				<0.2					<0.1	
CYANIDE (CN)				<0.001					<0.001	

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S22-5	S22-5
SAMPLE DATE	10/15/85	06/19/86
LOCATION	SPRING	SPRING
PHYSICAL PARAMETERS		
AIR TEMPERATURE (C)	8	19
FLOW (CFS)	0.017	0.10
WATER TEMPERATURE (C)	5	4
SPEC. COND. (UMHOS/CM) FIELD	385	305
PH FIELD	7.1	7.1
TURBIDITY (NTU) FIELD	2.8	
TOTAL SUSP. SOLIDS	3.0	4.0
TOTAL DISS. SOLIDS MEAS.	252	184
COMMON IONS		
CALCIUM (CA)	88.40	52.80
MAGNESIUM (MG)	<0.10	5.30
SODIUM (NA)	1.20	2.00
POTASSIUM (K)	1.23	0.28
BICARBONATE (HCO3) (LAB)	245.2	170.8
SULFATE (SO4)	13	6
CHLORIDE (CL)	5.5	7.5
NUTRIENTS		
AMMONIA (NH3 AS N)	<0.01	<0.01
TOTAL PHOSPHATE (PO4)	<0.01	0.18
TRACE ELEMENTS		
IRON (FE) TOTAL	<0.01	0.04
MANGANESE (MN) TOTAL	<0.01	<0.01
ORGANIC PARAMETERS		
PHENOLS	<0.001	<0.001

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11
SAMPLE DATE	06/29/81	08/18/81	09/24/81	11/11/81	06/29/82	07/26/82	08/18/82	09/15/82	10/15/82	06/28/83
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	18	12	18	-1	20	21	22	10	1	11
FLOW (CFS)	0.02	0.01	0.01	0.001	0.08	0.05	0.05	0.03	0.03	0.10
WATER TEMPERATURE (C)	4	4	4	2	4	3	4	4	4	3
SPEC. COND. (UMHOS/CM) FIELD	310	290	380	345	328	362	335	298	390	354
PH FIELD	7.9	7.5		7.6	7.5	7.8	8.1	8.3	8.5	7.3
TURBIDITY (NTU) FIELD	0.46	0.27		0.36	2.3	5.9	10.0	12	5	5.8
TOTAL SUSP. SOLIDS	1.0	12.0		4.0	<1.0		5.0		9.0	2.0
TOTAL DISS. SOLIDS MEAS.	208	190		225	218		233		220	226
OXYGEN (O) DISS		9.8		10.2			13.0			
COMMON IONS										
TOTAL HARDNESS AS CACO3	186									
CALCIUM (CA)	62.40	63.20		67.00	64.00		65.60		63.20	60.80
MAGNESIUM (MG)	7.20	7.68		10.00	9.50		9.12		8.64	9.12
SODIUM (NA)	2.20	2.50		3.40	2.4		8.0		6.0	8.0
POTASSIUM (K)	0.790	0.86		1.10	0.80		0.82		0.80	0.82
CALCIUM (CA) TOTAL	63.80									
MAGNESIUM (MG) TOTAL	8.65									
SODIUM (NA) TOTAL	3.50									
POTASSIUM (K) TOTAL	0.99									
ACIDITY AS CACO3	6.80	6.40		12.00			5.00			
ALKALINITY AS CACO3 (LAB)	184	188		194			202			
BICARBONATE (HCO3) (LAB)	224.8	229		237	239		246		244	225
CARBONATE AS CO3 (LAB)	<0.01									
SULFATE (SO4)	14.0	4.5		18.0	6.0		<3.0		6.0	12.0
CHLORIDE (CL)	4.27	2.98		3.20	1.30		12.30		1.60	10.0
FLUORIDE (F)	0.16	0.17		0.13			0.18			
CHLORIDE (CL) TOTAL	4.40									
FLUORIDE (F) TOTAL	0.16									
NUTRIENTS										
NITRATE (NO3-N)	0.99			0.46			4.10			
NITRITE (NO2-N)	0.04									
AMMONIA (NH3 AS N)	0.10	<0.01		0.30	0.28		0.33		0.25	<0.1
TOTAL PHOSPHATE (PO4)	0.690	0.130		0.340	0.070		0.470		0.050	0.30
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	<0.001									
ALUMINUM (AL) DISS	<0.001									
ARSENIC (AS) TOTAL	<0.001	0.002		<0.001						
ARSENIC (AS) DISS	<0.001	<0.001		<0.001						
BARIUM (BA) TOTAL	0.025	0.020		0.018			0.038			
BARIUM (BA) DISS	0.015	0.014		0.015						
BORON (B) TOTAL	0.030	0.020		0.010			0.012			
BORON (B) DISS	0.020	0.015		0.005						

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11
SAMPLE DATE	06/29/81	08/18/81	09/24/81	11/11/81	06/29/82	07/26/82	08/18/82	09/15/82	10/15/82	06/28/83
TRACE ELEMENTS										
CADMIUM (CD) TOTAL	<0.001	<0.001		<0.001						
CADMIUM (CD) DISS	<0.001	<0.001		<0.001						
CHROMIUM (CR) TOTAL	<0.001	<0.001		<0.001						
CHROMIUM (CR) DISS	<0.001	<0.001		<0.001						
COPPER (CU) TOTAL	0.010	0.020		0.015			<0.001			
COPPER (CU) DISS	<0.001	<0.001		0.010						
IRON (FE) TOTAL	0.020	0.099		0.055	0.010		0.030		0.010	0.020
IRON (FE) TOTAL	0.040									
LEAD (PB) TOTAL	<0.001	<0.001		0.001			<0.001			
LEAD (PB) DISS	<0.001	0.004		<0.001						
MANGANESE (MN) TOTAL	0.001	0.020		0.003	<0.001		0.005		0.006	0.004
MANGANESE (MN) TOTAL	0.010									
MERCURY (HG) TOTAL	<0.0002	<0.0002		<0.0002						
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI) DISS	<0.001									
SELENIUM (SE) TOTAL	<0.001	<0.001		<0.001						
SELENIUM (SE) DISS	<0.001	<0.001		<0.001						
SILVER (AG) TOTAL	<0.001	<0.001		0.001						
SILVER (AG) DISS	<0.001	<0.001		<0.001						
ZINC (ZN) TOTAL	0.010	0.185		0.015			0.002			
ZINC (ZN) DISS	0.005	0.040		0.008						
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)		<2.0		<2.0						
TOTAL COLIFORM (NO./100ML)		17.0		2.0						
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	26.40	9.50		1.90			6.70			
PHENOLS	<0.001	0.050		0.002	<0.001		0.013		<0.001	<0.001
OTHER PARAMETERS										
OIL AND GREASE	1.40	0.60		0.20			0.4			
CYANIDE (CN)	<0.001	<0.001		0.011			<0.001			
SULFIDE	<0.01									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11	S22-11
SAMPLE DATE	07/19/83	08/24/83	09/28/83	10/26/83	06/27/84	07/31/84	08/23/84	09/26/84	10/30/85	06/19/86
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	20	13	4	5	10	15	12	10	7	15
FLOW (CFS)	0.04	0.05	0.04	0.04	0.09	0.05	0.05	0.05	0.01	0.14
WATER TEMPERATURE (C)	3	4	4	5	3	4	4	3	.4	3
SPEC. COND. (UMHOS/CM) FIELD	384	394	359	345	378	377	383	371	341	355
PH FIELD	7.5	7.3	6.0	6.8	6.9	7.0	7.2	7.2	6.8	7.0
TURBIDITY (NTU) FIELD	11	1.1	1.6	6.6	8.6	7.3	9.5	2.9	0.8	
TOTAL SUSP. SOLIDS		2.0		4.0	2.0		1.0		1.0	6.0
TOTAL DISS. SOLIDS MEAS.		221		228	240		240		186	228
OXYGEN (O) DISS		4.6					9.0			
COMMON IONS										
CALCIUM (CA)		60.00	60.00		68.00		60.00		62.80	62.40
MAGNESIUM (MG)		8.64	10.56		8.40		15.60		8.60	7.70
SODIUM (NA)		12.0	11.00		13.30		15.00		4.60	2.40
POTASSIUM (K)		0.8	0.7		0.7		0.68		0.91	2.11
ACIDITY AS CACO3		20.00					2.70			
ALKALINITY AS CACO3 (LAB)		196					210			
BICARBONATE (HCO3) (LAB)		239		210	266.0		256.4		222.0	219.6
SULFATE (SO4)		13		36	16		<10		14	6
CHLORIDE (CL)		4.0	4.00		2.3		20.0		2.8	5.3
FLUORIDE (F)		0.11					0.09			
NUTRIENTS										
NITRATE (NO3-N)		<0.02					0.25			
AMMONIA (NH3 AS N)		0.65		0.35	0.31		0.08		<0.01	<0.01
TOTAL PHOSPHATE (PO4)		<0.01		0.03	0.05		0.12		0.04	0.85
TRACE ELEMENTS										
BARIUM (BA) TOTAL		0.016					0.01			
BORON (B) TOTAL		0.028					0.032			
COPPER (CU) TOTAL							0.015			
IRON (FE) TOTAL		0.010	0.070		0.08		0.10		0.03	<0.01
LEAD (PB) TOTAL		<0.001					0.003			
MANGANESE (MN) TOTAL		0.002	0.020		0.01		0.01		<0.01	<0.01
ZINC (ZN) TOTAL		0.004					0.040			
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)		0.75					<0.01			
PHENOLS		<0.001		<0.001	<0.001		<0.001		<0.001	<0.001
OTHER PARAMETERS										
OIL AND GREASE		<0.2					<0.1			
CYANIDE (CN)		<0.001					<0.001			

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4
SAMPLE DATE	06/29/81	08/20/81	09/24/81	06/29/82	07/20/82	08/19/82	09/22/82	06/29/83	07/19/83	08/22/83
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	24	24	14	24	23	23	19	10	21	15
WATER TEMPERATURE (C)	25	14	12	17	18	9	10	5	9	12
SPEC. COND. (UMHOS/CM) FIELD	390	390	430	361	458	408	478	354	514	512
PH FIELD	8.0	7.8		7.2	7.3	7.3	7.3	6.6	7.4	6.8
TURBIDITY (NTU) FIELD	1.00	2.40		8.5		7.0	6.9	9.7	83	10
TOTAL SUSP. SOLIDS	14.0	2.3		260		416		71.0		719
TOTAL DISS. SOLIDS MEAS.	255	250		263		289		222		295
OXYGEN (O) DISS		9.1				3.0				
COMMON IONS										
TOTAL HARDNESS AS CACO3	216									
CALCIUM (CA)	48.00	80.80		77.50		78.40		58.40		79.20
MAGNESIUM (MG)	23.04	8.64		14.60		16.80		10.56		17.28
SODIUM (NA)	2.00	2.10		2.5		10.0		9.5		8.9
POTASSIUM (K)	1.100	1.11		1.20		1.43		0.58		1.3
CALCIUM (CA) TOTAL	48.50									
MAGNESIUM (MG) TOTAL	24.20									
SODIUM (NA) TOTAL	17.00									
POTASSIUM (K) TOTAL	0.45									
ACIDITY AS CACO3	8.50	7.20				8.0				19.00
ALKALINITY AS CACO3 (LAB)	240	238				274				
BICARBONATE (HCO3) (LAB)	292.85	290		309		334		227		
CARBONATE AS CO3 (LAB)	<0.01									
SULFATE (SO4)	16.3	3.0		9.0		<3.0		12.0		13
CHLORIDE (CL)	3.41	2.60		1.20		13.50		10.0		2.0
FLUORIDE (F)	0.22	0.23				0.15				0.14
CHLORIDE (CL) TOTAL	3.40									
FLUORIDE (F) TOTAL	0.22									
NUTRIENTS										
NITRATE (NO3-N)	0.66	0.33				0.16				<0.02
NITRITE (NO2-N)	0.04									
AMMONIA (NH3 AS N)	0.10	<0.01		0.32		0.17		<0.1		0.40
TOTAL PHOSPHATE (PO4)	0.180	0.250		0.080		0.210		0.70		0.03
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	0.050									
ALUMINUM (AL) DISS	0.040									
ARSENIC (AS) TOTAL	<0.001	<0.001								
ARSENIC (AS) DISS	<0.001	<0.001								
BARIUM (BA) TOTAL	0.035	0.030				0.040				0.070
BARIUM (BA) DISS	0.025	0.025								
BORON (B) TOTAL	0.036	0.030				0.010				0.030
BORON (B) DISS	0.030	0.012								
CADMIUM (CD) TOTAL	<0.001	<0.001								

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4
SAMPLE DATE	06/29/81	08/20/81	09/24/81	06/29/82	07/20/82	08/19/82	09/22/82	06/29/83	07/19/83	08/22/83
TRACE ELEMENTS										
CADMIUM (CD) DISS	<0.001	<0.001								
CHROMIUM (CR) TOTAL	<0.001	<0.001								
CHROMIUM (CR) DISS	<0.001	<0.001								
COPPER (CU) TOTAL	<0.001	0.020				0.010				0.030
COPPER (CU) DISS	<0.001	<0.001								
IRON (FE) TOTAL	0.020	1.300		1.550		3.310		0.540		7.500
IRON (FE) TOTAL	0.240									
LEAD (PB) TOTAL	<0.001	<0.001				0.004				0.009
LEAD (PB) DISS	<0.001	<0.001								
MANGANESE (MN) TOTAL	0.010	0.020		0.080		0.150		0.022		0.150
MANGANESE (MN) TOTAL	0.020									
MERCURY (HG) TOTAL	<0.0002	<0.0002								
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI)	<0.001									
SELENIUM (SE) TOTAL	<0.001	<0.001								
SELENIUM (SE) DISS	<0.001	<0.001								
SILVER (AG) TOTAL	<0.001	<0.001								
SILVER (AG) DISS	<0.001	<0.001								
ZINC (ZN) TOTAL	0.010	0.012				0.010				0.055
ZINC (ZN) DISS	0.005	0.005								
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)		23.0								
TOTAL COLIFORM (NO./100ML)		2300								
5 - DAY BOD		1.9								
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	19.70	7.60				19.80				0.88
PHENOLS	0.269	<0.001		<0.001		0.008		<0.001		<0.001
OTHER PARAMETERS										
OIL AND GREASE	0.20	1.20				0.4				<0.2
CYANIDE (CN)	<0.001	0.002				0.009				<0.001
SULFIDE	<0.01									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4	S23-4
SAMPLE DATE	09/28/83	10/19/83	06/26/84	07/30/84	08/22/84	09/18/84	06/19/86
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS							
AIR TEMPERATURE (C)	8	8	12	12	16	16	9
WATER TEMPERATURE (C)	6	6	8	10	15	15	5
SPEC. COND. (UMHOS/CM) FIELD	469	448	358	479	516	462	345
PH FIELD	6.8	6.7	6.5	6.7	7.0	7.0	6.6
TURBIDITY (NTU) FIELD	80	28	10	23	59	30	
TOTAL SUSP. SOLIDS		124	1406		18.0		18.0
TOTAL DISS. SOLIDS MEAS.		275	238		310		234
OXYGEN (O) DISS					7.2		
COMMON IONS							
CALCIUM (CA)		73.60	76.00		84.00		64.00
MAGNESIUM (MG)		15.84	8.40		19.20		12.50
SODIUM (NA)		9.00	6.80		8.50		2.50
POTASSIUM (K)		0.5	0.6		1.12		0.32
ACIDITY AS CACO3					1.60		
ALKALINITY AS CACO3 (LAB)	274				285		
BICARBONATE (HCO3) (LAB)	334	281	278.2		347.7		244.0
SULFATE (SO4)		30	10		12		5
CHLORIDE (CL)		4.00	2.5		5.0		6.9
FLUORIDE (F)					0.12		
NUTRIENTS							
NITRATE (NO3-N)					0.28		
AMMONIA (NH3 AS N)		<0.01	0.32		0.18		<0.01
TOTAL PHOSPHATE (PO4)		0.02	0.04		0.26		0.10
TRACE ELEMENTS							
BARIUM (BA) TOTAL					0.04		
BORON (B) TOTAL					0.059		
COPPER (CU) TOTAL					0.015		
IRON (FE) TOTAL		2.810	0.93		0.58		0.31
LEAD (PB) TOTAL					0.003		
MANGANESE (MN) TOTAL		0.070	0.04		0.04		<0.01
ZINC (ZN) TOTAL					0.039		
ORGANIC PARAMETERS							
ORGANIC CARBON (TOTAL)					3.00		
PHENOLS		<0.001	<0.001		<0.001		<0.001
OTHER PARAMETERS							
OIL AND GREASE					<0.1		
CYANIDE (CN)					<0.001		

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12
SAMPLE DATE	05/14/81	08/20/81	09/25/81	11/12/81	06/30/82	07/22/82	08/20/82	09/14/82	06/30/83	07/19/83
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	17.5	15	15	2	16	15	18	6	5	15
FLOW (CFS)	0.003	0.001	0.0015	0.001	0.004	0.002	0.002	0.002	0.003	0.003
WATER TEMPERATURE (C)	7	7	7	3	6	6	6	6	4	13
SPEC. COND. (UMHOS/CM) FIELD	480	500	540	610	440	483	402	460	530	571
PH FIELD	7.7	8.0		7.7	7.6	7.4	8.1	8.0	7.5	7.8
TURBIDITY (NTU) FIELD	4.00	0.40		0.34	3.4	8.3	6.4	6.0	42	7.5
TOTAL SUSP. SOLIDS	66	<0.1		11.0	<1.0		13.0		56.0	
TOTAL DISS. SOLIDS MEAS.	310	333		398	296		340		334	
OXYGEN (O) DISS		10.0		9.0			7.4			
COMMON IONS										
TOTAL HARDNESS AS CACO3	218									
CALCIUM (CA)	46.80	79.20		81.00	78.00		79.20		75.20	
MAGNESIUM (MG)	23.80	31.68		29.50	26.40		34.08		25.44	
SODIUM (NA)	3.10	2.90		25.60	2.7		2.6		13.0	
POTASSIUM (K)	1.68	1.82		1.85	1.34		1.58		1.48	
CALCIUM (CA) TOTAL	47.20									
MAGNESIUM (MG) TOTAL	24.00									
SODIUM (NA) TOTAL	38.00									
POTASSIUM (K) TOTAL	1.70									
ACIDITY AS CACO3	<0.01	<0.01		10.00			7.00			
ALKALINITY AS CACO3 (LAB)	280	310		297			296			
BICARBONATE (HCO3) (LAB)	317.2	373		363	359		361		334	
CARBONATE AS CO3 (LAB)	12.00									
SULFATE (SO4)	20.0	29.0		73.0	12.0		25.0		36.0	
CHLORIDE (CL)	4.00	2.72		3.50	0.60		15.30		10.0	
FLUORIDE (F)	0.16	0.24		0.17			0.17			
CHLORIDE (CL) TOTAL	4.00									
FLUORIDE (F) TOTAL	0.18									
NUTRIENTS										
NITRATE (NO3-N)	0.02	<0.01		0.05			0.11			
NITRITE (NO2-N)	0.02									
AMMONIA (NH3 AS N)	<0.01	<0.01		<0.01	0.26		0.35		<0.1	
TOTAL PHOSPHATE (PO4)	0.110	0.150		0.280	0.050		0.060		0.22	
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	<0.001									
ALUMINUM (AL) DISS	<0.001									
ARSENIC (AS) TOTAL	<0.001	<0.001		<0.001						
ARSENIC (AS) DISS	<0.001	<0.001		<0.001						
BARIUM (BA) TOTAL	0.065	0.060		0.066			0.065			
BARIUM (BA) DISS	0.050	0.040		0.055						
BORON (B) TOTAL	0.040	0.040		0.040			0.012			
BORON (B) DISS	0.030	0.006		0.035						

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12
SAMPLE DATE	05/14/81	08/20/81	09/25/81	11/12/81	06/30/82	07/22/82	08/20/82	09/14/82	06/30/83	07/19/83
TRACE ELEMENTS										
CADMIUM (CD) TOTAL	<0.001	<0.001		<0.001						
CADMIUM (CD) DISS	<0.001	<0.001		<0.001						
CHROMIUM (CR) TOTAL	<0.001	<0.001		<0.001						
CHROMIUM (CR) DISS	<0.001	<0.001		<0.001						
COPPER (CU) TOTAL	0.010	0.020		0.012			0.010			
COPPER (CU) DISS	0.010	<0.001		0.011						
IRON (FE) TOTAL	0.010	0.090		0.450	0.010		0.050		0.850	
IRON (FE) TOTAL	0.420									
LEAD (PB) TOTAL	0.001	0.006		<0.001			0.004			
LEAD (PB) DISS	<0.001	0.002		<0.001						
MANGANESE (MN) TOTAL	0.010	0.010		0.010	0.005		0.015		0.030	
MANGANESE (MN) TOTAL	0.030									
MERCURY (HG) TOTAL	<0.0002	<0.0002		<0.0002						
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI)	<0.001									
SELENIUM (SE) TOTAL	<0.001	<0.001		<0.001						
SELENIUM (SE) DISS	<0.001	<0.001		<0.001						
SILVER (AG) TOTAL	<0.001	<0.001		<0.001						
SILVER (AG) DISS	<0.001	<0.001		<0.001						
ZINC (ZN) TOTAL	0.010	0.015		0.020			0.001			
ZINC (ZN) DISS	0.010	0.010		0.012						
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)		<2.0		<2.0						
TOTAL COLIFORM (NO./100ML)		14.0		7.0						
5 - DAY BOD		2.0								
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	6.80	4.10		<0.01			12.20			
PHENOLS	0.007	<0.001		<0.001	<0.001		0.008		<0.001	
OTHER PARAMETERS										
OIL AND GREASE	0.80	1.80		<0.01			0.2			
CYANIDE (CN)	<0.001	0.001		0.015			0.004			
SULFIDE	2.20									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12	S24-12
SAMPLE DATE	08/25/83	09/23/83	10/27/83	11/11/83	06/28/84	07/30/84	08/27/84	09/18/84	10/17/85	06/19/86
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	13	9	-1	3	18	13	21	11	1	17
FLOW (CFS)	0.002	0.001	0.002	0.002	0.005	0.003	0.003	0.002	0.002	0.004
WATER TEMPERATURE (C)	9	6	3	3.5	5	7	12	8	3	9
SPEC. COND. (UMHOS/CM) FIELD	1.38	636	598	559	477	623	728	598	677	434
PH FIELD	7.5	7.7	7.4	7.5	7.2	7.3	7.7	7.7	7.8	7.4
TURBIDITY (NTU) FIELD	4.5	5.7	4.0	4.3	12	65	15	22	20	2.1
TOTAL SUSP. SOLIDS	14.0		83.0		1.0		7.0		22.0	14.0
TOTAL DISS. SOLIDS MEAS.	334		355		350		419		438	362
OXYGEN (O) DISS	4.4						8.4			
COMMON IONS										
CALCIUM (CA)	76.80		88.00		88.00		88.00		71.20	68.80
MAGNESIUM (MG)	31.20		28.80		21.60		40.80		47.30	28.80
SODIUM (NA)	2.7		2.80		11.60		13.00		2.00	2.20
POTASSIUM (K)	1.8		1.5		0.5		1.86		2.04	1.75
ACIDITY AS CACO3	21.00						8.00			
ALKALINITY AS CACO3 (LAB)	280						274			
BICARBONATE (HCO3) (LAB)	342		342		344.0		334.3		353.8	287.9
SULFATE (SO4)	47		55		50		70		80	38
CHLORIDE (CL)	2.0		4.00		1.9		30.0		2.9	12.6
FLUORIDE (F)	0.14						0.15			
NUTRIENTS										
NITRATE (NO3-N)	<0.02						0.02			
AMMONIA (NH3 AS N)	0.35		0.60		0.16		0.04		<0.01	<0.01
TOTAL PHOSPHATE (PO4)	<0.01		<0.01		0.02		0.04		<0.01	0.14
TRACE ELEMENTS										
BARIUM (BA) TOTAL	0.053						0.06			
BORON (B) TOTAL	0.031						0.018			
COPPER (CU) TOTAL	<0.001						0.016			
IRON (FE) TOTAL	0.020		0.024		0.09		0.10		0.32	<0.01
LEAD (PB) TOTAL	<0.001						<0.001			
MANGANESE (MN) TOTAL	0.009		0.010		0.02		0.01		<0.01	<0.01
ZINC (ZN) TOTAL	0.002									
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	1.20						<0.01			
PHENOLS	<0.001		<0.001		<0.001		<0.001		<0.001	<0.001
OTHER PARAMETERS										
OIL AND GREASE	<0.2						2.0			
CYANIDE (CN)	<0.001						<0.001			

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13
SAMPLE DATE	06/29/81	08/18/81	09/24/81	10/22/81	06/29/82	07/20/82	08/18/82	09/22/82	06/29/83	07/19/83
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	18	22	18	3	20	21	21	13	16	19
FLOW (CFS)	0.002	0.001	0.001	0.0005	0.01	0.004	0.003	0.002	0.02	0.004
WATER TEMPERATURE (C)	6.5	8	14	2	4	5	6	6	3	4
SPEC. COND. (UMHOS/CM) FIELD	300	340	400	350	257	221	360	411	194	338
PH FIELD	7.4	7.2			7.7	7.8	8.0	7.3	6.7	7.2
TURBIDITY (NTU) FIELD	1.0	0.50			4.3	7.5	7.0	3.3	10.0	3.0
TOTAL SUSP. SOLIDS	1.0	3.0			1.0		9.0		11.0	
TOTAL DISS. SOLIDS MEAS.	195	225			165		262		115	
OXYGEN (O) DISS		6.7					6.4			
COMMON IONS										
TOTAL HARDNESS AS CACO3	174									
CALCIUM (CA)	60.00	72.00			43.50		68.80		32.80	
MAGNESIUM (MG)	5.76	6.24			5.30		10.56		1.92	
SODIUM (NA)	2.50	3.30			2.9		20.0		2.5	
POTASSIUM (K)	2.70	1.64			4.45		2.14		4.50	
CALCIUM (CA) TOTAL	61.00									
MAGNESIUM (MG) TOTAL	7.10									
SODIUM (NA) TOTAL	2.70									
POTASSIUM (K) TOTAL	0.35									
ACIDITY AS CACO3	10.20	8.00					9.00			
ALKALINITY AS CACO3 (LAB)	158	190					237			
BICARBONATE (HCO3) (LAB)	194.5	232			119		289		105	
CARBONATE AS CO3 (LAB)	<0.01									
SULFATE (SO4)	13.5	16.0			38.0		<3.0		4.0	
CHLORIDE (CL)	5.86	3.59			2.40		18.50		8.0	
FLUORIDE (F)	0.17	0.18					0.15			
CHLORIDE (CL) TOTAL	5.90									
FLUORIDE (F) TOTAL	0.17									
NUTRIENTS										
NITRATE (NO3-N)	2.90						1.75			
NITRITE (NO2-N)	0.06									
AMMONIA (NH3 AS N)	<0.01	<0.01			0.13		0.29		<0.1	
TOTAL PHOSPHATE (PO4)	0.420	0.170			0.110		0.110		0.32	
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	<0.001									
ALUMINUM (AL) DISS	<0.001									
ARSENIC (AS) TOTAL	<0.001	0.002								
ARSENIC (AS) DISS	<0.001	<0.001								
BARIUM (BA) TOTAL	0.028	0.035					0.040			
BARIUM (BA) DISS	0.025	0.025								
BORON (B) TOTAL	0.015	0.016					0.014			
BORON (B) DISS	0.010	0.010								

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13
SAMPLE DATE	06/29/81	08/18/81	09/24/81	10/22/81	06/29/82	07/20/82	08/18/82	09/22/82	06/29/83	07/19/83
TRACE ELEMENTS										
CADMIUM (CD) TOTAL	<0.001	<0.001								
CADMIUM (CD) DISS	<0.001	<0.001								
CHROMIUM (CR) TOTAL	<0.001	<0.001								
CHROMIUM (CR) DISS	<0.001	<0.001								
COPPER (CU) TOTAL	0.010	0.010					<0.001			
COPPER (CU) DISS	<0.001	<0.001								
IRON (FE) TOTAL	0.010	0.059			0.120		0.020		0.270	
IRON (FE) TOTAL	0.060									
LEAD (PB) TOTAL	<0.001	0.023					<0.001			
LEAD (PB) DISS	<0.001	<0.001								
MANGANESE (MN) TOTAL	0.002	0.010			0.002		0.007		0.002	
MANGANESE (MN) TOTAL	0.018									
MERCURY (HG) TOTAL	<0.0002	<0.0002								
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI)	<0.001									
SELENIUM (SE) TOTAL	<0.001	<0.001								
SELENIUM (SE) DISS	<0.001	<0.001								
SILVER (AG) TOTAL	<0.001	<0.001								
SILVER (AG) DISS	<0.001	<0.001								
ZINC (ZN) TOTAL	0.005	0.010					0.003			
ZINC (ZN) DISS	0.005	0.007								
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)		17.0								
TOTAL COLIFORM (NO./100ML)		70.0								
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	38.20	6.00					7.50			
PHENOLS	<0.001	0.042			<0.001		0.008		<0.001	
OTHER PARAMETERS										
OIL AND GREASE	1.60	1.60					0.6			
CYANIDE (CN)	<0.001	<0.001					0.004			
SULFIDE	<0.01									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13	S26-13
SAMPLE DATE	08/24/83	09/28/83	10/19/83	06/26/84	07/30/84	08/22/84	09/18/84	10/30/85	06/19/86
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS									
AIR TEMPERATURE (C)	16	9	9	14	12	19	13	14	16
FLOW (CFS)	0.005	0.002	0.002	0.01	0.004	0.003	0.002	0.0005	0.02
WATER TEMPERATURE (C)	6	6	6	3	5	6	6	6	3
SPEC. COND. (UMHOS/CM) FIELD	415	400	408	249	388	418	390	379	230
PH FIELD	6.5	6.4	6.3	6.0	6.4	6.6	6.9	6.3	6.2
TURBIDITY (NTU) FIELD	1.8	0.3	6.8	8.1	8.3	11.5	6.4	1.2	4.2
TOTAL SUSP. SOLIDS	3.0		3.0	5.0		3.0		1.0	5.0
TOTAL DISS. SOLIDS MEAS.	222		226	265		275		212	174
OXYGEN (O) DISS	1.9					5.6			
COMMON IONS									
CALCIUM (CA)	65.60		69.60	46.00		72.00		73.20	36.00
MAGNESIUM (MG)	11.52		9.60	28.80		10.80		7.70	3.40
SODIUM (NA)	2.5		2.50	2.70		22.00		4.90	2.40
POTASSIUM (K)	2.3		0.8	4.4		1.98		1.04	3.67
ACIDITY AS CACO3	20.00					2.80			
ALKALINITY AS CACO3 (LAB)	194					225			
BICARBONATE (HCO3) (LAB)	237		234	146.4		274.5		251.0	112.2
SULFATE (SO4)	18		19	114		15		12	7
CHLORIDE (CL)	4.0		6.00	2.3		20.0		2.9	8.9
FLUORIDE (F)	0.13					0.12			
NUTRIENTS									
NITRATE (NO3-N)	<0.02					1.29			
AMMONIA (NH3 AS N)	0.15		<0.01	0.35		0.10		0.10	<0.01
TOTAL PHOSPHATE (PO4)	<0.01		0.10	0.03		0.19		0.10	0.19
TRACE ELEMENTS									
BARIUM (BA) TOTAL	0.025					0.03			
BORON (B) TOTAL	0.040					0.025			
COPPER (CU) TOTAL	<0.001					0.019			
IRON (FE) TOTAL	0.010		0.070	0.22		0.13		0.11	0.10
LEAD (PB) TOTAL	<0.001					<0.001			
MANGANESE (MN) TOTAL	0.001		0.020	0.01		0.01		<0.01	<0.01
ZINC (ZN) TOTAL	0.002					0.031			
ORGANIC PARAMETERS									
ORGANIC CARBON (TOTAL)	0.80					<0.01			
PHENOLS	<0.001		<0.001	<0.001		<0.001		<0.001	<0.001
OTHER PARAMETERS									
OIL AND GREASE	<0.2					<0.1			
CYANIDE (CN)	<0.001					<0.001			

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S34-12	S34-12	S34-12	S34-12
SAMPLE DATE	05/14/81	08/21/81	09/25/81	11/10/81
LOCATION	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	14	16	12	6
FLOW (CFS)	0.02	0.03	0.01	0.01
WATER TEMPERATURE (C)	5	4	6	5
SPEC. COND. (UMHOS/CM) FIELD	330	360	400	370
PH FIELD	8.0	7.9		7.7
TURBIDITY (NTU) FIELD	0.44	0.16		0.27
TOTAL SUSP. SOLIDS	13.0	2.0		5.0
TOTAL DISS. SOLIDS MEAS.	215	244		235
OXYGEN (O) DISS		9.6		10.0
COMMON IONS				
TOTAL HARDNESS AS CACO3	200			
CALCIUM (CA)	59.20	64.00		67.00
MAGNESIUM (MG)	11.80	16.32		13.00
SODIUM (NA)	2.50	2.60		4.50
CALCIUM (CA) TOTAL	60.00			
MAGNESIUM (MG) TOTAL	12.00			
SODIUM (NA) TOTAL	4.90			
POTASSIUM (K) TOTAL	1.49	0.80		1.50
ACIDITY AS CACO3	<0.01	5.40		8.00
ALKALINITY AS CACO3 (LAB)	194	198		209
BICARBONATE (HCO3) (LAB)	226.92	242		255
CARBONATE AS CO3 (LAB)	4.80			
SULFATE (SO4)	12.5	27.0		18.0
CHLORIDE (CL)	3.00	2.99		3.10
FLUORIDE (F)	0.15	0.19		0.13
CHLORIDE (CL) TOTAL	4.00			
FLUORIDE (F) TOTAL	0.15			
NUTRIENTS				
NITRATE (NO3-N)	1.97	1.56		1.22
NITRITE (NO2-N)	0.02			
AMMONIA (NH3 AS N)	<0.01	<0.01		28.30
TOTAL PHOSPHATE (PO4)	0.120	0.210		0.440
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	0.050			
ALUMINUM (AL) DISS	0.030			
ARSENIC (AS) TOTAL	<0.001	<0.001		<0.001
ARSENIC (AS) DISS	<0.001	<0.001		<0.001
BARIUM (BA) TOTAL	0.030	0.020		0.025
BARIUM (BA) DISS	0.020	0.015		0.020
BORON (B) TOTAL	0.015	0.020		0.020
BORON (B) DISS	0.010	0.002		0.010
CADMIUM (CD) TOTAL	<0.001	<0.001		<0.001

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S34-12	S34-12	S34-12	S34-12
SAMPLE DATE	05/14/81	08/21/81	09/25/81	11/10/81
TRACE ELEMENTS				
CADMIUM (CD) DISS	<0.001	<0.001		<0.001
CHROMIUM (CR) TOTAL	<0.001	0.002		<0.001
CHROMIUM (CR) DISS	<0.001	<0.001		<0.001
COPPER (CU) TOTAL	0.020	0.030		0.013
COPPER (CU) DISS	<0.001	0.010		0.010
IRON (FE) TOTAL	<0.001	0.070		0.022
IRON (FE) TOTAL	0.020			
LEAD (PB) TOTAL	0.002	0.007		<0.001
LEAD (PB) DISS	<0.001	0.005		<0.001
MANGANESE (MN) TOTAL	0.010	<0.001		0.006
MANGANESE (MN) TOTAL	0.070			
MERCURY (HG) TOTAL	<0.0002	<0.0002		<0.0002
MERCURY (HG) DISS	<0.0002			
MOLYBDENUM (MO) TOTAL	<0.001			
MOLYBDENUM (MO) DISS	<0.001			
NICKEL (NI) TOTAL	<0.001			
NICKEL (NI) DISS	<0.001			
SELENIUM (SE) TOTAL	<0.001	<0.001		<0.001
SELENIUM (SE) DISS	<0.001	<0.001		<0.001
SILVER (AG) TOTAL	<0.001	<0.001		<0.001
SILVER (AG) DISS	<0.001	<0.001		<0.001
ZINC (ZN) TOTAL	0.090	0.065		0.065
ZINC (ZN) DISS	0.005	0.040		0.004
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)		<2.0		<2.0
TOTAL COLIFORM (NO./100ML)		5.0		<2.0
5 - DAY BOD		1.6		
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	8.10	2.00		5.20
PHENOLS	0.482	<0.001		0.005
OTHER PARAMETERS				
OIL AND GREASE	1.40	1.20		0.20
CYANIDE (CN)		0.001		0.002
SULFIDE	1.80			

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S35-8	S35-8	S35-8	S35-8	S35-8	S35-8	S35-8	S35-8	S35-8	S35-8
SAMPLE DATE	05/14/81	08/21/81	09/25/81	11/11/81	06/28/82	07/26/82	08/17/82	09/15/82	10/15/82	06/28/83
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	10	13	12	2	21	21	20	9	12	16
FLOW (CFS)	0.01	0.01	0.01	0.01	0.23	0.06	0.03	0.22	0.01	0.27
WATER TEMPERATURE (C)	3	4	4	2	3	3	4	7	.3	4
SPEC. COND. (UMHOS/CM) FIELD	350	370	420	385	356	369	375	340	369	275
PH FIELD	8.1	8.0		7.7	7.5	7.5	7.6	8.0	8.1	7.8
TURBIDITY (NTU) FIELD	0.30	0.16		0.29	4.3	7.7	5.1	4.7	6	9.3
TOTAL SUSP. SOLIDS	4.0	1.3		5.0	<1.0		8.0		13.0	8.0
TOTAL DISS. SOLIDS MEAS.	224	235		255	192		250		253	178
OXYGEN (O) DISS		13.0		13.2			10.6			
COMMON IONS										
TOTAL HARDNESS AS CACO3	210									
CALCIUM (CA)	63.44	75.20		72.50	58.00		69.60		68.80	47.20
MAGNESIUM (MG)	11.90	7.68		14.50	8.50		13.44		12.48	5.28
SODIUM (NA)	2.80	3.50		3.50	2.4		8.0		9.0	11.5
POTASSIUM (K)	0.920	0.98		1.35	0.69		0.84		0.88	0.69
CALCIUM (CA) TOTAL	64.00									
MAGNESIUM (MG) TOTAL	12.00									
SODIUM (NA) TOTAL	10.50									
POTASSIUM (K) TOTAL	1.33									
ACIDITY AS CACO3	<0.01	5.40		6.00			5.0			
ALKALINITY AS CACO3 (LAB)	210	222		225			227			
BICARBONATE (HCO3) (LAB)	236.68	271		275	212		276		288	176
CARBONATE AS CO3 (LAB)	9.60									
SULFATE (SO4)	19.6	6.0		20.0	9.0		<3.0		6.0	12.0
CHLORIDE (CL)	4.80	3.33		3.00	0.20		17.30		3.00	8.0
FLUORIDE (F)	0.14	0.19		0.12			0.12			
CHLORIDE (CL) TOTAL	5.00									
FLUORIDE (F) TOTAL	0.14									
NUTRIENTS										
NITRATE (NO3-N)	0.06	<0.01		0.11			0.05			
NITRITE (NO2-N)	0.01									
AMMONIA (NH3 AS N)	<0.01	<0.01		0.10	0.17		0.33		0.19	<0.1
TOTAL PHOSPHATE (PO4)	0.120	0.130		0.240	0.060		0.170		0.050	0.16
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	<0.001									
ALUMINUM (AL) DISS	0.020									
ARSENIC (AS) TOTAL	<0.001	<0.001		<0.001						
ARSENIC (AS) DISS	<0.001	<0.001		<0.001						
BARIUM (BA) TOTAL	0.030	0.030		0.034			0.038			
BARIUM (BA) DISS	0.020	0.015		0.025						
BORON (B) TOTAL	0.016	0.016		0.021			0.020			
BORON (B) DISS	0.010	0.010		0.015						

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S35-8	S35-8	S35-8	S35-8	S35-8	S35-8	S35-8	S35-8	S35-8	S35-8
SAMPLE DATE	05/14/81	08/21/81	09/25/81	11/11/81	06/28/82	07/26/82	08/17/82	09/15/82	10/15/82	06/28/83
TRACE ELEMENTS										
CADMIUM (CD) TOTAL	<0.001	<0.001		<0.001						
CADMIUM (CD) DISS	<0.001	<0.001		<0.001						
CHROMIUM (CR) TOTAL	<0.001	<0.001		<0.001						
CHROMIUM (CR) DISS	<0.001	<0.001		<0.001						
COPPER (CU) TOTAL	0.010	0.050		<0.001			<0.001			
COPPER (CU) DISS	0.010	<0.001		<0.001						
IRON (FE) TOTAL	0.010	0.070		0.078	0.030		0.020		0.070	0.030
IRON (FE) TOTAL	0.090									
LEAD (PB) TOTAL	<0.001	0.002		<0.001			0.001			
LEAD (PB) DISS	<0.001	0.002		<0.001						
MANGANESE (MN) TOTAL	<0.001	<0.001		0.002	<0.001		<0.001		<0.001	0.001
MANGANESE (MN) TOTAL	<0.001									
MERCURY (HG) TOTAL	<0.0002	<0.0002		<0.0002						
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI)	<0.001									
SELENIUM (SE) TOTAL	<0.001	<0.001		<0.001						
SELENIUM (SE) DISS	<0.001	<0.001		<0.001						
SILVER (AG) TOTAL	<0.001	<0.001		<0.001						
SILVER (AG) DISS	<0.001	<0.001		<0.001						
ZINC (ZN) TOTAL	0.010	0.020		0.035			0.001			
ZINC (ZN) DISS	0.010	0.010		0.010						
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)		8.0		<2.0						
TOTAL COLIFORM (NO./100ML)		8.0		2.0						
5 - DAY BOD		1.0								
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	3.40	5.40		3.10			6.90			
PHENOLS	0.016	<0.001		<0.001	<0.001		0.013		<0.001	<0.001
OTHER PARAMETERS										
OIL AND GREASE	1.00	0.80		0.20			1.0			
CYANIDE (CN)	<0.001	0.001		0.046			0.004			
SULFIDE	1.80									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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FLOW (CFS)	0.07	4	4	412	296	405	7.3	7.3	7.5	0.64
WAT TEMPERATURE (C)	5	425	470	7.[illegible]	7.4	7.2	11	3.5	1.3	0.1
SPEC. COND. (UMHOS/CM) FIELD	221	7.2	6.9	8.[illegible]	6.4	7.2	2.0		1.0	180
PH FIELD	7.5	1.2	1.4	13.0	1.0		285		220	
TURBIDITY (NTU) FIELD	10	3.0		250	212		8.6			
TOTAL SUSP. SOLIDS		228								
TOTAL DISS. SOLIDS MEAS.		7.6							72.40	53.60
OXYGEN (O) DISS							74.00		13.00	7.20
COMMON IONS										
CALCIUM (CA)		64.80		69.60	64.00		15.60		5.40	2.67
MAGNESIUM (MG)		12.96		12.48	9.60		16.00		0.40	0.69
SODIUM (NA)		5.5		8.50	2.40		0.75			
POTASSIUM (K)		0.8		0.4	0.7		2.70			
ACIDITY AS CACO3		15.00					240		271.0	190.3
ALKALINITY AS CACO3 (LAB)		216		256	218.4		292.8		16	8
BICARBONATE (HCO3) (LAB)		264		30	20		17		2.4	2.1
SULFATE (SO4)		10		4.0	1.7		15.0			
CHLORIDE (CL)		4.0					0.08			
FLUORIDE (F)		0.10								
NUTRIENTS							0.01		<0.01	0.50
NITRATE (NO3-N)		<0.02		<0.01	0.20		0.39		0.04	0.02
AMMONIA (NH3 AS N)		0.30		0.05	0.05		0.11			
TOTAL PHOSPHATE (PO4)		<0.01								
TRACE ELEMENTS							0.03			
BARIUM (BA) TOTAL		0.021					0.035			
BORON (B) TOTAL		0.020					0.020		0.07	0.03
COPPER (CU) TOTAL		<0.001		0.090	0.11		0.12			
IRON (FE) TOTAL		0.009					0.002		<0.01	<0.01
LEAD (PB) TOTAL		<0.001		0.020	0.01		0.01			
MANGANESE (MN) TOTAL		0.0002					0.039			
ZINC (ZN) TOTAL		0.002								
ORGANIC PARAMETERS							<0.01		<0.001	<0.001
ORGANIC CARBON (TOTAL)		0.71		<0.001	<0.001		<0.001			
PHENOLS		<0.001								
OTHER PARAMETERS							<0.1			
OIL AND GREASE		<0.2					<0.001			
CYANIDE (CN)		<0.001								

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12
SAMPLE DATE	05/15/81	08/18/81	09/24/81	10/22/81	11/11/81	06/29/82	07/20/82	08/18/82	09/22/82	10/12/82
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	4	19	15	0	-3	18	16	19	18	13
FLOW (CFS)	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01
WATER TEMPERATURE (C)	3	4	5	4	4	3	4	4	5	4
SPEC. COND. (UMHOS/CM) FIELD	270	340	400	350	370	342	411	365	415	302
PH FIELD	7.9	7.2			7.0	7.6	7.8	8.1	7.6	7.4
TURBIDITY (NTU) FIELD	1.00	0.76			0.58	2.9	6.0	7.8	2.5	2.8
TOTAL SUSP. SOLIDS	4.0	5.0			2.0	<1.0		5.0		9.0
TOTAL DISS. SOLIDS MEAS.	179	223			245	190		250		252
OXYGEN (O) DISS		7.5			6.6			10.2		
COMMON IONS										
TOTAL HARDNESS AS CACO3	172									
CALCIUM (CA)	56.40	72.00			77.50	60.50		68.00		76.00
MAGNESIUM (MG)	7.20	9.12			9.00	7.30		11.04		5.76
SODIUM (NA)	2.00	2.10			2.50	2.0		9.0		10.0
POTASSIUM (K)	0.450	0.40			0.50	0.48		0.42		0.45
CALCIUM (CA) TOTAL	64.00									
MAGNESIUM (MG) TOTAL	7.20									
SODIUM (NA) TOTAL	2.85									
POTASSIUM (K) TOTAL	1.60									
ACIDITY AS CACO3	2.73	8.00			18.00			7.00		
ALKALINITY AS CACO3 (LAB)	168	218			221			221		
BICARBONATE (HCO3) (LAB)	204.96	266				199		269		276
CARBONATE AS CO3 (LAB)	<0.01									
SULFATE (SO4)	10.2	3.0			9.0	18.0		<3.0		6.0
CHLORIDE (CL)	2.00	1.83			2.80	0.60		12.70		4.00
FLUORIDE (F)	0.12	0.15			0.12			0.12		
CHLORIDE (CL) TOTAL	2.00									
FLUORIDE (F) TOTAL	0.12									
NUTRIENTS										
NITRATE (NO3-N)	0.38				0.25			0.44		
NITRITE (NO2-N)	0.04									
AMMONIA (NH3 AS N)	<0.01	<0.01			0.30	0.22		0.30		0.19
TOTAL PHOSPHATE (PO4)	0.120	0.150			0.180	0.050		0.090		0.060
TRACE ELEMENTS										
ALUMINUM (AL) TOTAL	<0.001									
ALUMINUM (AL) DISS	<0.001									
ARSENIC (AS) TOTAL	<0.001	0.002			<0.001					
ARSENIC (AS) DISS	<0.001	<0.001			<0.001					
BARIUM (BA) TOTAL	0.015	0.010			0.017			0.029		
BARIUM (BA) DISS	0.010	0.005			0.010					
BORON (B) TOTAL	0.016	0.021			0.009			0.016		
BORON (B) DISS	<0.001	0.011			0.005					

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
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SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12
SAMPLE DATE	05/15/81	08/18/81	09/24/81	10/22/81	11/11/81	06/29/82	07/20/82	08/18/82	09/22/82	10/12/82
TRACE ELEMENTS										
CADMIUM (CD) TOTAL	<0.001	<0.001			<0.001					
CADMIUM (CD) DISS	<0.001	<0.001			<0.001					
CHROMIUM (CR) TOTAL	<0.001	<0.001			<0.001					
CHROMIUM (CR) DISS	<0.001	<0.001			<0.001					
COPPER (CU) TOTAL	0.010	0.010			<0.001			<0.001		
COPPER (CU) DISS	0.010	<0.001			<0.001					
IRON (FE) TOTAL	0.010	0.90			0.100	0.050		0.030		0.030
IRON (FE) TOTAL	0.050									
LEAD (PB) TOTAL	0.001	<0.001			<0.001			0.003		
LEAD (PB) DISS	<0.001	<0.001			<0.001					
MANGANESE (MN) TOTAL	<0.001	<0.001			0.005	0.002		0.005		0.003
MANGANESE (MN) TOTAL	<0.001									
MERCURY (HG) TOTAL	0.0004	<0.0002			<0.0002					
MERCURY (HG) DISS	<0.0002									
MOLYBDENUM (MO) TOTAL	<0.001									
MOLYBDENUM (MO) DISS	<0.001									
NICKEL (NI) TOTAL	<0.001									
NICKEL (NI)	<0.001									
SELENIUM (SE) TOTAL	<0.001	<0.001			<0.001					
SELENIUM (SE) DISS	<0.001	<0.001			<0.001					
SILVER (AG) TOTAL	<0.001	<0.001			<0.001					
SILVER (AG) DISS	<0.001	<0.001			<0.001					
ZINC (ZN) TOTAL	0.010	0.055			0.052			0.002		
ZINC (ZN) DISS	0.010	0.010			0.005					
BACTERIOLOGICAL PARAMETERS										
FECAL COLIFORM (NO./100ML)		<2.0			<2.0					
TOTAL COLIFORM (NO./100ML)		<2.0			<2.0					
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)	4.50	5.60			24.00			14.00		
PHENOLS	0.11	0.025			0.007	0.004		0.008		<0.001
OTHER PARAMETERS										
OIL AND GREASE	<0.01	1.60			66.80			0.6		
CYANIDE (CN)	<0.001	<0.001			<0.001			0.008		
SULFIDE	0.92									

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12	S36-12
SAMPLE DATE	06/29/83	07/19/83	08/24/83	09/28/83	10/19/83	06/26/84	07/30/84	08/22/84	09/18/84	10/15/85
LOCATION	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING	SPRING
PHYSICAL PARAMETERS										
AIR TEMPERATURE (C)	13	17	13	12	7	13	13	14	15	8
FLOW (CFS)	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01
WATER TEMPERATURE (C)	3	4	5	6	5	3	4	4	.5	4
SPEC. COND. (UMHOS/CM) FIELD	269	384	423	392	395	318	365	388	370	402
PH FIELD	7.1	7.5	7.1	6.4	6.8	6.4	6.7	6.8	7.1	6.6
TURBIDITY (NTU) FIELD	8.4	4.5	1.5	2.6	6.5	6.2	6.3	12.5	4.9	3.0
TOTAL SUSP. SOLIDS	<0.1		15.0		4.0	1.0		1.0		5.0
TOTAL DISS. SOLIDS MEAS.	177		238		250	290		280		244
OXYGEN (O) DISS			5.4					6.6		
COMMON IONS										
CALCIUM (CA)	47.20		66.40		69.20	56.00		78.00		76.80
MAGNESIUM (MG)	5.28		8.64		9.12	34.80		2.40		13.70
SODIUM (NA)	8.5		14.0		12.00	1.80		35.00		0.90
POTASSIUM (K)	0.47		0.5		1.1	0.5		0.39		0.80
ACIDITY AS CACO3			18.00					4.50		
ALKALINITY AS CACO3 (LAB)			220					225		
BICARBONATE (HCO3) (LAB)	183		268		249	213.5		274.5		285.5
SULFATE (SO4)	3.0		10		28	102		13		13
CHLORIDE (CL)	6.0		2.0		2.00	1.0		20.0		1.2
FLUORIDE (F)			0.10					0.07		
NUTRIENTS										
NITRATE (NO3-N)			<0.02					0.24		
AMMONIA (NH3 AS N)	0.7		1.75		<0.01	0.21		0.21		<0.01
TOTAL PHOSPHATE (PO4)	0.16		<0.01		<0.01	0.02		0.12		<0.01
TRACE ELEMENTS										
BARIUM (BA) TOTAL			0.009					0.02		
BORON (B) TOTAL			0.025					0.038		
COPPER (CU) TOTAL			0.010					0.019		
IRON (FE) TOTAL	0.020		0.010		0.070	0.12		0.15		0.04
LEAD (PB) TOTAL			<0.001					0.004		
MANGANESE (MN) TOTAL	0.003		0.001		0.010	0.01		0.01		<0.01
ZINC (ZN) TOTAL			0.002					0.067		
ORGANIC PARAMETERS										
ORGANIC CARBON (TOTAL)			0.64					<0.01		
PHENOLS	<0.001		<0.001		<0.001	<0.001		<0.001		<0.001
OTHER PARAMETERS										
OIL AND GREASE			<0.2					<0.1		
CYANIDE (CN)			<0.001					<0.001		

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

SUMMARY OF WATER QUALITY ANALYSIS - UTAH FUEL CO.

SITE NAME	S36-12
SAMPLE DATE	06/19/86
LOCATION	SPRING
PHYSICAL PARAMETERS	
AIR TEMPERATURE (C)	12
FLOW (CFS)	0.02
WATER TEMPERATURE (C)	3.5
SPEC. COND. (UMHOS/CM) FIELD	302
PH FIELD	6.6
TURBIDITY (NTU) FIELD	1.4
TOTAL SUSP. SOLIDS	3.0
TOTAL DISS. SOLIDS MEAS.	164
COMMON IONS	
CALCIUM (CA)	50.40
MAGNESIUM (MG)	5.80
SODIUM (NA)	1.46
POTASSIUM (K)	0.45
BICARBONATE (HCO3) (LAB)	173.2
SULFATE (SO4)	7
CHLORIDE (CL)	1.7
NUTRIENTS	
AMMONIA (NH3 AS N)	0.24
TOTAL PHOSPHATE (PO4)	0.18
TRACE ELEMENTS	
IRON (FE) TOTAL	<0.01
MANGANESE (MN) TOTAL	<0.01
ORGANIC PARAMETERS	
PHENOLS	<0.001

All quantities in milligrams per liter unless otherwise noted. Blank line indicates parameter not tested.

Output Date: 02-09-1987
HWQ-6/86-R1

HYDROMETRICS

DATE: 10-03-1986

WATER QUALITY DATA VALIDATION TEST
UTAH FUEL CO.

SAMPLE NUMBER	DATE SAMPLED	SITE	CATION SUM (MEQ/L)	ANION SUM (MEQ/L)	DEVIATION (SIGMA)	PERCENT DIFFERENCE	LAB. SPECIFIC CONDUCTANCE (UMHOS/CM)	CALCULATED ION SUM MINIMUM (MEQ/L)	CALCULATED ION SUM MAXIMUM (MEQ/L)	TOTAL DISSOLVED SOLIDS CALCULATED (MG/L)	TOTAL DISSOLVED SOLIDS MEASURED AT 180 C (MG/L)	PERCENT DIFFERENCE
	06/30/82	CS-1	3.52	3.48	-.2	.5	300	3.03	3.35	180	188	2.1
	07/22/82	CS-1	5.36	5.42	.33	.6	410	4.16	4.6	275	272	.6
	08/20/82	CS-1	6.39	6.38	-.09	.1	395	4.01	4.43	320	326	.9
	09/14/82	CS-1	6.62	6.55	-.32	.5	490	4.98	5.51	336	335	.1
	06/30/83	CS-1	4.14	4.18	.24	.5	313	3.16	3.5	214	204	2.3
	07/20/83	CS-1	5.12	5.17	.25	.4	440	4.47	4.94	265	268	.6
	08/25/83	CS-1	5.64	5.55	-.5	.9	551	5.55	6.13	291	295	.6
	09/29/83	CS-1	5.75	5.72	-.14	.2	578	5.83	6.45	296	290	1.1
	10/27/83	CS-1	6.4	6.26	-.7	1.1	559	5.63	6.22	333	340	1.1
	11/11/83	CS-1	6.36	6.24	-.59	1	529	5.32	5.88	324	380	7.9
	06/28/84	CS-1	6.49	6.44	-.23	.4	327	3.22	3.56	357	360	.4
	07/30/84	CS-1	6.39	6.46	.35	.6	572	5.77	6.38	338	480	17.4
	08/27/84	CS-1	8.91	8.69	-.88	1.2	704	7.16	7.92	481	475	.7
	09/18/84	CS-1	7.64	7.56	-.38	.6	622	6.3	6.96	401	422	2.6
	10/17/85	CS-1	6.92	7.03	.49	.8	609	6.16	6.81	370	370	.1
	06/19/86	CS-1	4.09	3.47	-3.73	8.2	383	3.88	4.29	187	212	6.3
	01/27/81	CS-2	6.11	6.11	.02	0	275	2.77	3.07	298	295	.6
	03/11/81	CS-2	5.79	5.85	.28	.5	272	2.74	3.03	293	290	.5
	04/08/81	CS-2	5.69	5.79	.53	.9	284	2.87	3.17	289	290	.3
	05/12/81	CS-2	4.17	4.25	.46	.9	320	3.23	3.58	214	212	.4
	06/23/81	CS-2	5.02	4.96	-.33	.6	380	3.85	4.26	249	250	.2
	07/29/81	CS-2	5.28	5.49	1.07	1.9	400	4.06	4.48	263	265	.4
	08/20/81	CS-2	6.06	5.81	-1.24	2.1	480	4.88	5.4	293	310	2.8
	09/25/81	CS-2	5.73	5.82	.47	.8	450	4.57	5.05	287	296	1.5
	10/23/81	CS-2	6.15	6.23	.39	.6	490	4.98	5.51	313	320	1.1
	11/11/81	CS-2	6.21	6.18	-.13	.2	490	4.98	5.51	316	319	.5
	12/09/81	CS-2	6.39	6.36	-.16	.3	500	5.09	5.62	319	320	.1
	01/21/82	CS-2	7.03	5.62	-6.86	11.1	480	4.88	5.4	308	310	.4
	02/18/82	CS-2	6.13	6.09	-.19	.3	500	5.09	5.62	308	320	1.9
	04/15/82	CS-2	4.54	4.58	.23	.5	465	4.73	5.22	237	256	3.8
	05/20/82	CS-2	3.34	3.27	-.43	1	224	2.25	2.49	170	156	4.2
	06/30/82	CS-2	6.06	3.77	-9.99	23.2	390	3.95	4.37	236	236	0
	07/21/82	CS-2	4.6	4.54	-.37	.7	416	4.22	4.67	227	235	1.8
	08/19/82	CS-2	5.74	5.91	.86	1.5	371	3.76	4.15	289	318	4.8
	09/15/82	CS-2	5.67	5.63	-.2	.3	367	3.72	4.11	283	295	2.1
	10/14/82	CS-2	5.59	5.62	.14	.2	430	4.37	4.83	283	235	9.2
	11/09/82	CS-2	5.55	5.53	-.11	.2	550	5.6	6.19	276	295	3.3
	12/14/82	CS-2	5.84	5.77	-.33	.6	457	4.64	5.13	289	298	1.5
	01/19/83	CS-2	6.04	6.01	-.16	.3	554	5.65	6.24	297	320	3.8
	02/15/83	CS-2	6.61	6.71	.48	.8	562	5.73	6.33	337	344	1.1
	03/31/83	CS-2	6.04	6.2	.78	1.3	560	5.71	6.31	318	351	4.9
	04/21/83	CS-2	5.9	6	.5	.8	634	6.42	7.1	310	322	1.9
	05/25/83	CS-2	3.63	3.71	.52	1.2	324	3.28	3.62	186	198	3
	06/30/83	CS-2	4.1	4.04	-.35	.7	353	3.57	3.95	205	228	5.3

Calculated ion sum from Hydro regression.

HYDROMETRICS

DATE: 10-03-1986

WATER QUALITY DATA VALIDATION TEST
UTAH FUEL CO.

SAMPLE NUMBER	DATE SAMPLED	SITE	CATION SUM (MEQ/L)	ANION SUM (MEQ/L)	DEVIATION (SIGMA)	PERCENT DIFFERENCE	LAB. SPECIFIC CONDUCTANCE (UMHOS/CM)	CALCULATED ION SUM MINIMUM (MEQ/L)	CALCULATED ION SUM MAXIMUM (MEQ/L)	TOTAL DISSOLVED SOLIDS CALCULATED (MG/L)	TOTAL DISSOLVED SOLIDS MEASURED AT 180 C (MG/L)	PERCENT DIFFERENCE
	07/20/83	CS-2	5.73	5.81	.43	.7	364	3.69	4.07	298	300	.3
	08/25/83	CS-2	6.21	6.28	.37	.6	565	5.76	6.37	317	318	.1
	09/28/83	CS-2	5.91	5.84	-.35	.6	320	3.23	3.58	301	286	2.6
	10/26/83	CS-2	6.28	6.95	3.2	5.1	542	5.45	6.03	354	320*	5
	11/11/83	CS-2	6.21	6.18	-.16	.3	479	4.87	5.38	309	320	1.7
	01/18/84	CS-2	6.55	6.6	.23	.4	578	5.89	6.51	335	328	1.1
	02/22/84	CS-2	8.07	8.3	1.01	1.4	600	6.06	6.7	435	360	9.5
	03/22/84	CS-2	6.68	6.81	.63	1	546	5.56	6.15	346	400	7.3
	04/26/84	CS-2	7.16	7.02	-.67	1	436	4.35	4.8	369	376	1
	05/17/84	CS-2	8.16	8.06	-.44	.6	315	2.9	3.2	484	440	4.8
	06/28/84	CS-2	5.77	5.71	-.34	.6	396	3.93	4.34	299	295	.6
	07/27/84	CS-2	5.53	5.46	-.38	.7	475	4.83	5.34	282	490	27
	08/24/84	CS-2	6.7	6.29	-1.99	3.2	610	6.23	6.88	316	310	1
	09/18/84	CS-2	6.82	6.91	.42	.7	499	5.08	5.61	340	344	.6
	10/16/85	CS-2	6.87	6.93	.3	.5	577	5.82	6.43	365	356	1.2
	04/17/86	CS-2	5.93	5.75	-.9	1.5	509	5.11	5.64	292	330	6.1
	05/28/86	CS-2	3.17	3.09	-.55	1.4	245	2.47	2.72	163	172	2.6
	06/25/86	CS-2	5.08	4.96	-.66	1.2	468	4.68	5.17	267	260	1.4
	05/12/81	CS-3	3.6	3.56	-.24	.6	285	2.88	3.18	181	186	1.3
	06/23/81	CS-3	4.24	4.2	-.2	.4	340	3.44	3.8	216	220	1
	07/29/81	CS-3	4.13	4.05	-.44	.9	300	3.03	3.35	194	198	1.1
	08/20/81	CS-3	4.75	4.7	-.29	.5	380	3.85	4.26	241	245	.8
	09/25/81	CS-3	4.56	4.64	.44	.8	360	3.65	4.03	229	236	1.4
	10/22/81	CS-3	5.91	6	.43	.7	450	4.57	5.05	295	300	.8
	11/11/81	CS-3	5.37	5.31	-.28	.5	430	4.37	4.83	265	278	2.4
	12/09/81	CS-3	5.66	5.69	.19	.3	450	4.57	5.05	282	289	1.3
	05/20/82	CS-3	2.9	2.85	-.35	.9	198	1.99	2.2	147	130	6.3
	06/30/82	CS-3	3.91	3.86	-.3	.6	280	2.82	3.12	197	184	3.3
	07/21/82	CS-3	4.91	4.99	.47	.9	356	3.6	3.98	246	255	1.7
	08/19/82	CS-3	5.42	5.56	.76	1.3	356	3.6	3.98	273	289	2.8
	09/15/82	CS-3	5.09	5.01	-.41	.8	345	3.49	3.86	244	245	.2
	10/14/82	CS-3	5.87	5.89	.14	.2	320	3.23	3.58	299	304	.7
	11/09/82	CS-3	5.05	5.02	-.12	.2	540	5.5	6.08	245	260	2.9
	06/29/83	CS-3	3.84	3.9	.38	.8	330	3.34	3.69	192	212	5.1
	07/20/83	CS-3	5.36	5.47	.61	1.1	369	3.74	4.13	279	286	1.2
	08/25/83	CS-3	5.49	5.6	.53	.9	492	5.01	5.53	280	282	.4
	09/28/83	CS-3	5.26	5.18	-.4	.7	506	5.15	5.69	264	248	3.1
	10/26/83	CS-3	5.51	5.46	-.3	.5	497	5.06	5.59	278	285	1.2
	11/11/83	CS-3	5.33	5.26	-.38	.7	440	4.47	4.94	261	285	4.3
	02/22/84	CS-3	6.02	5.9	-.63	1.1	456	4.63	5.12	301	240	11.3
	03/22/84	CS-3	5.66	5.82	.82	1.4	437	4.44	4.91	284	320	5.9
	04/25/84	CS-3	8.67	8.49	-.75	1	364	3.41	3.76	466	470	.5
	05/17/84	CS-3	9.04	8.93	-.44	.6	264	2.38	2.63	530	460	7.1
	06/27/84	CS-3	6.25	6.37	.6	1	536	5.46	6.03	323	330	1

Calculated ion sum from Hydro regression.

HYDROMETRICS

DATE: 10-03-1986

WATER QUALITY DATA VALIDATION TEST
UTAH FUEL CO.

SAMPLE NUMBER	DATE SAMPLED	SITE	CATION SUM (MEQ/L)	ANION SUM (MEQ/L)	DEVIATION (SIGMA)	PERCENT DIFFERENCE	LAB. SPECIFIC CONDUCTANCE (UMHOS/CM)	CALCULATED ION SUM MINIMUM (MEQ/L)	CALCULATED ION SUM MAXIMUM (MEQ/L)	TOTAL DISSOLVED SOLIDS CALCULATED (MG/L)	TOTAL DISSOLVED SOLIDS MEASURED AT 180 C (MG/L)	PERCENT DIFFERENCE
	07/26/84	CS-3	5.11	5.03	-.45	.8	431	4.38	4.84	255	200	12.1
	08/28/84	CS-3	6.18	5.61	-2.84	4.8	530	5.4	5.97	298	288	1.7
	09/17/84	CS-3	5.83	5.76	-.36	.6	440	4.47	4.94	290	292	.4
	10/16/85	CS-3	5.24	5.36	.65	1.2	438	4.45	4.92	268	254	2.7
	05/28/86	CS-3	2.4	2.47	.53	1.6	221	2.22	2.46	125	150	9
	06/25/86	CS-3	3.99	3.88	-.64	1.4	367	3.72	4.11	195	210	3.7
	05/12/81	CS-4	3.1	3.27	1.11	2.7	225	2.26	2.5	164	235	17.8
	06/23/81	CS-4	3.44	3.41	-.17	.4	260	2.62	2.9	171	169	.6
	08/20/81	CS-4	4.74	4.72	-.14	.3	380	3.85	4.26	322	245	13.6
	09/25/81	CS-4	4.71	4.66	-.29	.5	360	3.65	4.03	232	233	.2
	10/22/81	CS-4	5.4	5.47	.39	.7	430	4.37	4.83	272	280	1.5
	11/11/81	CS-4	4.79	4.75	-.2	.4	380	3.85	4.26	246	245	.2
	12/08/81	CS-4	5.3	5.21	-.46	.8	450	4.49	4.96	282	286	.7
	06/29/82	CS-4	3.51	3.47	-.22	.5	295	2.89	3.19	190	195	1.4
	07/21/82	CS-4	3.67	3.74	.43	1	301	3.04	3.36	183	189	1.5
	08/19/82	CS-4	4.74	4.88	.81	1.5	310	3.13	3.46	243	239	.8
	09/14/82	CS-4	4.3	4.27	-.15	.3	360	3.65	4.03	209	225	3.6
	10/14/82	CS-4	5.15	5.17	.12	.2	305	3.08	3.41	268	269	.2
	06/29/83	CS-4	2.78	2.87	.55	1.5	237	2.39	2.64	141	154	4.6
	07/20/83	CS-4	3.81	3.87	.42	.9	331	3.35	3.7	199	198	.2
	08/24/83	CS-4	4.69	4.75	.37	.7	399	4.05	4.47	239	245	1.3
	09/28/83	CS-4	4.41	4.42	.07	.1	408	4.14	4.57	221	10.0	91.4
	10/26/83	CS-4	4.8	4.8	.01	0	403	4.09	4.52	246	240	1.2
	11/11/83	CS-4	4.49	4.43	-.34	.7	358	3.62	4.01	220	230	2.3
	05/24/84	CS-4	3.04	3.05	.06	.2	219	2.2	2.43	141	140	.5
	06/27/84	CS-4	3.27	3.21	-.44	1.1	312	3.15	3.48	163	185	6.3
	07/26/84	CS-4	3.79	3.7	-.56	1.2	316	3.19	3.53	190	199	2.3
	08/27/84	CS-4	6.79	6.57	-1.02	1.6	431	4.29	4.75	351	346	.8
	09/17/84	CS-4	4.99	4.93	-.34	.6	361	3.66	4.04	245	238	1.4
	10/16/85	CS-4	4.61	4.66	.31	.6	371	3.76	4.15	230	204	6.1
	05/28/86	CS-4	2.3	2.24	-.44	1.4	166	1.66	1.84	118	130	4.7
	06/25/86	CS-4	2.8	2.78	-.14	.4	273	2.75	3.04	139	150	4
	01/27/81	CS-6	6.11	6.1	-.04	.1	279	2.81	3.11	299	294	.8
	02/25/81	CS-6	5.62	5.57	-.25	.4	410	4.16	4.6	276	270	1
	03/11/81	CS-6	10.82	11.01	.7	.9	280	2.82	3.12	555	558	.2
	04/08/81	CS-6	6.04	5.99	-.28	.5	325	3.29	3.63	305	300	.8
	05/12/81	CS-6	4.73	4.8	.42	.8	360	3.65	4.03	239	235	.8
	06/23/81	CS-6	5.05	5	-.26	.5	390	3.95	4.37	245	250	.9
	07/29/81	CS-6	5.65	5.6	-.29	.5	490	4.74	5.24	321	315	1
	08/20/81	CS-6	6.44	6.36	-.39	.6	500	5.01	5.54	325	328	.5
	09/24/81	CS-6	5.58	5.67	.5	.9	430	4.37	4.83	275	283	1.5
	10/23/81	CS-6	6.99	7.06	.33	.5	650	6.64	7.34	353	420	8.6
	12/09/81	CS-6	6.53	6.5	-.15	.2	540	5.43	6	340	349	1.3

Calculated ion sum from Hydro regression.

HYDROMETRICS

DATE: 10-03-1986

WATER QUALITY DATA VALIDATION TEST
UTAH FUEL CO.

SAMPLE NUMBER	DATE SAMPLED	SITE	CATION SUM (MEQ/L)	ANION SUM (MEQ/L)	DEVIATION (SIGMA)	PERCENT DIFFERENCE	LAB. SPECIFIC CONDUCTANCE (UMHOS/CM)	CALCULATED ION SUM MINIMUM (MEQ/L)	CALCULATED ION SUM MAXIMUM (MEQ/L)	TOTAL DISSOLVED SOLIDS CALCULATED (MG/L)	TOTAL DISSOLVED SOLIDS MEASURED AT 180 C (MG/L)	PERCENT DIFFERENCE
	01/21/82	CS-6	5.89	5.96	.36	.6	460	4.68	5.17	293	299	1
	02/18/82	CS-6	7.05	6.97	-.37	.6	700	7.12	7.87	364	450	10.6
	03/31/82	CS-6	7.34	7.42	.30	.6	628	6.36	7.03	395	405	1.2
	04/15/82	CS-6	6.22	6.22	.01	0	602	6.08	6.73	317	338	3.2
	05/20/82	CS-6	3.93	3.93	.04	.1	324	3.28	3.62	196	198	.5
	06/30/82	CS-6	4.88	4.83	-.29	.5	400	3.97	4.39	255	258	.6
	07/22/82	CS-6	5.55	4.02	-8.47	16	420	4.26	4.71	220	275	11.1
	08/19/82	CS-6	6.1	6.24	.7	1.1	420	4.26	4.71	302	321	3.1
	09/14/82	CS-6	6.03	5.98	-.26	.4	395	4.01	4.43	298	313	2.4
	10/14/82	CS-6	6.23	6.27	.17	.3	540	5.5	6.08	313	318	.8
	11/10/82	CS-6	6.18	6.13	-.21	.3	643	6.57	7.26	309	322	2.1
	12/14/82	CS-6	6.38	6.32	-.3	.5	420	4.26	4.71	315	320	.8
	01/19/83	CS-6	6.62	6.59	-.16	.3	583	5.95	6.57	331	338	1.1
	02/15/83	CS-6	7.11	7.2	.41	.6	570	5.75	6.35	377	378	.1
	03/31/83	CS-6	7.18	7.35	.77	1.2	642	6.51	7.19	382	404	2.8
	04/21/83	CS-6	6.91	7.08	.78	1.2	781	7.98	8.82	369	414	5.8
	05/25/83	CS-6	3.77	3.81	.26	.6	342	3.46	3.82	195	234	9
	06/30/83	CS-6	4.56	4.59	.19	.4	405	4.11	4.54	233	256	4.7
	07/20/83	CS-6	5.51	5.58	.33	.6	528	5.38	5.94	277	284	1.3
	08/25/83	CS-6	6.06	6.19	.64	1.1	580	5.85	6.47	318	320	.3
	09/29/83	CS-6	6.07	6.01	-.33	.6	300	2.94	3.25	316	330	2.1
	10/26/83	CS-6	6.3	6.22	-.41	.7	576	5.81	6.42	321	350	4.3
	11/11/83	CS-6	6.43	6.36	-.35	.6	522	5.24	5.8	325	330	.7
	01/18/84	CS-6	6.62	6.86	1.12	1.7	606	6.13	6.77	354	395	5.4
	02/22/84	CS-6	7.35	7.42	.32	.5	617	6.24	6.9	384	380	.5
	03/22/84	CS-6	7.82	7.77	-.22	.3	634	6.42	7.1	399	420	2.5
	04/26/84	CS-6	17.62	17.56	-.16	.2	1786	20.8	22.99	962	1000	1.9
	05/17/84	CS-6	4.65	4.53	-.7	1.4	367	3.63	4.01	249	275	5
	06/29/84	CS-6	5.72	5.76	.23	.4	501	5.1	5.63	288	280	1.3
	07/27/84	CS-6	6.29	6.22	-.33	.5	558	5.62	6.21	314	380	9.4
	09/18/84	CS-6	6.7	6.58	-.59	.9	535	5.38	5.95	351	348	.4
	10/16/85	CS-6	6.61	6.52	-.43	.7	606	6.13	6.77	347	368	2.9
	03/20/86	CS-6	8.07	8.08	.06	.1	719	7.32	8.09	417	426	1
	04/17/86	CS-6	21.74	7.24	-9.99	50	2240	27.4	30.28	717	1282	28.3
	05/28/86	CS-6	3.58	3.48	-.57	1.3	286	2.89	3.19	182	208	6.7
	06/25/86	CS-6	5.08	5.01	-.35	.6	516	5.18	5.73	267	302	6.1
	05/13/81	CS-7	3.54	3.6	.37	.8	270	2.72	3.01	178	176	.7
	06/23/81	CS-7	3.49	3.44	-.31	.7	270	2.72	3.01	174	177	1
	07/30/81	CS-7	4.06	4.03	-.17	.4	320	3.23	3.58	205	210	1.3
	08/21/81	CS-7	4.42	4.36	-.35	.7	340	3.44	3.8	218	220	.4
	09/25/81	CS-7	3.9	3.91	.04	.1	300	3.03	3.35	188	198	2.5
	10/22/81	CS-7	5.88	5.95	.35	.6	450	4.57	5.05	299	300	.2
	11/10/81	CS-7	5.39	5.34	-.27	.5	440	4.39	4.85	296	298	.4
	12/08/81	CS-7	4.55	4.49	-.37	.7	310	3.04	3.36	237	200	8.5

Calculated ion sum from Hydro regression.

HYDROMETRICS

DATE: 10-03-1988

WATER QUALITY DATA VALIDATION TEST
UTAH FUEL CO.

SAMPLE NUMBER	DATE SAMPLED	SITE	CATION SUM (MEQ/L)	ANION SUM (MEQ/L)	DEVIATION (SIGMA)	PERCENT DIFFERENCE	LAB. SPECIFIC CONDUCTANCE (UMHOS/CM)	CALCULATED ION SUM MINIMUM (MEQ/L)	CALCULATED ION SUM MAXIMUM (MEQ/L)	TOTAL DISSOLVED SOLIDS CALCULATED (MG/L)	TOTAL DISSOLVED SOLIDS MEASURED AT 180 C (MG/L)	PERCENT DIFFERENCE
	08/17/82	CS-7	4.35	4.49	.81	1.6	368	3.73	4.12	218	228	2.3
	08/24/83	CS-7	4.35	4.29	-.36	.7	394	4	4.42	214	210	.9
	08/24/84	CS-7	5.33	4.84	-2.67	4.9	434	4.41	4.87	255	266	2
	05/13/81	CS-8	1.46	1.51	.31	1.4	115	1.14	1.27	78	75	1.9
	06/23/81	CS-8	2.13	2.08	-.39	1.3	170	1.7	1.88	109	110	.7
	07/30/81	CS-8	3.78	3.72	-.34	.8	290	2.93	3.24	192	189	.8
	08/21/81	CS-8	4.03	3.97	-.33	.7	325	3.29	3.63	208	211	.6
	09/24/81	CS-8	4.1	4.04	-.35	.7	320	3.23	3.58	204	210	1.5
	10/22/81	CS-8	3.95	3.98	.17	.4	300	3.03	3.35	202	198	.9
	11/10/81	CS-8	4.16	4.05	-.66	1.4	340	3.35	3.7	221	220	.3
	12/08/81	CS-8	3.44	3.45	.07	.2	285	2.88	3.18	174	185	2.9
	08/18/82	CS-8	3.65	3.77	.74	1.6	202	2.03	2.24	184	195	2.9
	08/24/83	CS-8	3.23	3.24	.02	.1	293	2.96	3.27	164	152	3.7
	08/24/84	CS-8	4.04	3.78	-1.58	3.4	328	3.32	3.67	198	200	.4
	01/27/81	CS-9	6.19	6.14	-.26	.4	283	2.86	3.16	306	302	.7
	04/08/81	CS-9	5.95	5.92	-.17	.3	202	2.03	2.24	303	300	.4
	05/12/81	CS-9	5.47	5.5	.14	.3	440	4.47	4.94	287	285	.3
	06/23/81	CS-9	5.08	5.23	.82	1.5	410	4.16	4.6	267	270	.6
	07/29/81	CS-9	4.92	4.98	.32	.6	380	3.85	4.26	252	250	.5
	08/20/81	CS-9	6.27	6.19	-.4	.6	500	5.01	5.54	324	325	.2
	09/25/81	CS-9	5.32	5.42	.55	1	450	4.57	5.05	274	288	2.4
	10/23/81	CS-9	6.83	6.87	.21	.3	520	5.29	5.85	341	340	.1
	11/10/81	CS-9	6.27	6.22	-.23	.4	500	5.09	5.62	323	330	1
	12/09/81	CS-9	6.34	6.29	-.2	.3	500	5.01	5.54	330	335	.7
	05/20/82	CS-9	4.21	4.25	.21	.4	321	3.25	3.59	215	218	.7
	06/30/82	CS-9	5.92	5.86	-.33	.6	500	5.01	5.54	314	310	.7
	07/21/82	CS-9	5.38	5.45	.37	.6	470	4.78	5.28	265	269	.8
	08/19/82	CS-9	6	6.12	.61	1	413	4.19	4.63	298	310	2
	09/15/82	CS-9	6.28	6.24	-.22	.4	394	4	4.42	319	325	.9
	10/14/82	CS-9	6.22	6.23	.06	.1	472	4.8	5.3	316	322	.9
	11/09/82	CS-9	6.01	5.97	-.21	.4	560	5.71	6.31	303	325	3.4
	06/30/83	CS-9	5.58	5.51	-.37	.6	472	4.8	5.3	293	294	.1
	07/20/83	CS-9	6.47	6.58	.55	.9	514	5.23	5.78	338	318	3
	08/25/83	CS-9	6.42	6.39	-.13	.2	572	5.83	6.45	334	332	.3
	09/28/83	CS-9	5.88	5.82	-.32	.5	570	5.81	6.42	301	304	.5
	10/26/83	CS-9	6.2	6.13	-.37	.6	565	5.76	6.37	314	320	.9
	11/11/83	CS-9	6.06	6.02	-.24	.4	488	4.96	5.49	307	320	2.1
	04/25/84	CS-9	5.37	5.33	-.2	.4	441	4.48	4.95	246	260	2.9
	05/17/84	CS-9	4.29	4.18	-.63	1.3	371	3.76	4.15	219	220	.3
	06/27/84	CS-9	5.32	5.2	-.62	1.1	443	4.42	4.88	276	298	3.9
	07/26/84	CS-9	5.79	5.73	-.3	.5	528	5.38	5.94	289	310	3.5
	08/28/84	CS-9	6.88	6.3	-2.76	4.4	629	6.42	7.1	330	339	1.4
	09/17/84	CS-9	6.39	6.32	-.33	.5	517	5.26	5.82	322	336	2.1
	10/16/85	CS-9	6.5	6.59	.42	.7	545	5.55	6.14	335	276	9.6

Calculated ion sum from Hydro regression.

HYDROMETRICS

DATE: 10-03-1986

WATER QUALITY DATA VALIDATION TEST
UTAH FUEL CO.

SAMPLE NUMBER	DATE SAMPLED	SITE	CATION SUM (MEQ/L)	ANION SUM (MEQ/L)	DEVIATION (SIGMA)	PERCENT DIFFERENCE	LAB. SPECIFIC CONDUCTANCE (UMHOS/CM)	CALCULATED ION SUM MINIMUM (MEQ/L)	CALCULATED ION SUM MAXIMUM (MEQ/L)	TOTAL DISSOLVED SOLIDS CALCULATED (MG/L)	TOTAL DISSOLVED SOLIDS MEASURED AT 180 C (MG/L)	PERCENT DIFFERENCE
	05/28/86	CS-9	3.98	3.9	-.48	1	365	3.7	4.09	205	232	6.2
	06/24/86	CS-9	4.99	4.92	-.4	.7	480	4.88	5.4	253	270	3.3
	05/12/81	CS-11	3.42	3.41	-.09	.2	250	2.52	2.78	169	165	1.3
	06/23/81	CS-11	3.81	4.83	5.88	11.8	290	2.93	3.24	219	190	7.1
	07/29/81	CS-11	3.95	3.92	-.22	.5	300	3.03	3.35	199	197	.6
	08/20/81	CS-11	4.64	4.57	-.41	.8	370	3.75	4.14	236	240	.8
	09/25/81	CS-11	4.61	4.57	-.25	.5	350	3.54	3.92	229	230	.2
	10/22/81	CS-11	5.4	5.49	.49	.9	450	4.57	5.05	281	280	.1
	11/11/81	CS-11	5.12	5.1	-.14	.3	470	4.78	5.28	263	304	7.3
	05/20/82	CS-11	2.88	2.85	-.23	.6	205	2.06	2.28	149	150	.4
	06/30/82	CS-11	3.42	3.34	-.49	1.2	270	2.72	3.01	172	179	2.1
	07/21/82	CS-11	4.76	4.85	.45	.8	296	2.99	3.3	234	235	.2
	08/19/82	CS-11	5.29	5.42	.67	1.2	380	3.85	4.26	265	268	.6
	09/15/82	CS-11	4.69	4.74	.31	.6	320	3.23	3.58	231	245	2.9
	10/14/82	CS-11	4.95	4.99	.21	.4	309	3.12	3.45	249	250	.2
	11/09/82	CS-11	5.09	5.06	-.2	.4	478	4.86	5.37	256	270	2.7
	06/29/83	CS-11	3.48	3.51	.15	.4	282	2.85	3.14	178	184	1.6
	07/20/83	CS-11	4.68	4.78	.56	1.1	375	3.8	4.2	246	240	1.2
	08/25/83	CS-11	4.84	4.88	.18	.3	454	4.61	5.1	241	248	1.5
	09/28/83	CS-11	4.88	4.81	-.33	.6	459	4.66	5.16	244	230	3
	10/26/83	CS-11	5.79	5.71	-.42	.7	443	4.42	4.88	304	300	.6
	11/11/83	CS-11	5.11	5.05	-.3	.6	403	4.09	4.52	251	260	1.8
	05/24/84	CS-11	3.35	3.3	-.33	.8	250	2.52	2.78	159	160	.2
	06/27/84	CS-11	5.09	4.91	-1.01	1.8	340	3.16	3.49	285	280	.9
	07/26/84	CS-11	4.41	4.32	-.53	1.1	362	3.67	4.05	228	230	.4
	08/28/84	CS-11	5.87	5.46	-2.12	3.6	504	5.13	5.67	280	310	5
	09/17/84	CS-11	5.36	5.45	.49	.9	401	4.07	4.5	272	262	1.9
	10/16/85	CS-11	5.36	5.31	-.26	.5	417	4.23	4.68	271	250	4
	05/28/86	CS-11	2.67	2.24	-3	8.8	194	1.95	2.15	118	128	3.9
	06/25/86	CS-11	3.37	3.34	-.22	.5	335	3.39	3.75	168	172	1.1
	11/30/83	CS-12	6.46	6.56	.45	.7	594	6	6.63	340	345	.7
	12/20/83	CS-12	5.67	5.59	-.4	.7	530	5.33	5.89	292	420	17.9
	01/18/84	CS-12	8.44	8.57	.58	.8	754	7.67	8.47	485	456	3.1
	02/21/84	CS-12	11.56	11.34	-.77	1	1015	9.59	10.6	678	700	1.6
	03/22/84	CS-12	11.26	5.39	-9.99	35.3	892	9.17	10.14	388	860	37.8
	04/25/84	CS-12	6.66	6.53	-.59	.9	570	5.75	6.35	336	339	.4
	05/17/84	CS-12	8.55	8.38	-.71	1	550	5.39	5.96	499	490	.9
	06/28/84	CS-12	9.74	9.64	-.4	.5	712	7.19	7.95	553	550	.3
	07/27/84	CS-12	7.82	7.93	.48	.7	708	7.15	7.9	445	358	10.9
	08/24/84	CS-12	7.83	7.12	-3.22	4.8	614	6.21	6.87	381	390	1.2
	09/27/84	CS-12	6.06	5.94	-.6	1	498	4.99	5.52	315	310	.8
	10/16/85	CS-12	6.84	6.92	.34	.5	589	5.95	6.57	385	364	2.8
	11/15/85	CS-12	8.75	8.7	-.19	.3	770	7.85	8.67	510	512	.2
	12/11/85	CS-12	6.62	6.77	.71	1.1	593	5.87	6.48	375	406	4

Calculated ion sum from Hydro regression.

HYDROMETRICS

DATE: 10-03-1986

WATER QUALITY DATA VALIDATION TEST
UTAH FUEL CO.

SAMPLE NUMBER	DATE SAMPLED	SITE	CATION SUM (MEQ/L)	ANION SUM (MEQ/L)	DEVIATION (SIGMA)	PERCENT DIFFERENCE	LAB. SPECIFIC CONDUCTANCE (UMHOS/CM)	CALCULATED ION SUM MINIMUM (MEQ/L)	CALCULATED ION SUM MAXIMUM (MEQ/L)	TOTAL DISSOLVED SOLIDS CALCULATED (MG/L)	TOTAL DISSOLVED SOLIDS MEASURED AT 180 C (MG/L)	PERCENT DIFFERENCE
	01/22/86	CS-12	7.23	7.43	.92	1.4	698	7.03	7.78	447	502	5.8
	03/26/86	CS-12	8.79	8.63	-.67	.9	736	7.46	8.25	500	520	1.9
	04/17/86	CS-12	8.32	8.17	-.62	.9	789	8.06	8.91	485	542	5.5
	05/28/86	CS-12	7.01	6.94	-.33	.5	620	6.16	6.81	402	400	.3
	06/24/86	CS-12	7.62	7.42	-.88	1.3	728	7.37	8.15	443	496	5.6
	11/10/83	CS-13	7.57	7.49	-.38	.6	626	6.39	7.06	382	390	1
	11/11/83	CS-13	7.57	7.53	-.18	.3	599	6.11	6.76	384	420	4.5
	02/22/84	CS-13	8.28	8	-1.19	1.7	651	6.6	7.3	408	440	3.8
	03/22/84	CS-13	8.38	8.25	-.52	.7	656	6.66	7.36	424	480	6.2
	04/25/84	CS-13	9.01	8.89	-.48	.7	874	8.98	9.92	473	485	1.2
	05/17/84	CS-13	12.62	12.42	-.64	.8	803	8.22	9.09	701	665	2.6
	06/29/84	CS-13	8.26	8.2	-.24	.3	686	6.97	7.71	427	455	3.2
	07/27/84	CS-13	7.81	7.9	.42	.6	670	6.85	7.57	404	360	5.8
	08/24/84	CS-13	9.95	8.5	-5.83	7.9	742	7.59	8.39	460	480	2.1
	09/18/84	CS-13	8.42	8.29	-.56	.8	634	6.42	7.1	432	450	2.1
	10/16/85	CS-13	8.23	8.03	-.84	1.2	708	7.15	7.9	458	424	3.9
	04/17/86	CS-13	9.94	9.8	-.55	.7	850	8.72	9.64	527	535	.7
	05/28/86	CS-13	8.49	8.55	.25	.3	699	7.11	7.86	444	486	4.5
	06/25/86	CS-13	6.88	6.86	-.1	.2	697	7.09	7.84	358	426	8.7
	01/27/81	VC-9	5.85	5.89	.23	.4	265	2.67	2.95	287	285	.4
	02/25/81	VC-9	5.37	5.32	-.29	.5	380	3.85	4.26	246	246	0
	03/11/81	VC-9	5.37	5.32	-.3	.5	275	2.77	3.07	264	265	.2
	04/08/81	VC-9	5.61	5.55	-.33	.6	332	3.36	3.71	283	290	1.2
	05/12/81	VC-9	4.76	4.75	-.07	.1	370	3.75	4.14	246	245	.2
	06/23/81	VC-9	4.74	4.88	.77	1.4	380	3.85	4.26	244	248	.8
	07/29/81	VC-9	5.44	5.4	-.2	.4	410	4.16	4.6	269	268	.1
	08/20/81	VC-9	6.13	6.17	.17	.3	470	4.78	5.28	308	312	.7
	09/24/81	VC-9	5.48	5.59	.58	1	450	4.57	5.05	274	280	1.1
	10/23/81	VC-9	6.88	6.96	.38	.6	540	5.5	6.08	349	350	.1
	11/11/81	VC-9	5.76	5.72	-.21	.4	450	4.57	5.05	286	300	2.3
	12/09/81	VC-9	6.4	6.33	-.32	.5	510	5.19	5.74	322	330	1.2
	01/21/82	VC-9	5.66	5.73	.4	.7	450	4.57	5.05	280	291	2
	02/18/82	VC-9	6.6	6.68	.34	.5	550	5.54	6.12	341	355	2
	04/15/82	VC-9	6.99	6.88	-.51	.8	567	5.72	6.32	667	370	28.6
	05/20/82	VC-9	4.47	4.42	-.25	.5	322	3.26	3.6	232	235	.6
	06/30/82	VC-9	4.78	4.72	-.3	.6	400	3.97	4.39	250	253	.7
	07/22/82	VC-9	4.62	4.7	.44	.8	443	4.5	4.97	222	226	.9
	08/19/82	VC-9	5.74	5.71	-.14	.2	392	3.97	4.39	281	289	1.4
	09/14/82	VC-9	6.54	6.47	-.36	.6	410	4.08	4.5	329	335	.8
	10/14/82	VC-9	6.04	6.06	.12	.2	530	5.4	5.97	306	312	1
	11/10/82	VC-9	5.74	5.69	-.27	.5	520	5.29	5.85	282	295	2.3
	12/14/82	VC-9	6.19	6.16	-.17	.3	407	4.13	4.56	305	315	1.5
	01/19/83	VC-9	6.69	6.65	-.18	.3	574	5.85	6.47	336	368	4.6

Calculated ion sum from Hydro regression.

HYDROMETRICS

DATE: 10-03-1986

WATER QUALITY DATA VALIDATION TEST
UTAH FUEL CO.

SAMPLE NUMBER	DATE SAMPLED	SITE	CATION SUM (MEQ/L)	ANION SUM (MEQ/L)	DEVIATION (SIGMA)	PERCENT DIFFERENCE	LAB. SPECIFIC CONDUCTANCE (UMHOS/CM)	CALCULATED ION SUM MINIMUM (MEQ/L)	CALCULATED ION SUM MAXIMUM (MEQ/L)	TOTAL DISSOLVED SOLIDS CALCULATED (MG/L)	TOTAL DISSOLVED SOLIDS MEASURED AT 180 C (MG/L)	PERCENT DIFFERENCE
	02/15/83	VC-9	6.86	6.97	.49	.8	566	5.71	6.31	359	365	.8
	03/31/83	VC-9	7.03	7.19	.73	1.1	624	6.32	6.98	373	394	2.7
	04/21/83	VC-9	6.84	6.82	-.06	.1	793	8.11	8.97	361	388	3.6
	05/25/83	VC-9	3.98	4.09	.63	1.3	356	3.6	3.98	206	288	16.6
	06/30/83	VC-9	4.75	4.83	.45	.8	397	4.03	4.45	246	262	3.2
	07/20/83	VC-9	6.15	6.26	.54	.9	527	5.3	5.85	326	320	.9
	08/25/83	VC-9	5.69	5.77	.4	.7	575	5.86	6.48	291	295	.7
	09/29/83	VC-9	6	5.93	-.32	.5	597	6.03	6.67	313	316	.5
	10/26/83	VC-9	6.71	6.65	-.32	.5	574	5.79	6.4	357	360	.4
	11/10/83	VC-9	6.21	6.26	.24	.4	516	5.18	5.73	321	340	2.8
	12/14/83	VC-9	8.02	7.95	-.3	.4	652	6.61	7.31	425	450	2.9
	01/18/84	VC-9	6.51	6.5	-.08	.1	593	5.99	6.62	334	338	.6
	02/22/84	VC-9	7.4	7.29	-.52	.8	575	5.8	6.41	379	380	.1
	03/22/84	VC-9	7.36	7.29	-.31	.5	625	6.33	6.99	371	460	10.7
	04/26/84	VC-9	16.28	16.34	.18	.2	1604	18.16	20.07	896	850	2.6
	05/17/84	VC-9	13.17	12.92	-.81	1	363	3.4	3.75	768	750	1.2
	06/29/84	VC-9	6.21	6.15	-.3	.5	491	4.92	5.44	318	198	23.2
	07/27/84	VC-9	8.75	8.56	-.8	1.1	560	5.64	6.24	487	280	27
	08/28/84	VC-9	7.42	7.2	-1.02	1.5	661	6.71	7.41	367	380	1.7
	09/18/84	VC-9	6.65	6.77	.6	.9	531	5.34	5.9	352	362	1.4
	10/16/85	VC-9	7.19	7.33	.68	1	576	5.81	6.42	398	390	1
	11/19/85	VC-9	10.59	10.6	.02	0	970	10.15	11.22	579	586	.6
	12/11/85	VC-9	7.37	7.48	.52	.8	664	6.74	7.45	394	420	3.3
	01/23/86	VC-9	6.81	6.63	-.85	1.3	682	6.93	7.66	349	402	7.1
	02/20/86	VC-9	8.88	8.81	-.25	.3	744	7.55	8.35	482	490	.9
	03/20/86	VC-9	7.81	7.94	.57	.8	763	7.79	8.61	416	432	1.8
	04/17/86	VC-9	23.29	8.11	-9.99	48.4	2280	27.98	30.93	796	1320	24.7
	05/28/86	VC-9	3.85	3.95	.57	1.2	296	2.9	3.21	210	204	1.5
	06/25/86	VC-9	5.29	5.22	-.41	.7	526	5.29	5.84	277	292	2.7
	05/12/81	VC-10	3.56	3.63	.43	1	280	2.82	3.12	177	184	1.9
	06/23/81	VC-10	3.81	3.85	.19	.4	220	2.21	2.44	188	144	13.3
	07/29/81	VC-10	4.26	4.23	-.19	.4	340	3.44	3.8	211	210	.2
	08/20/81	VC-10	4.52	4.46	-.35	.7	350	3.54	3.92	223	223	.1
	09/24/81	VC-10	4.14	4.2	.33	.7	310	3.13	3.46	200	214	3.4
	10/23/81	VC-10	5.69	5.78	.47	.8	440	4.47	4.94	282	288	1.1
	11/11/81	VC-10	4.93	4.88	-.25	.5	380	3.85	4.26	244	249	1.1
	12/09/81	VC-10	5.15	5.17	.13	.2	400	4.06	4.48	254	265	2.1
	05/20/82	VC-10	3.55	3.51	-.24	.6	241	2.43	2.68	176	188	3.2
	06/30/82	VC-10	3.48	3.41	-.44	1	300	3.03	3.35	175	185	2.9
	07/22/82	VC-10	5	5.06	.34	.6	387	3.92	4.34	242	244	.3
	08/20/82	VC-10	5.8	5.78	-.12	.2	403	4	4.42	295	305	1.6
	09/14/82	VC-10	6.19	6.15	-.22	.4	470	4.7	5.19	325	328	.5
	10/14/82	VC-10	6.64	6.68	.17	.3	523	5.25	5.81	346	350	.5
	11/09/82	VC-10	6.51	6.4	-.57	.9	575	5.8	6.41	336	355	2.7

Calculated ion sum from Hydro regression.

HYDROMETRICS

DATE: 10-03-1984

WATER QUALITY DATA VALIDATION TEST
UTAH FUEL CO.

SAMPLE NUMBER	DATE SAMPLED	SITE	CATION SUM (MEQ/L)	ANION SUM (MEQ/L)	DEVIATION (SIGMA)	PERCENT DIFFERENCE	LAB. SPECIFIC CONDUCTANCE (UMHOS/CM)	CALCULATED ION SUM MINIMUM (MEQ/L)	CALCULATED ION SUM MAXIMUM (MEQ/L)	TOTAL DISSOLVED SOLIDS CALCULATED (MG/L)	TOTAL DISSOLVED SOLIDS MEASURED AT 180 C (MG/L)	PERCENT DIFFERENCE
	12/14/82	VC-10	6.61	6.57	-.18	.3	410	4.16	4.6	338	342	.6
	01/19/83	VC-10	6.64	6.6	-.2	.3	594	6	6.63	344	356	1.7
	02/15/83	VC-10	6.93	7.02	.42	.7	576	5.81	6.42	373	380	.9
	03/31/83	VC-10	6.68	6.79	.52	.8	560	5.64	6.24	359	365	.8
	04/21/83	VC-10	5.96	6.07	.55	.9	654	6.63	7.33	316	326	1.6
	05/25/83	VC-10	3.78	3.74	-.25	.5	330	3.34	3.69	189	228	9.3
	06/30/83	VC-10	3.92	3.95	.22	.5	282	2.85	3.14	200	212	2.9
	07/20/83	VC-10	5.27	5.25	-.1	.2	434	4.41	4.87	272	270	.4
	08/25/83	VC-10	5.61	5.71	.49	.8	544	5.54	6.13	288	291	.5
	09/29/83	VC-10	5.8	5.73	-.34	.6	538	5.41	5.98	300	300	.1
	10/26/83	VC-10	6.21	6.12	-.45	.7	510	5.12	5.66	329	326	.4
	11/11/83	VC-10	6.08	6.16	.38	.6	482	4.82	5.33	317	360	6.3
	12/14/83	VC-10	6.39	6.33	-.29	.5	501	5.02	5.55	333	440	13.8
	02/22/84	VC-10	8.21	8.04	-.75	1.1	527	5.3	5.85	439	340	12.7
	03/22/84	VC-10	6.77	6.7	-.32	.5	535	5.38	5.95	346	360	2
	04/26/84	VC-10	5.78	5.81	.16	.3	453	4.6	5.09	283	275	1.4
	05/17/84	VC-10	6.09	5.92	-.86	1.4	320	3.15	3.48	347	320	4
	06/28/84	VC-10	4.9	4.89	-.04	.1	373	3.78	4.18	251	200	11.4
	07/27/84	VC-10	6.04	5.9	-.72	1.2	542	5.45	6.03	309	320	1.8
	08/28/84	VC-10	6.75	6.43	-1.53	2.4	626	6.34	7.01	345	340	.7
	10/16/85	VC-10	7.39	7.3	-.38	.6	552	5.56	6.14	387	365	2.9
	04/17/86	VC-10	5.34	5.41	.38	.7	490	4.98	5.51	273	276	.5
	05/28/86	VC-10	3.25	3.2	-.31	.8	252	2.54	2.81	164	170	1.8
	06/25/86	VC-10	4.55	4.47	-.44	.9	439	4.46	4.93	230	256	5.2
	07/23/86	VC-10	5.42	5.36	-.31	.5	519	5.21	5.76	278	284	1.1

Calculated ion sum from Hydro regression.

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE VC-6 FOR THE PERIOD 01/27/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
AIR TEMPERATURE (C)	-24-26	6.75	10.85	48
PHYSICAL PARAMETERS				
FLOW (CFS)	.5-25.4	3.24	6.03	27
WATER TEMPERATURE (C)	0-14.5	5.35	4.38	48
SPEC. COND. (UMHOS/CM) FIELD	248-658	462	116	48
PH FIELD	7.3-8.6	7.98	.26	48
TURBIDITY (NTU) FIELD	.70-103	38.06	33.43	40
TOTAL SUSP. SOLIDS	1-1868	116	289	48
TOTAL DISS. SOLIDS MEAS.	179-620	316	76.84	48
TOTAL SETTLEABLE SOLIDS	.4	.4	0	1
OXYGEN (O) DISS	6-11.4	9.14	1.85	9
COMMON IONS				
TOTAL HARDNESS AS CACO3	188	188	0	1
CALCIUM (CA)	20.8-160	72.42	21.23	48
MAGNESIUM (MG)	2.16-51.84	19.09	8.71	48
SODIUM (NA)	2.4-86	14.94	15.82	48
POTASSIUM (K)	.55-4.4	1.95	.725	48
ACIDITY AS CACO3	<.01-27	6.5	10.76	6
ALKALINITY AS CACO3 (LAB)	143-294	237	45.9	10
BICARBONATE (HCO3) (LAB)	15-359	277	57.62	48
CARBONATE AS CO3 (LAB)	7.2	7.2	0	1
SULFATE (SO4)	<3-319	50.12	51.87	48
CHLORIDE (CL)	.6-37.5	10.09	8.72	47
FLUORIDE (F)	.15-.26	.19	.044	5
NUTRIENTS				
NITRATE (NO3-N)	.24-.54	.374	.129	5
NITRITE (NO2-N)	.03	.03	0	1
AMMONIA (NH3 AS N)	<.01-.62	.145	.194	20
TOTAL PHOSPHATE (PO4)	.02-1.28	.289	.329	19
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.03-.055	.046	.0096	5
BARIUM (BA) DISS	.018-.045	.031	.014	3
BORON (B) TOTAL	.012-.03	.023	.0076	5
BORON (B) DISS	.01-.02	.017	.0058	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3

ALL QUANTITIES IN MILLIGRAMS PER LITER UNLESS OTHERWISE NOTED.
FOR VALUES BELOW THE DETECTION LIMIT, ONE HALF THE DETECTION LIMIT WAS USED IN THE STATISTICAL ANALYSIS.
IF THE RESULTING MEAN WAS BELOW THE RANGE THEN THE LOW RANGE VALUE WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE VC-6 FOR THE PERIOD 01/27/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) TOTAL	<.001-.018	.01	.0064	5
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	.01-28	1.87	4.8	48
LEAD (PB) TOTAL	<.001-.004	.0015	.0015	5
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	.01-1.05	.182	.193	43
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.012-.028	.02	.0077	4
ZINC (ZN) DISS	.007-.02	.012	.0068	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	2-23	12.5	14.85	2
TOTAL COLIFORM (NO./100ML)	200-1300	750	778	2
5 - DAY BOD	2.3-2.6	2.45	.212	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	.4-11.9	3.98	4.63	5
PHENOLS	<.001-.266	.021	.066	16
OTHER PARAMETERS				
OIL AND GREASE	<.01-2.8	.851	.955	10
CYANIDE (CN)	<.001-.002	<.001	.0007	5
SULFIDE	1.2	1.2	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE VC-6 FOR THE PERIOD 01/27/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-24-26	6.75	10.85	48
FLOW (CFS)	.5-25.4	3.24	6.03	27
WATER TEMPERATURE (C)	0-14.5	5.35	4.38	48
SPEC. COND. (UMHOS/CM) FIELD	248-658	462	116	48
PH FIELD	7.3-8.6	7.98	.26	48
TURBIDITY (NTU) FIELD	.70-103	38.06	33.43	40
TOTAL SUSP. SOLIDS	1-1868	116	289	48
TOTAL DISS. SOLIDS MEAS.	179-620	316	76.84	48
TOTAL SETTLEABLE SOLIDS	.4	.4	0	1
OXYGEN (O) DISS	6-11.4	9.14	1.85	9
COMMON IONS				
TOTAL HARDNESS AS CACO3	188	188	0	1
CALCIUM (CA)	20.8-160	72.42	21.23	48
MAGNESIUM (MG)	2.16-51.84	19.09	8.71	48
SODIUM (NA)	2.4-86	14.94	15.82	48
POTASSIUM (K)	.55-4.4	1.95	.725	48
ACIDITY AS CACO3	<.01-27	6.5	10.76	6
ALKALINITY AS CACO3 (LAB)	143-294	237	45.9	10
BICARBONATE (HCO3) (LAB)	15-359	277	57.62	48
CARBONATE AS CO3 (LAB)	7.2	7.2	0	1
SULFATE (SO4)	<3-319	50.12	51.87	48
CHLORIDE (CL)	.6-37.5	10.09	8.72	47
FLUORIDE (F)	.15-.26	.19	.044	5
NUTRIENTS				
NITRATE (NO3-N)	.24-.54	.374	.129	5
NITRITE (NO2-N)	.03	.03	0	1
AMMONIA (NH3 AS N)	<.01-.62	.145	.194	20
TOTAL PHOSPHATE (PO4)	.02-1.28	.289	.329	19
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.03-.055	.046	.0096	5
BARIUM (BA) DISS	.018-.045	.031	.014	3
BORON (B) TOTAL	.012-.03	.023	.0076	5
BORON (B) DISS	.01-.02	.017	.0058	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3

ALL QUANTITIES IN MILLIGRAMS PER LITER UNLESS OTHERWISE NOTED.
FOR VALUES BELOW THE DETECTION LIMIT, ONE HALF THE DETECTION LIMIT WAS USED IN THE STATISTICAL ANALYSIS.
IF THE RESULTING MEAN WAS BELOW THE RANGE THEN THE LOW RANGE VALUE WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE VC-6 FOR THE PERIOD 01/27/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) TOTAL	<.001-.018	.01	.0064	5
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	.01-28	1.87	4.8	48
LEAD (PB) TOTAL	<.001-.004	.0015	.0015	5
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	.01-1.05	.182	.193	43
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.012-.028	.02	.0077	4
ZINC (ZN) DISS	.007-.02	.012	.0068	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	2-23	12.5	14.85	2
TOTAL COLIFORM (NO./100ML)	200-1300	750	778	2
5 - DAY BOD	2.3-2.6	2.45	.212	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	.4-11.9	3.98	4.63	5
PHENOLS	<.001-.266	.021	.066	16
OTHER PARAMETERS				
OIL AND GREASE	<.01-2.8	.851	.955	10
CYANIDE (CN)	<.001-.002	<.001	.0007	5
SULFIDE	1.2	1.2	0	1

ALL QUANTITIES IN MILLIGRAMS PER LITER UNLESS OTHERWISE NOTED.
FOR VALUES BELOW THE DETECTION LIMIT, ONE HALF THE DETECTION LIMIT WAS USED IN THE STATISTICAL ANALYSIS.
IF THE RESULTING MEAN WAS BELOW THE RANGE THEN THE LOW RANGE VALUE WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE VC-9 FOR THE PERIOD 01/27/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-22-28	7.35	10.88	54
FLOW (CFS)	2.3-3.8	2.8	.688	4
WATER TEMPERATURE (C)	0-15	5.64	4.27	54
SPEC. COND. (UMHOS/CM) FIELD	265-2280	568	312	54
PH FIELD	7.6-8.4	7.99	.227	54
TURBIDITY (NTU) FIELD	.44-103	37.81	33.69	43
TOTAL SUSP. SOLIDS	1-4166	193	602	54
TOTAL DISS. SOLIDS MEAS.	198-1320	365	176	54
TOTAL SETTLEABLE SOLIDS	.6	.6	0	1
OXYGEN (O) DISS	3.4-10.9	9.23	2.17	10
COMMON IONS				
TOTAL HARDNESS AS CACO3	228	228	0	1
CALCIUM (CA)	20.2-140	71.66	18.24	54
MAGNESIUM (MG)	4.8-72	25.66	9.68	54
SODIUM (NA)	2.4-394	27.13	60.63	54
POTASSIUM (K)	.78-6.9	2.45	1.01	54
ACIDITY AS CACO3	<.01-16	3.67	6.25	6
ALKALINITY AS CACO3 (LAB)	178-319	245	33.74	14
BICARBONATE (HCO3) (LAB)	168-389	282	39.65	54
CARBONATE AS CO3 (LAB)	2.4	2.4	0	1
SULFATE (SO4)	4-426	58.9	58.73	54
CHLORIDE (CL)	3.3-392	26.93	56.59	53
FLUORIDE (F)	.15-.26	.195	.039	6
NUTRIENTS				
NITRATE (NO3-N)	<.01-.16	.052	.057	6
NITRITE (NO2-N)	.01	.01	0	1
AMMONIA (NH3 AS N)	<.01-2.46	.277	.567	23
TOTAL PHOSPHATE (PO4)	<.001-.85	.19	.241	23
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.2	.2	0	1
ARSENIC (AS) TOTAL	<.001-.002	.001	.0009	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.04-.08	.062	.014	6
BARIUM (BA) DISS	.02-.05	.04	.017	3
BORON (B) TOTAL	.014-.044	.03	.01	6
BORON (B) DISS	.006-.03	.019	.012	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001-<.01	.002	.0026	3

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE VC-9 FOR THE PERIOD 01/27/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) TOTAL	.01-.04	.018	.011	6
COPPER (CU) DISS	<.001-.01	.0037	.0055	3
IRON (FE) TOTAL	.01-36.2	2.29	5.66	57
LEAD (PB) TOTAL	<.001-.004	.0021	.0018	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	.043-1	.151	.162	54
MERCURY (HG) TOTAL	<.0002	<.0002	0	4
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001-.002	.001	.0009	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.01-.03	.018	.0091	5
ZINC (ZN) DISS	.005-.01	.0083	.0029	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2-23	12	15.56	2
TOTAL COLIFORM (NO./100ML)	2300-3300	2800	707	2
5 - DAY BOD	1.2-3	2.1	1.27	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	.23-19	8.39	6.92	6
PHENOLS	<.001-.74	.04	.154	23
OTHER PARAMETERS				
OIL AND GREASE	<.1-16	1.69	4.34	13
CYANIDE (CN)	<.001-.026	.0048	.01	6

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE VC-10 FOR THE PERIOD 05/12/81 TO 07/23/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-9-24	8.85	8.84	41
FLOW (CFS)	.22-14.43	2.7	3.94	24
WATER TEMPERATURE (C)	0-14	4.93	4.33	41
SPEC. COND. (UMHOS/CM) FIELD	220-654	443	114	41
PH FIELD	7.5-8.6	8.04	.261	41
TURBIDITY (NTU) FIELD	.38-100	16.64	22.63	36
TOTAL SUSP. SOLIDS	1-244	26.29	51.25	40
TOTAL DISS. SOLIDS MEAS.	144-440	286	69.16	40
TOTAL SETTLEABLE SOLIDS	.2	.2	0	1
OXYGEN (O) DISS	5.6-10.8	9.09	1.7	7
COMMON IONS				
TOTAL HARDNESS AS CACO3	170	170	0	1
CALCIUM (CA)	43.2-120	71.4	17.34	40
MAGNESIUM (MG)	<.1-30.96	19.55	6.77	40
SODIUM (NA)	.90-26	6.38	6.39	41
POTASSIUM (K)	.22-5.5	1.42	.822	40
ACIDITY AS CACO3	<.01-20	4.67	7.79	6
ALKALINITY AS CACO3 (LAB)	166-274	220	34.07	10
BICARBONATE (HCO3) (LAB)	165-335	262	43.74	40
CARBONATE AS CO3 (LAB)	4.8	4.8	0	1
SULFATE (SO4)	3-133	49.39	33.97	40
CHLORIDE (CL)	1-18	5.02	3.82	40
FLUORIDE (F)	.13-.22	.167	.033	6
NUTRIENTS				
NITRATE (NO3-N)	<.02-.16	.068	.054	6
NITRITE (NO2-N)	.02	.02	0	1
AMMONIA (NH3 AS N)	<.01-.66	.216	.235	18
TOTAL PHOSPHATE (PO4)	<.01-1.1	.225	.317	17
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.025-.065	.04	.015	6
BARIUM (BA) DISS	.02-.045	.03	.013	3
BORON (B) TOTAL	<.001-.055	.025	.018	6
BORON (B) DISS	<.001-.015	.0085	.0074	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE VC-10 FOR THE PERIOD 05/12/81 TO 07/23/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) TOTAL	<.001-.02	.0073	.008	6
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	.03-3.51	.457	.713	43
LEAD (PB) TOTAL	<.001-.06	.011	.024	6
LEAD (PB) DISS	<.001-.002	.001	.0009	3
MANGANESE (MN) TOTAL	.007-.18	.049	.04	40
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001-.02	.007	.011	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.003-.045	.02	.019	5
ZINC (ZN) DISS	.005-.035	.015	.017	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	5-70	37.5	45.96	2
TOTAL COLIFORM (NO./100ML)	11-330	171	226	2
5 - DAY BOD	1-5.1	3.05	2.9	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-5.8	2.67	2.61	6
PHENOLS	<.001-.036	.0034	.0084	18
OTHER PARAMETERS				
OIL AND GREASE	<.01-1.6	.42	.556	13
CYANIDE (CN)	<.001-.005	.0013	.0018	6
SULFIDE	1.2	1.2	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-1 FOR THE PERIOD 05/12/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-2-24	11.75	7.4	22
FLOW (CFS)	.14-3.85	.862	1.08	22
WATER TEMPERATURE (C)	0-13	6.8	3.91	22
SPEC. COND. (UMHOS/CM) FIELD	182-704	449	128	22
PH FIELD	7.4-8.6	7.98	.324	22
TURBIDITY (NTU) FIELD	3.1-24	11.86	6.41	16
TOTAL SUSP. SOLIDS	1-14	9.5	3.86	16
TOTAL DISS. SOLIDS MEAS.	188-480	326	88.27	16
OXYGEN (O) DISS	7.2-8.2	7.8	.529	3
COMMON IONS				
CALCIUM (CA)	52-94	75.21	13.33	16
MAGNESIUM (MG)	9.1-33.6	21.66	7.15	16
SODIUM (NA)	1.8-55	9.45	13.19	16
POTASSIUM (K)	.62-3	1.47	.758	16
ACIDITY AS CACO3	4-23	10.33	10.97	3
ALKALINITY AS CACO3 (LAB)	210-250	236	18.95	4
BICARBONATE (HCO3) (LAB)	176-314	265	45.51	16
SULFATE (SO4)	22-134	64.38	33.88	16
CHLORIDE (CL)	.6-50	7.93	12.06	16
FLUORIDE (F)	.09-.27	.17	.092	3
NUTRIENTS				
NITRATE (NO3-N)	<.02-.11	.075	.044	4
AMMONIA (NH3 AS N)	<.01-.8	.289	.265	9
TOTAL PHOSPHATE (PO4)	.005-.25	.075	.079	9
TRACE ELEMENTS				
BARIUM (BA) TOTAL	.032-.04	.036	.004	3
BORON (B) TOTAL	.01-.107	.047	.052	3
COPPER (CU) TOTAL	<.001-.018	.0095	.0088	3
IRON (FE) TOTAL	<.01-.35	.192	.121	16
LEAD (PB) TOTAL	<.001-.002	.001	.0009	3
MANGANESE (MN) TOTAL	.005-.12	.018	.028	16
ZINC (ZN) TOTAL	.005-.2	.102	.138	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	2.1-11.7	5.43	5.43	3
PHENOLS	<.001-.171	.032	.063	9
OTHER PARAMETERS				
OIL AND GREASE	<.1-1.6	.739	.615	9
CYANIDE (CN) TOTAL	.008	.008	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-1 FOR THE PERIOD 05/12/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
OTHER PARAMETERS				
CYANIDE (CN)	<.001	<.001	0	2

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-3 FOR THE PERIOD 05/12/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-8-26	10.97	9.05	32
FLOW (CFS)	.03-7.33	.922	1.74	26
WATER TEMPERATURE (C)	0-16	6.15	4.86	32
SPEC. COND. (UMHOS/CM) FIELD	198-540	391	90.44	32
PH FIELD	7.2-8.4	7.89	.306	32
TURBIDITY (NTU) FIELD	.26-100	19.63	26.15	27
TOTAL SUSP. SOLIDS	1-233	19.45	42.27	32
TOTAL DISS. SOLIDS MEAS.	130-470	263	71.33	32
OXYGEN (O) DISS	6.2-12.1	9.35	1.59	10
COMMON IONS				
TOTAL HARDNESS AS CACO3	174	174	0	1
CALCIUM (CA)	30.4-90.4	70.71	14.91	32
MAGNESIUM (MG)	1-60	15.25	11.65	32
SODIUM (NA)	1.6-55	8.88	12.31	32
POTASSIUM (K)	<.01-6.1	1.35	1.06	32
ACIDITY AS CACO3	<.01-30	6.34	12.03	6
ALKALINITY AS CACO3 (LAB)	129-289	230	50.45	10
BICARBONATE (HCO3) (LAB)	122-353.8	269	58.64	32
CARBONATE AS CO3 (LAB)	.6	.6	0	1
SULFATE (SO4)	<.1-310	30.7	59.49	32
CHLORIDE (CL)	.8-18.6	4.66	4.12	32
FLUORIDE (F)	.14-.24	.178	.037	6
NUTRIENTS				
NITRATE (NO3-N)	<.02-.96	.592	.336	6
NITRITE (NO2-N)	.01	.01	0	1
AMMONIA (NH3 AS N)	<.01-.39	.101	.124	18
TOTAL PHOSPHATE (PO4)	<.01-1.15	.235	.322	17
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.01	.01	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.019-.2	.054	.072	6
BARIUM (BA) DISS	.01-.025	.018	.0076	3
BORON (B) TOTAL	.011-.035	.022	.0083	6
BORON (B) DISS	.01-.02	.017	.0058	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.013	.0081	.0055	6

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-3 FOR THE PERIOD 05/12/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	.01-2.77	.357	.562	35
LEAD (PB) TOTAL	<.001-.003	.002	.0012	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	.005-.28	.074	.071	32
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.005-.02	.013	.0062	5
ZINC (ZN) DISS	.005-.008	.0067	.0015	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	5-33	19	19.8	2
TOTAL COLIFORM (NO./100ML)	33-1400	717	967	2
5 - DAY BOD	1.9-4.1	3	1.56	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	.2-12.2	5.47	4.75	6
PHENOLS	<.001-.08	.0069	.019	18
OTHER PARAMETERS				
OIL AND GREASE	<.01-3.8	.616	1.06	13
CYANIDE (CN)	<.001-.016	.0031	.0063	6

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-4 FOR THE PERIOD 05/12/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-2-27	14.37	7.73	27
FLOW (CFS)	.01-7.12	.598	1.54	23
WATER TEMPERATURE (C)	0-15.5	6.67	4.23	27
SPEC. COND. (UMHOS/CM) FIELD	166-450	333	71.32	27
PH FIELD	7.2-8.5	7.88	.359	27
TURBIDITY (NTU) FIELD	.28-100	30.56	32.72	22
TOTAL SUSP. SOLIDS	1-747	63.91	151	27
TOTAL DISS. SOLIDS MEAS.	10-346	211	62.62	27
OXYGEN (O) DISS	5.8-11	9.1	1.9	9
COMMON IONS				
TOTAL HARDNESS AS CACO3	132	132	0	1
CALCIUM (CA)	24-82.5	60.75	13.93	27
MAGNESIUM (MG)	3.8-39.6	11.02	6.8	27
SODIUM (NA)	1.1-21	5.83	5.51	27
POTASSIUM (K)	.08-1.68	.773	.276	27
ACIDITY AS CACO3	<.01-26	5	10.41	6
ALKALINITY AS CACO3 (LAB)	144-262	207	31.58	9
BICARBONATE (HCO3) (LAB)	113-320	223	49.08	26
CARBONATE AS CO3 (LAB)	.6	.6	0	1
SULFATE (SO4)	<.1-114	22.3	24.17	27
CHLORIDE (CL)	<.1-21.3	3.21	4.13	27
FLUORIDE (F)	.1-.21	.147	.038	6
NUTRIENTS				
NITRATE (NO3-N)	<.01-.13	.069	.055	6
NITRITE (NO2-N)	<.01	<.01	0	1
AMMONIA (NH3 AS N)	<.01-.56	.138	.182	18
TOTAL PHOSPHATE (PO4)	<.01-1.522	.272	.38	17
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.02	.02	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.02-.04	.025	.0078	6
BARIUM (BA) DISS	.01-.015	.013	.0029	3
BORON (B) TOTAL	.005-.04	.017	.012	6
BORON (B) DISS	<.001-.011	.0072	.0058	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.02	.01	.0085	6

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-4 FOR THE PERIOD 05/12/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	0-13.5	1.06	2.76	30
LEAD (PB) TOTAL	<.001-.003	.0016	.0012	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	<.001-.245	.038	.053	27
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.007-.075	.027	.028	5
ZINC (ZN) DISS	.005-.02	.011	.0081	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2-23	12	15.56	2
TOTAL COLIFORM (NO./100ML)	23-790	407	542	2
5 - DAY BOD	1.1-4.6	2.85	2.47	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	.5-11.3	5.02	4.81	6
PHENOLS	<.001-.026	.0032	.0064	18
OTHER PARAMETERS				
OIL AND GREASE	<.1-6.6	1.11	1.98	13
CYANIDE (CN)	<.001-.007	.0025	.0031	6

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IF THE RESULTING MEAN WAS BELOW THE RANGE THEN THE LOW RANGE VALUE WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-6 FOR THE PERIOD 01/27/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-23-28	8.41	10.3	49
FLOW (CFS)	1.33-71.2	10.3	16.82	23
WATER TEMPERATURE (C)	0-15	5.91	4.23	49
SPEC. COND. (UMHOS/CM) FIELD	279-2240	563	330	49
PH FIELD	7.2-8.6	7.95	.283	49
TURBIDITY (NTU) FIELD	.54-100	45.01	34.21	38
TOTAL SUSP. SOLIDS	4-3190	178	482	49
TOTAL DISS. SOLIDS MEAS.	198-1282	363	178	49
TOTAL SETTLEABLE SOLIDS	1.2	1.2	0	1
OXYGEN (O) DISS	5.4-11	9.41	1.6	10
COMMON IONS				
TOTAL HARDNESS AS CACO3	214-316	265	72.12	2
CALCIUM (CA)	40.8-91.6	70.6	12.8	47
MAGNESIUM (MG)	<.1-37.8	24.5	6.83	49
SODIUM (NA)	1.2-358	25.39	63.13	49
POTASSIUM (K)	.92-5.2	2.26	.731	49
ACIDITY AS CACO3	<.01-27	5.34	10.8	6
ALKALINITY AS CACO3 (LAB)	178-278	246	28.5	13
BICARBONATE (HCO3) (LAB)	144-641.72	289	69.62	49
CARBONATE AS CO3 (LAB)	.6-9.6	5.1	6.36	2
SULFATE (SO4)	<3-145	46.67	27.74	49
CHLORIDE (CL)	3.2-428	23.78	61.67	48
FLUORIDE (F)	0-1.17	.315	.426	6
NUTRIENTS				
NITRATE (NO3-N)	<.01-.18	.056	.064	6
NITRITE (NO2-N)	<.01	<.01	0	1
AMMONIA (NH3 AS N)	<.01-3.5	.349	.859	24
TOTAL PHOSPHATE (PO4)	<.01-.76	.193	.198	23
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.02	.02	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.05-.175	.075	.049	6
BARIUM (BA) DISS	.04-.145	.077	.059	3
BORON (B) TOTAL	.015-.065	.032	.018	6
BORON (B) DISS	.01-.03	.022	.01	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-6 FOR THE PERIOD 01/27/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) TOTAL	.01-.026	.015	.0066	6
COPPER (CU) DISS	<.001-.01	.0037	.0055	3
IRON (FE) TOTAL	.008-24.5	2.24	4.27	52
LEAD (PB) TOTAL	<.001-.003	.0016	.0012	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	.05-.74	.166	.137	49
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.015-.025	.02	.0036	5
ZINC (ZN) DISS	.008-.015	.012	.0035	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2-49	25	33.94	2
TOTAL COLIFORM (NO./100ML)	700-1300	1000	424	2
5 - DAY BOD	2-4	3	1.41	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	.4-8.8	4.22	3.25	6
PHENOLS	<.001-.144	.014	.034	24
OTHER PARAMETERS				
OIL AND GREASE	<.1-6.6	.804	1.77	13
CYANIDE (CN)	<.001-.044	.0078	.018	6

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-7 FOR THE PERIOD 05/13/81 TO 06/24/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	6-23	14.83	5.03	24
FLOW (CFS)	.11-10.24	1.63	2.72	23
WATER TEMPERATURE (C)	0-19	8.31	4.62	24
SPEC. COND. (UMHOS/CM) FIELD	263-475	349	59.21	24
PH FIELD	6.6-8.6	7.89	.456	24
TURBIDITY (NTU) FIELD	.65-19	6.22	4.69	18
TOTAL SUSP. SOLIDS	1-20	8.14	5.96	11
TOTAL DISS. SOLIDS MEAS.	176-300	226	43.79	11
OXYGEN (O) DISS	5-13	9.18	2.61	6
COMMON IONS				
TOTAL HARDNESS AS CACO3	172	172	0	1
CALCIUM (CA)	49.6-70.5	60.73	7.15	11
MAGNESIUM (MG)	5.28-15.84	11.34	3.14	11
SODIUM (NA)	2.1-36	11.25	13.1	11
POTASSIUM (K)	.46-4.5	1.03	1.16	11
ACIDITY AS CACO3	<.01-22	4.92	8.89	6
ALKALINITY AS CACO3 (LAB)	170-283	209	33.42	8
BICARBONATE (HCO3) (LAB)	185-345	234	43.09	11
CARBONATE AS CO3 (LAB)	4.8	4.8	0	1
SULFATE (SO4)	<3-79	20.14	23.45	11
CHLORIDE (CL)	2-20.1	5.11	5.43	11
FLUORIDE (F)	.09-.16	.13	.028	6
NUTRIENTS				
NITRATE (NO3-N)	<.01-1.35	.351	.4	11
NITRITE (NO2-N)	.01	.01	0	1
AMMONIA (NH3 AS N)	<.001-2.7	.341	.807	11
TOTAL PHOSPHATE (PO4)	<.01-9	1.48	2.97	10
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.02-.04	.027	.008	6
BARIUM (BA) DISS	.015-.025	.02	.005	3
BORON (B) TOTAL	.004-.02	.014	.0066	6
BORON (B) DISS	<.001-.01	.0068	.0055	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.016	.0078	.0061	6

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-7 FOR THE PERIOD 05/13/81 TO 06/24/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	.01-.70	.242	.182	14
LEAD (PB) TOTAL	<.001-.003	.0014	.0011	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	.01-.025	.016	.0046	11
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.002-.036	.02	.014	6
ZINC (ZN) DISS	.003-.011	.008	.0044	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	8-130	69	86.27	2
TOTAL COLIFORM (NO./100ML)	110-330	220	156	2
5 - DAY BOD	1.5	1.5	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-24	8.97	8.76	6
PHENOLS	<.001-11.8	1.97	4.82	6
OTHER PARAMETERS				
OIL AND GREASE	<.01-15	5.49	5.94	10
CYANIDE (CN)	<.001-.011	.0023	.0043	6

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-8 FOR THE PERIOD 05/13/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	4-28	14.88	6.39	26
FLOW (CFS)	.18-60.7	4.02	12.24	26
WATER TEMPERATURE (C)	1-13	7.67	3.41	26
SPEC. COND. (UMHOS/CM) FIELD	68-340	239	78.75	26
PH FIELD	6-8.4	7.57	.579	26
TURBIDITY (NTU) FIELD	.48-76	22.71	19.99	20
TOTAL SUSP. SOLIDS	1-87	11.33	25.23	11
TOTAL DISS. SOLIDS MEAS.	75-220	177	45.95	11
OXYGEN (O) DISS	7.6-12.5	9.84	1.5	10
COMMON IONS				
TOTAL HARDNESS AS CACO3	60	60	0	1
CALCIUM (CA)	20-64	47.59	12.13	11
MAGNESIUM (MG)	2.4-16.8	8.68	3.66	11
SODIUM (NA)	2-20	7.82	7.34	11
POTASSIUM (K)	.5-3.6	.90	.903	11
ACIDITY AS CACO3	<.01-16	5.22	5.81	6
ALKALINITY AS CACO3 (LAB)	60-184	145	36.53	8
BICARBONATE (HCO3) (LAB)	73.2-225	173	45.02	11
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	<3-50	19.41	14.45	11
CHLORIDE (CL)	<.1-20	5.53	6.59	11
FLUORIDE (F)	.08-.16	.115	.031	6
NUTRIENTS				
NITRATE (NO3-N)	<.02-.48	.243	.175	6
NITRITE (NO2-N)	.01	.01	0	1
AMMONIA (NH3 AS N)	<.01-.52	.145	.196	11
TOTAL PHOSPHATE (PO4)	.02-6.3	1.15	2.16	10
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.08	.08	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.013-.029	.021	.0056	6
BARIUM (BA) DISS	.01-.025	.02	.0087	3
BORON (B) TOTAL	<.001-.055	.022	.02	6
BORON (B) DISS	<.001-.01	.0068	.0055	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.02	.0072	.0082	6

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-8 FOR THE PERIOD 05/13/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	.08-6.2	.664	1.6	14
LEAD (PB) TOTAL	<.001-.007	.003	.0024	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	.01-.135	.032	.038	11
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.003-.041	.02	.016	5
ZINC (ZN) DISS	.003-.008	.0053	.0025	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	2-5	3.5	2.12	2
TOTAL COLIFORM (NO./100ML)	130-700	415	403	2
5 - DAY BOD	1.2	1.2	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-8.8	4.22	3.41	6
PHENOLS	<.001-11.8	1.08	3.56	11
OTHER PARAMETERS				
OIL AND GREASE	<.001-4	.90	1.59	6
CYANIDE (CN)	<.001-.002	<.001	.0006	6
SULFIDE	.01-1.8	.905	1.27	2

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-9 FOR THE PERIOD 01/27/81 TO 06/24/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-6-26	12.22	8.45	32
FLOW (CFS)	.003-8.8	.571	1.69	29
WATER TEMPERATURE (C)	0-17	7.59	4.82	32
SPEC. COND. (UMHOS/CM) FIELD	202-629	463	90.57	32
PH FIELD	7.4-8.4	7.89	.296	32
TURBIDITY (NTU) FIELD	.28-100	17.15	20.59	24
TOTAL SUSP. SOLIDS	1-3580	131	630	32
TOTAL DISS. SOLIDS MEAS.	218-340	298	34.46	32
OXYGEN (O) DISS	5.8-10.5	8.85	1.4	10
COMMON IONS				
TOTAL HARDNESS AS CACO3	170	170	0	1
CALCIUM (CA)	36-92.5	77.56	14.29	32
MAGNESIUM (MG)	<.1-40.8	16.46	7.12	32
SODIUM (NA)	2-49	11.24	12.12	32
POTASSIUM (K)	.85-16	2.35	3.24	32
ACIDITY AS CACO3	<.01-33	7.34	12.95	6
ALKALINITY AS CACO3 (LAB)	189-314	257	31.48	10
BICARBONATE (HCO3) (LAB)	194-383	293	40.07	32
CARBONATE AS CO3 (LAB)	7.2	7.2	0	1
SULFATE (SO4)	<3-70	33.41	17.82	32
CHLORIDE (CL)	3-26.2	8.16	4.25	32
FLUORIDE (F)	.17-.34	.227	.06	6
NUTRIENTS				
NITRATE (NO3-N)	<.02-2.45	1.72	.887	6
NITRITE (NO2-N)	.02	.02	0	1
AMMONIA (NH3 AS N)	<.01-.91	.156	.241	19
TOTAL PHOSPHATE (PO4)	<.001-7.5	.712	1.82	19
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.016-.03	.021	.0048	6
BARIUM (BA) DISS	.015-.02	.017	.0029	3
BORON (B) TOTAL	.014-.033	.023	.007	6
BORON (B) DISS	.01-.02	.017	.0058	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.14	.03	.054	6

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-9 FOR THE PERIOD 01/27/81 TO 06/24/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	.01-45.1	1.58	7.58	35
LEAD (PB) TOTAL	<.001	<.001	.0002	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	<.001-2	.145	.371	32
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.002-.025	.011	.0086	5
ZINC (ZN) DISS	.007-.01	.009	.0017	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	7-23	15	11.31	2
TOTAL COLIFORM (NO./100ML)	94-1300	697	853	2
5 - DAY BOD	1.9-4	2.95	1.48	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	.25-8.2	3.84	2.66	6
PHENOLS	<.001-.017	.0027	.0047	19
OTHER PARAMETERS				
OIL AND GREASE	<.01-1	.354	.332	13
CYANIDE (CN)	<.001	<.001	0	6

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-10 FOR THE PERIOD 05/13/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	4-27	14.81	6.27	26
FLOW (CFS)	.4-13.67	3.03	3.5	23
WATER TEMPERATURE (C)	0-15	8.65	4.12	26
SPEC. COND. (UMHOS/CM) FIELD	74-330	200	59.92	26
PH FIELD	6.3-8.6	7.53	.63	26
TURBIDITY (NTU) FIELD	4-100	23.81	23.66	20
TOTAL SUSP. SOLIDS	<.1-16	6.96	5.76	11
TOTAL DISS. SOLIDS MEAS.	75-190	143	38.79	6
TDS MEAS. @ 180 DEG. C	112-213	155	36.53	5
OXYGEN (D) DISS	8.2-13.2	10	1.57	9
COMMON IONS				
TOTAL HARDNESS AS CACO3	66	66	0	1
CALCIUM (CA)	21.6-48	40.1	7.33	11
MAGNESIUM (MG)	2.88-8.64	5.95	2.04	11
SODIUM (NA)	1.6-24	4.95	7.15	11
POTASSIUM (K)	.5-1.5	.83	.303	11
ACIDITY AS CACO3	2-16	5.84	5.23	6
ALKALINITY AS CACO3 (LAB)	54-150	109	29.67	8
BICARBONATE (HCO3) (LAB)	66-183	130	31.22	11
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	9.5-32	17.98	9.01	11
CHLORIDE (CL)	2-20	5.47	6.02	11
FLUORIDE (F)	.06-.13	.092	.028	6
NUTRIENTS				
NITRATE (NO3-N)	<.02-.2	.085	.068	6
NITRITE (NO2-N)	.02	.02	0	1
AMMONIA (NH3 AS N)	<.01-.65	.111	.19	11
TOTAL PHOSPHATE (PO4)	<.01-6.2	1.1	1.96	10
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.02	.02	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.021-.05	.031	.01	6
BARIUM (BA) DISS	.02-.03	.025	.005	3
BORON (B) TOTAL	.005-.19	.044	.072	6
BORON (B) DISS	<.001-.01	.0068	.0055	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3

ALL QUANTITIES IN MILLIGRAMS PER LITER UNLESS OTHERWISE NOTED.
FOR VALUES BELOW THE DETECTION LIMIT, ONE HALF THE DETECTION LIMIT WAS USED IN THE STATISTICAL ANALYSIS.
IF THE RESULTING MEAN WAS BELOW THE RANGE THEN THE LOW RANGE VALUE WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-10 FOR THE PERIOD 05/13/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) TOTAL	<.001-.15	.031	.058	6
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	.08-2.5	.784	.59	14
LEAD (PB) TOTAL	<.001-.041	.008	.016	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	.02-.11	.054	.026	11
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.005-.033	.017	.0098	6
ZINC (ZN) DISS	.005-.02	.012	.0075	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2-17	9	11.31	2
TOTAL COLIFORM (NO./100ML)	130-330	230	141	2
5 - DAY BOD	1.2	1.2	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-8.1	3.38	3.22	6
PHENOLS	<.001-.023	.0038	.0068	11
OTHER PARAMETERS				
OIL AND GREASE	<.01-2.4	.593	.915	6
CYANIDE (CN)	<.001	<.001	0	6
SULFIDE	<.01	<.01	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-11 FOR THE PERIOD 05/12/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-2-25	12.89	7.74	28
FLOW (CFS)	.04-2.2	.559	.691	16
WATER TEMPERATURE (C)	0-13	6.27	4.33	28
SPEC. COND. (UMHOS/CM) FIELD	194-504	356	85.04	28
PH FIELD	7.4-8.5	7.98	.329	28
TURBIDITY (NTU) FIELD	.82-100	43.43	34.2	24
TOTAL SUSP. SOLIDS	1-380	77.43	101	28
TOTAL DISS. SOLIDS MEAS.	128-310	231	49.07	28
OXYGEN (O) DISS	5-11.5	9.49	2.09	9
COMMON IONS				
TOTAL HARDNESS AS CACO3	166	166	0	1
CALCIUM (CA)	24-97.6	63.41	16.28	28
MAGNESIUM (MG)	<.01-25.2	11.8	5.23	28
SODIUM (NA)	1.5-67	7.92	12.83	28
POTASSIUM (K)	.35-6.3	1.25	1.27	28
ACIDITY AS CACO3	<.01-33	6.5	13.2	6
ALKALINITY AS CACO3 (LAB)	123-267	213	46.31	9
BICARBONATE (HCO3) (LAB)	133-325	240	54.21	28
CARBONATE AS CO3 (LAB)	4.8	4.8	0	1
SULFATE (SO4)	<.1-118	22.27	22.74	28
CHLORIDE (CL)	<.1-19.8	3.72	3.56	28
FLUORIDE (F)	.1-.27	.16	.061	6
NUTRIENTS				
NITRATE (NO3-N)	<.01-.23	.127	.097	6
NITRITE (NO2-N)	.02	.02	0	1
ORTHO-PHOSPHATE (PO4-P)	26	26	0	1
AMMONIA (NH3 AS N)	<.01-1.5	.186	.367	16
TOTAL PHOSPHATE (PO4)	<.01-.66	.201	.193	16
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.011-.28	.068	.104	6
BARIUM (BA) DISS	.015-.02	.017	.0029	3
BORON (B) TOTAL	.011-.041	.02	.011	6
BORON (B) DISS	.01-.015	.012	.0029	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-11 FOR THE PERIOD 05/12/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) TOTAL	<.001-.021	.0098	.0084	6
COPPER (CU) DISS	<.001-.01	.0037	.0055	3
IRON (FE) TOTAL	.01-9.1	1.42	2.3	31
LEAD (PB) TOTAL	<.001-.004	.002	.0014	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	.002-.27	.058	.054	28
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.007-.055	.023	.019	5
ZINC (ZN) DISS	.007-.016	.011	.0046	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2-79	40	55.15	2
TOTAL COLIFORM (NO./100ML)	220-330	275	77.78	2
5 - DAY BOD	1.4	1.4	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	.3-21	7.77	7.93	6
PHENOLS	<.001-10.22	.652	2.55	16
OTHER PARAMETERS				
OIL AND GREASE	<.01-1.2	.251	.376	13
CYANIDE (CN)	<.001-.002	<.001	.0006	6
SULFIDE	.92	.92	0	1

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-12 FOR THE PERIOD 11/30/83 TO 06/24/8

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-23-19	4.47	11.74	19
FLOW (CFS)	.18-.63	.467	.134	12
WATER TEMPERATURE (C)	4-16.5	11.05	2.81	20
SPEC. COND. (UMHOS/CM) FIELD	498-1015	683	127	20
PH FIELD	6.9-7.7	7.25	.224	20
TURBIDITY (NTU) FIELD	14-100	51.29	33.55	20
TOTAL SUSP. SOLIDS	5-4750	295	1051	20
TOTAL DISS. SOLIDS MEAS.	310-860	472	130	20
TOTAL SETTLEABLE SOLIDS	<.1-.5	.15	.197	5
OXYGEN (O) DISS	5.6	5.6	0	1
TOTAL SOLIDS	.51-.89	.67	.137	6
COMMON IONS				
CALCIUM (CA)	42-160	91.34	34.88	19
MAGNESIUM (MG)	<.1-46.6	30.49	12.59	19
SODIUM (NA)	7.5-58	17.25	14.31	19
POTASSIUM (K)	3.5-8.2	5.56	1.07	19
ACIDITY AS CACO3	10.5-12	11.25	1.06	2
ALKALINITY AS CACO3 (LAB)	248-250	249	1.41	2
BICARBONATE (HCO3) (LAB)	175.7-305	234	40.1	19
SULFATE (SO4)	44-320	162	77.61	19
CHLORIDE (CL)	3.4-35	12.75	9.38	19
FLUORIDE (F)	.1-.28	.19	.127	2
NUTRIENTS				
NITRATE (NO3-N)	<.01-.02	.012	.011	2
AMMONIA (NH3 AS N)	<.01-1.8	.501	.734	5
TOTAL PHOSPHATE (PO4)	<.01-.06	.035	.022	5
TRACE ELEMENTS				
BARIUM (BA) TOTAL	.086-.11	.098	.017	2
BORON (B) TOTAL	.141-.2	.171	.042	2
COPPER (CU) TOTAL	.01-.023	.016	.0092	2
IRON (FE) TOTAL	.02-32.4	2.3	7.14	20
LEAD (PB) TOTAL	<.001-.009	.0047	.006	2
MANGANESE (MN) TOTAL	<.01-.33	.053	.072	19
ZINC (ZN) TOTAL	.003-.062	.032	.042	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-2.5	1.25	1.76	2
PHENOLS	<.001	<.001	0	5
OTHER PARAMETERS				
OIL AND GREASE	<.1-2	.746	.764	12

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-12 FOR THE PERIOD 11/30/83 TO 06/24/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
OTHER PARAMETERS				
CYANIDE (CN)	<.001	<.001	0	2

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE CS-13 FOR THE PERIOD 11/10/83 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-4-22	9.14	9.36	14
FLOW (CFS)	.01-.08	.041	.025	14
WATER TEMPERATURE (C)	2-11	6.96	2.95	14
SPEC. COND. (UMHOS/CM) FIELD	599-874	707	83.23	14
PH FIELD	6.7-7.5	7.19	.192	14
TURBIDITY (NTU) FIELD	.07-40	12.71	10.65	14
TOTAL SUSP. SOLIDS	<.1-227	32.15	59.11	14
TOTAL DISS. SOLIDS MEAS.	360-665	464	72.86	14
OXYGEN (O) DISS	9.8	9.8	0	1
COMMON IONS				
CALCIUM (CA)	82.4-220	114	34.11	14
MAGNESIUM (MG)	12-44.4	28.48	8.12	14
SODIUM (NA)	8.1-40	13.17	8.12	14
POTASSIUM (K)	1.54-3.2	2.3	.343	14
ACIDITY AS CACO3	20.2	20.2	0	1
ALKALINITY AS CACO3 (LAB)	340	340	0	1
BICARBONATE (HCO3) (LAB)	240.3-414.8	364	44.37	14
SULFATE (SO4)	51-180	85.86	42.41	14
CHLORIDE (CL)	14-80.7	25.46	17.08	14
FLUORIDE (F)	.17	.17	0	1
NUTRIENTS				
NITRATE (NO3-N)	.8	.8	0	1
AMMONIA (NH3 AS N)	<.01-.5	.227	.203	5
TOTAL PHOSPHATE (PO4)	<.01-.03	.018	.013	5
TRACE ELEMENTS				
BARIUM (BA) TOTAL	.06	.06	0	1
BORON (B) TOTAL	.041	.041	0	1
COPPER (CU) TOTAL	.022	.022	0	1
IRON (FE) TOTAL	.05-.54	.213	.155	14
LEAD (PB) TOTAL	.013	.013	0	1
MANGANESE (MN) TOTAL	.019-.11	.054	.028	14
ZINC (ZN) TOTAL	.056	.056	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01	<.01	0	1
PHENOLS	<.001	<.001	.0002	5
OTHER PARAMETERS				
OIL AND GREASE	<.02-.6	.182	.245	5
CYANIDE (CN)	<.001	<.001	0	1

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE UPL-3 FOR THE PERIOD 05/13/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-2-27	15.46	6.58	26
WATER TEMPERATURE (C)	3-14	7.38	2.7	26
SPEC. COND. (UMHOS/CM) FIELD	138-362	248	48.11	26
PH FIELD	6.6-8.6	7.67	.518	26
TURBIDITY (NTU) FIELD	.48-28	8.26	8.04	19
TOTAL SUSP. SOLIDS	1-13	5.61	5.09	12
TOTAL DISS. SOLIDS MEAS.	136-210	165	24.74	12
OXYGEN (O) DISS	6-11.2	9.27	1.58	10
COMMON IONS				
TOTAL HARDNESS AS CACO3	136	136	0	1
CALCIUM (CA)	36.8-48	43.47	3.26	12
MAGNESIUM (MG)	5.28-14.4	8.07	2.4	12
SODIUM (NA)	1.7-29	6.78	8.18	12
POTASSIUM (K)	.66-3.9	1.05	.90	12
ACIDITY AS CACO3	<.01-15.7	6.72	5.96	6
ALKALINITY AS CACO3 (LAB)	116-159	135	14.87	9
BICARBONATE (HCO3) (LAB)	134-193	158	19.14	12
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	<3-29	15.37	8.17	12
CHLORIDE (CL)	<.1-15.3	4.73	5	12
FLUORIDE (F)	.06-.14	.103	.029	6
NUTRIENTS				
NITRATE (NO3-N)	<.02-.44	.222	.148	6
NITRITE (NO2-N)	.01	.01	0	1
AMMONIA (NH3 AS N)	<.01-.62	.127	.231	11
TOTAL PHOSPHATE (PO4)	.01-1.5	.305	.446	10
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.02-.068	.035	.017	6
BARIUM (BA) DISS	.015-.025	.022	.0058	3
BORON (B) TOTAL	.008-.04	.019	.013	6
BORON (B) DISS	<.001-.015	.0068	.0074	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.04	.014	.015	6
COPPER (CU) DISS	<.001	<.001	0	3

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE UPL-3 FOR THE PERIOD 05/13/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
IRON (FE) TOTAL	.01-1.4	.174	.343	15
LEAD (PB) TOTAL	<.001-.011	.0034	.0045	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	.012-.08	.025	.018	12
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.002-.07	.034	.028	6
ZINC (ZN) DISS	.005-.01	.0067	.0029	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2	<2	0	2
TOTAL COLIFORM (NO./100ML)	2-8	5	4.24	2
5 - DAY BOD	1.4	1.4	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-12	4.4	4.68	6
PHENOLS	<.001-.494	.053	.147	11
OTHER PARAMETERS				
OIL AND GREASE	<.1-2.6	.958	1.2	6
CYANIDE (CN)	<.001-.006	.0023	.0023	6

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE UPL-10 FOR THE PERIOD 05/13/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	4-23	14.54	4.99	26
FLOW (CFS)	1.1-63.1	10.94	15.36	19
WATER TEMPERATURE (C)	0-17.5	9.38	4.59	26
SPEC. COND. (UMHOS/CM) FIELD	35.3-332	243	74.32	26
PH FIELD	6.6-8.6	7.81	.52	26
TURBIDITY (NTU) FIELD	2-100	25.86	28.03	20
TOTAL SUSP. SOLIDS	1-41	10.46	11.66	11
TOTAL DISS. SOLIDS MEAS.	115-225	178	32.19	11
OXYGEN (O) DISS	7.4-12.8	9.8	1.4	10
COMMON IONS				
TOTAL HARDNESS AS CACO3	92	92	0	1
CALCIUM (CA)	29.6-60	49.1	8.36	11
MAGNESIUM (MG)	4.32-21.6	8.43	4.62	11
SODIUM (NA)	1.7-13.5	7.11	5.11	11
POTASSIUM (K)	.54-.92	.722	.126	11
ACIDITY AS CACO3	<.01-16	4.87	6.97	6
ALKALINITY AS CACO3 (LAB)	84-181	154	30.91	8
BICARBONATE (HCO3) (LAB)	102-221	176	37.12	11
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	<3-38	17.09	11.4	11
CHLORIDE (CL)	<.1-20	4.94	5.7	11
FLUORIDE (F)	.07-.14	.107	.026	6
NUTRIENTS				
NITRATE (NO3-N)	<.01-.23	.119	.1	6
NITRITE (NO2-N)	.02	.02	0	1
AMMONIA (NH3 AS N)	<.01-.90	.214	.305	11
TOTAL PHOSPHATE (PO4)	.02-6	.814	1.84	10
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.04	.04	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.021-.06	.035	.013	6
BARIUM (BA) DISS	.02-.028	.024	.004	3
BORON (B) TOTAL	.004-.025	.016	.0071	6
BORON (B) DISS	<.001-.011	.0072	.0058	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.02	.0085	.0073	6

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE UPL-10 FOR THE PERIOD 05/13/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	.08-.72	.378	.203	14
LEAD (PB) TOTAL	<.001-.007	.0034	.0024	6
LEAD (PB) DISS	<.001-.002	.001	.0009	3
MANGANESE (MN) TOTAL	.019-.07	.038	.016	11
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.003-.044	.019	.014	6
ZINC (ZN) DISS	.005-.012	.009	.0036	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	2-170	86	119	2
TOTAL COLIFORM (NO./100ML)	110-2200	1155	1478	2
5 - DAY BOD	1.5	1.5	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-21.7	7.77	7.98	6
PHENOLS	<.001-28	2.55	8.44	11
OTHER PARAMETERS				
OIL AND GREASE	<.01-23.8	4.45	9.52	6
CYANIDE (CN)	<.001-.005	.0017	.0019	6

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S10-1 FOR THE PERIOD 06/29/81 TO 06/18/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	5-27	15.47	6.6	19
FLOW (CFS)	.0001-.07	.011	.018	19
WATER TEMPERATURE (C)	3-45	8.74	9.32	19
SPEC. COND. (UMHOS/CM) FIELD	77-190	134	31.46	19
PH FIELD	6.1-8.5	7.08	.659	18
TURBIDITY (NTU) FIELD	.26-33	15.71	7.97	18
TOTAL SUSP. SOLIDS	<.1-41	12.67	14.38	12
TOTAL DISS. SOLIDS MEAS.	5-119	79.08	29.62	12
OXYGEN (O) DISS	7.7-8.5	8.07	.386	4
COMMON IONS				
TOTAL HARDNESS AS CACO3	46	46	0	1
CALCIUM (CA)	12-32	18.39	6.51	12
MAGNESIUM (MG)	2.4-13.2	5.23	3.2	12
SODIUM (NA)	.5-10.3	3.41	3.54	12
POTASSIUM (K)	.04-1.5	.576	.387	12
CALCIUM (CA) TOTAL	12.5	12.5	0	1
MAGNESIUM (MG) TOTAL	3.84	3.84	0	1
SODIUM (NA) TOTAL	1.75	1.75	0	1
POTASSIUM (K) TOTAL	.38	.38	0	1
ACIDITY AS CACO3	<.01-6	2.02	2.31	5
ALKALINITY AS CACO3 (LAB)	27.3-70	47.46	19.18	5
BICARBONATE (HCO3) (LAB)	3.9-112.2	54.64	29.36	12
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	4-44.5	20.57	13.23	12
CHLORIDE (CL)	<.1-20	5.31	6.35	12
FLUORIDE (F)	.02-.08	.048	.022	5
CHLORIDE (CL) TOTAL	2.6	2.6	0	1
FLUORIDE (F) TOTAL	.05	.05	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.02-1.43	.56	.615	4
NITRITE (NO2-N)	.04	.04	0	1
AMMONIA (NH3 AS N)	<.01-.3	.122	.123	12
TOTAL PHOSPHATE (PO4)	.02-.24	.101	.071	12
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.03	.03	0	1
ALUMINUM (AL) DISS	.07	.07	0	1
ARSENIC (AS) TOTAL	<.001-.003	.0018	.0018	2
ARSENIC (AS) DISS	<.001	<.001	0	2
BARIUM (BA) TOTAL	.01-.02	.016	.0042	5
BARIUM (BA) DISS	.01	.01	0	2

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S10-1 FOR THE PERIOD 06/29/81 TO 06/18/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) TOTAL	<.001-.057	.026	.022	5
BORON (B) DISS	<.001-.02	.01	.014	2
CADMIUM (CD) TOTAL	<.001	<.001	0	2
CADMIUM (CD) DISS	<.001	<.001	0	2
CHROMIUM (CR) TOTAL	<.001	<.001	0	2
CHROMIUM (CR) DISS	<.001	<.001	0	2
COPPER (CU) TOTAL	<.001-.02	.011	.007	5
COPPER (CU) DISS	<.001	<.001	0	2
IRON (FE) TOTAL	.03-.46	.239	.135	14
LEAD (PB) TOTAL	<.001-.007	.0032	.0031	5
LEAD (PB) DISS	<.001-.002	.0013	.0011	2
MANGANESE (MN) TOTAL	.002-.02	.0095	.0069	13
MERCURY (HG) TOTAL	<.0002	<.0002	0	2
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI) DISS	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	2
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	2
SILVER (AG) DISS	<.001	<.001	0	2
ZINC (ZN) TOTAL	.002-.041	.023	.014	5
ZINC (ZN) DISS	.007-.015	.011	.0057	2
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	17	17	0	1
TOTAL COLIFORM (NO./100ML)	700	700	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	.78-20.6	7.42	7.99	5
PHENOLS	<.001-.055	.006	.016	12
OTHER PARAMETERS				
OIL AND GREASE	<.1-1.6	.71	.65	5
CYANIDE (CN)	<.001	<.001	0	5
SULFIDE	.16	.16	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S12-1 FOR THE PERIOD 06/29/81 TO 06/18/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	6-24	14.93	6.03	15
FLOW (CFS)	.0002-.19	.042	.073	15
WATER TEMPERATURE (C)	1-21	10.47	6.49	15
SPEC. COND. (UMHOS/CM) FIELD	86-260	172	54.22	15
PH FIELD	6.4-8.9	7.43	.627	15
TURBIDITY (NTU) FIELD	1.1-38	16.51	10.15	15
TOTAL SUSP. SOLIDS	1-105	22.3	33.49	10
TOTAL DISS. SOLIDS MEAS.	54-170	101	38.32	10
OXYGEN (O) DISS	5-7.7	6.77	1.53	3
COMMON IONS				
TOTAL HARDNESS AS CACO3	70	70	0	1
CALCIUM (CA)	13.6-36	25.97	8.3	10
MAGNESIUM (MG)	1.4-6	3.02	1.44	10
SODIUM (NA)	1-21	8.23	7.69	9
POTASSIUM (K)	.03-4.04	.887	1.15	10
CALCIUM (CA) TOTAL	24.9	24.9	0	1
MAGNESIUM (MG) TOTAL	1.95	1.95	0	1
SODIUM (NA) TOTAL	2.55	2.55	0	1
POTASSIUM (K) TOTAL	.41	.41	0	1
ACIDITY AS CACO3	1.7-8	3.82	2.84	4
ALKALINITY AS CACO3 (LAB)	62-111.7	93.43	21.66	4
BICARBONATE (HCO3) (LAB)	46.4-136	92.96	33.61	10
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	3-15	7.44	4.27	10
CHLORIDE (CL)	1-30	7.84	8.84	10
FLUORIDE (F)	.06-.12	.085	.026	4
CHLORIDE (CL) TOTAL	3.5	3.5	0	1
FLUORIDE (F) TOTAL	.12	.12	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.02-.23	.135	.108	4
NITRITE (NO2-N)	.01	.01	0	1
AMMONIA (NH3 AS N)	<.01-.59	.192	.174	10
TOTAL PHOSPHATE (PO4)	.01-.85	.174	.246	10
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.045	.045	0	1
ALUMINUM (AL) DISS	.09	.09	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	1
ARSENIC (AS) DISS	<.001	<.001	0	1
BARIUM (BA) TOTAL	.012-.08	.037	.03	4
BARIUM (BA) DISS	.005	.005	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S12-1 FOR THE PERIOD 06/29/81 TO 06/18/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) TOTAL	.017-.044	.03	.011	4
BORON (B) DISS	.02	.02	0	1
CADMIUM (CD) TOTAL	<.001	<.001	0	1
CADMIUM (CD) DISS	<.001	<.001	0	1
CHROMIUM (CR) TOTAL	<.001	<.001	0	1
CHROMIUM (CR) DISS	<.001	<.001	0	1
COPPER (CU) TOTAL	<.001-.07	.027	.03	4
COPPER (CU) DISS	<.001	<.001	0	1
IRON (FE) TOTAL	.03-.65	.285	.199	11
LEAD (PB) TOTAL	<.001-.002	.001	.0007	4
LEAD (PB) DISS	<.001	<.001	0	1
MANGANESE (MN) TOTAL	.007-.76	.186	.239	11
MERCURY (HG) TOTAL	<.0002	<.0002	0	1
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI) DISS	<.001	<.001	0	2
SELENIUM (SE) TOTAL	<.001	<.001	0	1
SELENIUM (SE) DISS	<.001	<.001	0	1
SILVER (AG) TOTAL	<.001	<.001	0	1
SILVER (AG) DISS	<.001	<.001	0	1
ZINC (ZN) TOTAL	.002-.048	.018	.021	4
ZINC (ZN) DISS	.005	.005	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	.95-34.9	12.79	15.59	4
PHENOLS	<.001-.525	.066	.166	10
OTHER PARAMETERS				
OIL AND GREASE	<.1-.8	.438	.419	4
CYANIDE (CN)	<.001-.005	.0016	.0022	4
SULFIDE	<.01	<.01	0	1

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S13-2 FOR THE PERIOD 05/14/81 TO 06/24/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	0-26	13.08	7.06	26
FLOW (CFS)	.0006-.01	.0022	.0024	26
WATER TEMPERATURE (C)	1-15	7.73	3.82	26
SPEC. COND. (UMHOS/CM) FIELD	398-640	526	66.41	26
PH FIELD	6.5-8.3	7.56	.418	24
TURBIDITY (NTU) FIELD	.22-60	16.82	16.05	23
TOTAL SUSP. SOLIDS	2-240	47.5	66.46	14
TOTAL DISS. SOLIDS MEAS.	279-382	337	28.51	14
OXYGEN (O) DISS	6.8-11.2	9.1	1.62	5
COMMON IONS				
TOTAL HARDNESS AS CACO3	170	170	0	1
CALCIUM (CA)	25.6-98.4	81.65	17.47	14
MAGNESIUM (MG)	19.76-25.92	22.3	1.89	14
SODIUM (NA)	4.7-20	8.66	5.42	14
POTASSIUM (K)	.5-1.66	1.16	.309	13
CALCIUM (CA) TOTAL	26.4	26.4	0	1
MAGNESIUM (MG) TOTAL	24.96	24.96	0	1
SODIUM (NA) TOTAL	45	45	0	1
POTASSIUM (K) TOTAL	1.5	1.5	0	1
ACIDITY AS CACO3	<.01-31	9.73	10.97	6
ALKALINITY AS CACO3 (LAB)	212-280	249	29.87	7
BICARBONATE (HCO3) (LAB)	229.4-356	310	41.19	14
CARBONATE AS CO3 (LAB)	2.4	2.4	0	1
SULFATE (SO4)	7-113	51.57	25.01	14
CHLORIDE (CL)	2.8-25	8.53	6.31	14
FLUORIDE (F)	.17-.26	.207	.03	6
CHLORIDE (CL) TOTAL	8	8	0	1
FLUORIDE (F) TOTAL	.26	.26	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.02-1.61	.795	.593	6
NITRITE (NO2-N)	.02	.02	0	1
AMMONIA (NH3 AS N)	<.01-1.08	.282	.312	13
TOTAL PHOSPHATE (PO4)	<.01-.68	.14	.187	14
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.01	.01	0	1
ALUMINUM (AL) DISS	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.019-.044	.025	.0097	6
BARIUM (BA) DISS	.015-.02	.017	.0026	3

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S13-2 FOR THE PERIOD 05/14/81 TO 06/24/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) TOTAL	.015-.038	.025	.0096	6
BORON (B) DISS	.007-.03	.021	.012	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.024	.015	.0088	6
COPPER (CU) DISS	<.001-.01	.0037	.0055	3
IRON (FE) TOTAL	.01-.91	.236	.235	17
LEAD (PB) TOTAL	<.001-.006	.0028	.0023	6
LEAD (PB) DISS	<.001-.003	.0018	.0013	3
MANGANESE (MN) TOTAL	<.001-.02	.0099	.0052	15
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI) DISS	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.002-.038	.018	.017	5
ZINC (ZN) DISS	.005-.03	.021	.014	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2-4	2.5	2.12	2
TOTAL COLIFORM (NO./100ML)	790-1100	945	219	2
5 - DAY BOD	1.7	1.7	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-13.1	6.83	5.43	6
PHENOLS	<.001-.405	.036	.111	13
OTHER PARAMETERS				
OIL AND GREASE	<.1-2.6	.533	1.01	6
CYANIDE (CN)	<.001-.004	.0013	.0014	6
SULFIDE	1.5	1.5	0	1

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S13-7 FOR THE PERIOD 06/29/81 TO 06/18/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	11-26	18.91	5.41	11
FLOW (CFS)	.0005-.09	.034	.041	11
WATER TEMPERATURE (C)	3-17	6	4.07	11
SPEC. COND. (UMHOS/CM) FIELD	111-369	236	93.49	11
PH FIELD	6.5-8.4	7.25	.628	11
TURBIDITY (NTU) FIELD	1.4-16	8.51	4.87	11
TOTAL SUSP. SOLIDS	1-48	12.69	18.62	8
TOTAL DISS. SOLIDS MEAS.	54-240	135	66.08	8
OXYGEN (O) DISS	7.6-10.2	8.6	1.4	3
COMMON IONS				
TOTAL HARDNESS AS CACO3	126	126	0	1
CALCIUM (CA)	18.4-68	39.54	18.16	8
MAGNESIUM (MG)	1.4-14.4	5.96	4.57	8
SODIUM (NA)	1-5.8	2.69	1.8	7
POTASSIUM (K)	.1-.6	.41	.167	8
CALCIUM (CA) TOTAL	45.1	45.1	0	1
MAGNESIUM (MG) TOTAL	3.84	3.84	0	1
SODIUM (NA) TOTAL	1.5	1.5	0	1
POTASSIUM (K) TOTAL	.45	.45	0	1
TOTAL ALKALINITY AS CACO3	170	170	0	1
ACIDITY AS CACO3	1.7-17	6.43	7.11	4
ALKALINITY AS CACO3 (LAB)	118-205	156	44.41	3
BICARBONATE (HCO3) (LAB)	52.3-207	129	64	8
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	2-25	10.63	8.59	8
CHLORIDE (CL)	<.01-24	7.5	8.36	8
FLUORIDE (F)	.09-.14	.117	.022	4
CHLORIDE (CL) TOTAL	3	3	0	1
FLUORIDE (F) TOTAL	.14	.14	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.02-2.6	1.3	1.17	4
NITRITE (NO2-N)	.06	.06	0	1
AMMONIA (NH3 AS N)	<.01-.5	.177	.161	8
TOTAL PHOSPHATE (PO4)	.02-.97	.257	.322	8
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ALUMINUM (AL) DISS	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	1
ARSENIC (AS) DISS	<.001	<.001	0	1
BARIUM (BA) TOTAL	.018-.05	.027	.015	4

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STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S13-7 FOR THE PERIOD 06/29/81 TO 06/18/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BARIUM (BA) DISS	.01	.01	0	1
BORON (B) TOTAL	.01-.047	.021	.017	4
BORON (B) DISS	.01	.01	0	1
CADMIUM (CD) TOTAL	<.001	<.001	0	1
CADMIUM (CD) DISS	<.001	<.001	0	1
CHROMIUM (CR) TOTAL	<.001	<.001	0	1
CHROMIUM (CR) DISS	<.001	<.001	0	1
COPPER (CU) TOTAL	<.001-.016	.0091	.0064	4
COPPER (CU) DISS	<.001	<.001	0	1
IRON (FE) TOTAL	.01-1.2	.264	.362	9
LEAD (PB) TOTAL	<.001-.003	.0012	.0012	4
LEAD (PB) DISS	<.001	<.001	0	1
MANGANESE (MN) TOTAL	.002-.04	.011	.012	9
MERCURY (HG) TOTAL	<.0002	<.0002	0	1
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI) DISS	<.001	<.001	0	2
SELENIUM (SE) TOTAL	<.001	<.001	0	1
SELENIUM (SE) DISS	<.001	<.001	0	1
SILVER (AG) TOTAL	<.001	<.001	0	1
SILVER (AG) DISS	<.001	<.001	0	1
ZINC (ZN) TOTAL	.002-.058	.021	.025	4
ZINC (ZN) DISS	.01	.01	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-27.4	8.41	12.9	4
PHENOLS	<.001-.512	.067	.18	8
OTHER PARAMETERS				
OIL AND GREASE	<.1-.6	.2	.268	4
CYANIDE (CN)	<.001-.007	.0021	.0032	4
SULFIDE	<.01	<.01	0	1

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IF THE RESULTING MEAN WAS BELOW THE RANGE THEN THE LOW RANGE VALUE WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S14-4 FOR THE PERIOD 06/29/81 TO 06/18/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-4-22	13.6	6.1	20
FLOW (CFS)	.0002-.05	.013	.015	20
WATER TEMPERATURE (C)	2-9	4.78	1.94	20
SPEC. COND. (UMHOS/CM) FIELD	116-435	335	94.84	20
PH FIELD	6.2-8.2	6.96	.657	18
TURBIDITY (NTU) FIELD	.48-12	5.19	3.28	18
TOTAL SUSP. SOLIDS	1-7	3.35	2.52	10
TOTAL DISS. SOLIDS MEAS.	98-278	186	62.38	10
OXYGEN (O) DISS	6-8.5	7.3	1.25	3
COMMON IONS				
TOTAL HARDNESS AS CACO3	170	170	0	1
CALCIUM (CA)	24.8-80.4	53.91	19.19	10
MAGNESIUM (MG)	1.9-19.2	6.98	4.86	10
SODIUM (NA)	1.8-18	4.47	4.9	10
POTASSIUM (K)	.34-1.54	.942	.351	10
CALCIUM (CA) TOTAL	59.7	59.7	0	1
MAGNESIUM (MG) TOTAL	5.5	5.5	0	1
SODIUM (NA) TOTAL	4	4	0	1
POTASSIUM (K) TOTAL	1.16	1.16	0	1
ACIDITY AS CACO3	3.5-23	9.5	9.08	4
ALKALINITY AS CACO3 (LAB)	154-198	186	21.2	4
BICARBONATE (HCO3) (LAB)	75.4-252.5	177	72.92	10
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	5-45	16.73	11.78	10
CHLORIDE (CL)	2-26	7.8	7.09	10
FLUORIDE (F)	.08-.16	.12	.037	4
CHLORIDE (CL) TOTAL	5.9	5.9	0	1
FLUORIDE (F) TOTAL	.14	.14	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.02-1.95	1.22	1.06	3
NITRITE (NO2-N)	.07	.07	0	1
AMMONIA (NH3 AS N)	<.01-.3	.072	.094	11
TOTAL PHOSPHATE (PO4)	<.01-.46	.124	.14	10
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ALUMINUM (AL) DISS	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001-.003	.0018	.0018	2
ARSENIC (AS) DISS	<.001	<.001	0	2
BARIUM (BA) TOTAL	.011-.02	.016	.0044	4
BARIUM (BA) DISS	.01-.012	.011	.0014	2

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IF THE RESULTING MEAN WAS BELOW THE RANGE THEN THE LOW RANGE VALUE WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S14-4 FOR THE PERIOD 06/29/81 TO 06/18/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) TOTAL	.01-.054	.023	.021	4
BORON (B) DISS	.005-.01	.0075	.0035	2
CADMIUM (CD) TOTAL	<.001	<.001	0	2
CADMIUM (CD) DISS	<.001	<.001	0	2
CHROMIUM (CR) TOTAL	<.001	<.001	0	2
CHROMIUM (CR) DISS	<.001	<.001	0	2
COPPER (CU) TOTAL	<.001-.014	.0086	.0057	4
COPPER (CU) DISS	<.001	<.001	0	2
IRON (FE) TOTAL	<.01-.27	.097	.085	12
LEAD (PB) TOTAL	<.001-.017	.0046	.0083	4
LEAD (PB) DISS	<.001	<.001	0	2
MANGANESE (MN) TOTAL	<.001-.02	.0067	.006	11
MERCURY (HG) TOTAL	<.0002	<.0002	0	2
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI) DISS	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	2
SELENIUM (SE) DISS	<.001	<.001	0	2
SILVER (AG) TOTAL	<.001	<.001	0	2
SILVER (AG) DISS	<.001	<.001	0	2
ZINC (ZN) TOTAL	.005-.05	.028	.024	4
ZINC (ZN) DISS	.007	.007	0	2
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2	<2	0	1
TOTAL COLIFORM (NO./100ML)	<2	<2	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-36	9.95	17.4	4
PHENOLS	<.001-.285	.054	.114	11
OTHER PARAMETERS				
OIL AND GREASE	<.1-2.6	1.29	1.4	4
CYANIDE (CN)	<.001	<.001	0	4
SULFIDE	<.01	<.01	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S15-3 FOR THE PERIOD 05/14/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	3-28	13.64	6.27	25
FLOW (CFS)	.01-3	.375	.744	24
WATER TEMPERATURE (C)	3-12	5.04	1.97	25
SPEC. COND. (UMHOS/CM) FIELD	97-400	270	80.01	25
PH FIELD	6.8-8.3	7.47	.463	21
TURBIDITY (NTU) FIELD	.49-28	8.7	7.53	21
TOTAL SUSP. SOLIDS	<.1-18	4.61	4.78	14
TOTAL DISS. SOLIDS MEAS.	88-258	175	56.63	14
OXYGEN (O) DISS	7.8-11.1	9.58	1.41	5
COMMON IONS				
TOTAL HARDNESS AS CACO3	760	760	0	1
CALCIUM (CA)	18-71	45.43	17.82	14
MAGNESIUM (MG)	3.36-11	7.24	2.81	14
SODIUM (NA)	1-37	7.85	9.08	14
POTASSIUM (K)	.07-1.85	.813	.495	14
CALCIUM (CA) TOTAL	24	24	0	1
MAGNESIUM (MG) TOTAL	3.84	3.84	0	1
SODIUM (NA) TOTAL	6.5	6.5	0	1
POTASSIUM (K) TOTAL	2.3	2.3	0	1
ACIDITY AS CACO3	1.82-15	6.77	5.39	6
ALKALINITY AS CACO3 (LAB)	76-184	162	38.71	7
BICARBONATE (HCO3) (LAB)	85.4-225	166	55.57	14
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	<3-46	15.82	12.35	14
CHLORIDE (CL)	<.1-25	4.82	6.81	14
FLUORIDE (F)	.08-.15	.117	.027	6
CHLORIDE (CL) TOTAL	2	2	0	1
FLUORIDE (F) TOTAL	.09	.09	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.02-.24	.142	.088	5
NITRITE (NO2-N)	.03	.03	0	1
AMMONIA (NH3 AS N)	<.01-.70	.199	.235	14
TOTAL PHOSPHATE (PO4)	<.01-.44	.121	.134	14
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.25	.25	0	1
ALUMINUM (AL) DISS	.2	.2	0	1
ARSENIC (AS) TOTAL	<.001-.002	.001	.0009	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.01-.09	.028	.031	6
BARIUM (BA) DISS	.005-.075	.03	.039	3

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S15-3 FOR THE PERIOD 05/14/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) TOTAL	.01-.054	.022	.018	6
BORON (B) DISS	.005-.01	.0067	.0029	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.023	.0092	.0083	6
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	.01-1.8	.228	.423	17
LEAD (PB) TOTAL	<.001-.016	.0036	.0061	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	<.001-.015	.0058	.0048	15
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI) DISS	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.002-.034	.01	.012	6
ZINC (ZN) DISS	.002-.055	.021	.03	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2	<2	.707	2
TOTAL COLIFORM (NO./100ML)	8-13	10.5	3.54	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-14.8	6.02	5.67	6
PHENOLS	<.001-.059	.009	.016	14
OTHER PARAMETERS				
OIL AND GREASE	<.01-1.2	.268	.462	6
CYANIDE (CN)	<.001-.004	.0011	.0014	6
SULFIDE	1.8	1.8	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S17-2 FOR THE PERIOD 01/27/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-23-25	7.38	10	47
FLOW (CFS)	.03-.33	.227	.068	46
WATER TEMPERATURE (C)	6-14	8.93	1.26	47
SPEC. COND. (UMHOS/CM) FIELD	335-696	542	83.37	47
PH FIELD	6.6-7.9	7.13	.352	45
TURBIDITY (NTU) FIELD	.3-14	4.5	3.69	38
TOTAL SUSP. SOLIDS	<.1-23	7.26	6.62	16
TOTAL DISS. SOLIDS MEAS.	315-460	362	45.79	16
OXYGEN (O) DISS	4.2-8.5	6.6	1.86	4
COMMON IONS				
TOTAL HARDNESS AS CACO3	302	302	0	1
CALCIUM (CA)	67.2-86	76.11	4.51	16
MAGNESIUM (MG)	25.92-45.6	31.01	4.42	16
SODIUM (NA)	2.9-46	10.89	13.99	16
POTASSIUM (K)	2.1-2.51	2.4	.11	16
ACIDITY AS CACO3	8-29	14.7	9.35	5
ALKALINITY AS CACO3 (LAB)	250-300	272	14.89	8
BICARBONATE (HCO3) (LAB)	303-405	334	26.32	16
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	16-68	52.16	13.23	16
CHLORIDE (CL)	3.1-45	9.01	10.27	16
FLUORIDE (F)	.14-.21	.173	.023	6
NUTRIENTS				
NITRATE (NO3-N)	<.01-.06	.02	.022	6
NITRITE (NO2-N)	<.01	<.01	0	1
AMMONIA (NH3 AS N)	<.01-2.48	.298	.604	16
TOTAL PHOSPHATE (PO4)	<.01-.33	.103	.095	16
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.036-.093	.069	.019	6
BARIUM (BA) DISS	.05-.065	.058	.0076	3
BORON (B) TOTAL	.015-.035	.027	.0082	6
BORON (B) DISS	.01-.02	.017	.0058	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.015	.0061	.0064	6

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S17-2 FOR THE PERIOD 01/27/81 TO 06/25/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
COPPER (CU) DISS	<.001	<.001	0	3
IRON (FE) TOTAL	.04-1.3	.774	.319	19
LEAD (PB) TOTAL	<.001-.005	.0018	.0019	6
LEAD (PB) DISS	<.001-.002	.001	.0009	3
MANGANESE (MN) TOTAL	.03-.07	.05	.013	16
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.001-.033	.012	.012	6
ZINC (ZN) DISS	.005-.006	.0053	.0006	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2	<2	0	2
TOTAL COLIFORM (NO./100ML)	2	2	.707	2
5 - DAY BOD	1.4	1.4	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-10	4.93	4.3	6
PHENOLS	<.001-.16	.013	.04	16
OTHER PARAMETERS				
OIL AND GREASE	<.01-.6	.16	.228	6
CYANIDE (CN)	<.001-.002	<.001	.0006	6

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S22-5 FOR THE PERIOD 05/14/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	3-26	13.86	5.76	22
FLOW (CFS)	.0004-.16	.044	.047	21
WATER TEMPERATURE (C)	3-14	4.93	2.32	22
SPEC. COND. (UMHOS/CM) FIELD	270-413	350	41.64	22
PH FIELD	6.1-8.4	7.44	.549	20
TURBIDITY (NTU) FIELD	.3-239	18.35	55.16	18
TOTAL SUSP. SOLIDS	<.1-16	3.79	4.13	14
TOTAL DISS. SOLIDS MEAS.	175-330	230	45.9	14
OXYGEN (O) DISS	2.2-11.4	8.38	3.58	5
COMMON IONS				
TOTAL HARDNESS AS CACO3	166	166	0	1
CALCIUM (CA)	47.2-88.4	64.08	10.11	14
MAGNESIUM (MG)	<.1-13.2	7.79	3.12	14
SODIUM (NA)	1.2-46	8.97	12.33	14
POTASSIUM (K)	.28-1.23	.647	.234	14
CALCIUM (CA) TOTAL	57.6	57.6	0	1
MAGNESIUM (MG) TOTAL	5.28	5.28	0	1
SODIUM (NA) TOTAL	3.6	3.6	0	1
POTASSIUM (K) TOTAL	1.65	1.65	0	1
ACIDITY AS CACO3	<.01-22	7.03	7.71	6
ALKALINITY AS CACO3 (LAB)	154-290	205	42.09	7
BICARBONATE (HCO3) (LAB)	166-353.8	233	49.08	14
CARBONATE AS CO3 (LAB)	2.4	2.4	0	1
SULFATE (SO4)	<3-25	13.11	7.47	14
CHLORIDE (CL)	1.6-14.3	4.98	3.56	14
FLUORIDE (F)	.08-.17	.133	.031	6
CHLORIDE (CL) TOTAL	4	4	0	1
FLUORIDE (F) TOTAL	.14	.14	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.02-1.63	.902	.723	5
NITRITE (NO2-N)	.03	.03	0	1
AMMONIA (NH3 AS N)	<.01-.63	.163	.179	14
TOTAL PHOSPHATE (PO4)	<.01-.82	.154	.207	14
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.065	.065	0	1
ALUMINUM (AL) DISS	.02	.02	0	1
ARSENIC (AS) TOTAL	<.001-.002	.001	.0009	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.018-.03	.022	.0045	6
BARIUM (BA) DISS	.013-.02	.016	.0036	3

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S22-5 FOR THE PERIOD 05/14/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) TOTAL	<.001-.057	.021	.019	6
BORON (B) DISS	<.001-.01	.0052	.0048	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.02	.011	.0064	6
COPPER (CU) DISS	<.001-.01	.0068	.0055	3
IRON (FE) TOTAL	<.01-1.45	.138	.341	17
LEAD (PB) TOTAL	<.001-.005	.0022	.0019	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	<.001-.02	.0057	.0052	15
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI) DISS	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.001-.06	.028	.026	6
ZINC (ZN) DISS	.003-.055	.033	.027	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2	<2	0	2
TOTAL COLIFORM (NO./100ML)	2-130	66	90.51	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-5.3	3.21	2.29	6
PHENOLS	<.001-.482	.038	.128	14
OTHER PARAMETERS				
OIL AND GREASE	<.1-20.6	3.69	8.29	6
CYANIDE (CN)	<.001	<.001	0	6
SULFIDE	2.2	2.2	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S22-11 FOR THE PERIOD 06/29/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-1-22	12.15	6.65	20
FLOW (CFS)	.001-.14	.047	.034	20
WATER TEMPERATURE (C)	2-5	3.65	.671	20
SPEC. COND. (UMHOS/CM) FIELD	290-394	354	30.2	20
PH FIELD	6-8.5	7.38	.593	19
TURBIDITY (NTU) FIELD	.27-12	5.08	4.01	18
TOTAL SUSP. SOLIDS	1-12	3.81	3.47	13
TOTAL DISS. SOLIDS MEAS.	186-240	220	16.74	13
OXYGEN (O) DISS	4.6-13	9.32	3.04	5
COMMON IONS				
TOTAL HARDNESS AS CACO3	186	186	0	1
CALCIUM (CA)	60-68	63.03	2.6	13
MAGNESIUM (MG)	7.2-15.6	9.29	2.11	13
SODIUM (NA)	2.2-15	6.98	4.58	13
POTASSIUM (K)	.68-2.11	.915	.375	13
CALCIUM (CA) TOTAL	63.8	63.8	0	1
MAGNESIUM (MG) TOTAL	8.65	8.65	0	1
SODIUM (NA) TOTAL	3.5	3.5	0	1
POTASSIUM (K) TOTAL	.99	.99	0	1
ACIDITY AS CACO3	2.7-20	8.82	6.28	6
ALKALINITY AS CACO3 (LAB)	184-210	196	9.42	6
BICARBONATE (HCO3) (LAB)	210-266	235	15.62	13
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	<3-36	11.69	8.94	13
CHLORIDE (CL)	1.3-20	5.7	5.36	13
FLUORIDE (F)	.09-.18	.14	.036	6
CHLORIDE (CL) TOTAL	4.4	4.4	0	1
FLUORIDE (F) TOTAL	.16	.16	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.02-4.1	1.16	1.68	5
NITRITE (NO2-N)	.04	.04	0	1
AMMONIA (NH3 AS N)	<.01-.65	.209	.19	13
TOTAL PHOSPHATE (PO4)	<.01-.85	.242	.275	13
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ALUMINUM (AL) DISS	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001-.002	.001	.0009	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.01-.038	.021	.0096	6
BARIUM (BA) DISS	.014-.015	.015	.0006	3

ALL QUANTITIES IN MILLIGRAMS PER LITER UNLESS OTHERWISE NOTED.
FOR VALUES BELOW THE DETECTION LIMIT, ONE HALF THE DETECTION LIMIT WAS USED IN THE STATISTICAL ANALYSIS.
IF THE RESULTING MEAN WAS BELOW THE RANGE THEN THE LOW RANGE VALUE WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S22-11 FOR THE PERIOD 06/29/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) TOTAL	.01-.032	.022	.0095	6
BORON (B) DISS	.005-.02	.013	.0076	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.02	.012	.0074	5
COPPER (CU) DISS	<.001-.01	.0037	.0055	3
IRON (FE) TOTAL	<.01-.1	.04	.032	16
LEAD (PB) TOTAL	<.001-.003	.001	.001	6
LEAD (PB) DISS	<.001-.004	.0017	.002	3
MANGANESE (MN) TOTAL	<.001-.02	.0073	.0062	14
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI) DISS	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	.001	.001	.0003	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.002-.185	.043	.071	6
ZINC (ZN) DISS	.005-.04	.018	.019	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2	<2	0	2
TOTAL COLIFORM (NO./100ML)	2-17	9.5	10.61	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-26.4	7.54	9.95	6
PHENOLS	<.001-.05	.0054	.014	13
OTHER PARAMETERS				
OIL AND GREASE	<.1-1.4	.458	.504	6
CYANIDE (CN)	<.001-.011	.0023	.0043	6
SULFIDE	<.01	<.01	0	1

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IF THE RESULTING MEAN WAS BELOW THE RANGE THEN THE LOW RANGE VALUE WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S23-4 FOR THE PERIOD 06/29/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	8-24	16.35	5.98	17
WATER TEMPERATURE (C)	5-25	11.53	5.36	17
SPEC. COND. (UMHOS/CM) FIELD	345-516	434	59.13	17
PH FIELD	6.5-8	7.06	.438	16
TURBIDITY (NTU) FIELD	1-83	25.61	28.11	14
TOTAL SUSP. SOLIDS	2.3-1406	305	450	10
TOTAL DISS. SOLIDS MEAS.	222-310	263	28.74	10
OXYGEN (O) DISS	3-9.1	6.43	3.12	3
COMMON IONS				
TOTAL HARDNESS AS CACO3	216	216	0	1
CALCIUM (CA)	48-84	71.99	11.49	10
MAGNESIUM (MG)	8.4-23.04	14.69	4.72	10
SODIUM (NA)	2-10	6.18	3.46	10
POTASSIUM (K)	.32-1.43	.926	.387	10
CALCIUM (CA) TOTAL	48.5	48.5	0	1
MAGNESIUM (MG) TOTAL	24.2	24.2	0	1
SODIUM (NA) TOTAL	17	17	0	1
POTASSIUM (K) TOTAL	.45	.45	0	1
ACIDITY AS CACO3	1.6-19	8.86	6.31	5
ALKALINITY AS CACO3 (LAB)	238-285	262	21.66	5
BICARBONATE (HCO3) (LAB)	227-347.7	294	39.06	10
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	<3-30	11.18	8.1	10
CHLORIDE (CL)	1.2-13.5	5.11	3.94	10
FLUORIDE (F)	.12-.23	.172	.05	5
CHLORIDE (CL) TOTAL	3.4	3.4	0	1
FLUORIDE (F) TOTAL	.22	.22	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.02-.66	.288	.242	5
NITRITE (NO2-N)	.04	.04	0	1
AMMONIA (NH3 AS N)	<.01-.4	.156	.148	10
TOTAL PHOSPHATE (PO4)	.02-.70	.187	.202	10
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.05	.05	0	1
ALUMINUM (AL) DISS	.04	.04	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	2
ARSENIC (AS) DISS	<.001	<.001	0	2
BARIUM (BA) TOTAL	.03-.07	.043	.016	5
BARIUM (BA) DISS	.025	.025	0	2
BORON (B) TOTAL	.01-.059	.033	.018	5

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IF THE RESULTING MEAN WAS BELOW THE RANGE THEN THE LOW RANGE VALUE WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S23-4 FOR THE PERIOD 06/29/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) DISS	.012-.03	.021	.013	2
CADMIUM (CD) TOTAL	<.001	<.001	0	2
CADMIUM (CD) DISS	<.001	<.001	0	2
CHROMIUM (CR) TOTAL	<.001	<.001	0	2
CHROMIUM (CR) DISS	<.001	<.001	0	2
COPPER (CU) TOTAL	<.001-.03	.015	.011	5
COPPER (CU) DISS	<.001	<.001	0	2
IRON (FE) TOTAL	.02-7.5	1.59	2.14	12
LEAD (PB) TOTAL	<.001-.009	.0034	.0035	5
LEAD (PB) DISS	<.001	<.001	0	2
MANGANESE (MN) TOTAL	<.01-.15	.055	.052	11
MERCURY (HG) TOTAL	<.0002	<.0002	0	2
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI)	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	2
SELENIUM (SE) DISS	<.001	<.001	0	2
SILVER (AG) TOTAL	<.001	<.001	0	2
SILVER (AG) DISS	<.001	<.001	0	2
ZINC (ZN) TOTAL	.01-.055	.025	.021	5
ZINC (ZN) DISS	.005	.005	0	2
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	23	23	0	1
TOTAL COLIFORM (NO./100ML)	2300	2300	0	1
5 - DAY BOD	1.9	1.9	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	.88-19.8	10.2	9.05	5
PHENOLS	<.001-.269	.028	.085	10
OTHER PARAMETERS				
OIL AND GREASE	<.1-1.2	.39	.472	5
CYANIDE (CN)	<.001-.009	.0025	.0037	5
SULFIDE	<.01	<.01	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S24-12 FOR THE PERIOD 05/14/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-1-21	11.48	6.58	20
FLOW (CFS)	.001-.005	.0024	.0011	20
WATER TEMPERATURE (C)	3-13	6.53	2.75	20
SPEC. COND. (UMHOS/CM) FIELD	1.38-728	517	149	20
PH FIELD	7.2-8.1	7.63	.245	19
TURBIDITY (NTU) FIELD	.34-65	12.26	16.17	19
TOTAL SUSP. SOLIDS	<.1-83	23.96	28.13	12
TOTAL DISS. SOLIDS MEAS.	296-438	356	42.64	12
OXYGEN (O) DISS	4.4-10	7.84	2.14	5
COMMON IONS				
TOTAL HARDNESS AS CACO3	218	218	0	1
CALCIUM (CA)	46.8-88	76.68	11.3	12
MAGNESIUM (MG)	21.6-47.3	30.78	7.23	12
SODIUM (NA)	2-25.6	7.02	7.34	12
POTASSIUM (K)	.5-2.04	1.6	.398	12
CALCIUM (CA) TOTAL	47.2	47.2	0	1
MAGNESIUM (MG) TOTAL	24	24	0	1
SODIUM (NA) TOTAL	38	38	0	1
POTASSIUM (K) TOTAL	1.7	1.7	0	1
ACIDITY AS CACO3	<.01-21	7.67	7.76	6
ALKALINITY AS CACO3 (LAB)	274-310	290	13.71	6
BICARBONATE (HCO3) (LAB)	287.9-373	343	23.07	12
CARBONATE AS CO3 (LAB)	12	12	0	1
SULFATE (SO4)	12-80	44.58	21.87	12
CHLORIDE (CL)	.6-30	7.46	8.49	12
FLUORIDE (F)	.14-.24	.172	.035	6
CHLORIDE (CL) TOTAL	4	4	0	1
FLUORIDE (F) TOTAL	.18	.18	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.01-.11	.036	.04	6
NITRITE (NO2-N)	.02	.02	0	1
AMMONIA (NH3 AS N)	<.01-.6	.153	.196	12
TOTAL PHOSPHATE (PO4)	<.01-.28	.09	.091	12
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ALUMINUM (AL) DISS	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.053-.066	.061	.0049	6
BARIUM (BA) DISS	.04-.055	.048	.0076	3

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IF THE RESULTING MEAN WAS BELOW THE RANGE THEN THE LOW RANGE VALUE
WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S24-12 FOR THE PERIOD 05/14/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) TOTAL	.012-.04	.03	.012	6
BORON (B) DISS	.006-.035	.024	.016	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.02	.011	.0066	6
COPPER (CU) DISS	<.001-.011	.0072	.0058	3
IRON (FE) TOTAL	<.01-.85	.165	.243	15
LEAD (PB) TOTAL	<.001-.006	.0021	.0024	6
LEAD (PB) DISS	<.001-.002	.001	.0009	3
MANGANESE (MN) TOTAL	.005-.03	.013	.0086	13
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI)	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.001-.02	.0096	.0082	5
ZINC (ZN) DISS	.01-.012	.011	.0012	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2	<2	0	2
TOTAL COLIFORM (NO./100ML)	7-14	10.5	4.95	2
5 - DAY BOD	2	2	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-12.2	4.05	4.79	6
PHENOLS	<.001-.008	.0017	.0027	12
OTHER PARAMETERS				
OIL AND GREASE	<.01-2	.817	.885	6
CYANIDE (CN)	<.001-.015	.0036	.0058	6
SULFIDE	2.2	2.2	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S26-13 FOR THE PERIOD 06/29/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	3-22	15.42	4.89	19
FLOW (CFS)	.0005-.02	.0051	.0059	19
WATER TEMPERATURE (C)	2-14	5.55	2.55	19
SPEC. COND. (UMHOS/CM) FIELD	194-418	339	74.44	19
PH FIELD	6-8	6.88	.615	17
TURBIDITY (NTU) FIELD	.3-11.5	5.01	3.48	17
TOTAL SUSP. SOLIDS	1-11	4.09	3.27	11
TOTAL DISS. SOLIDS MEAS.	115-275	212	48.05	11
OXYGEN (O) DISS	1.9-6.7	5.15	2.22	4
COMMON IONS				
TOTAL HARDNESS AS CACO3	174	174	0	1
CALCIUM (CA)	32.8-73.2	58.14	15.52	11
MAGNESIUM (MG)	1.92-28.8	9.24	7.2	11
SODIUM (NA)	2.4-22	6.2	7.37	11
POTASSIUM (K)	.8-4.5	2.69	1.36	11
CALCIUM (CA) TOTAL	61	61	0	1
MAGNESIUM (MG) TOTAL	7.1	7.1	0	1
SODIUM (NA) TOTAL	2.7	2.7	0	1
POTASSIUM (K) TOTAL	.35	.35	0	1
ACIDITY AS CACO3	2.8-20	10	6.26	5
ALKALINITY AS CACO3 (LAB)	158-237	201	31.19	5
BICARBONATE (HCO3) (LAB)	105-289	200	67.69	11
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	<3-114	23.45	31.54	11
CHLORIDE (CL)	2.3-20	7.5	6.21	11
FLUORIDE (F)	.12-.18	.15	.025	5
CHLORIDE (CL) TOTAL	5.9	5.9	0	1
FLUORIDE (F) TOTAL	.17	.17	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.02-2.9	1.49	1.2	4
NITRITE (NO2-N)	.06	.06	0	1
AMMONIA (NH3 AS N)	<.01-.35	.108	.118	11
TOTAL PHOSPHATE (PO4)	<.01-.42	.159	.122	11
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ALUMINUM (AL) DISS	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001-.002	.0013	.0011	2
ARSENIC (AS) DISS	<.001	<.001	0	2
BARIUM (BA) TOTAL	.025-.04	.032	.0059	5
BARIUM (BA) DISS	.025	.025	0	2

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S26-13 FOR THE PERIOD 06/29/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) TOTAL	.014-.04	.022	.011	5
BORON (B) DISS	.01	.01	0	2
CADMIUM (CD) TOTAL	<.001	<.001	0	2
CADMIUM (CD) DISS	<.001	<.001	0	2
CHROMIUM (CR) TOTAL	<.001	<.001	0	2
CHROMIUM (CR) DISS	<.001	<.001	0	2
COPPER (CU) TOTAL	<.001-.019	.008	.0078	5
COPPER (CU) DISS	<.001	<.001	0	2
IRON (FE) TOTAL	.01-.27	.091	.081	13
LEAD (PB) TOTAL	<.001-.023	.005	.01	5
LEAD (PB) DISS	<.001	<.001	0	2
MANGANESE (MN) TOTAL	.001-.02	.0077	.0063	12
MERCURY (HG) TOTAL	<.0002	<.0002	0	2
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI)	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	2
SELENIUM (SE) DISS	<.001	<.001	0	2
SILVER (AG) TOTAL	<.001	<.001	0	2
SILVER (AG) DISS	<.001	<.001	0	2
ZINC (ZN) TOTAL	.002-.031	.01	.012	5
ZINC (ZN) DISS	.005-.007	.006	.0014	2
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	17	17	0	1
TOTAL COLIFORM (NO./100ML)	70	70	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-38.2	10.5	15.82	5
PHENOLS	<.001-.042	.005	.012	11
OTHER PARAMETERS				
OIL AND GREASE	<.1-1.6	.79	.77	5
CYANIDE (CN)	<.001-.004	.0012	.0016	5
SULFIDE	<.01	<.01	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S34-12 FOR THE PERIOD 05/14/81 TO 11/10/81

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	6-16	12	4.32	4
FLOW (CFS)	.01-.03	.017	.0096	4
WATER TEMPERATURE (C)	4-6	5	.816	4
SPEC. COND. (UMHOS/CM) FIELD	330-400	365	28.87	4
PH FIELD	7.7-8	7.87	.153	3
TURBIDITY (NTU) FIELD	.16-.44	.29	.141	3
TOTAL SUSP. SOLIDS	2-13	6.67	5.69	3
TOTAL DISS. SOLIDS MEAS.	215-244	231	14.84	3
OXYGEN (O) DISS	9.6-10	9.8	.283	2
COMMON IONS				
TOTAL HARDNESS AS CACO3	200	200	0	1
CALCIUM (CA)	59.2-67	63.4	3.93	3
MAGNESIUM (MG)	11.8-16.32	13.71	2.34	3
SODIUM (NA)	2.5-4.5	3.2	1.13	3
CALCIUM (CA) TOTAL	60	60	0	1
MAGNESIUM (MG) TOTAL	12	12	0	1
SODIUM (NA) TOTAL	4.9	4.9	0	1
POTASSIUM (K) TOTAL	.8-1.5	1.26	.401	3
ACIDITY AS CACO3	<.01-8	4.47	4.08	3
ALKALINITY AS CACO3 (LAB)	194-209	200	7.77	3
BICARBONATE (HCO3) (LAB)	226.92-255	241	14.05	3
CARBONATE AS CO3 (LAB)	4.8	4.8	0	1
SULFATE (SO4)	12.5-27	19.17	7.32	3
CHLORIDE (CL)	2.99-3.1	3.03	.061	3
FLUORIDE (F)	.13-.19	.157	.031	3
CHLORIDE (CL) TOTAL	4	4	0	1
FLUORIDE (F) TOTAL	.15	.15	0	1
NUTRIENTS				
NITRATE (NO3-N)	1.22-1.97	1.58	.376	3
NITRITE (NO2-N)	.02	.02	0	1
AMMONIA (NH3 AS N)	<.01-28.3	9.44	16.34	3
TOTAL PHOSPHATE (PO4)	.12-.44	.257	.165	3
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	.05	.05	0	1
ALUMINUM (AL) DISS	.03	.03	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.02-.03	.025	.005	3
BARIUM (BA) DISS	.015-.02	.018	.0029	3
BORON (B) TOTAL	.015-.02	.018	.0029	3

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S34-12 FOR THE PERIOD 05/14/81 TO 11/10/81

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) DISS	.002-.01	.0073	.0046	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001-.002	.001	.0009	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	.013-.03	.021	.0085	3
COPPER (CU) DISS	<.001-.01	.0068	.0055	3
IRON (FE) TOTAL	<.001-.07	.028	.025	6
LEAD (PB) TOTAL	<.001-.007	.0032	.0034	3
LEAD (PB) DISS	<.001-.005	.002	.0026	3
MANGANESE (MN) TOTAL	<.001-.07	.022	.032	4
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI) DISS	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.065-.09	.073	.014	3
ZINC (ZN) DISS	.004-.04	.016	.021	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2	<2	0	2
TOTAL COLIFORM (NO./100ML)	<2-5	3	2.83	2
5 - DAY BOD	1.6	1.6	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	2-8.1	5.1	3.05	3
PHENOLS	<.001-.482	.162	.277	3
OTHER PARAMETERS				
OIL AND GREASE	.2-1.4	.933	.643	3
CYANIDE (CN)	.001-.002	.0015	.0007	2
SULFIDE	1.8	1.8	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S35-8 FOR THE PERIOD 05/14/81 TO 06/24/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	2-21	13.05	5.4	20
FLOW (CFS)	.01-.27	.07	.086	20
WATER TEMPERATURE (C)	2-7	3.7	1.03	20
SPEC. COND. (UMHOS/CM) FIELD	221-470	373	59.91	20
PH FIELD	6.9-8.1	7.52	.346	19
TURBIDITY (NTU) FIELD	.16-11	4.66	3.6	19
TOTAL SUSP. SOLIDS	<.1-13	4.6	4.55	13
TOTAL DISS. SOLIDS MEAS.	178-285	228	31.7	13
OXYGEN (O) DISS	7.6-13.2	10.6	2.53	5
COMMON IONS				
TOTAL HARDNESS AS CACO3	210	210	0	1
CALCIUM (CA)	47.2-75.2	65.63	8.4	13
MAGNESIUM (MG)	5.28-15.6	11.12	3.14	13
SODIUM (NA)	2.4-16	6.24	4.17	13
POTASSIUM (K)	.4-1.35	.776	.245	13
CALCIUM (CA) TOTAL	64	64	0	1
MAGNESIUM (MG) TOTAL	12	12	0	1
SODIUM (NA) TOTAL	10.5	10.5	0	1
POTASSIUM (K) TOTAL	1.33	1.33	0	1
ACIDITY AS CACO3	<.01-15	5.68	5.07	6
ALKALINITY AS CACO3 (LAB)	210-240	223	10.27	6
BICARBONATE (HCO3) (LAB)	176-292.8	248	37.98	13
CARBONATE AS CO3 (LAB)	9.6	9.6	0	1
SULFATE (SO4)	<3-30	13.47	7.82	13
CHLORIDE (CL)	.2-17.3	5.29	5.17	13
FLUORIDE (F)	.08-.19	.125	.038	6
CHLORIDE (CL) TOTAL	5	5	0	1
FLUORIDE (F) TOTAL	.14	.14	0	1
NUTRIENTS				
NITRATE (NO3-N)	.01-.11	.041	.041	6
NITRITE (NO2-N)	.01	.01	0	1
AMMONIA (NH3 AS N)	<.01-.5	.173	.166	13
TOTAL PHOSPHATE (PO4)	<.01-.24	.093	.069	13
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ALUMINUM (AL) DISS	.02	.02	0	1
ARSENIC (AS) TOTAL	<.001	<.001	0	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.021-.038	.031	.0056	6
BARIUM (BA) DISS	.015-.025	.02	.005	3

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WAS USED FOR THE MEAN.
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S35-8 FOR THE PERIOD 05/14/81 TO 06/24/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) TOTAL	.016-.035	.021	.007	6
BORON (B) DISS	.01-.015	.012	.0029	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.05	.014	.019	6
COPPER (CU) DISS	<.001-.01	.0037	.0055	3
IRON (FE) TOTAL	.009-.12	.059	.035	16
LEAD (PB) TOTAL	<.001-.002	.0011	.0007	6
LEAD (PB) DISS	<.001-.002	.001	.0009	3
MANGANESE (MN) TOTAL	.0002-.02	.004	.0058	14
MERCURY (HG) TOTAL	<.0002	<.0002	0	3
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI)	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.001-.039	.018	.016	6
ZINC (ZN) DISS	.01	.01	0	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2-8	4.5	4.95	2
TOTAL COLIFORM (NO./100ML)	2-8	5	4.24	2
5 - DAY BOD	1	1	0	1
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-6.9	3.25	2.64	6
PHENOLS	<.001-.016	.0027	.0053	13
OTHER PARAMETERS				
OIL AND GREASE	<.1-1	.525	.456	6
CYANIDE (CN)	<.001-.046	.0088	.018	6
SULFIDE	1.8	1.8	0	1

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S36-12 FOR THE PERIOD 05/15/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
PHYSICAL PARAMETERS				
AIR TEMPERATURE (C)	-3-19	12.19	5.96	21
FLOW (CFS)	.01-.02	.012	.004	21
WATER TEMPERATURE (C)	3-6	4.12	.805	21
SPEC. COND. (UMHOS/CM) FIELD	269-423	361	46.1	21
PH FIELD	6.4-8.1	7.14	.51	19
TURBIDITY (NTU) FIELD	.58-12.5	4.32	3.14	19
TOTAL SUSP. SOLIDS	<.1-15	4.2	4.08	13
TOTAL DISS. SOLIDS MEAS.	164-290	229	40.08	13
OXYGEN (O) DISS	5.4-10.2	7.26	1.8	5
COMMON IONS				
TOTAL HARDNESS AS CACO3	172	172	0	1
CALCIUM (CA)	47.2-78	65.72	10.65	13
MAGNESIUM (MG)	2.4-34.8	9.94	7.98	13
SODIUM (NA)	.90-35	7.79	9.37	13
POTASSIUM (K)	.39-1.1	.532	.199	13
CALCIUM (CA) TOTAL	64	64	0	1
MAGNESIUM (MG) TOTAL	7.2	7.2	0	1
SODIUM (NA) TOTAL	2.85	2.85	0	1
POTASSIUM (K) TOTAL	1.6	1.6	0	1
ACIDITY AS CACO3	2.73-18	9.7	6.69	6
ALKALINITY AS CACO3 (LAB)	168-225	212	21.76	6
BICARBONATE (HCO3) (LAB)	173.2-285.5	238	40.71	12
CARBONATE AS CO3 (LAB)	<.01	<.01	0	1
SULFATE (SO4)	3-102	17.21	26.44	13
CHLORIDE (CL)	.6-20	4.45	5.66	13
FLUORIDE (F)	.07-.15	.113	.027	6
CHLORIDE (CL) TOTAL	2	2	0	1
FLUORIDE (F) TOTAL	.12	.12	0	1
NUTRIENTS				
NITRATE (NO3-N)	<.02-.44	.264	.166	5
NITRITE (NO2-N)	.04	.04	0	1
AMMONIA (NH3 AS N)	<.01-1.75	.318	.469	13
TOTAL PHOSPHATE (PO4)	<.01-.18	.088	.068	13
TRACE ELEMENTS				
ALUMINUM (AL) TOTAL	<.001	<.001	0	1
ALUMINUM (AL) DISS	<.001	<.001	0	1
ARSENIC (AS) TOTAL	<.001-.002	.001	.0009	3
ARSENIC (AS) DISS	<.001	<.001	0	3
BARIUM (BA) TOTAL	.009-.029	.017	.0073	6
BARIUM (BA) DISS	.005-.01	.0083	.0029	3

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OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1

STATISTICAL SUMMARY OF WATER QUALITY ANALYSIS
FOR SITE S36-12 FOR THE PERIOD 05/15/81 TO 06/19/86

	RANGE	MEAN	STANDARD DEVIATION	NUMBER OF SAMPLES
TRACE ELEMENTS				
BORON (B) TOTAL	.009-.038	.021	.01	6
BORON (B) DISS	<.001-.011	.0055	.0053	3
CADMIUM (CD) TOTAL	<.001	<.001	0	3
CADMIUM (CD) DISS	<.001	<.001	0	3
CHROMIUM (CR) TOTAL	<.001	<.001	0	3
CHROMIUM (CR) DISS	<.001	<.001	0	3
COPPER (CU) TOTAL	<.001-.019	.0083	.007	6
COPPER (CU) DISS	<.001-.01	.0037	.0055	3
IRON (FE) TOTAL	<.01-.90	.107	.215	16
LEAD (PB) TOTAL	<.001-.004	.0016	.0015	6
LEAD (PB) DISS	<.001	<.001	0	3
MANGANESE (MN) TOTAL	.001-<.01	.0043	.0035	14
MERCURY (HG) TOTAL	<.0002-.0004	.0002	.0002	3
MERCURY (HG) DISS	<.0002	<.0002	0	1
MOLYBDENUM (MO) TOTAL	<.001	<.001	0	1
MOLYBDENUM (MO) DISS	<.001	<.001	0	1
NICKEL (NI) TOTAL	<.001	<.001	0	1
NICKEL (NI)	<.001	<.001	0	1
SELENIUM (SE) TOTAL	<.001	<.001	0	3
SELENIUM (SE) DISS	<.001	<.001	0	3
SILVER (AG) TOTAL	<.001	<.001	0	3
SILVER (AG) DISS	<.001	<.001	0	3
ZINC (ZN) TOTAL	.002-.067	.031	.03	6
ZINC (ZN) DISS	.005-.01	.0083	.0029	3
BACTERIOLOGICAL PARAMETERS				
FECAL COLIFORM (NO./100ML)	<2	<2	0	2
TOTAL COLIFORM (NO./100ML)	<2	<2	0	2
ORGANIC PARAMETERS				
ORGANIC CARBON (TOTAL)	<.01-24	8.12	9.25	6
PHENOLS	<.001-.11	.012	.03	13
OTHER PARAMETERS				
OIL AND GREASE	<.01-66.8	11.53	27.09	6
CYANIDE (CN)	<.001-.008	.0018	.0031	6
SULFIDE	.92	.92	0	1

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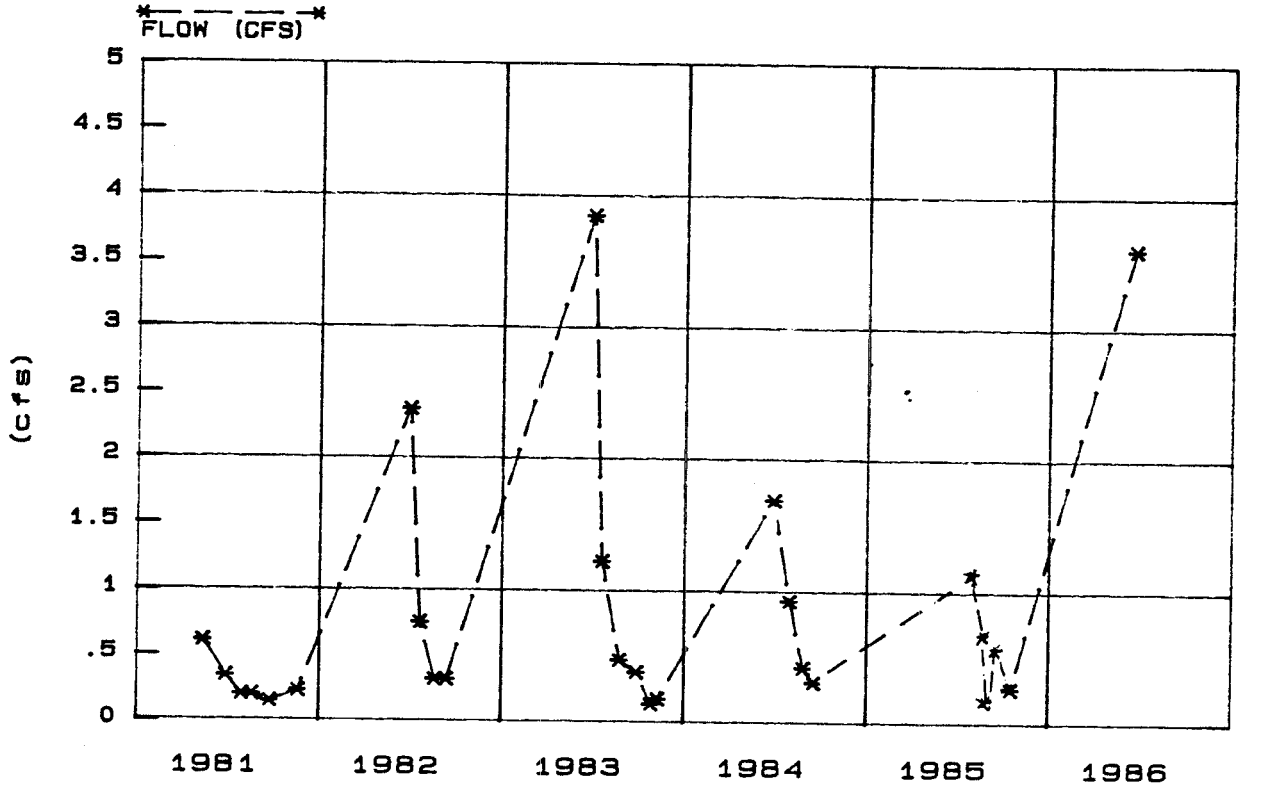
OUTPUT DATE: 02-10-1987 HWQ-6/86-R.ST.1



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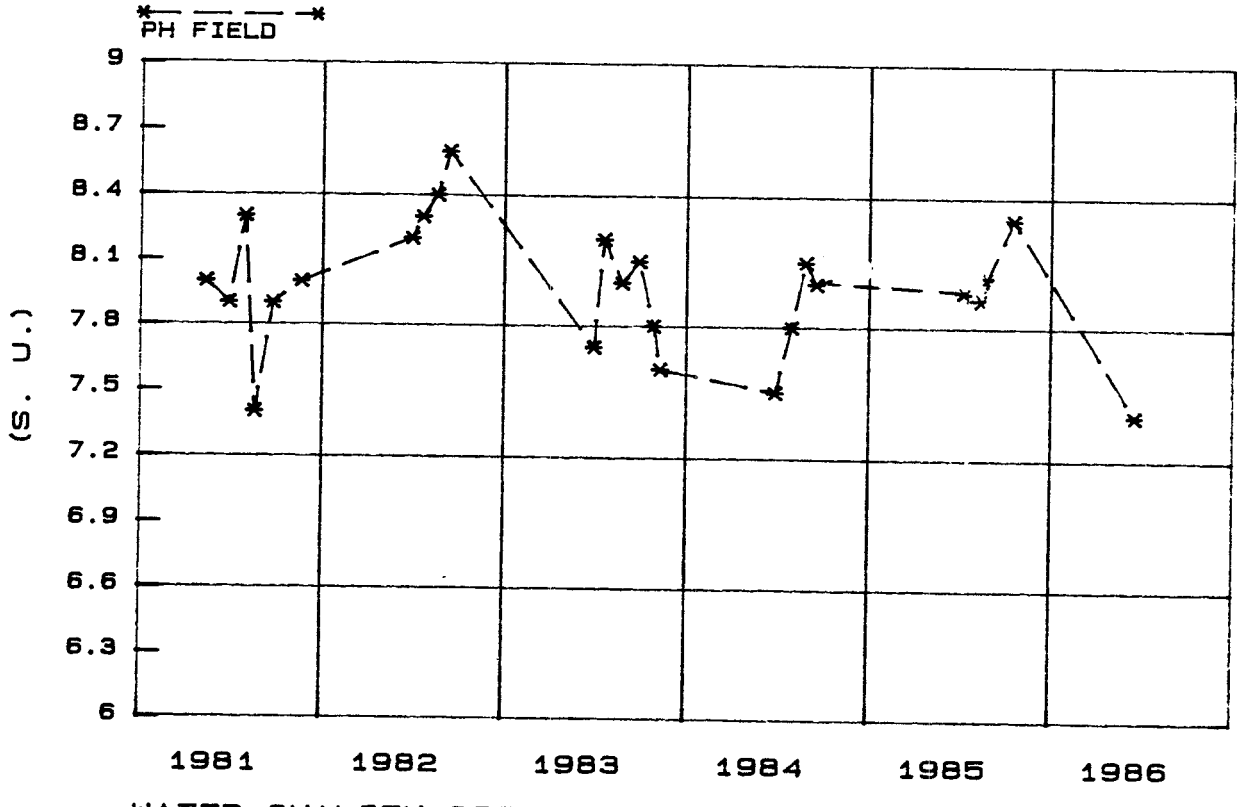

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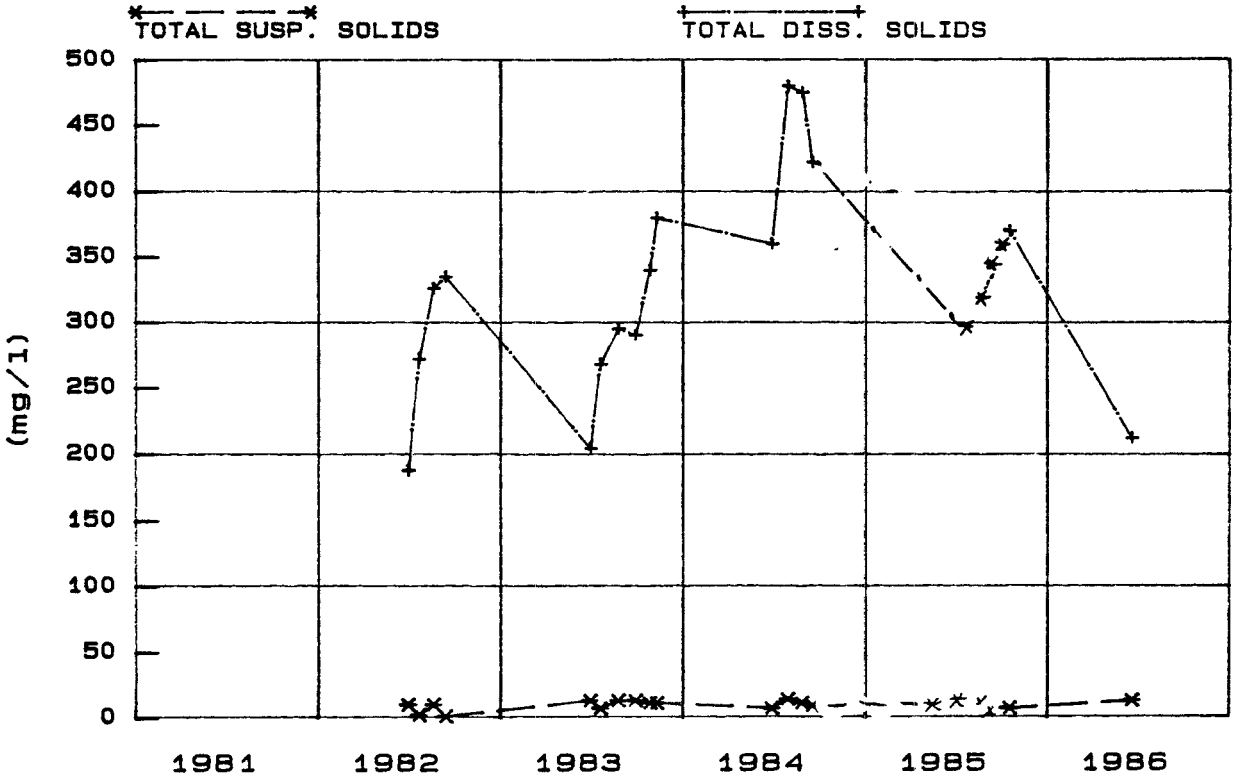

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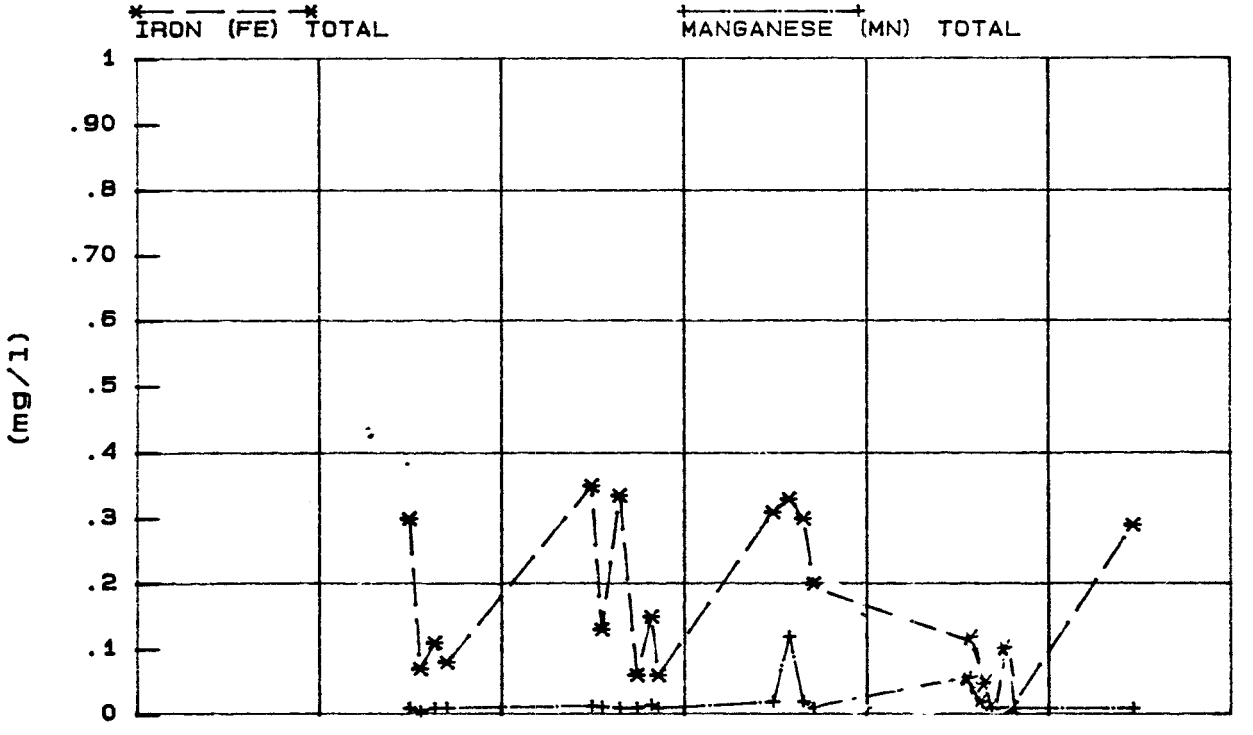

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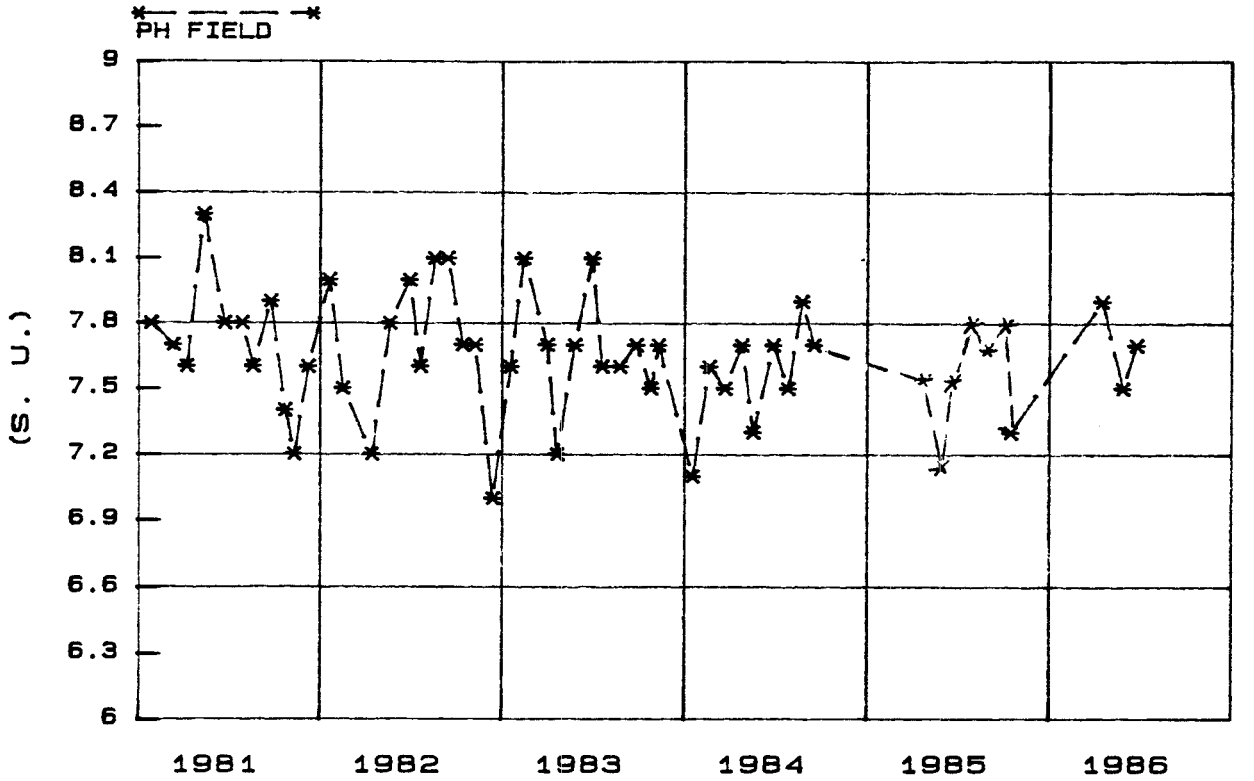

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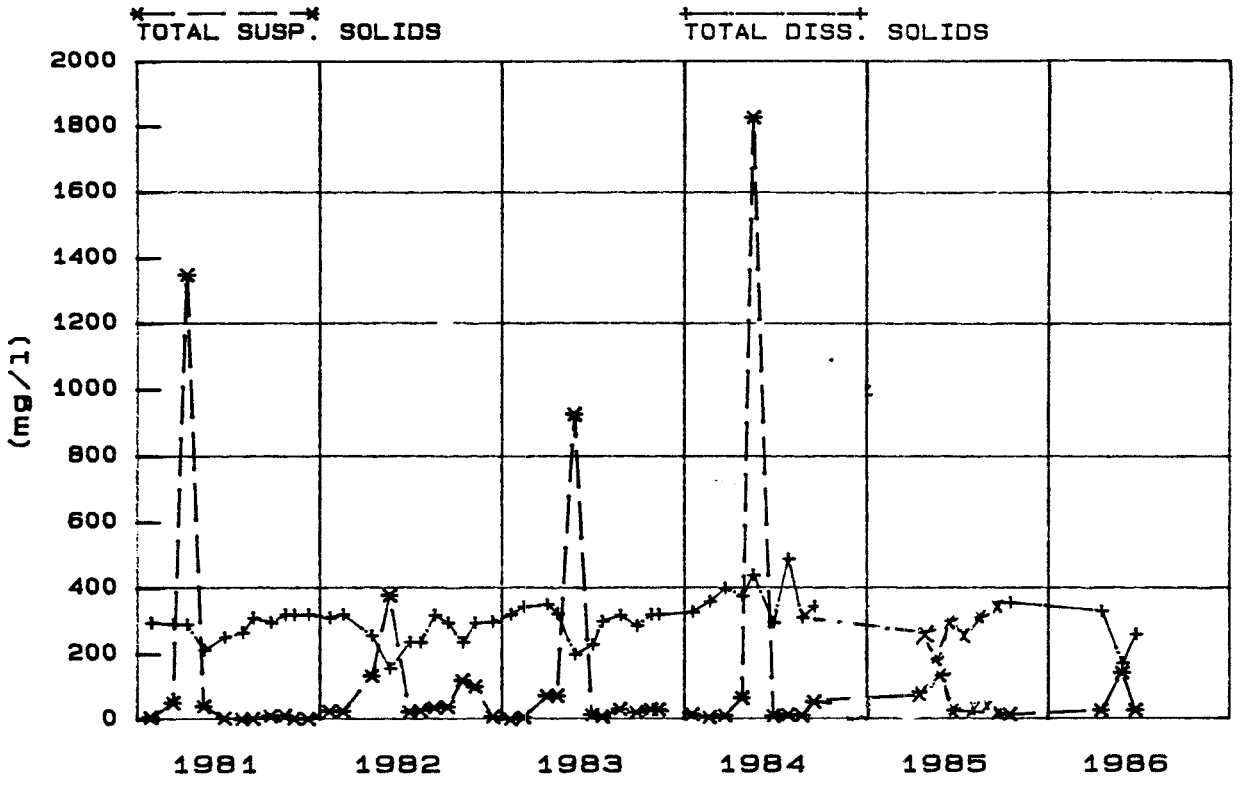

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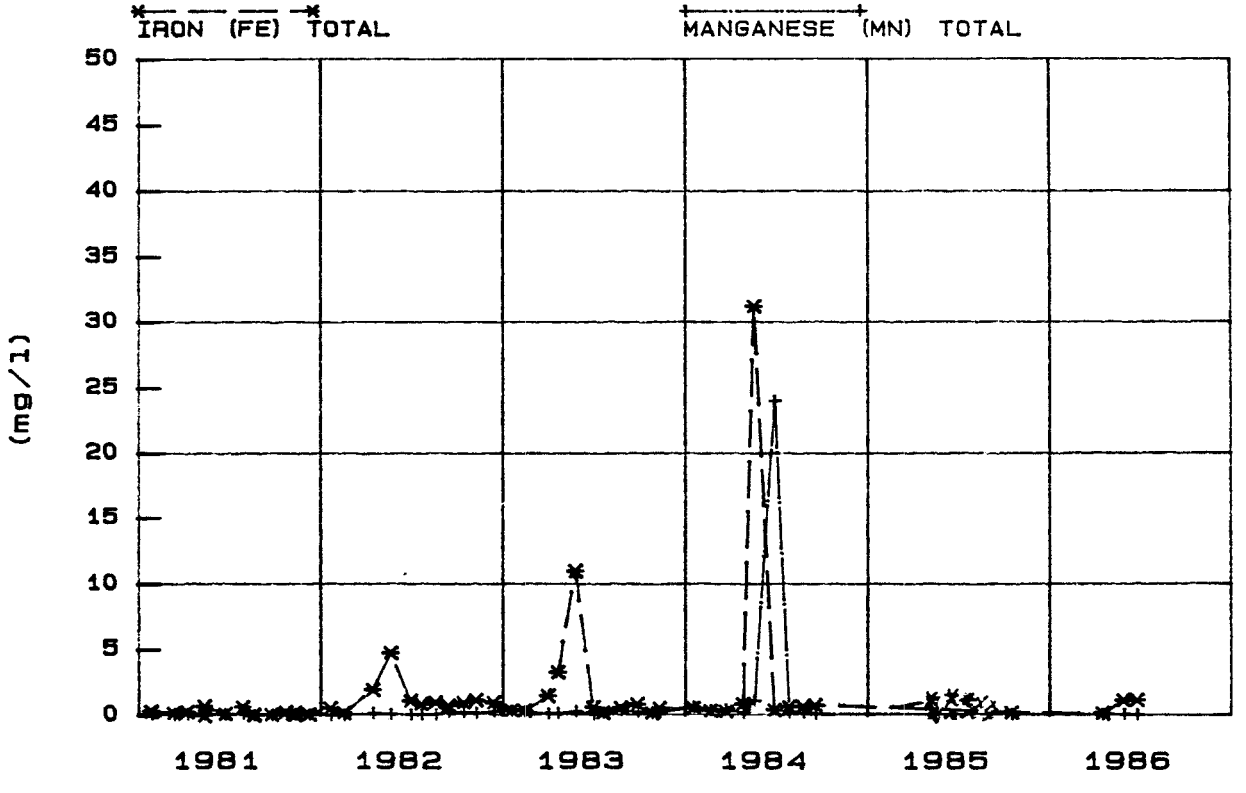

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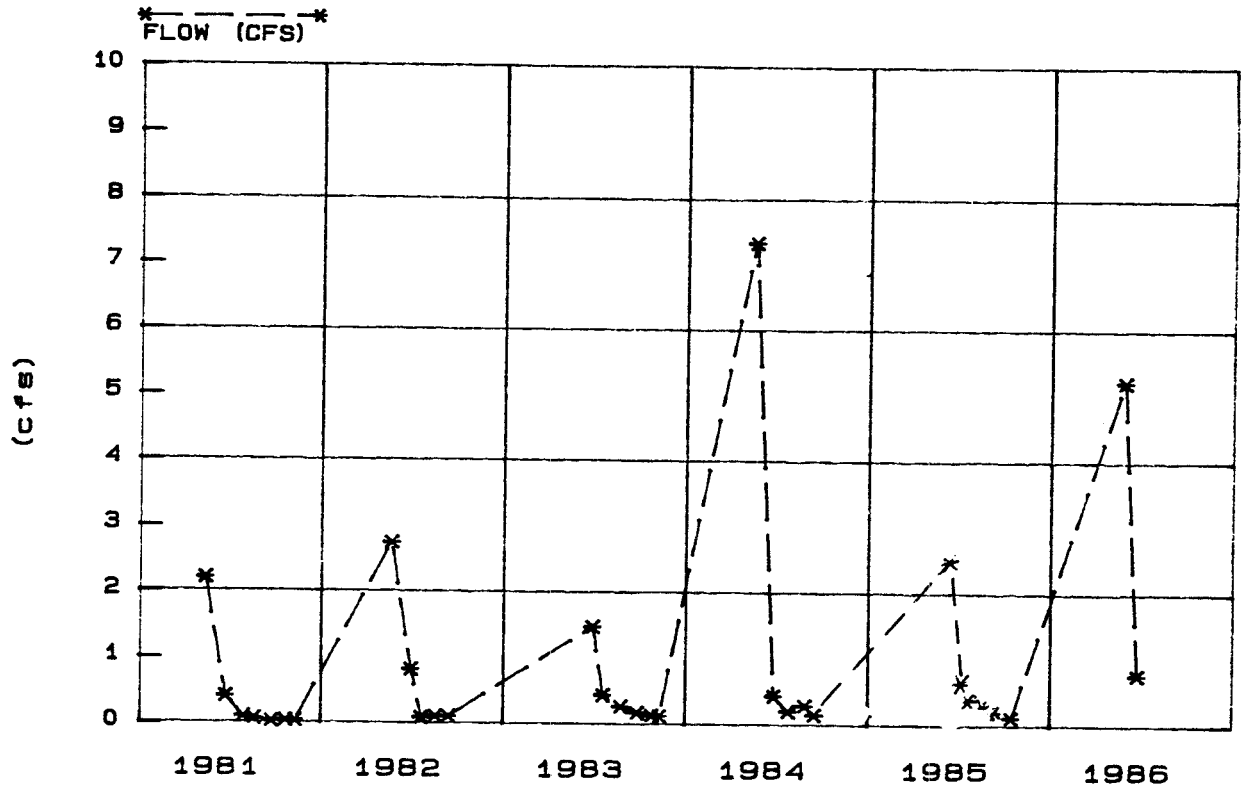

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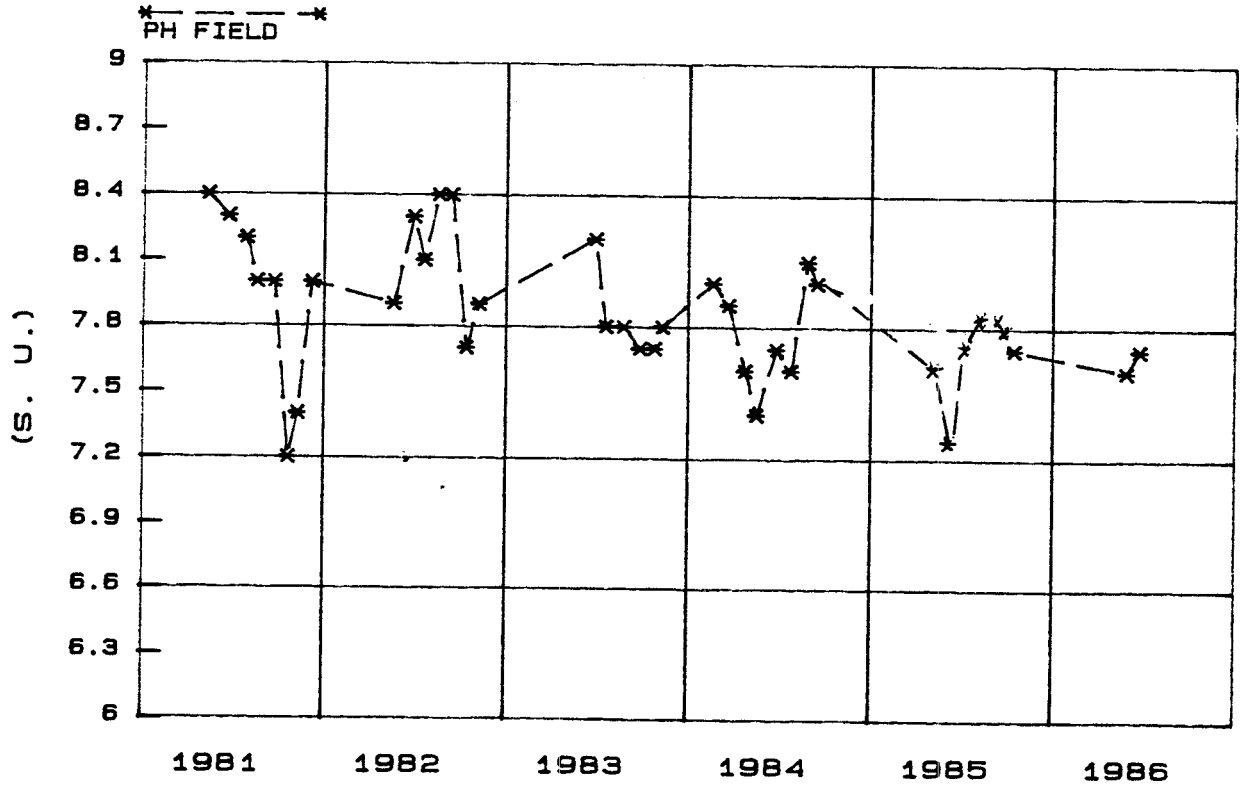

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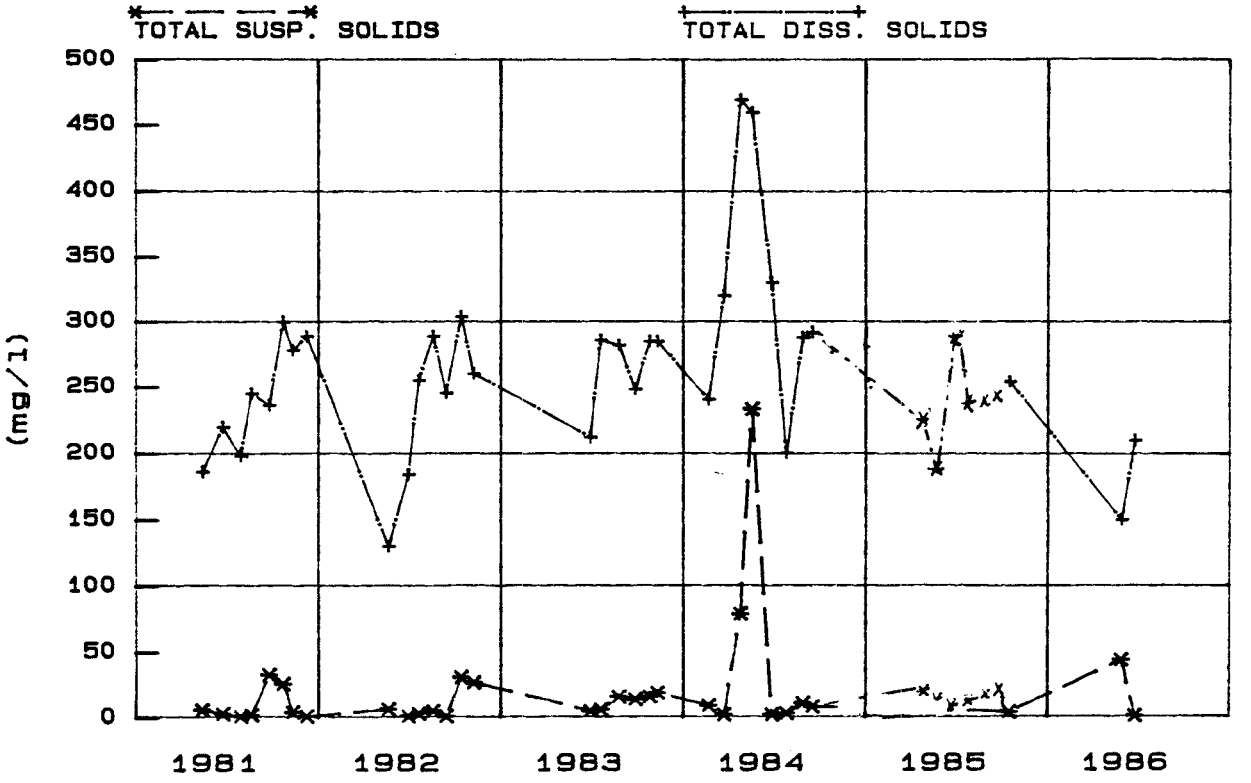

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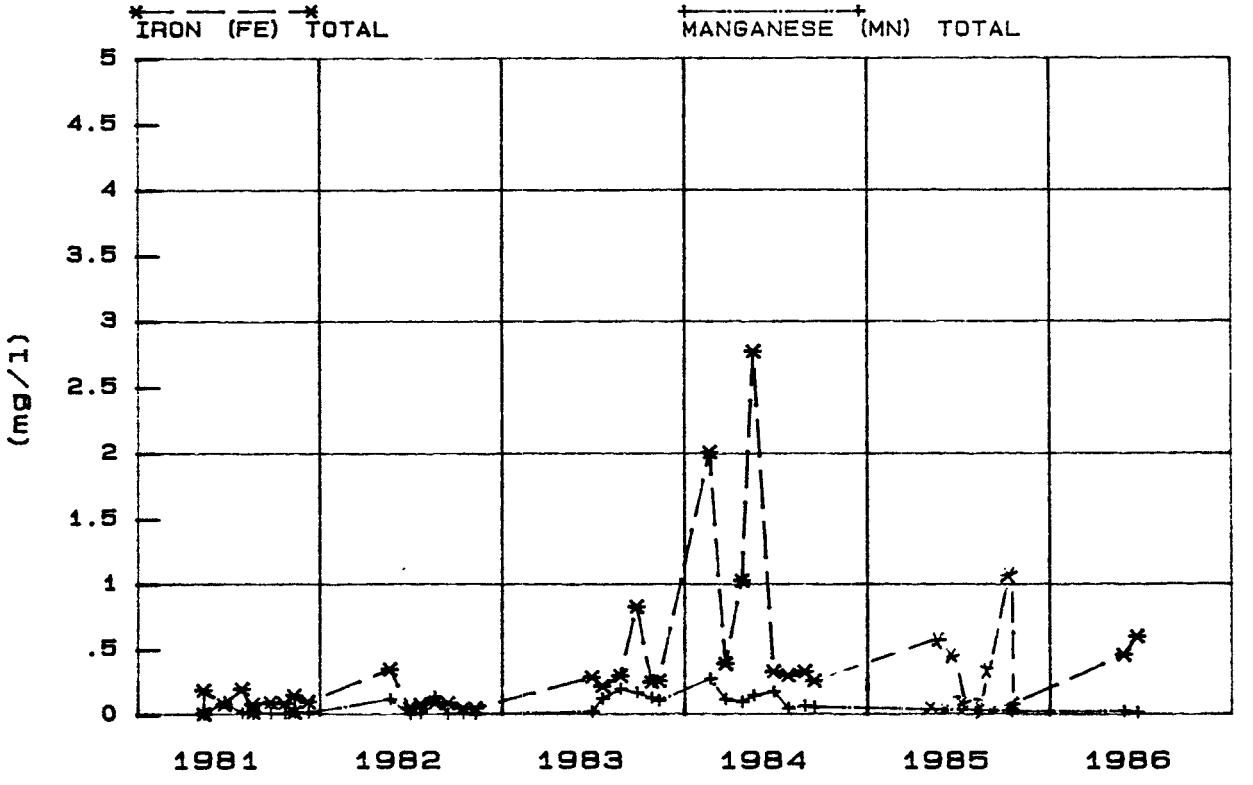

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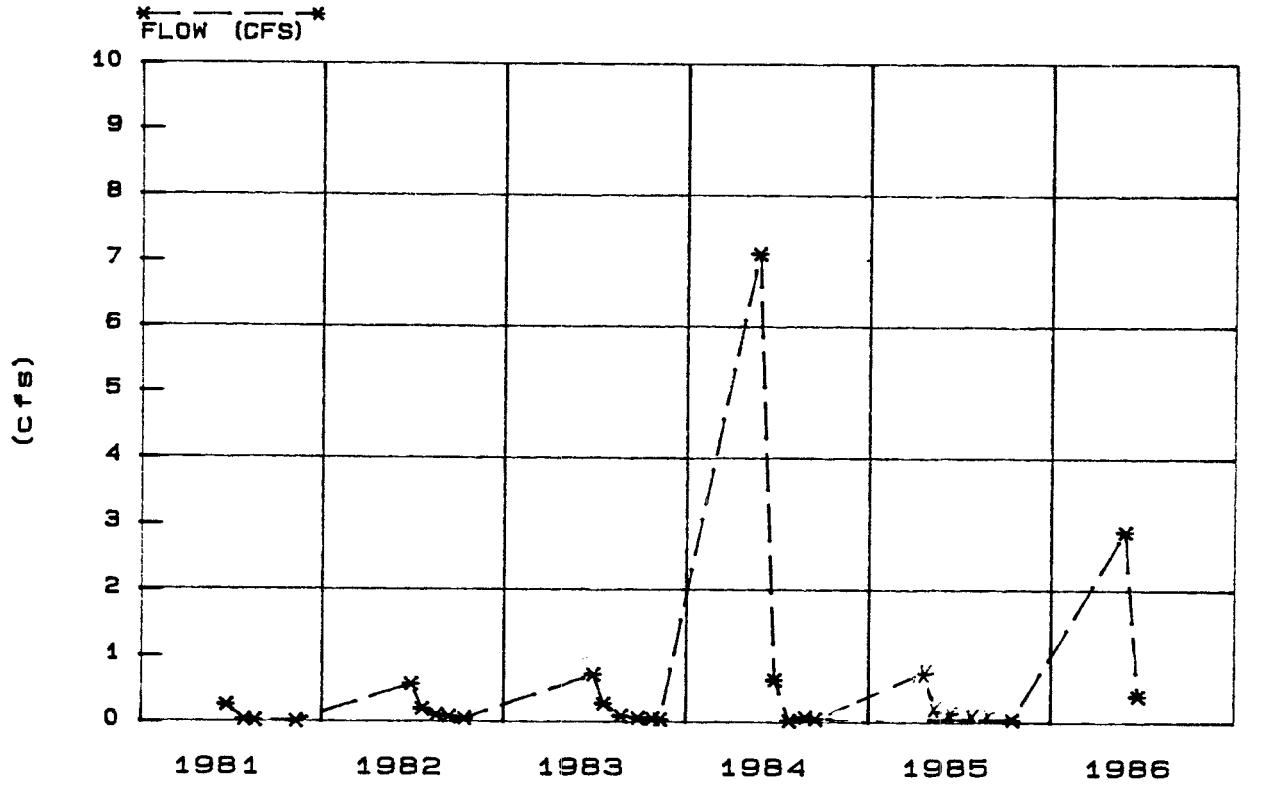

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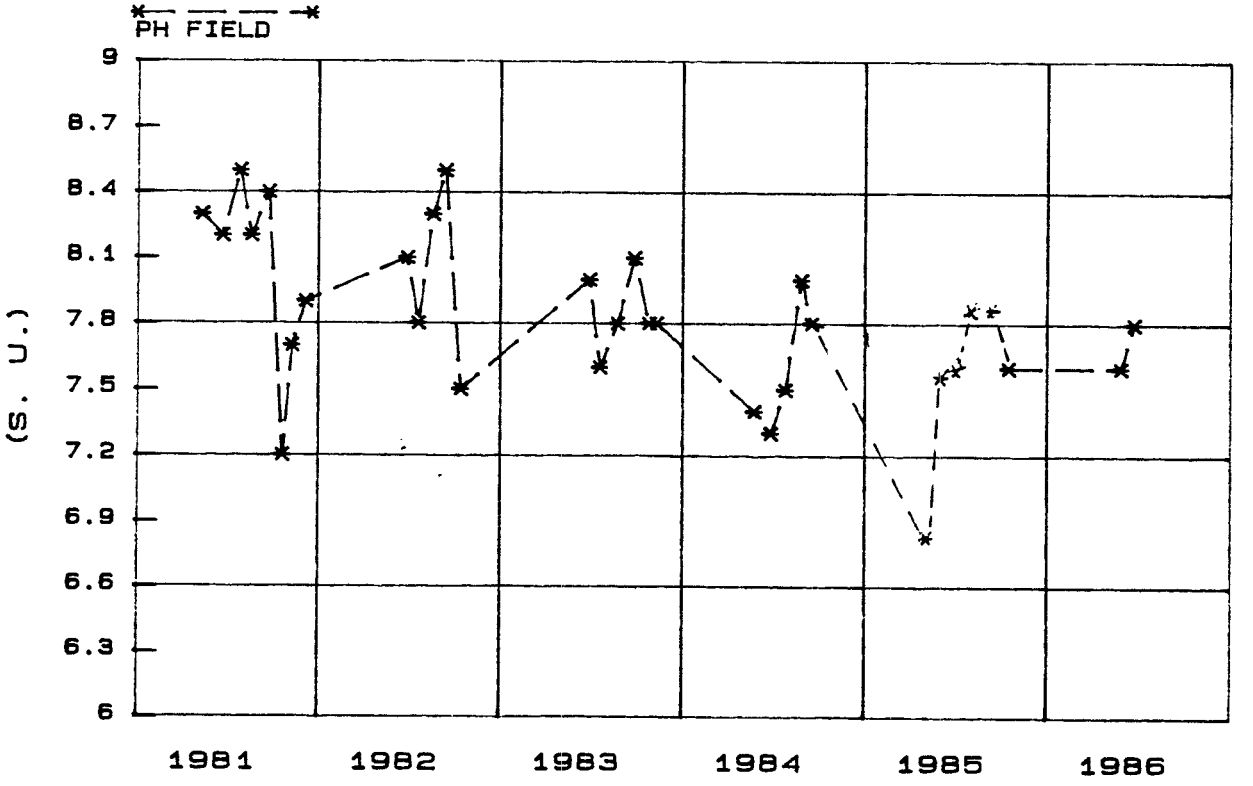

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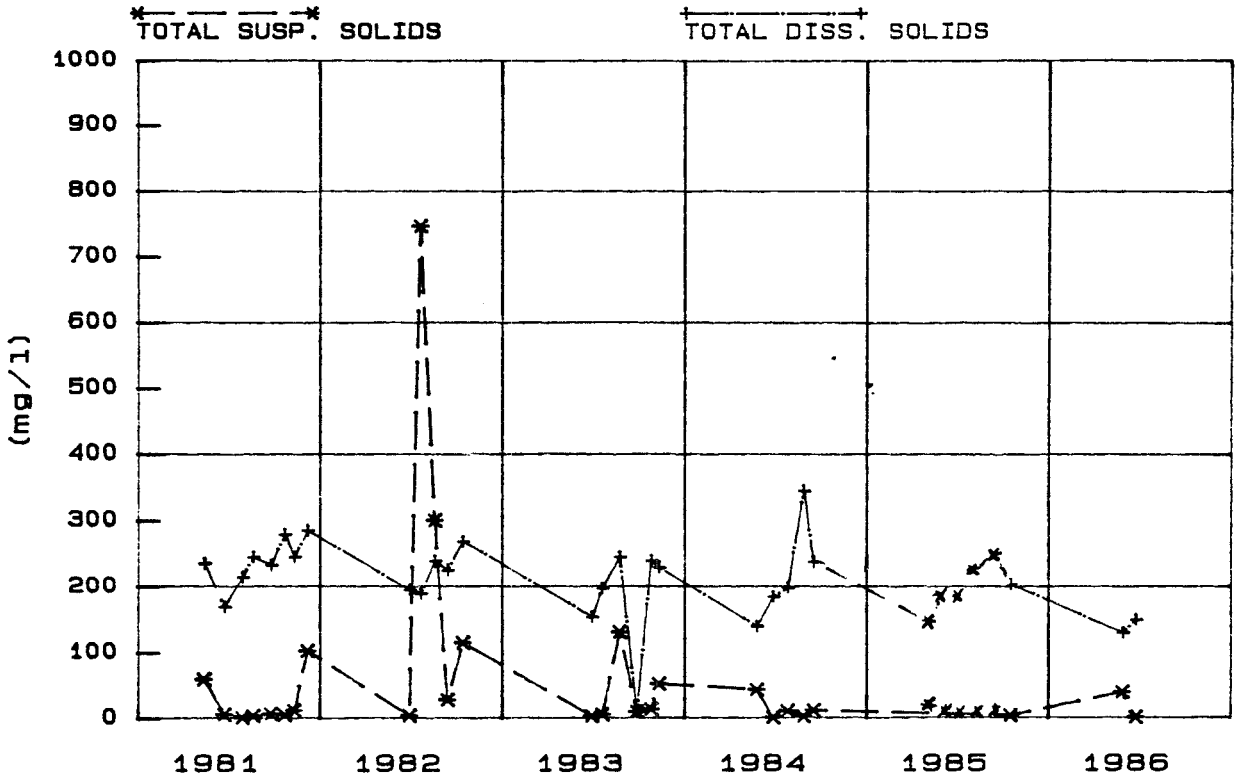
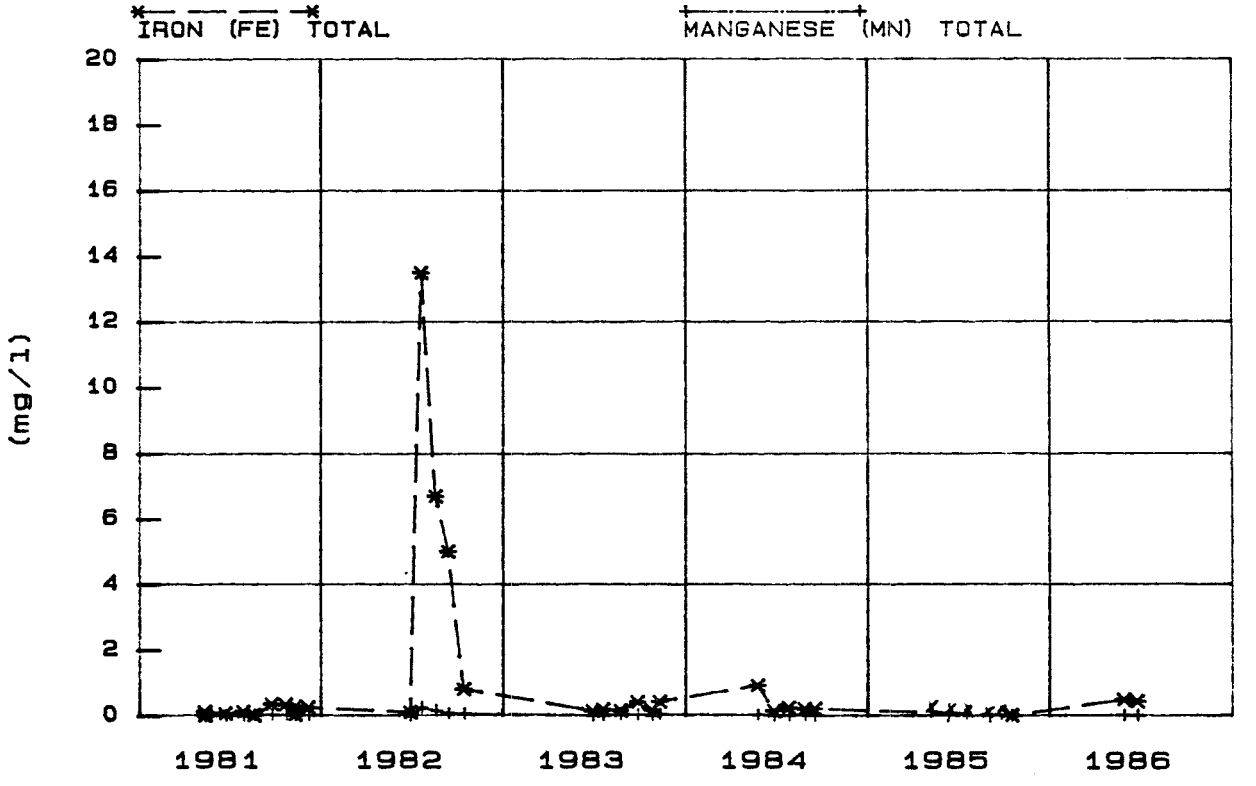
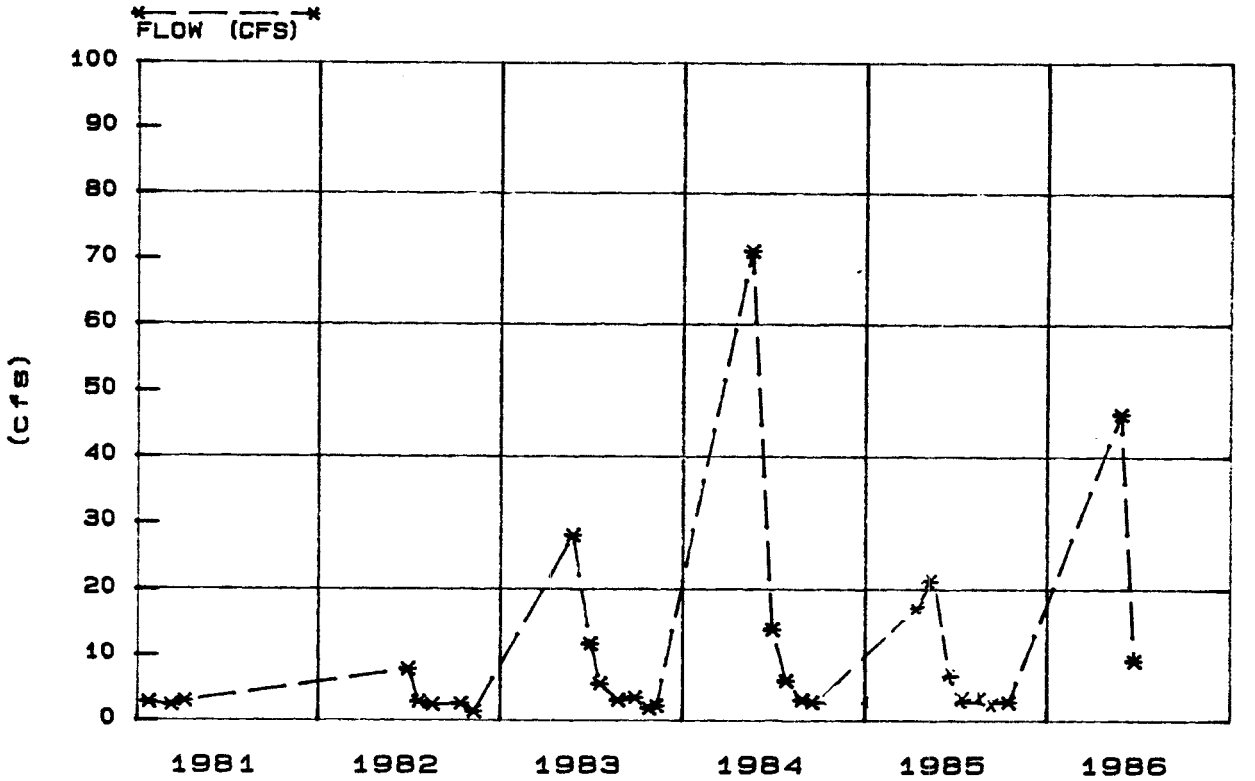


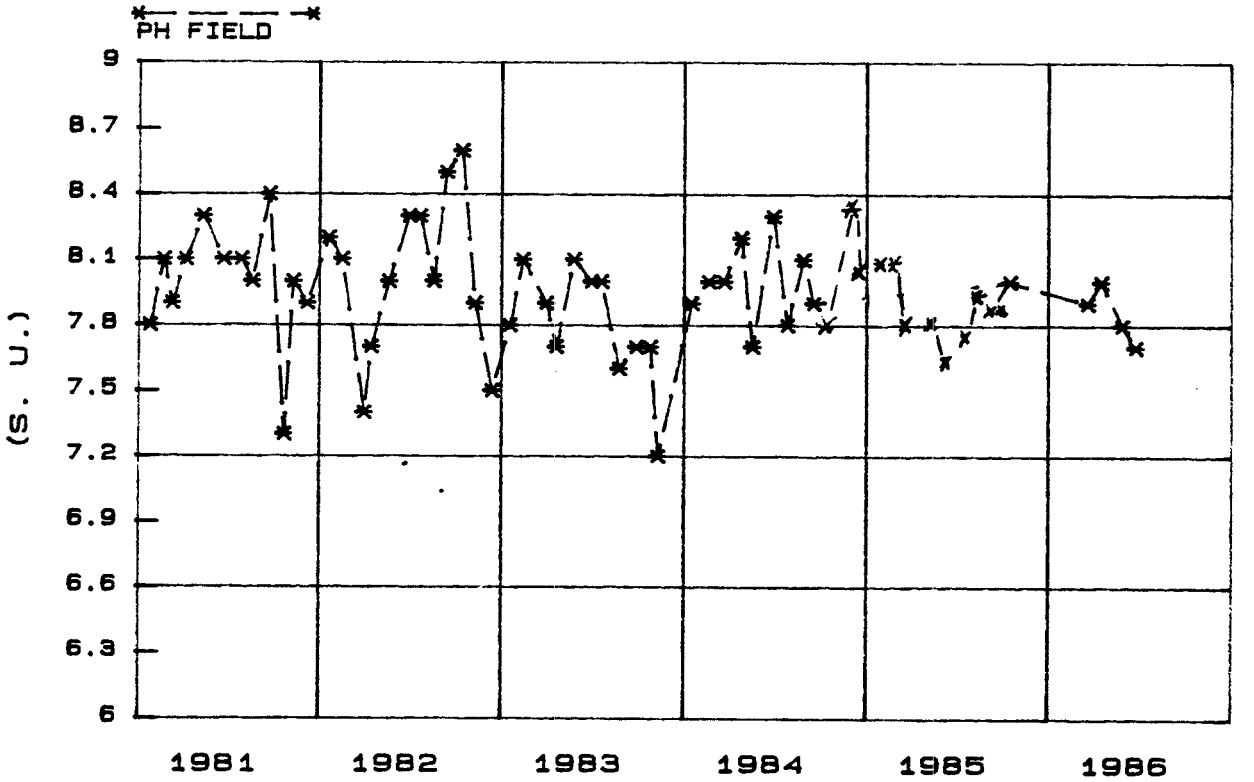
WATER QUALITY SITE: CS-4 ECCLES CR. UPR L FRK



WATER QUALITY SITE: CS-4 ECCLES CR. UPR L FRK



WATER QUALITY SITE: CS-6 ECCLES CR. GAGING STA.



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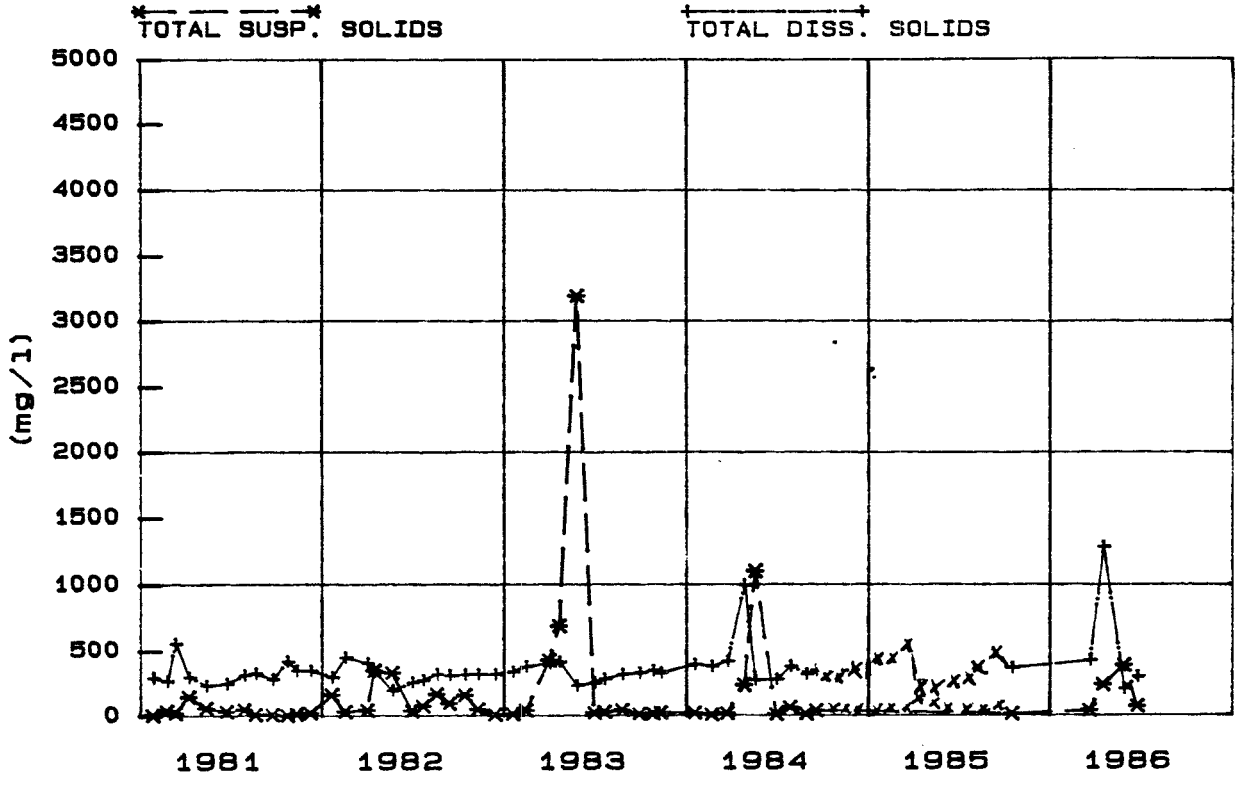

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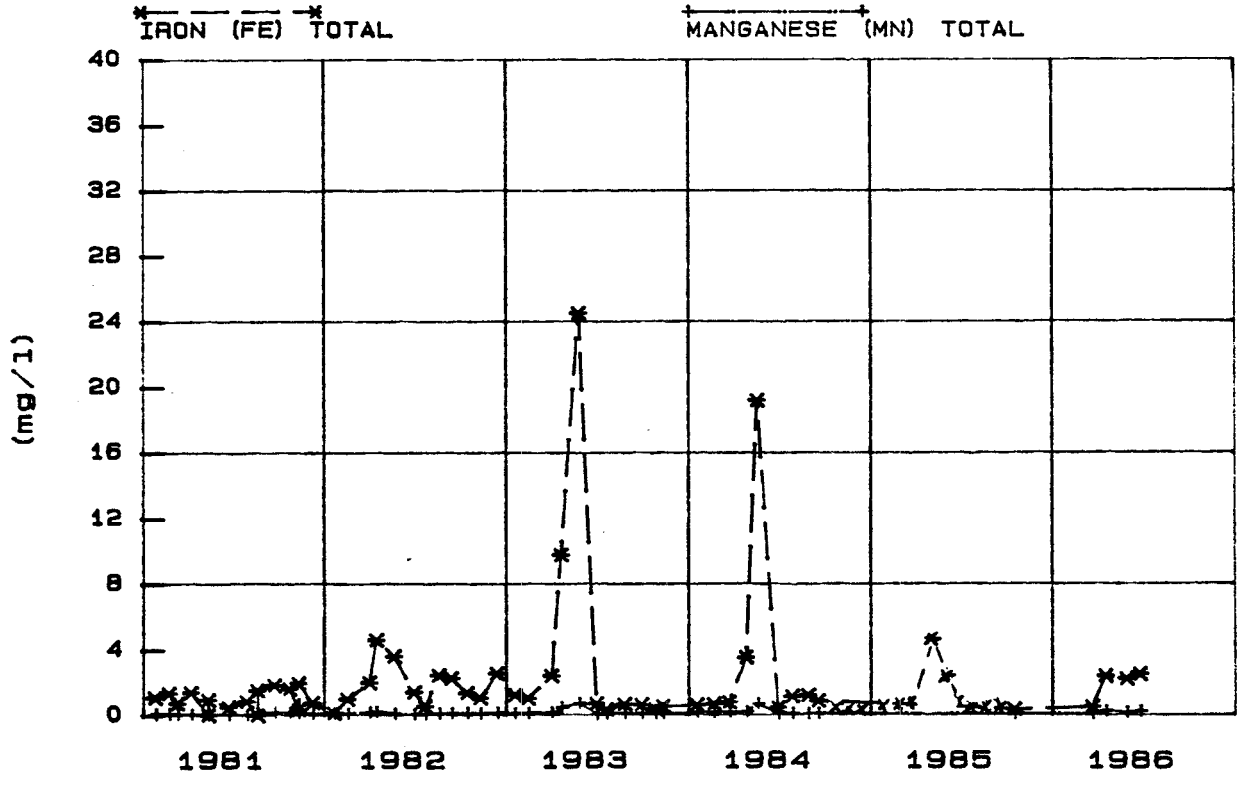

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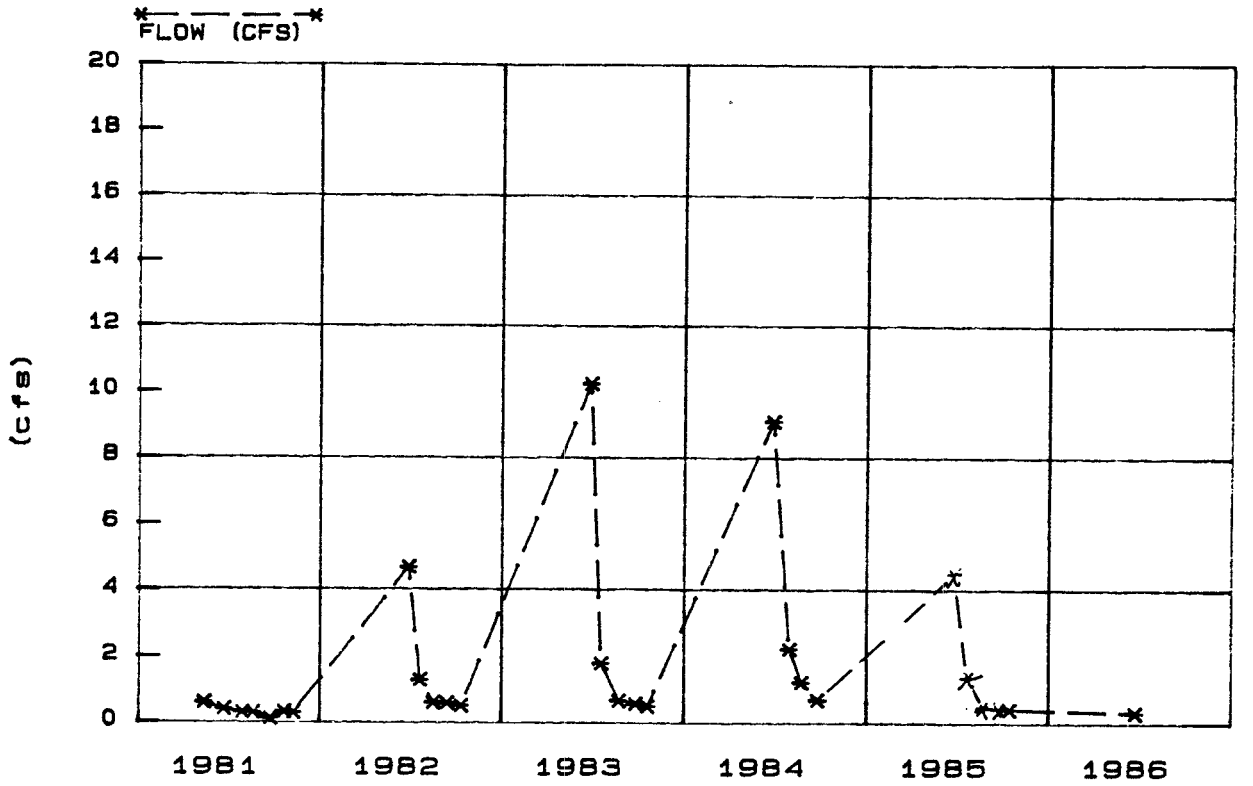
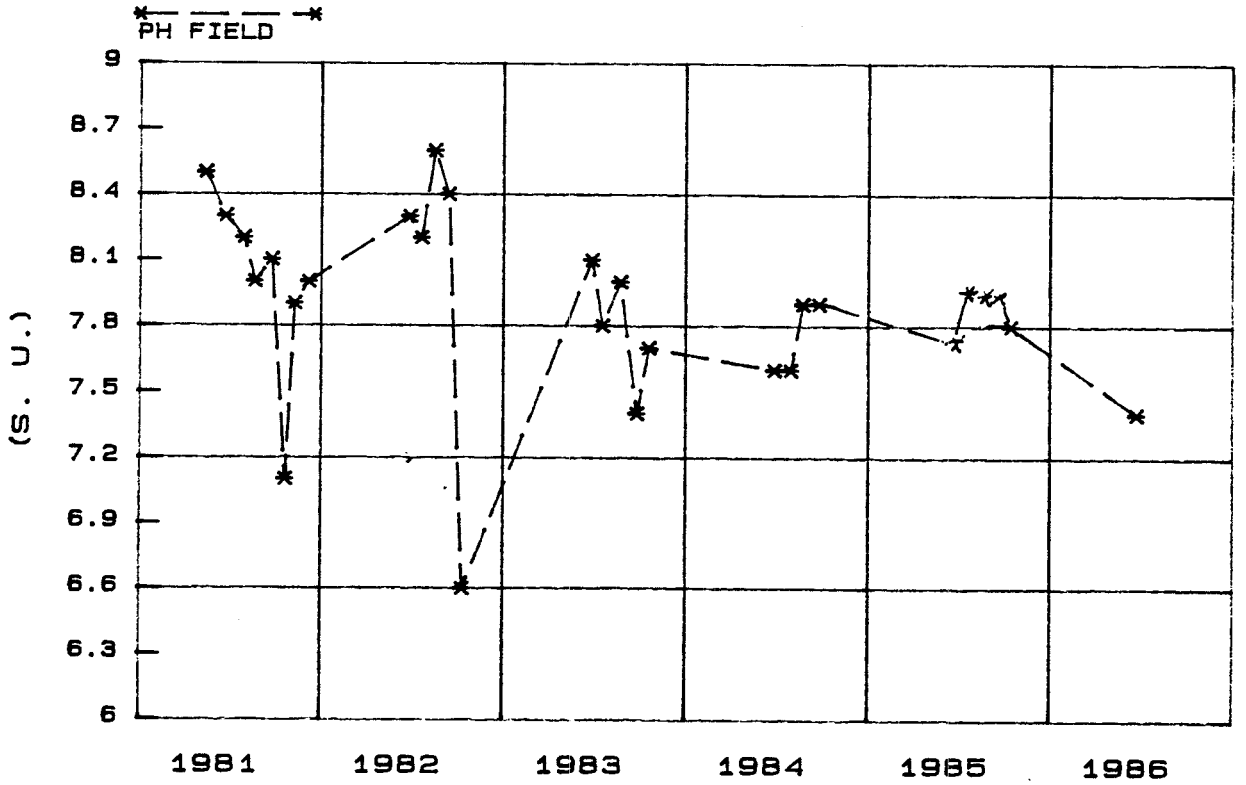


WATER QUALITY SITE: CS-7 BURNOUT CR. ABV HUNT CR



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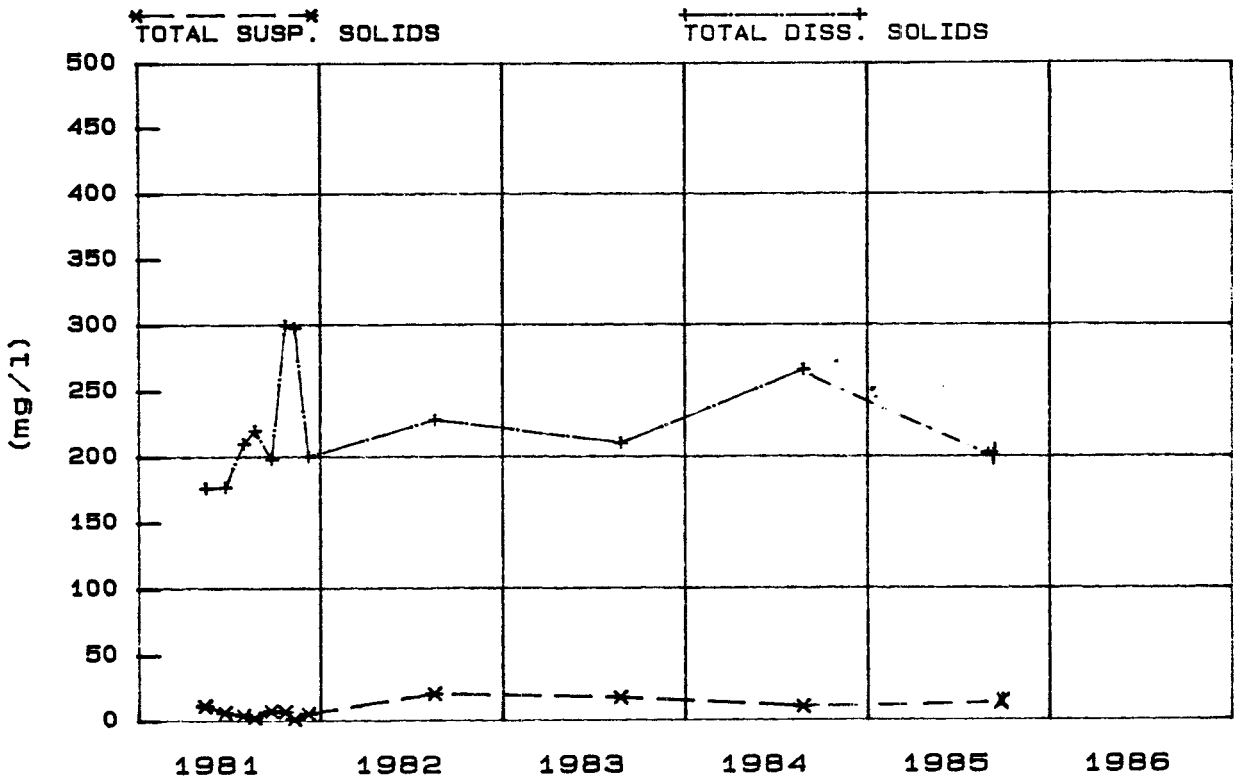

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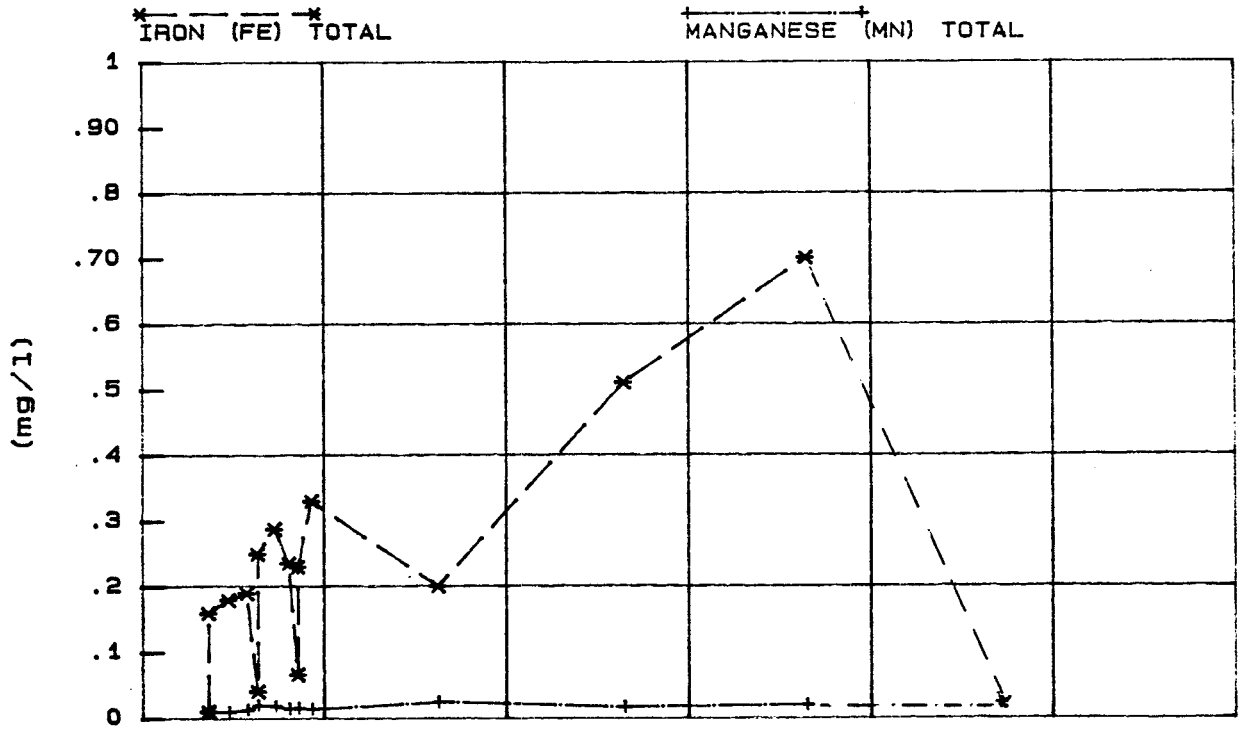

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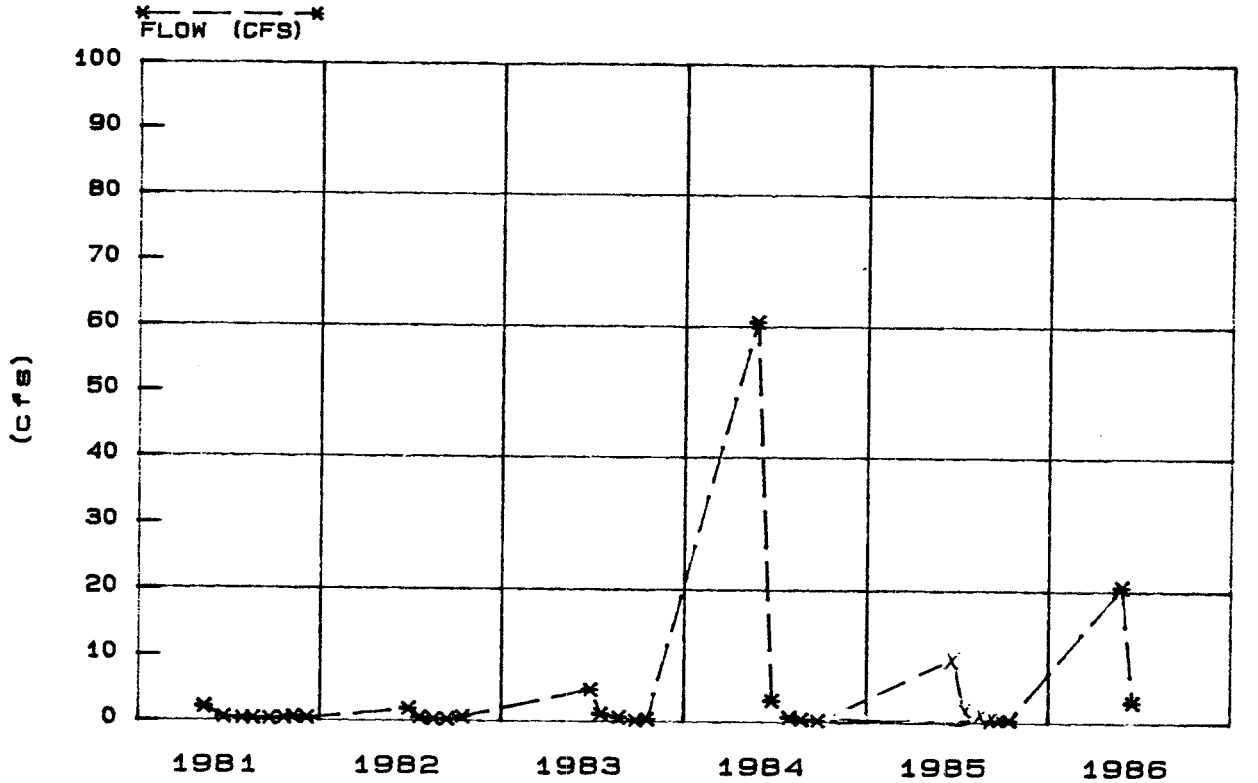
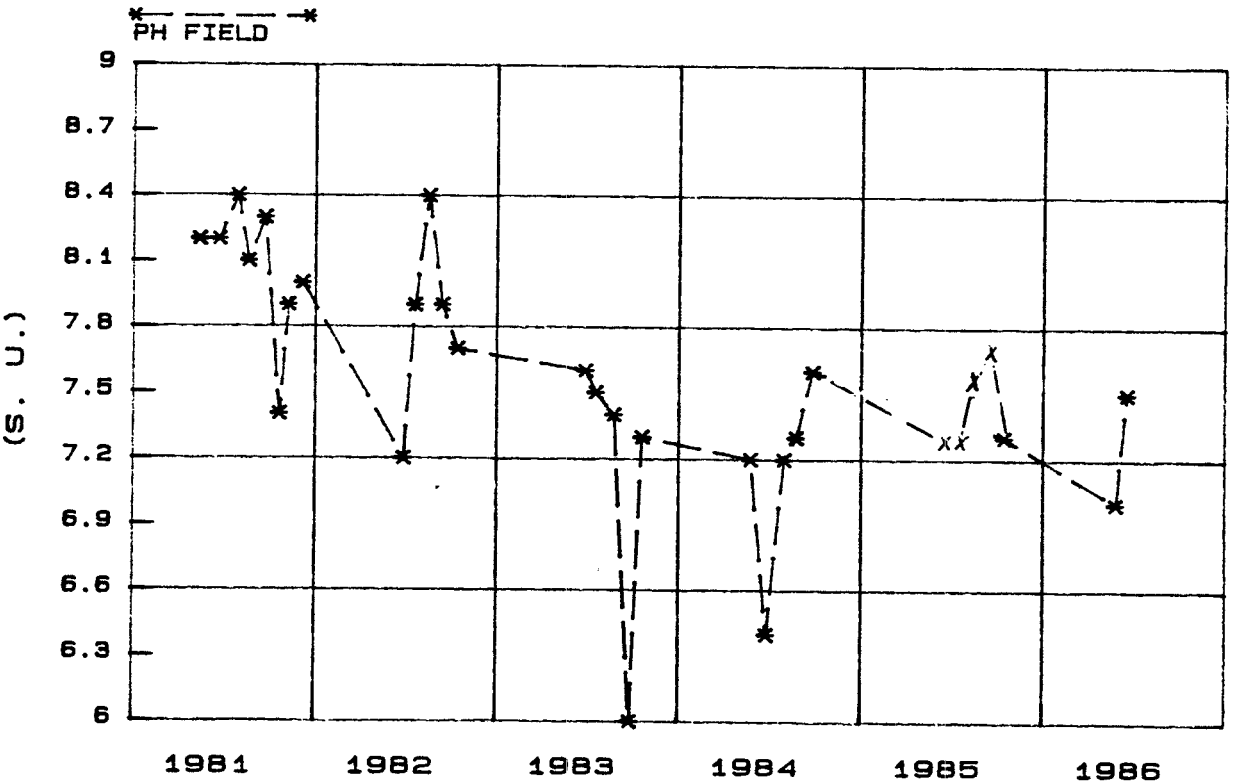


WATER QUALITY SITE: CS-8 HNT CR R FK ABV L FK



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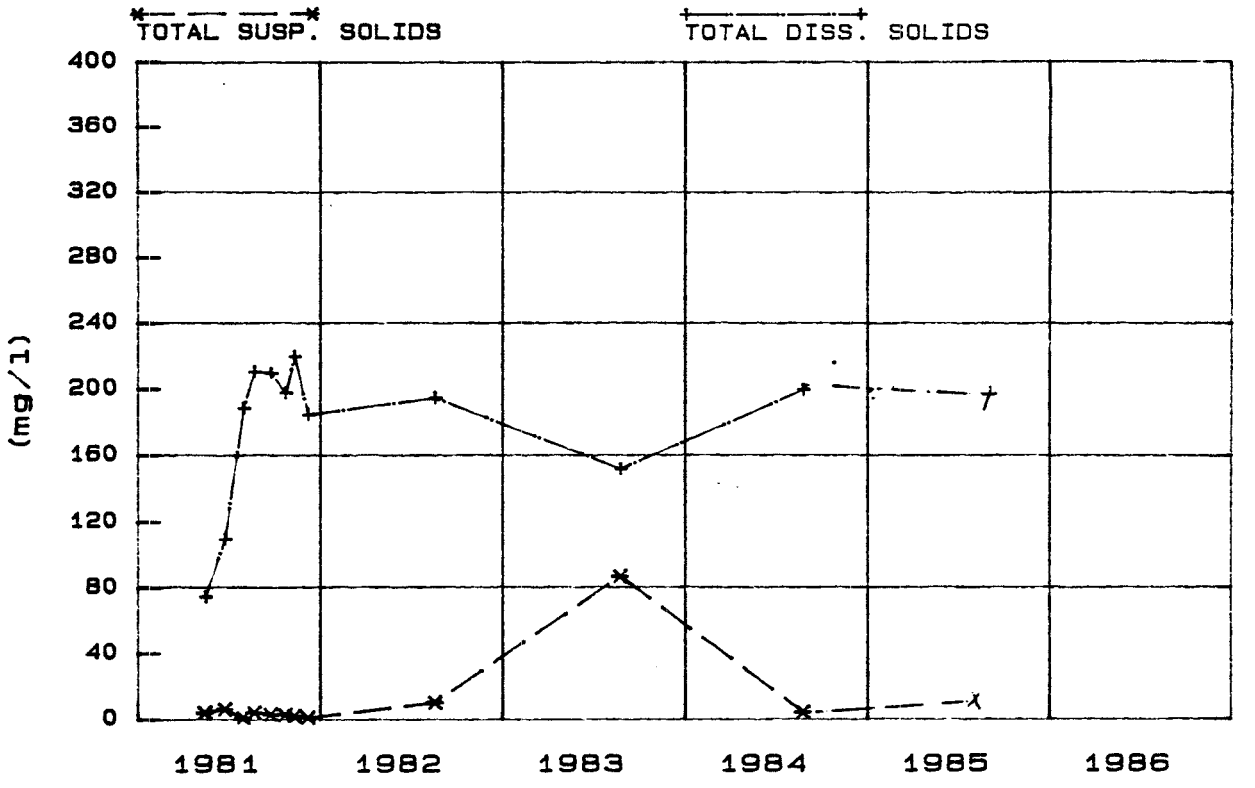

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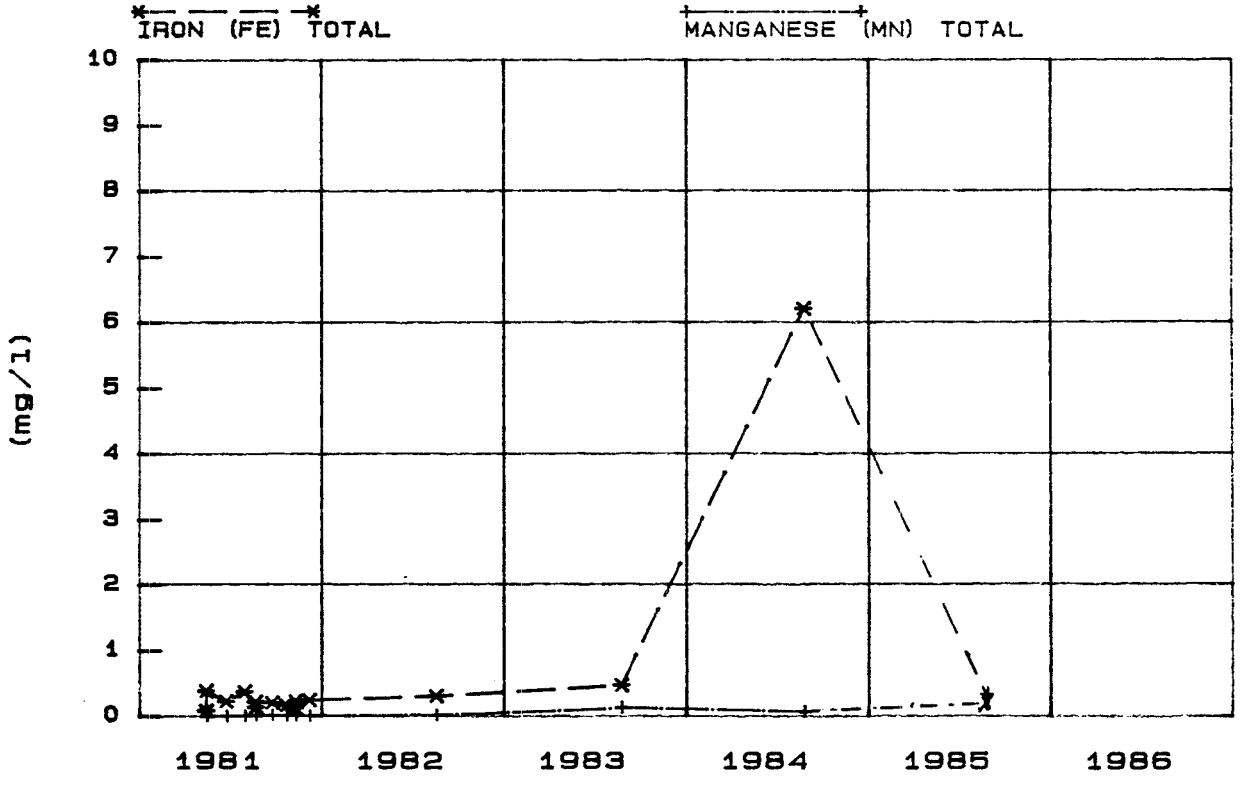

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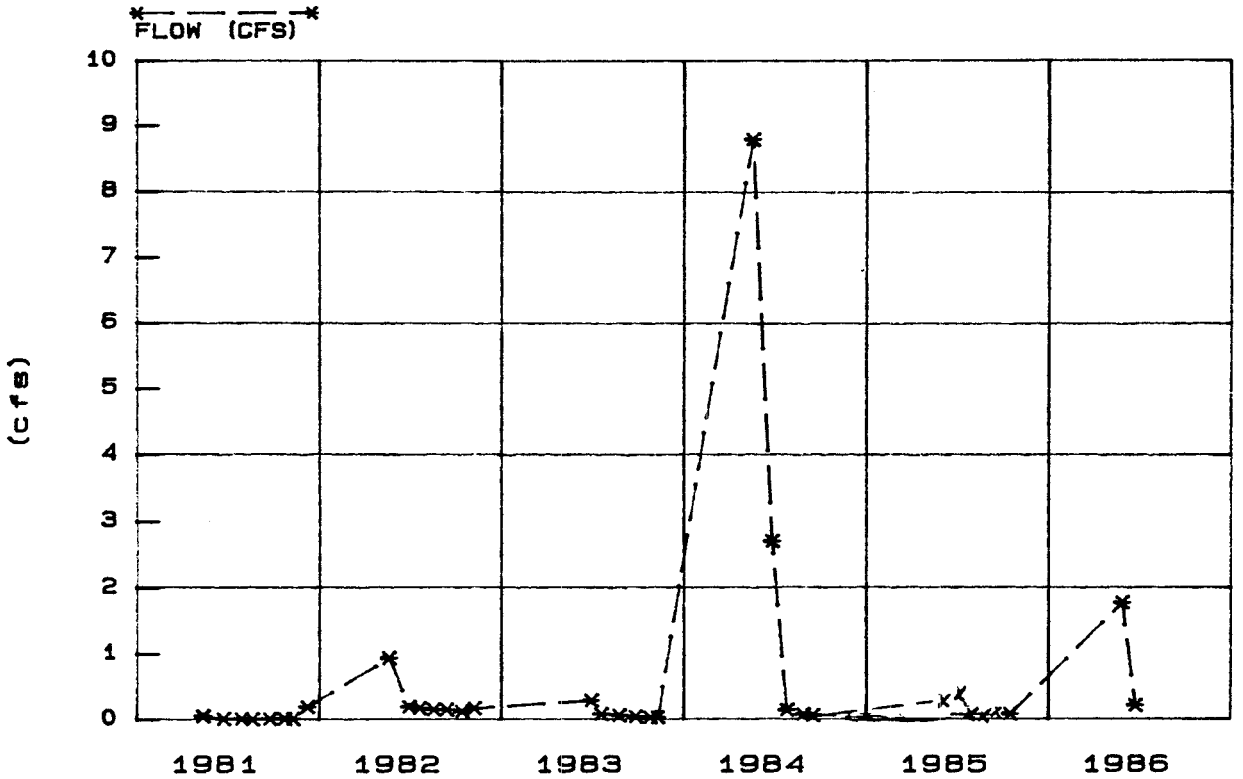
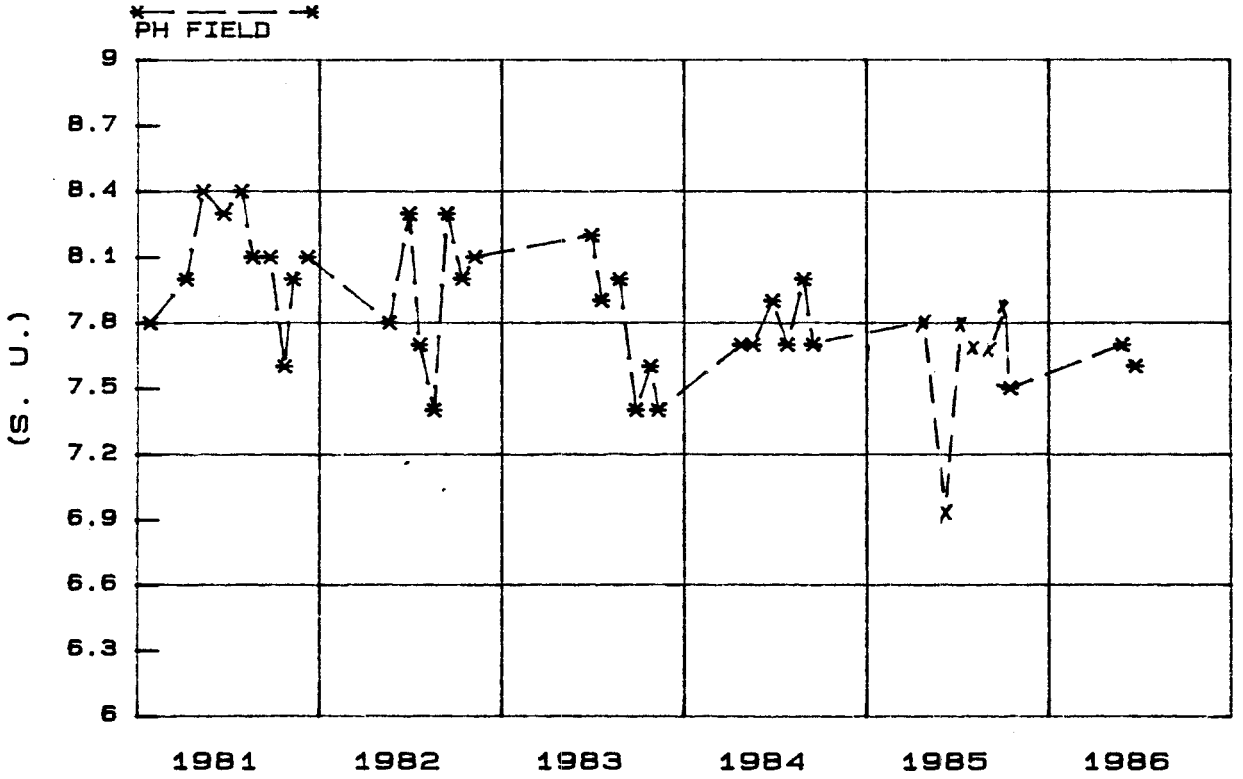


WATER QUALITY SITE: CS-9 RIGHT FORK ECCLES CR.



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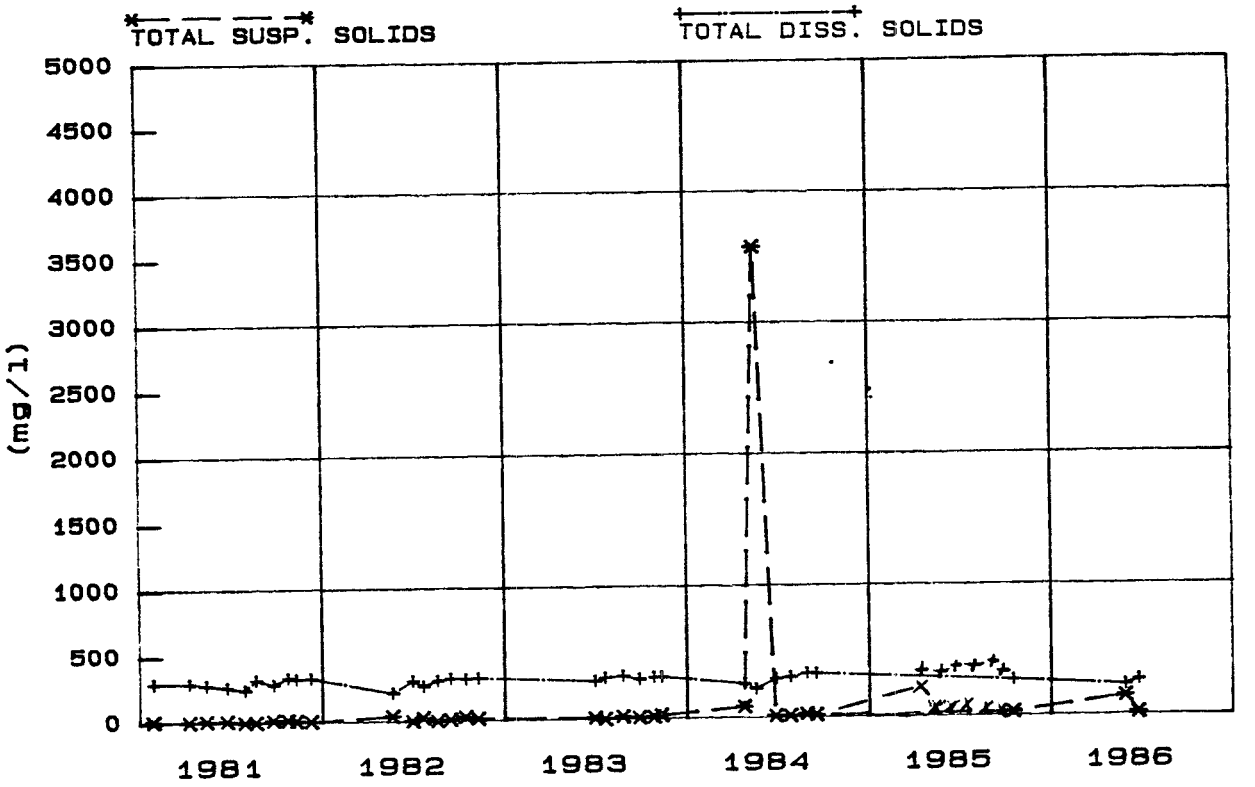

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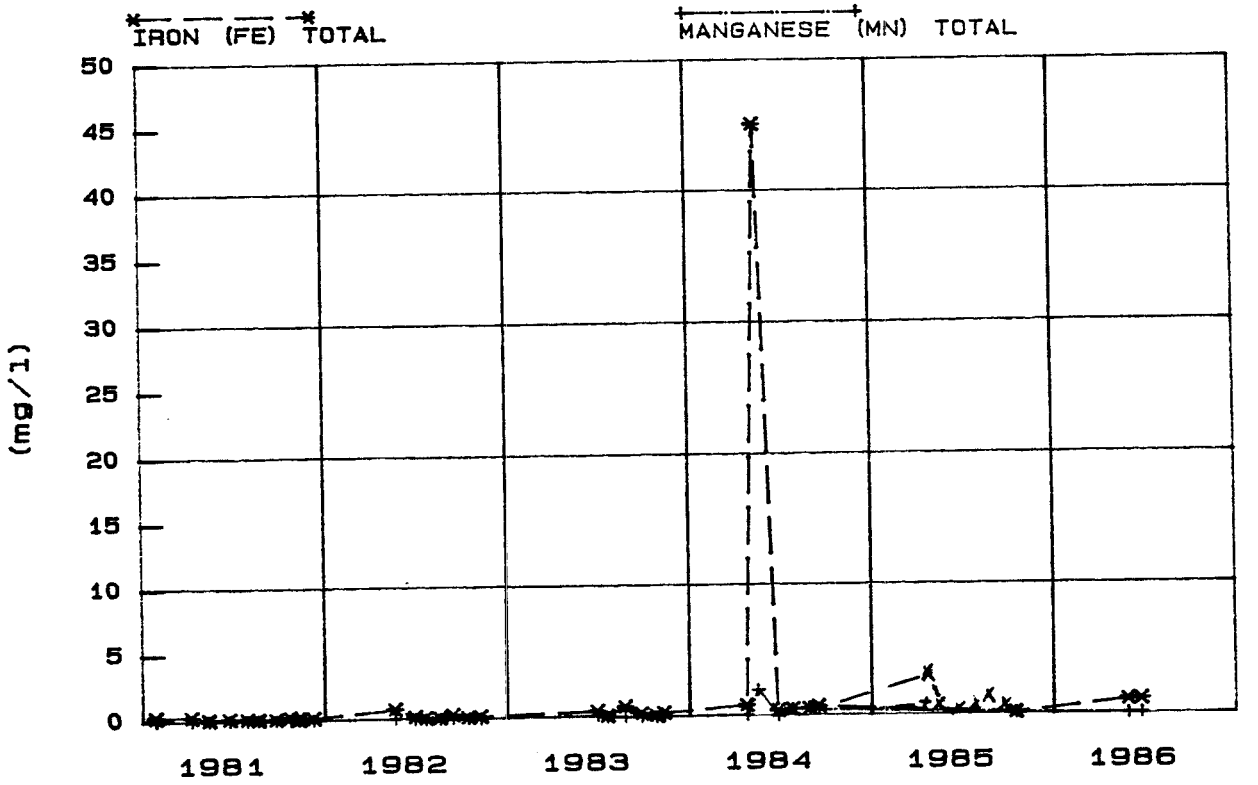

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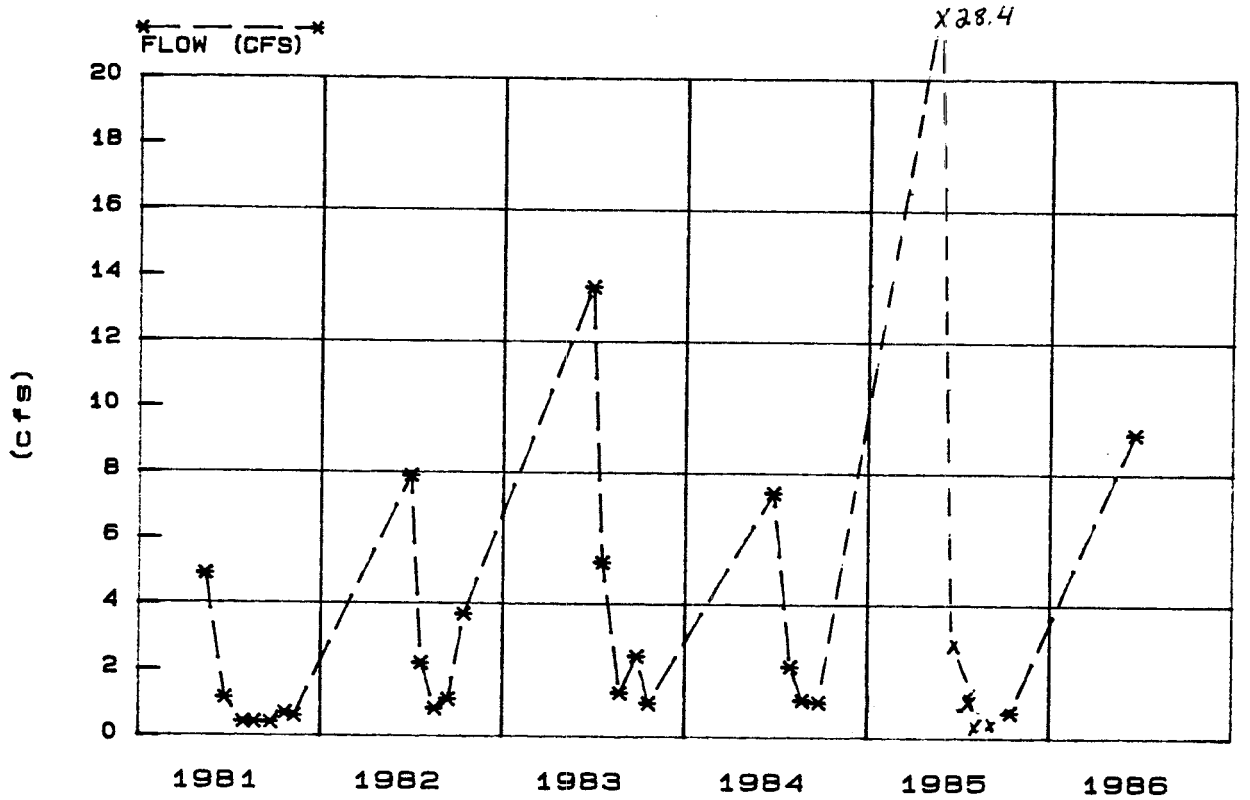
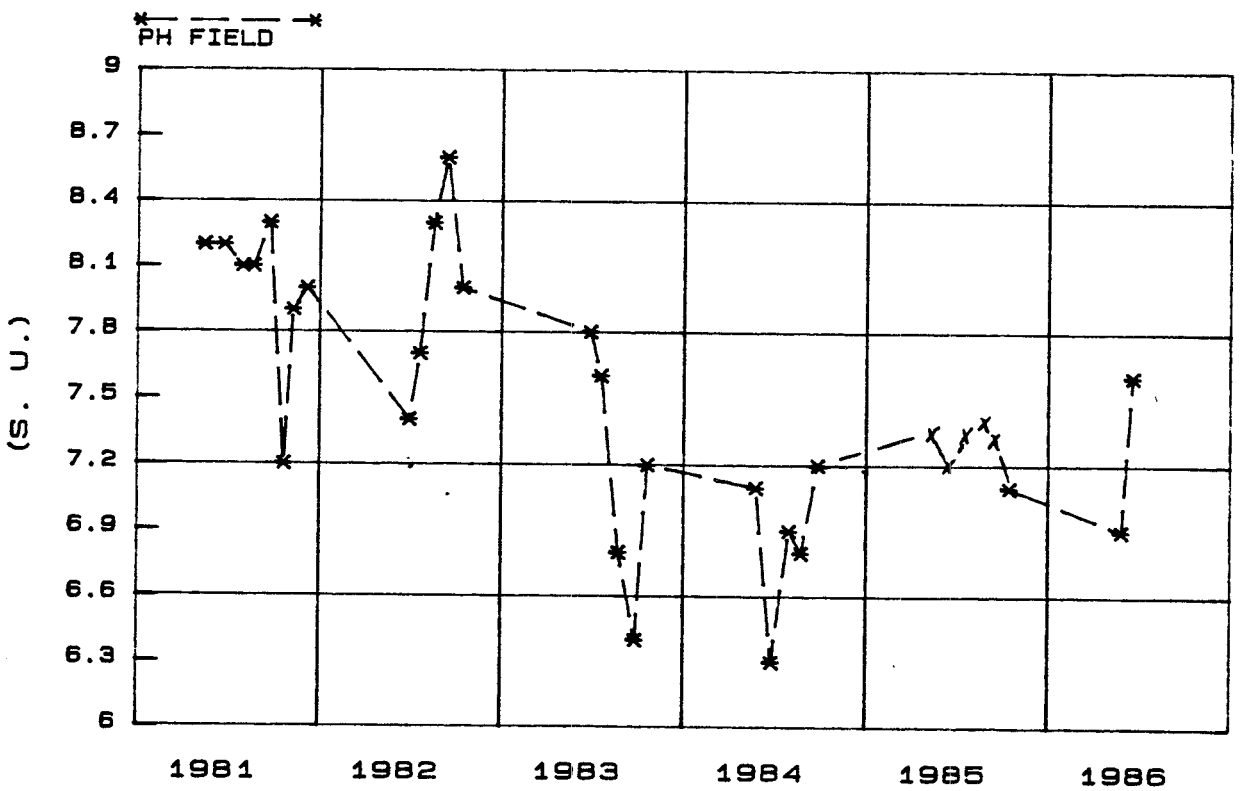


WATER QUALITY SITE: CS-10



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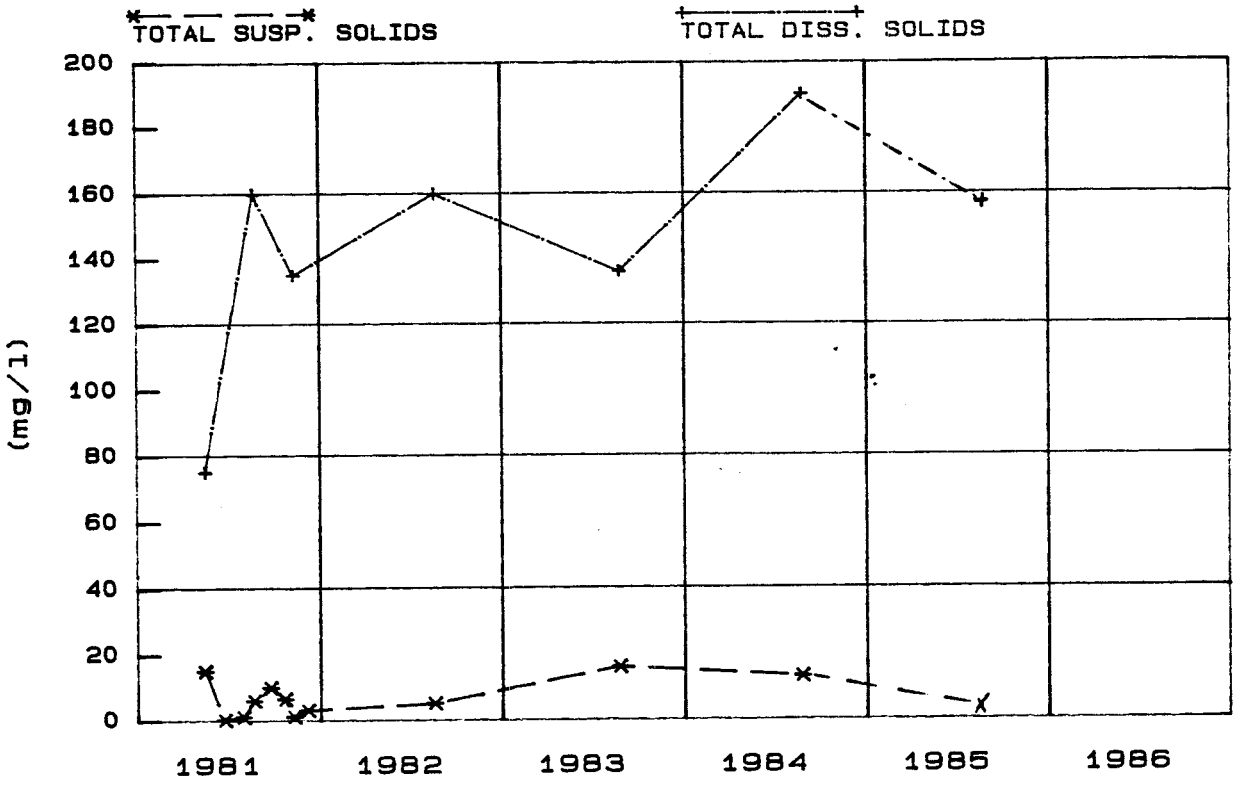

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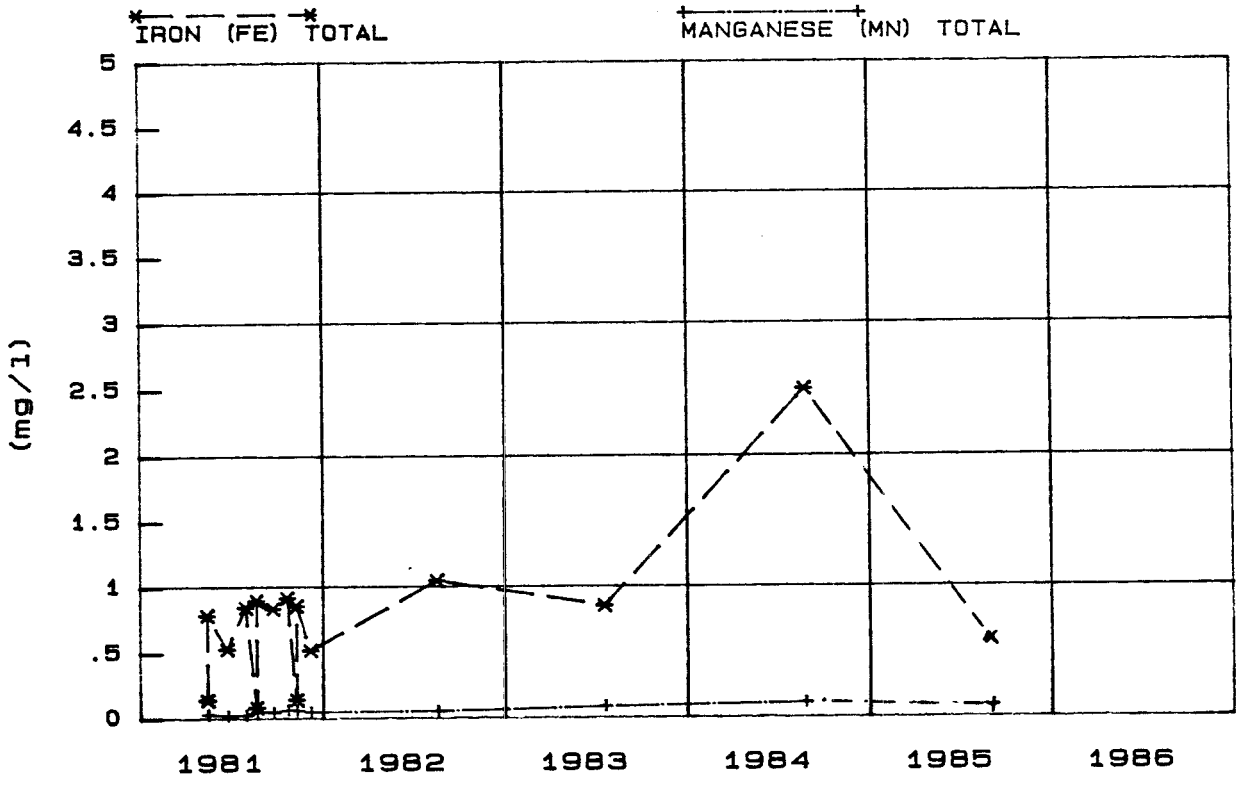

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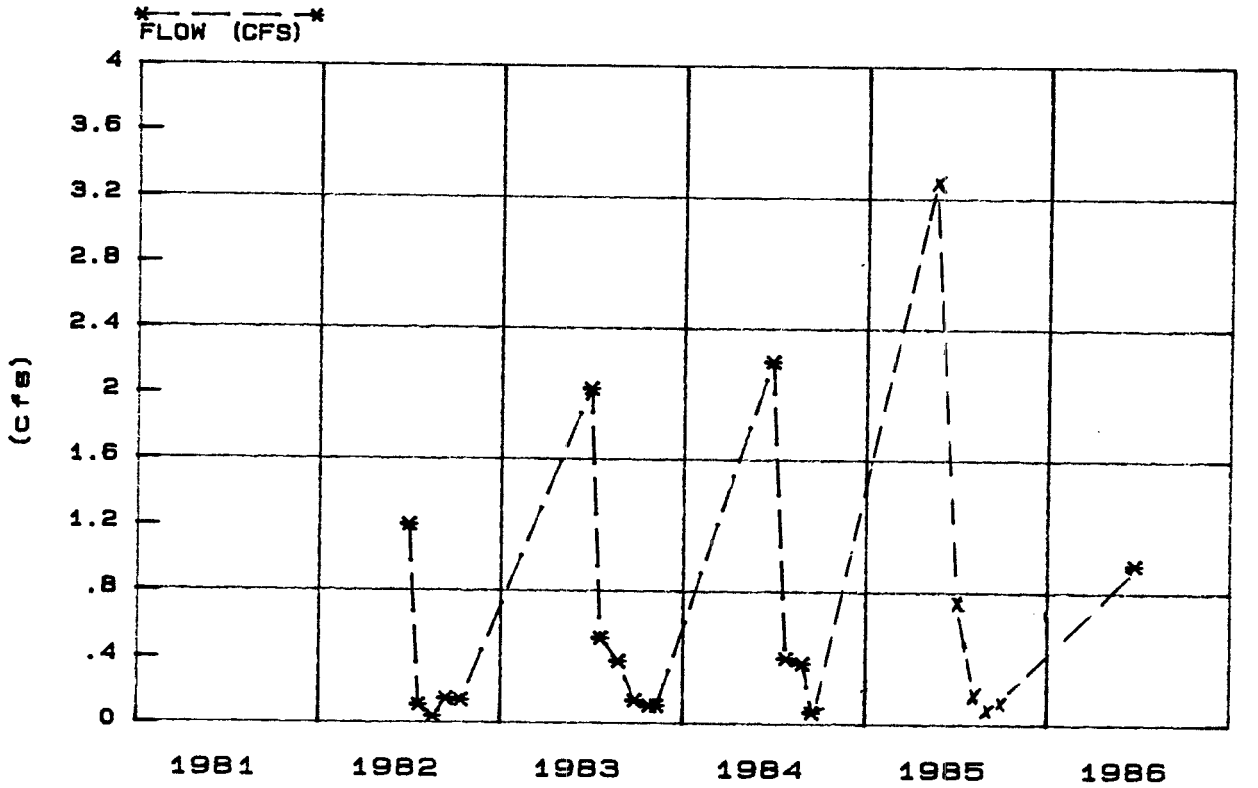
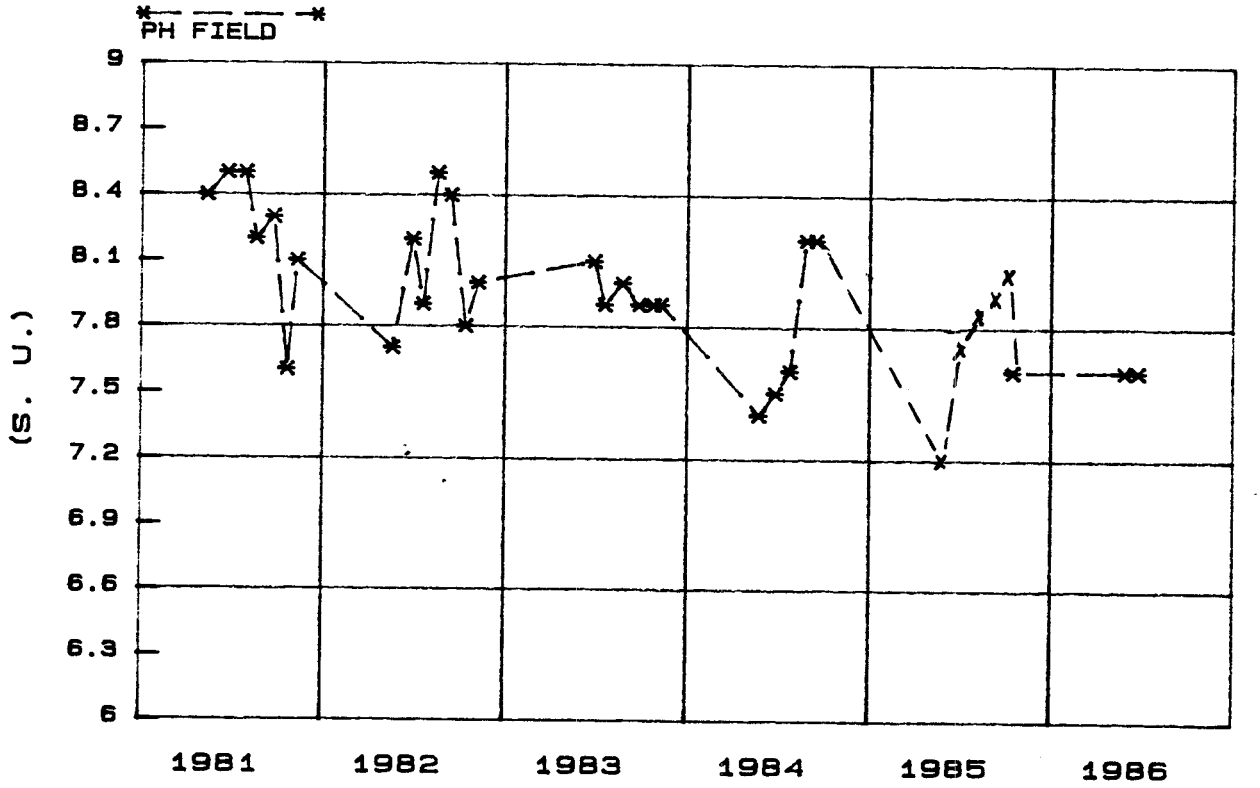


WATER QUALITY SITE: CS-11 ECCLES CR. ABV MINE



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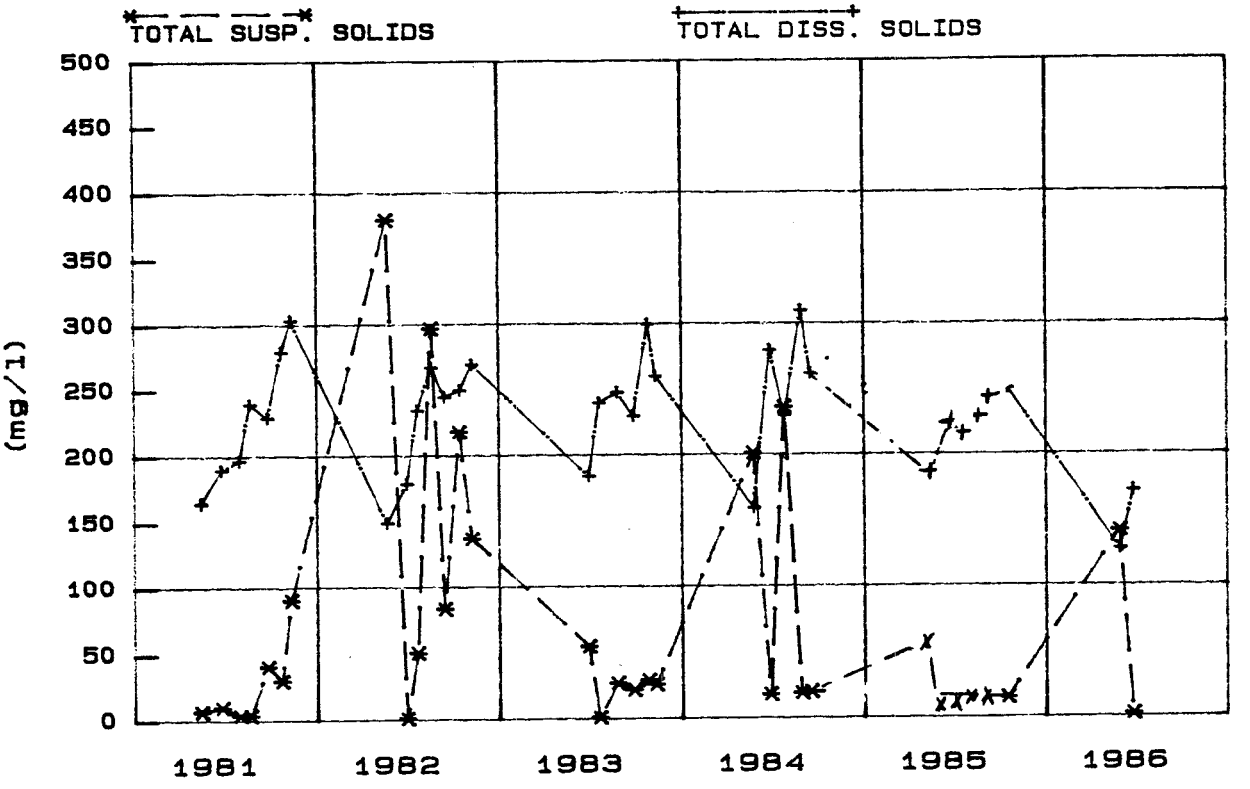

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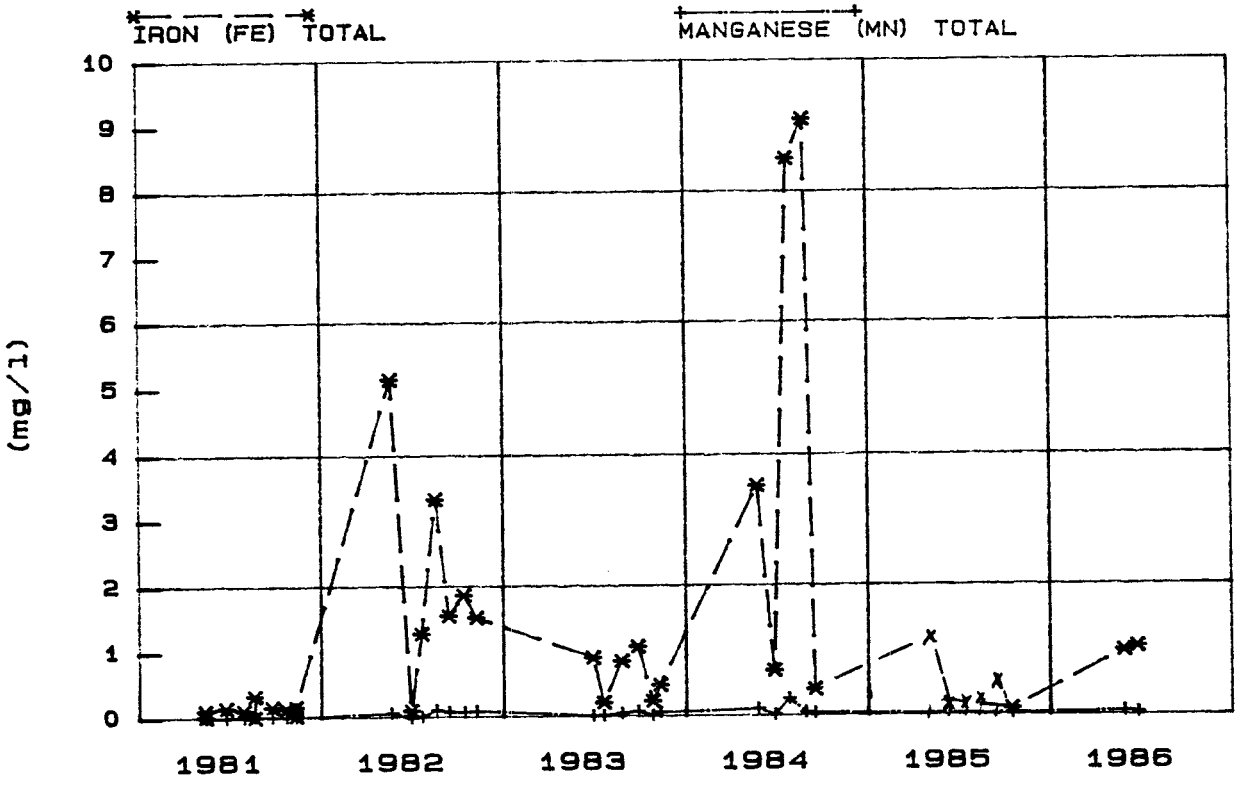

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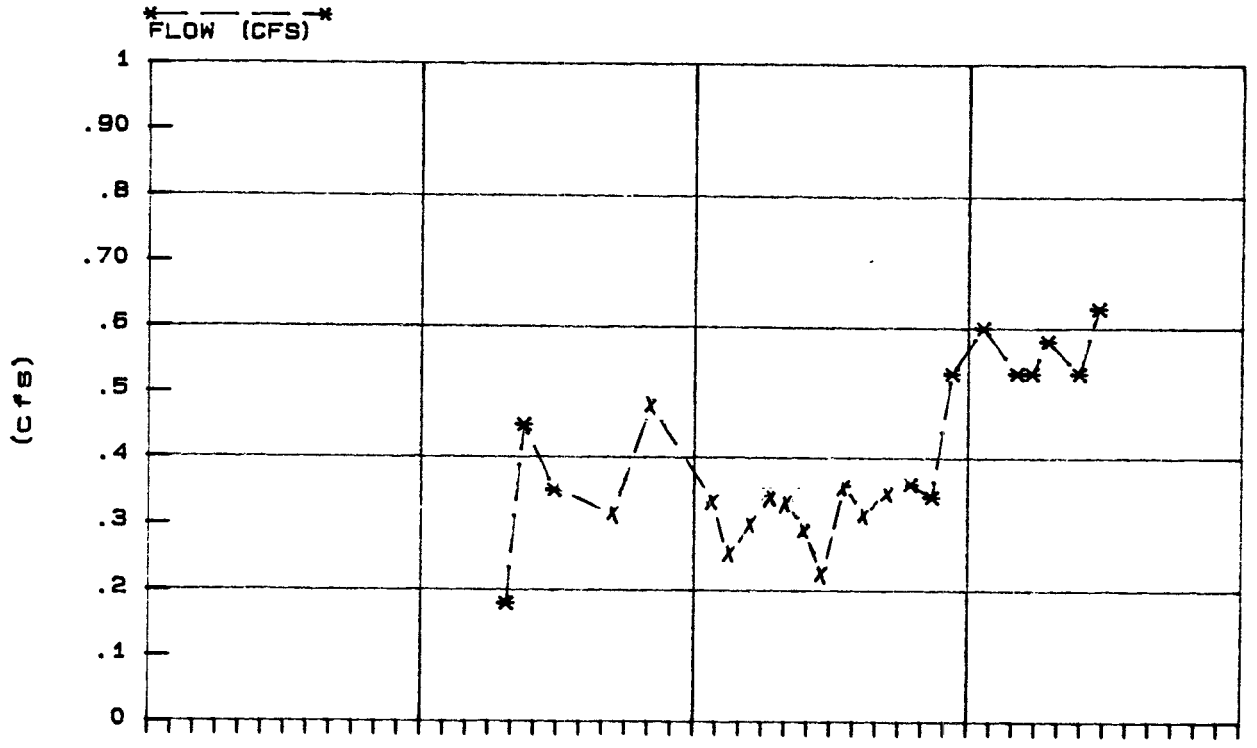
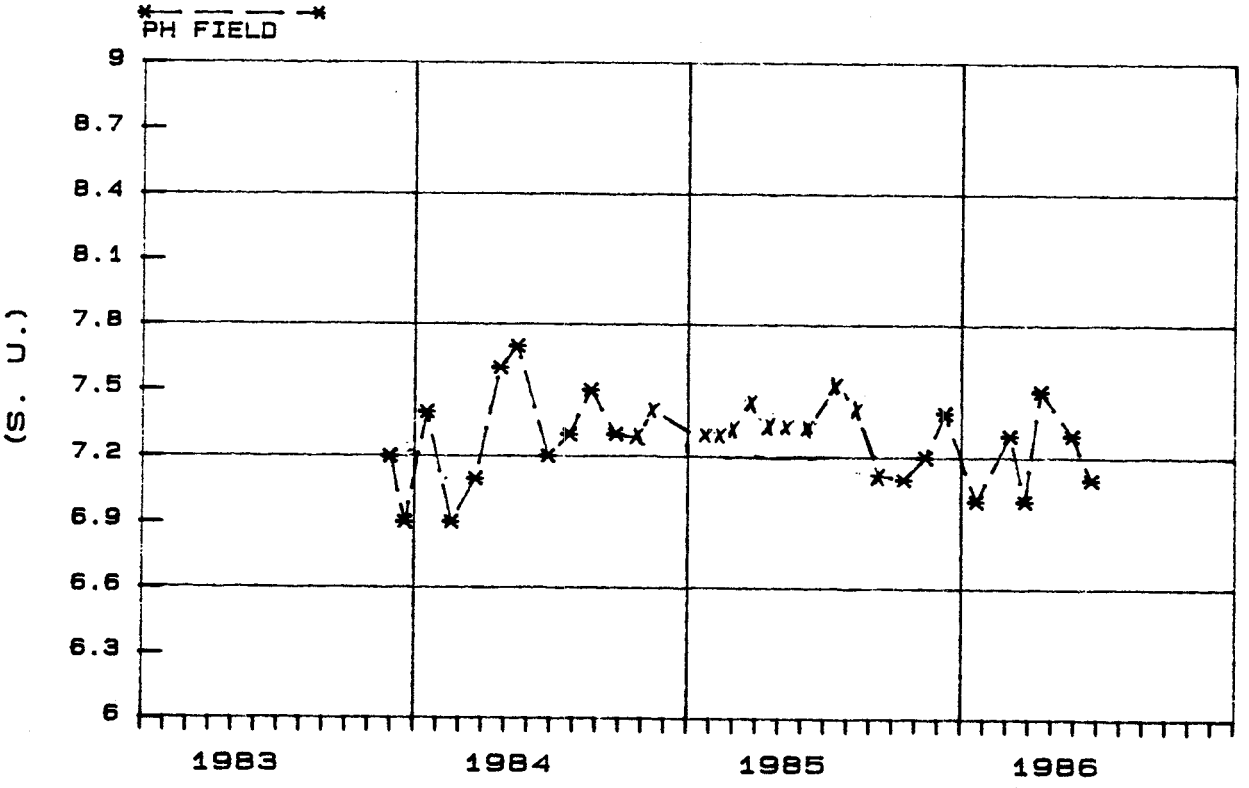


WATER QUALITY SITE: CS-12 DISCHARGE MINE NO.3



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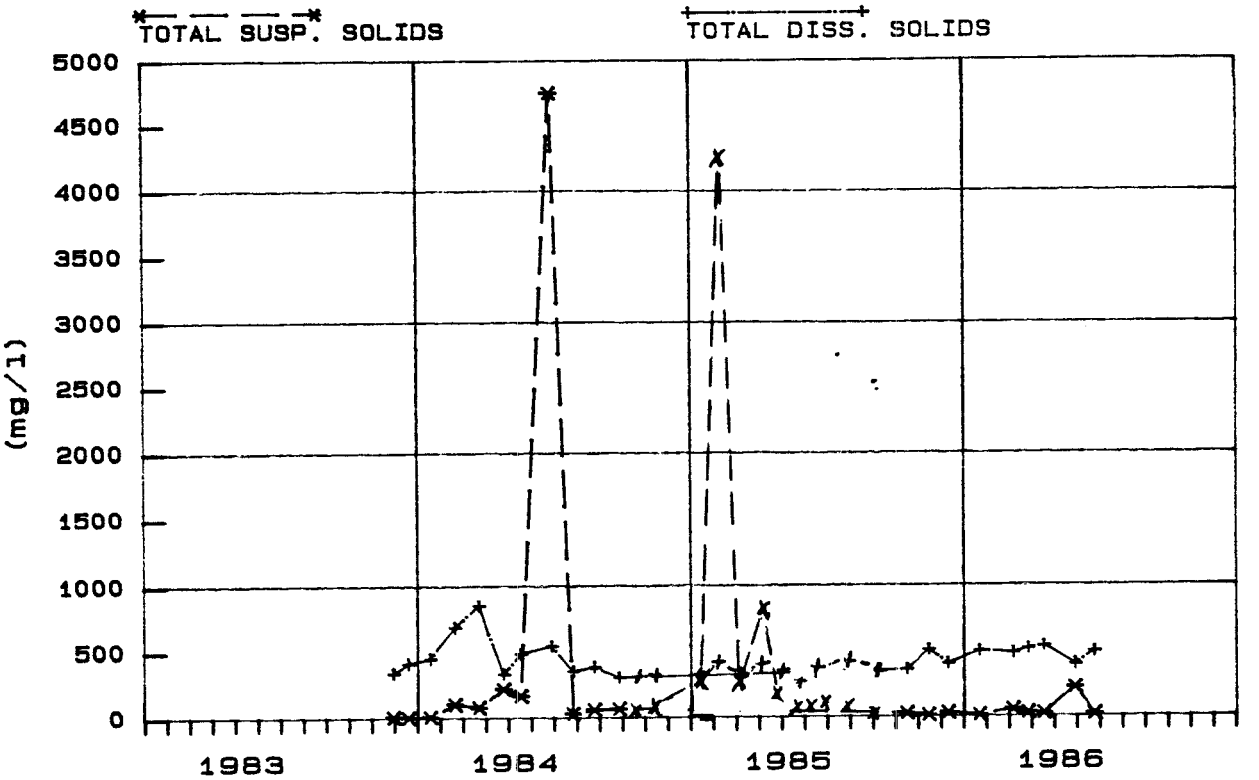

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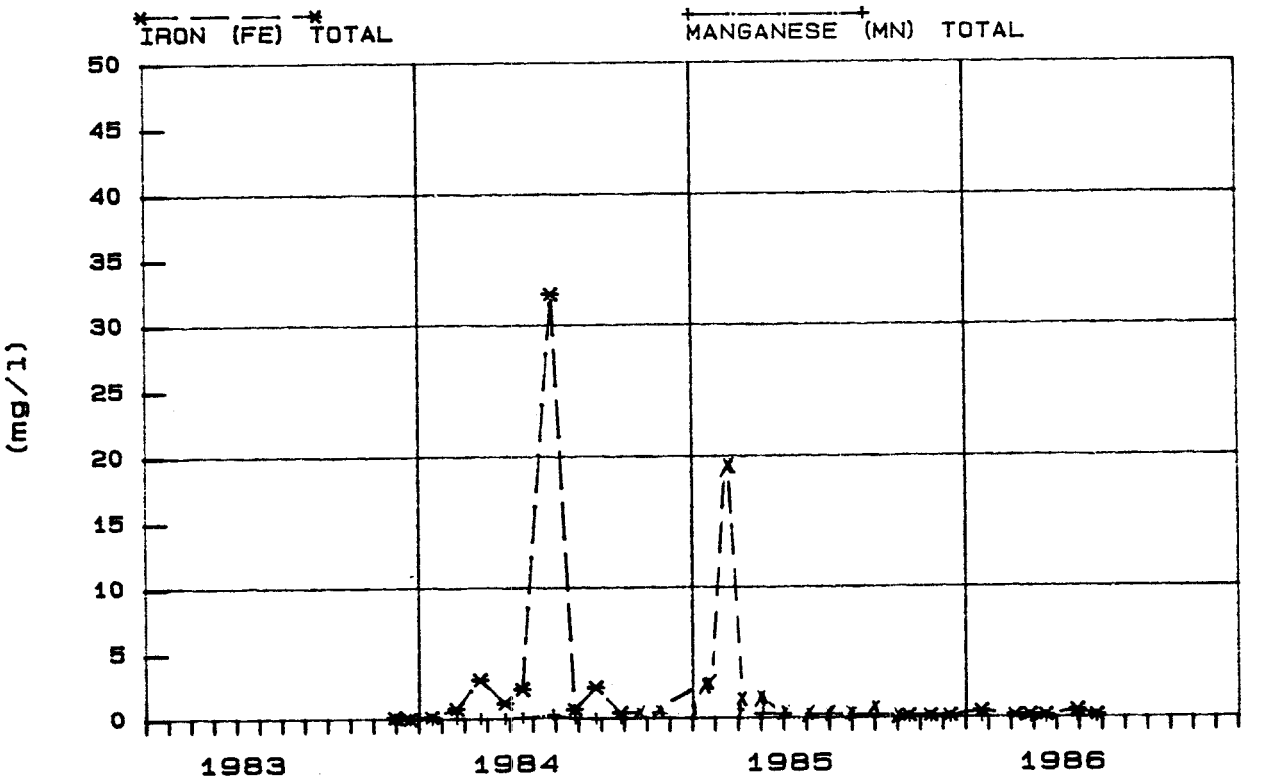

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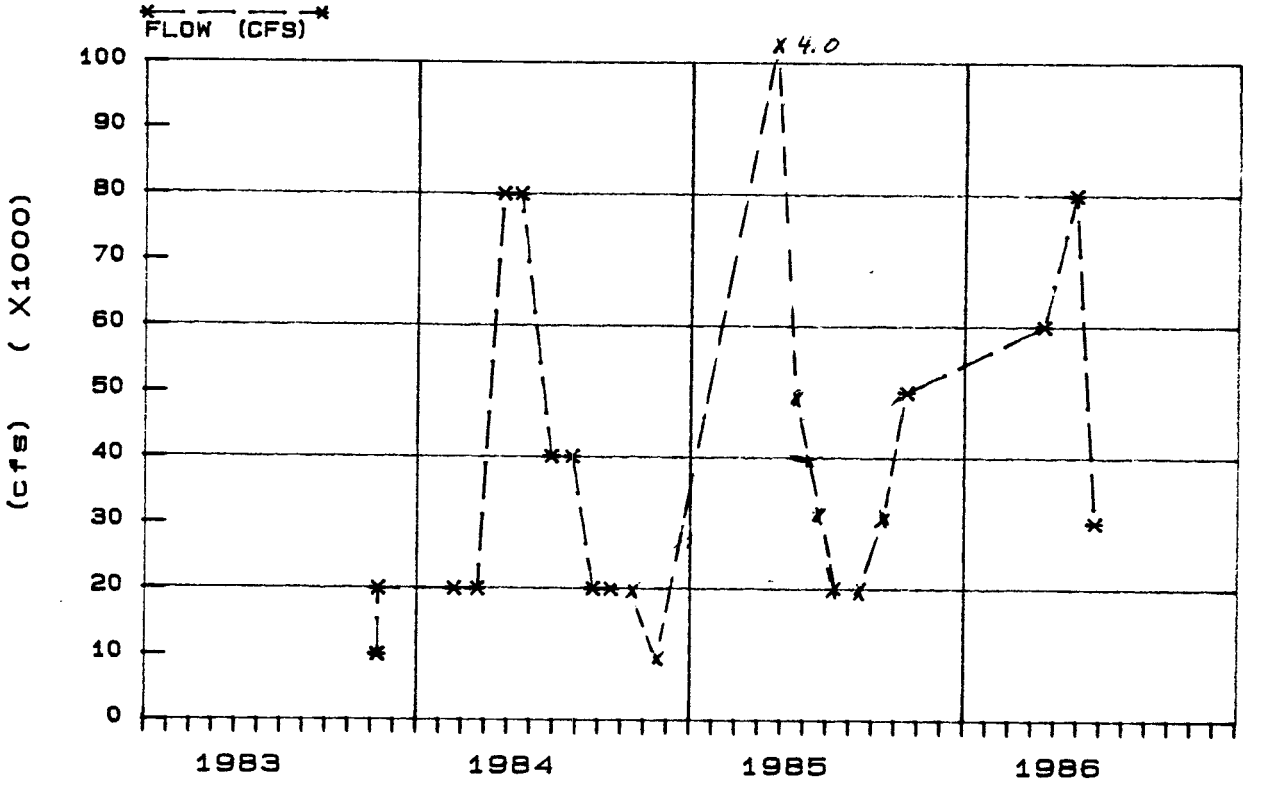
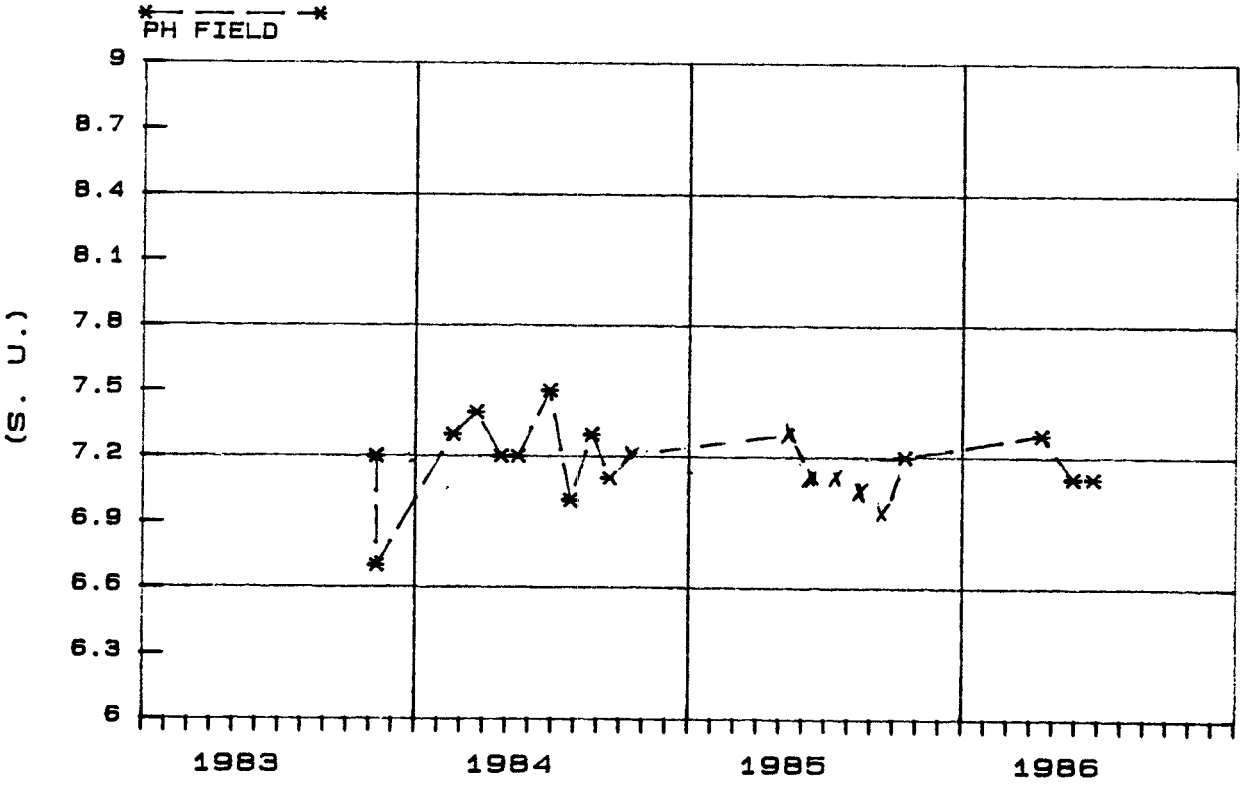
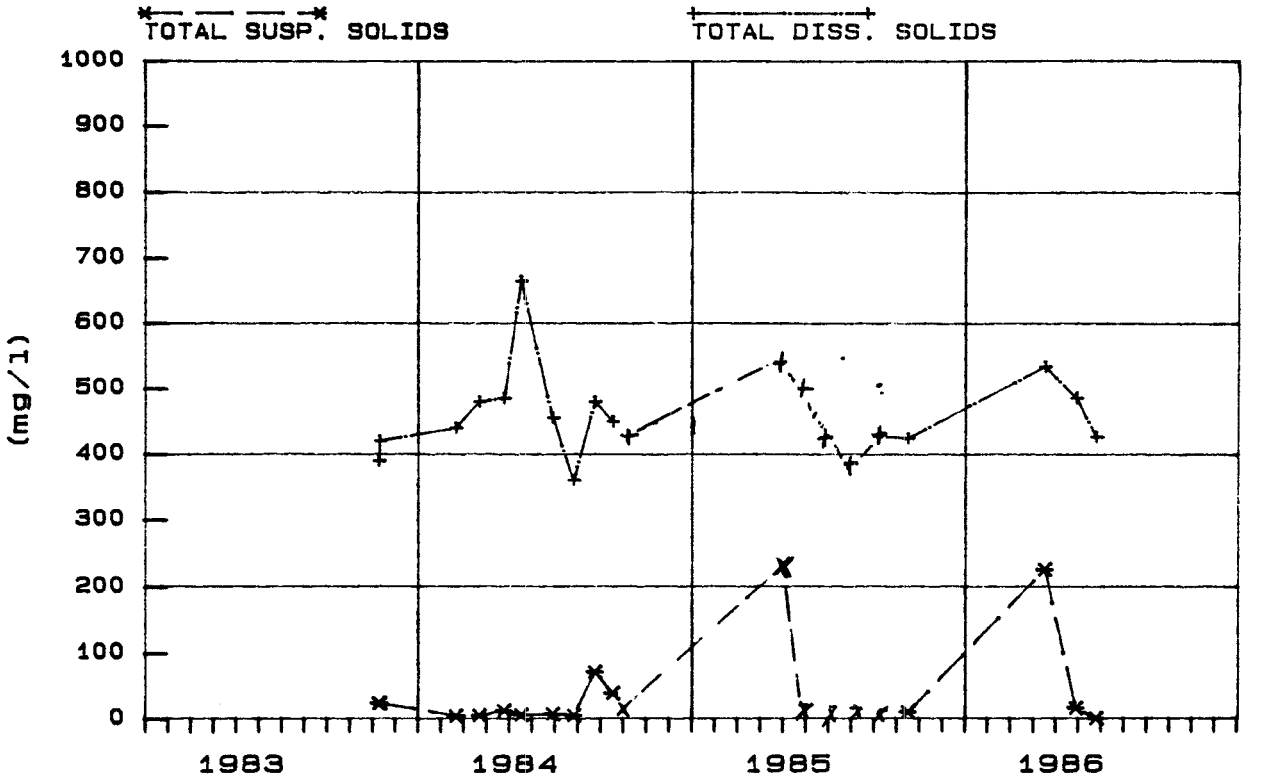


WATER QUALITY SITE: CS-13 FRENCH DR. N.LOADOUT



WATER QUALITY SITE: CS-13 FRENCH DR. N.LOADOUT



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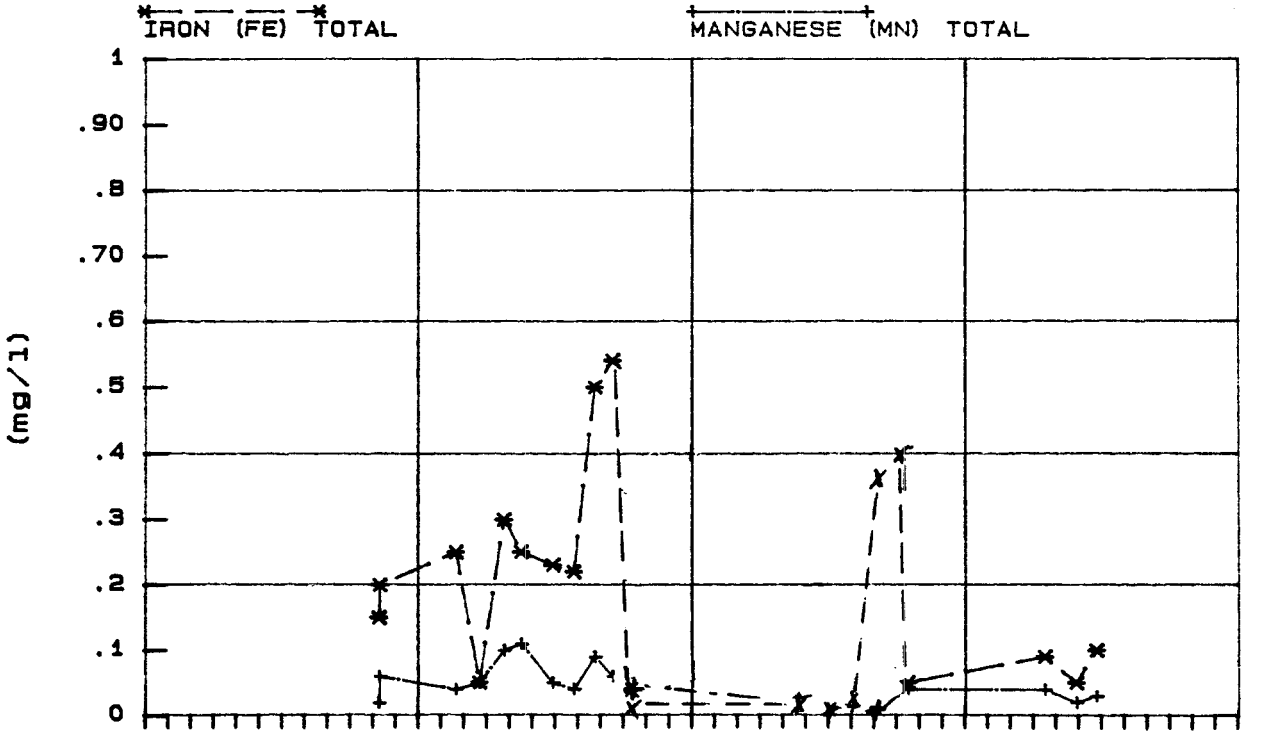

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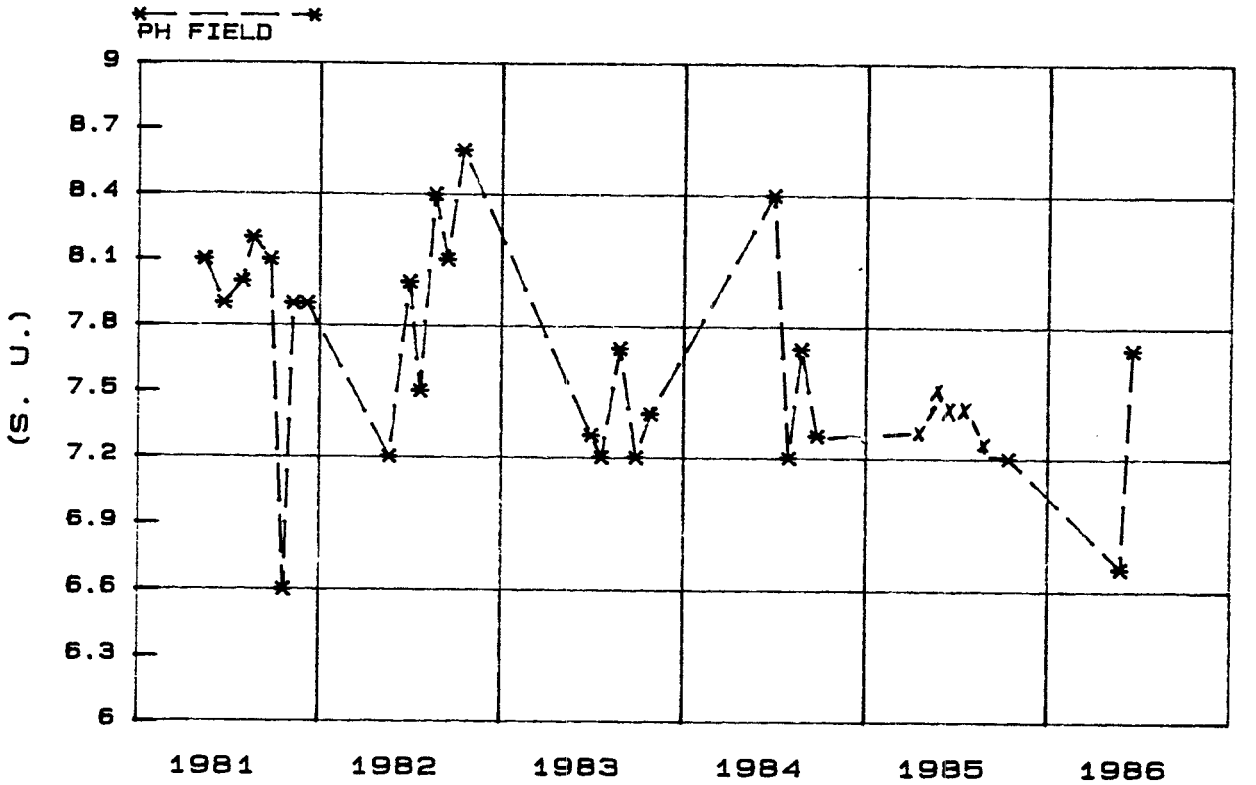
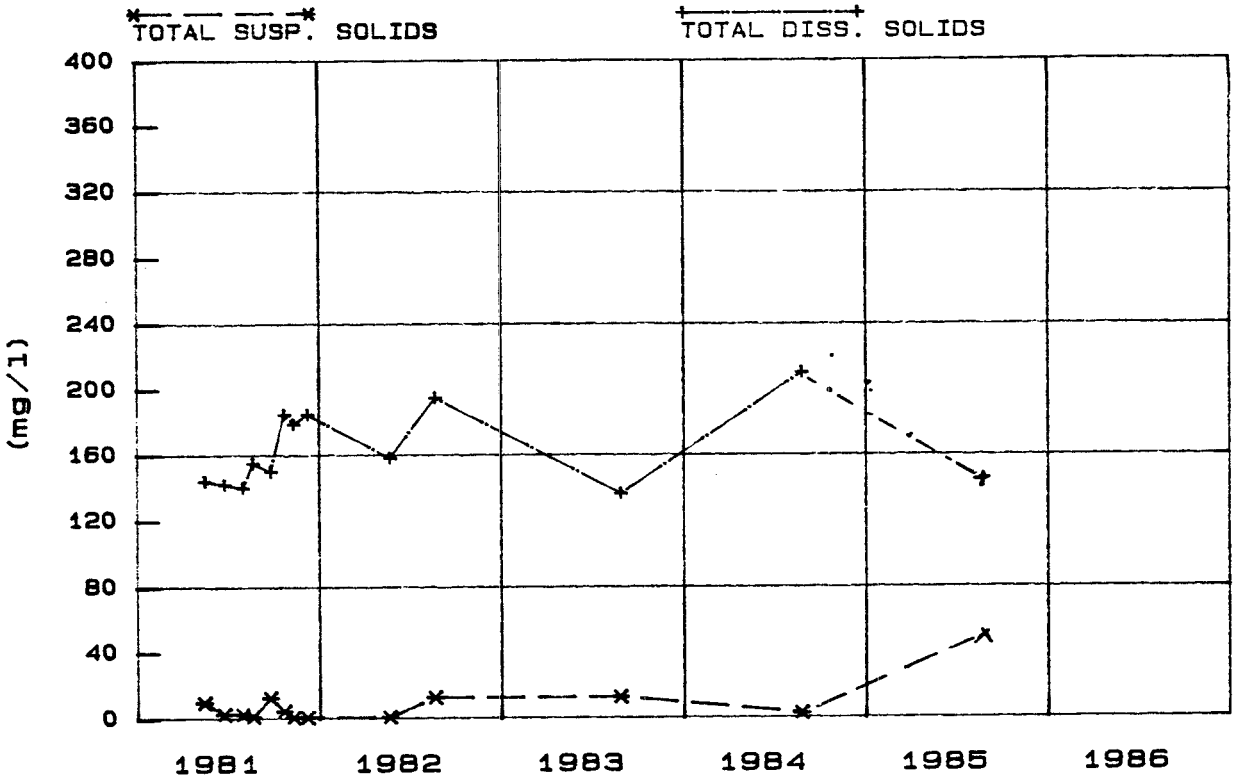
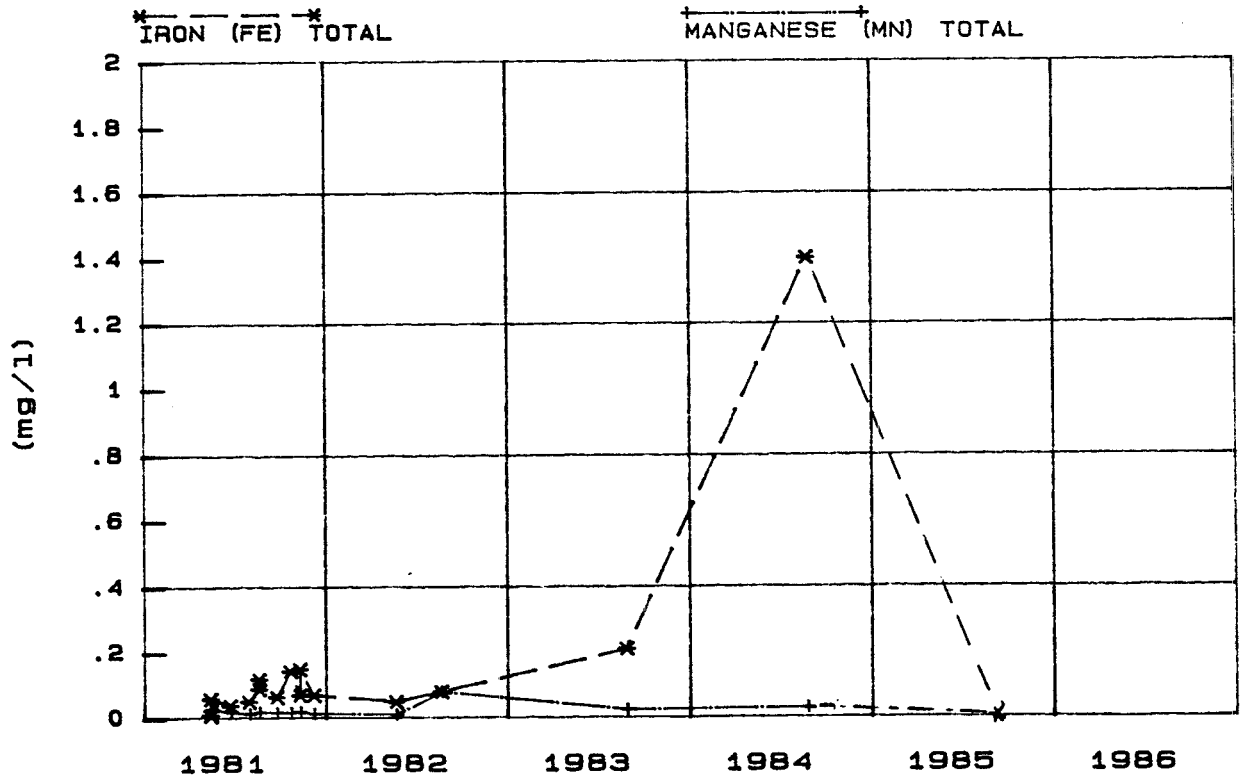


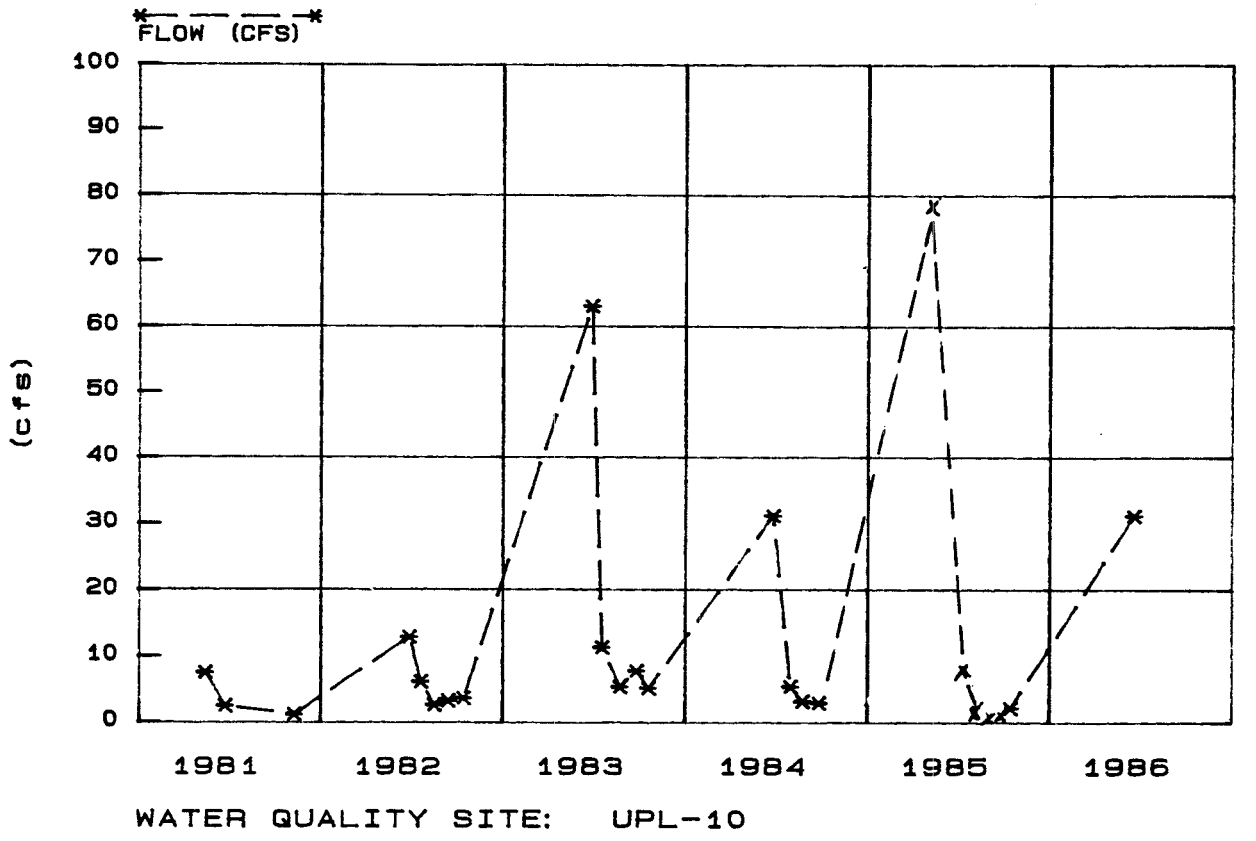
WATER QUALITY SITE: UPL-3 HUNT.CR.BLW ELECTRIC LK

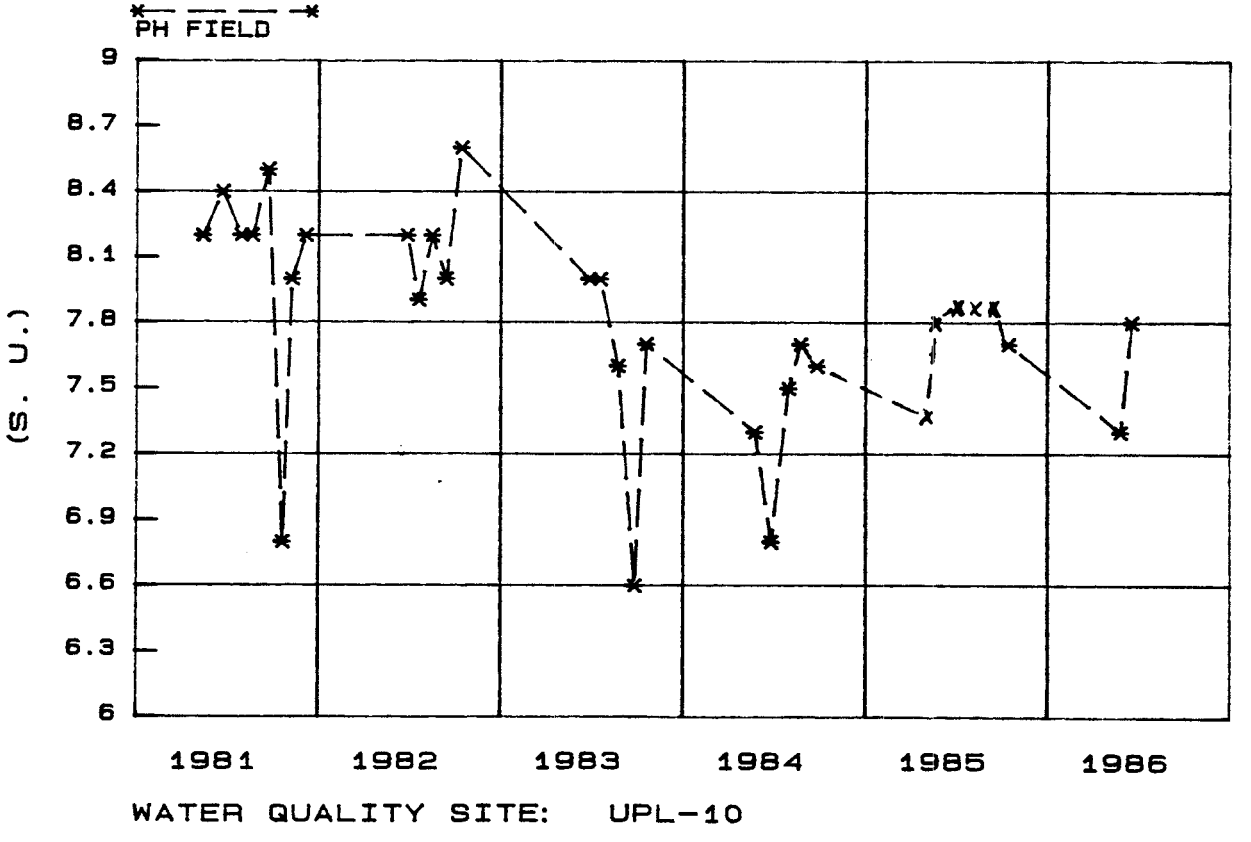


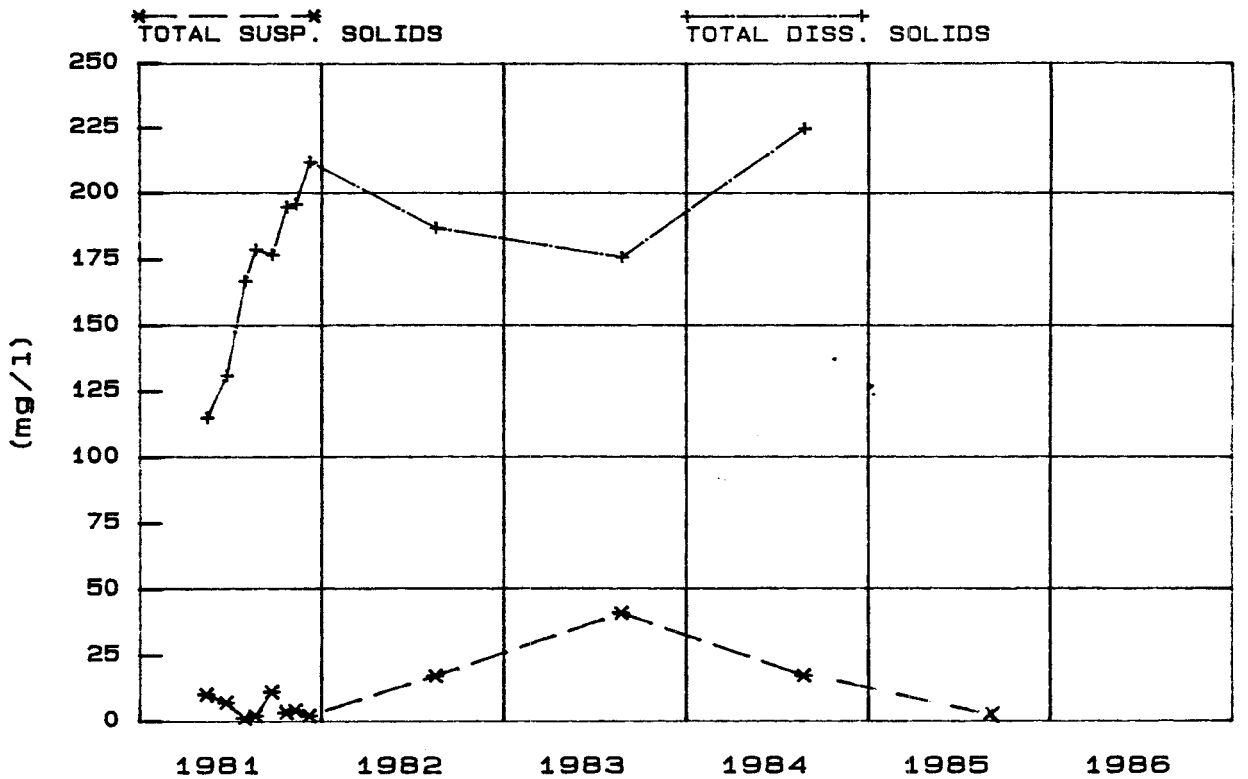
WATER QUALITY SITE: UPL-3 HUNT.CR.BLW ELECTRIC LK



WATER QUALITY SITE: UPL-3 HUNT.CR.BLW ELECTRIC LK


FLOW (CFS)
(cfs)
100
90
80
70
60
50
40
30
20
10
0
1981
1982
1983
1984
1985
1986
WATER QUALITY SITE: UPL-10


PH FIELD
(S. U.)
9
8.7
8.4
8.1
7.8
7.5
7.2
6.9
6.6
6.3
6
1981
1982
1983
1984
1985
1986
WATER QUALITY SITE: UPL-10



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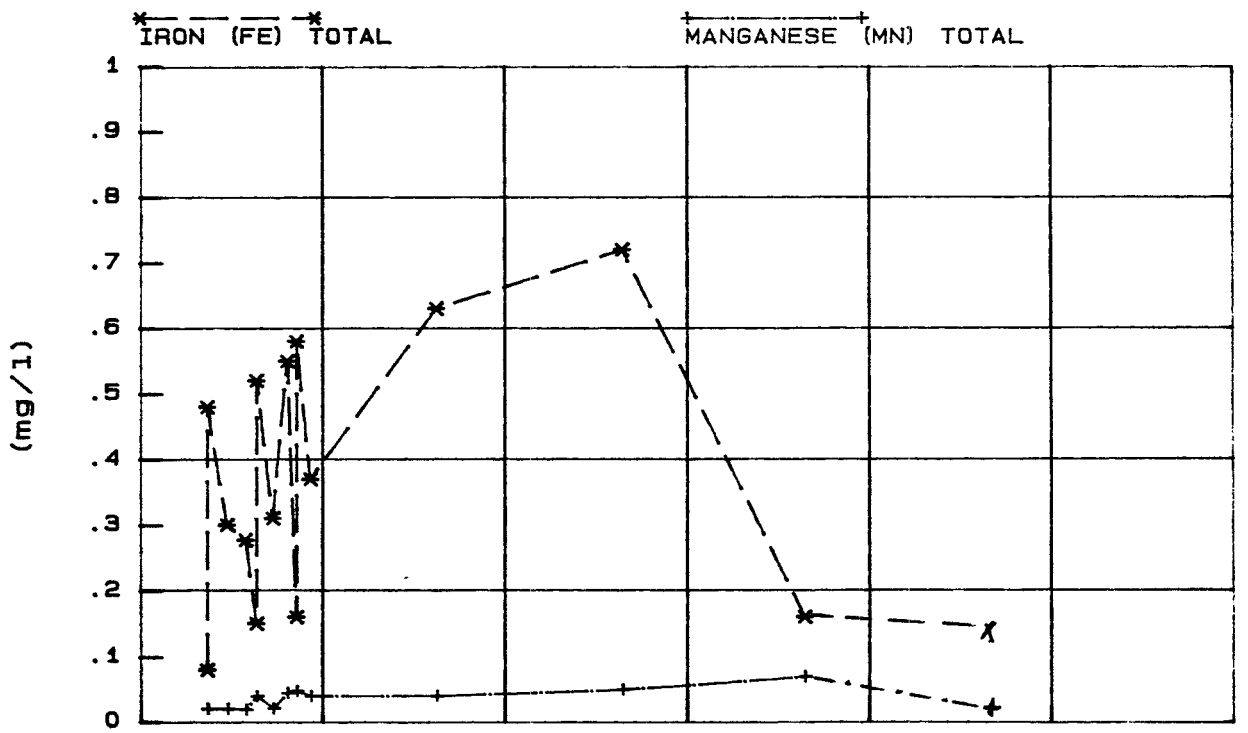

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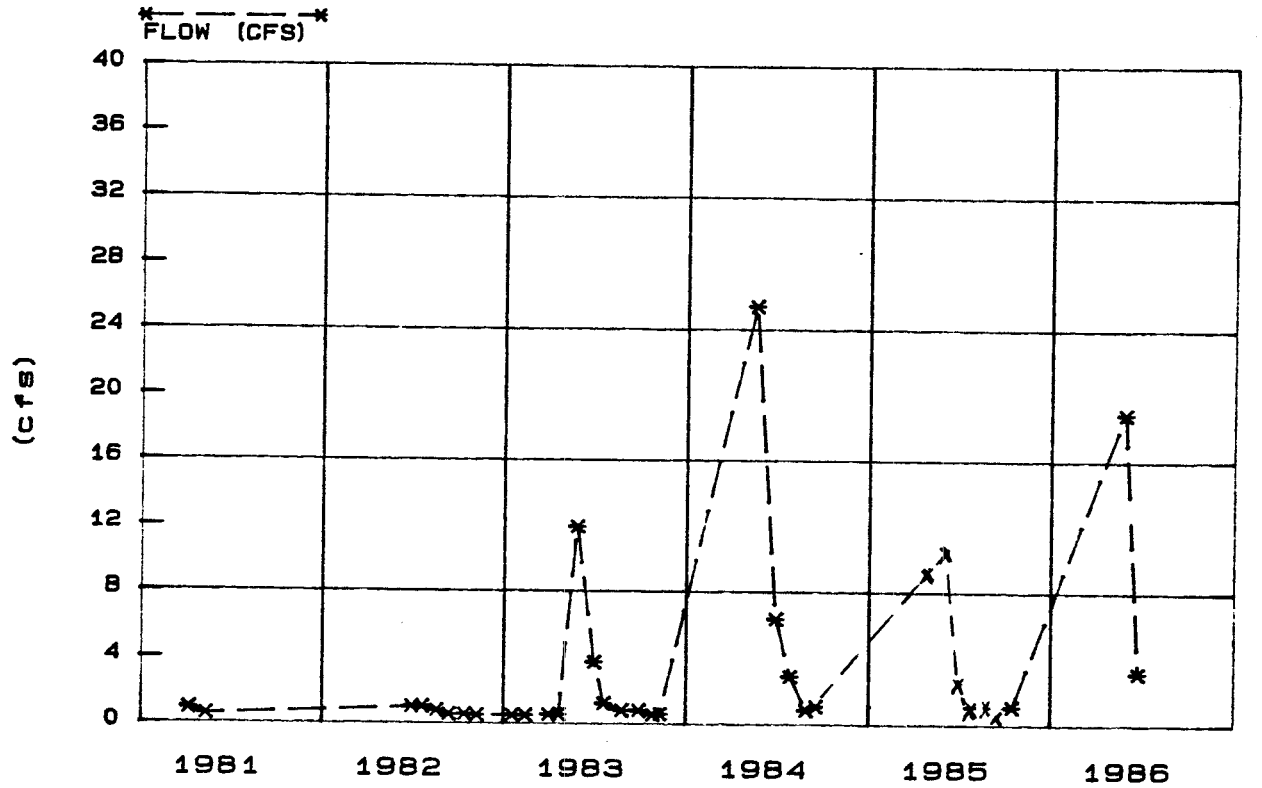

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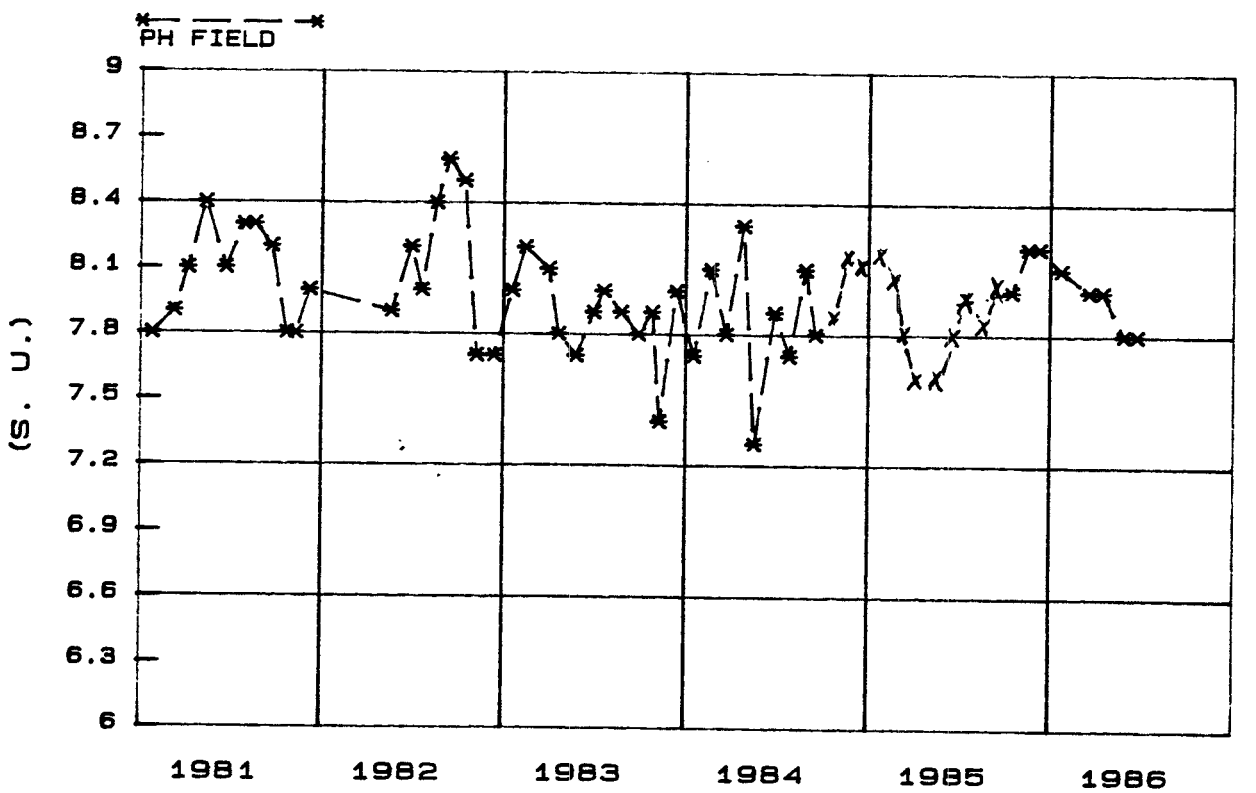

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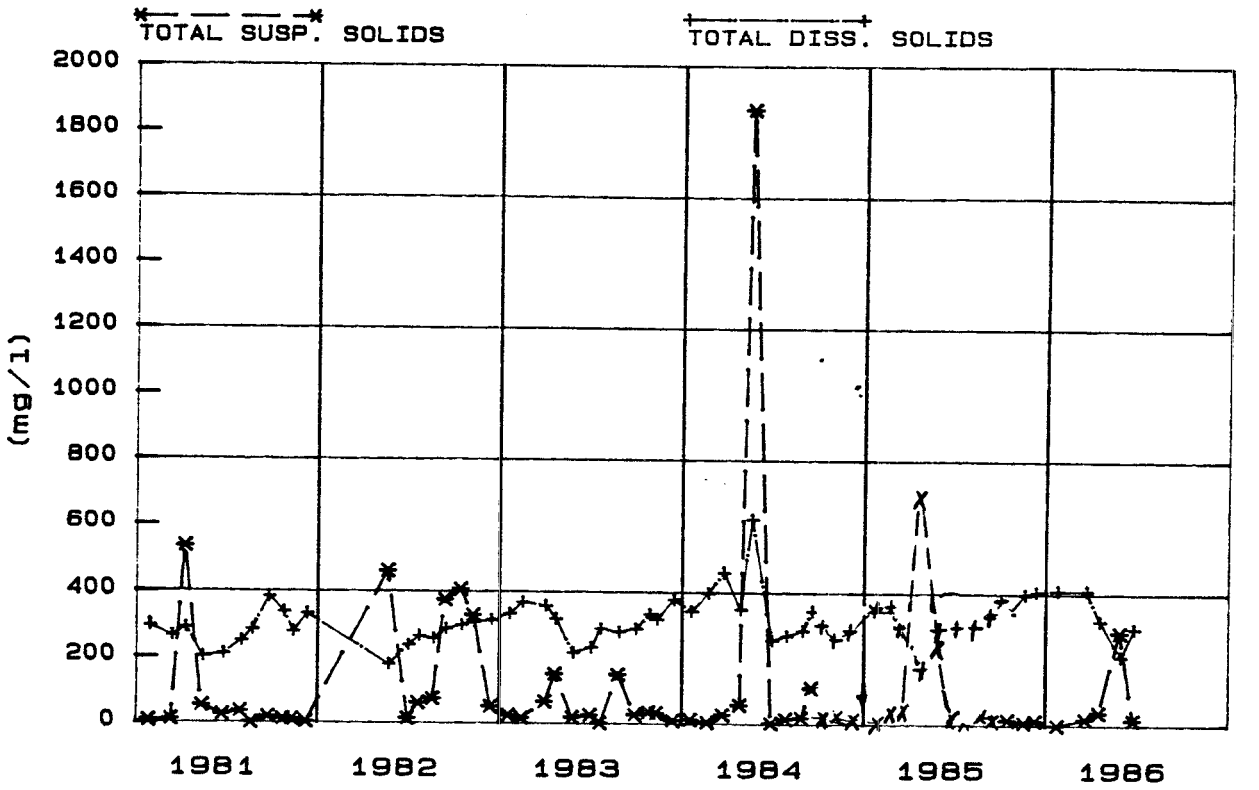

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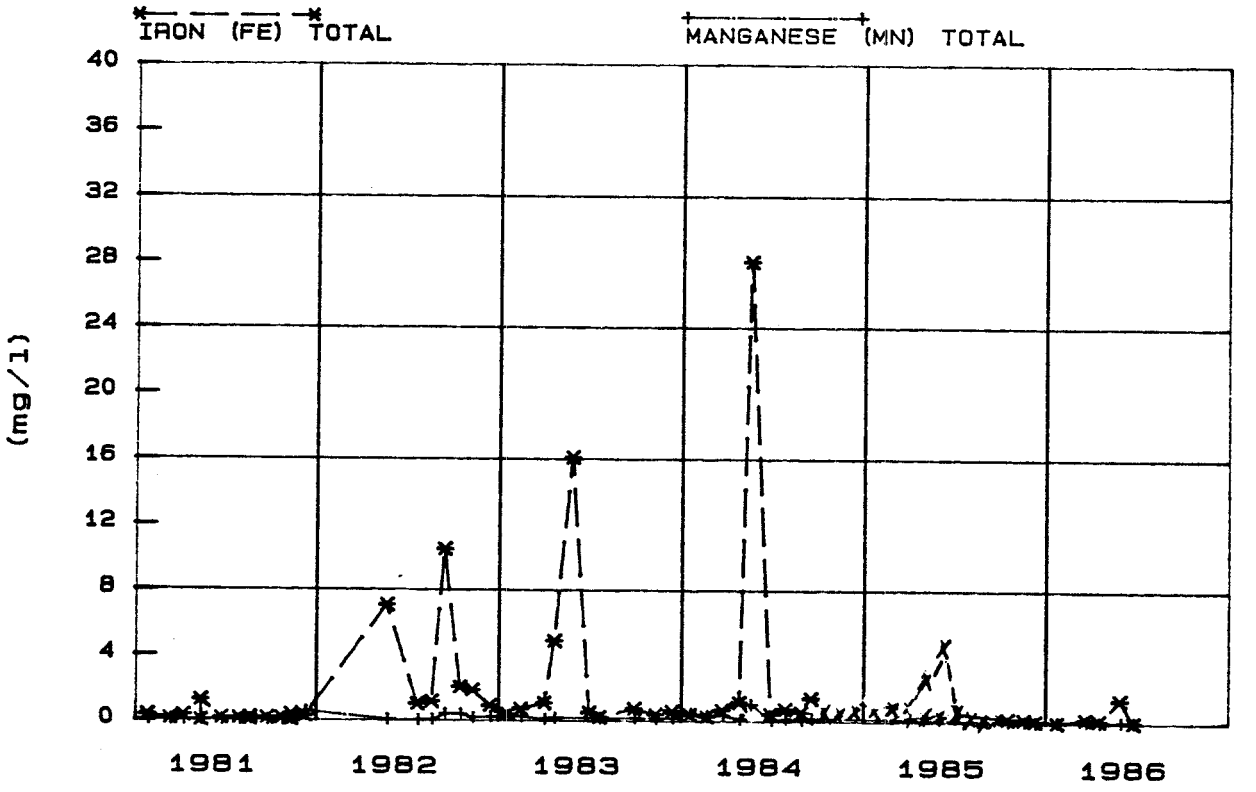

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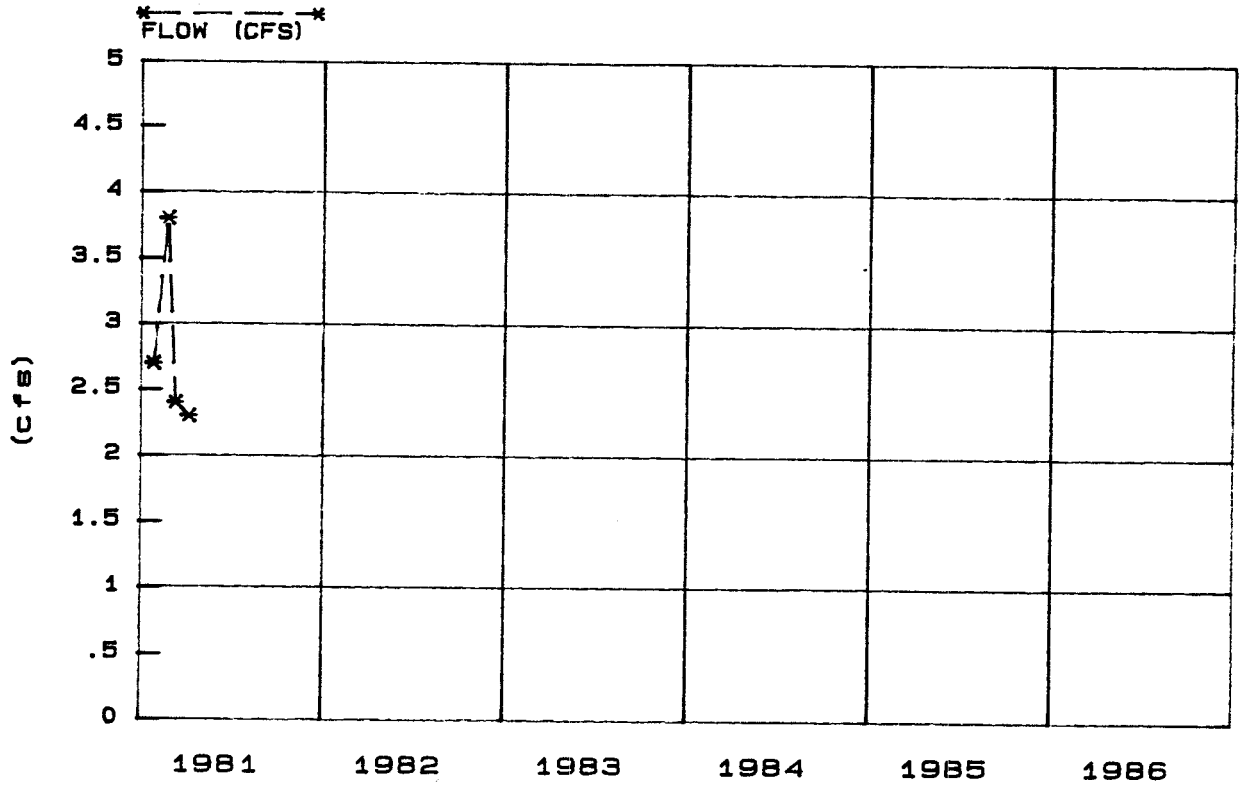
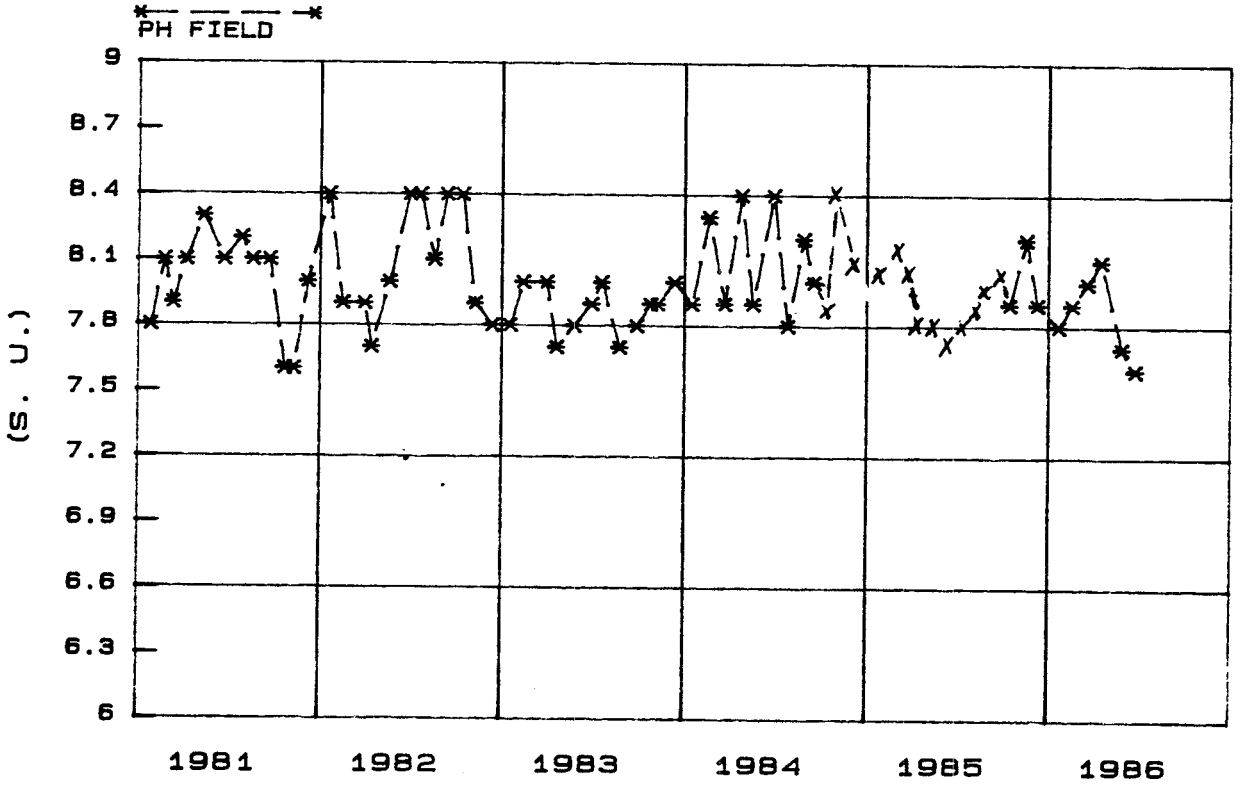


WATER QUALITY SITE: VC-9 ECCLES CR. ABV MUD CR.



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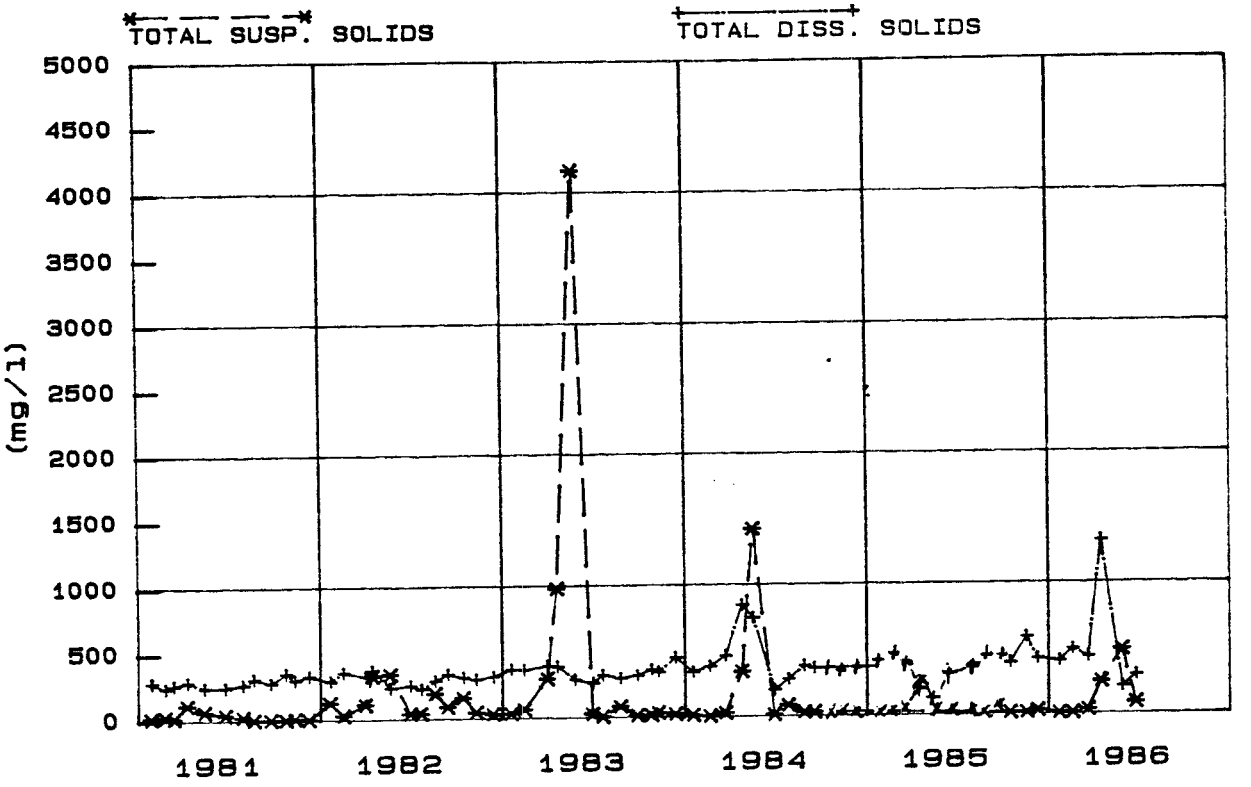

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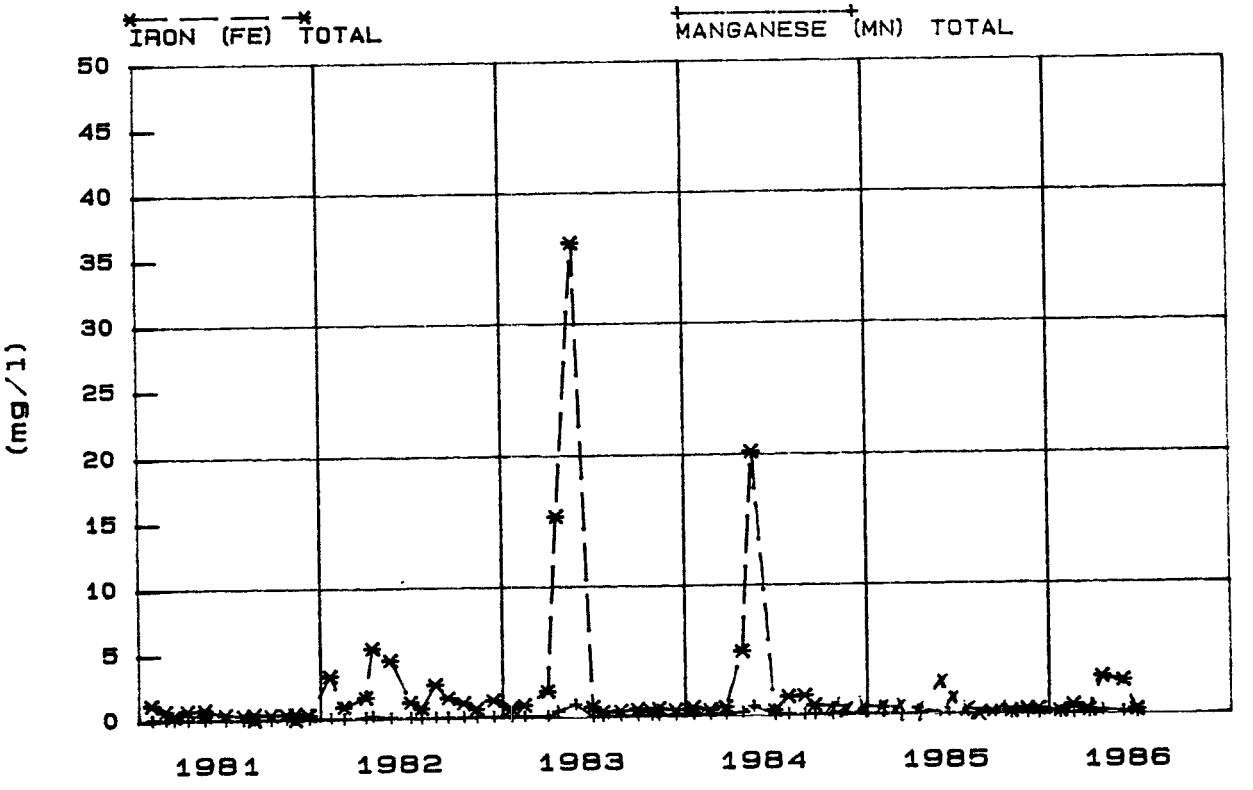

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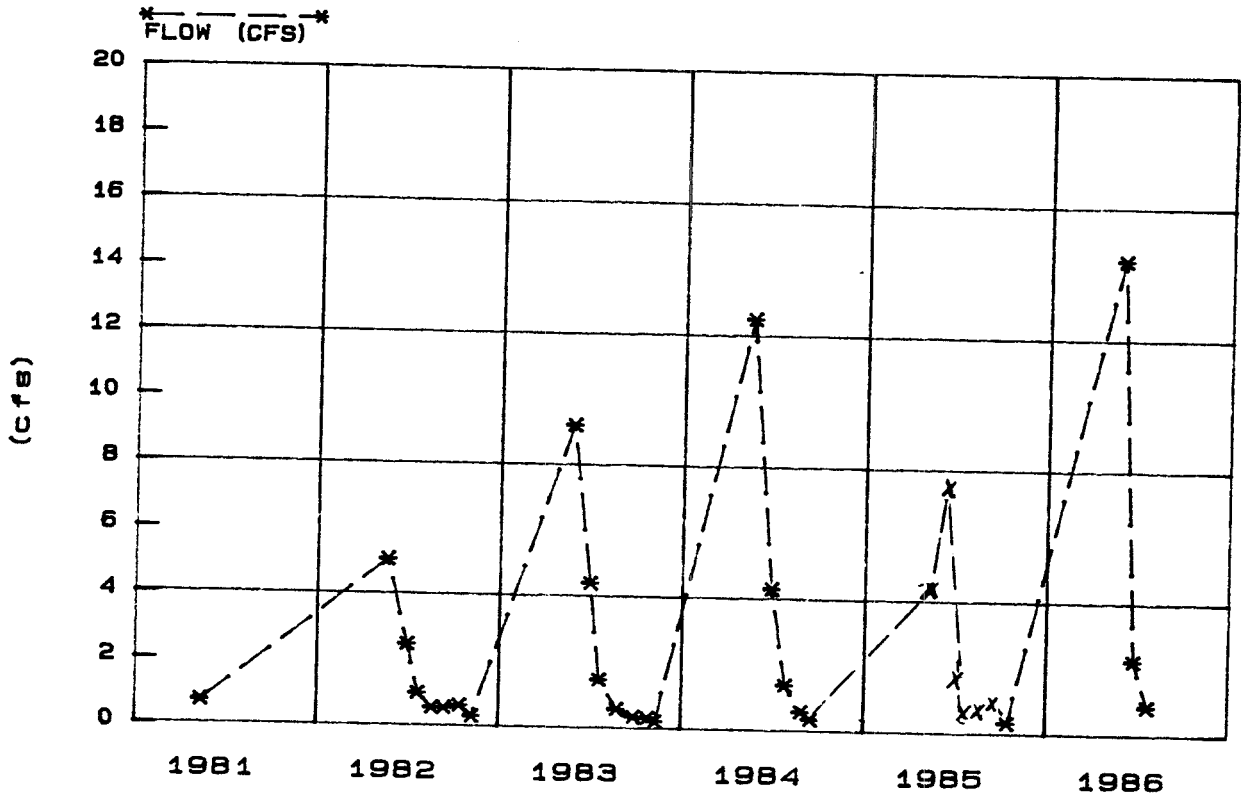
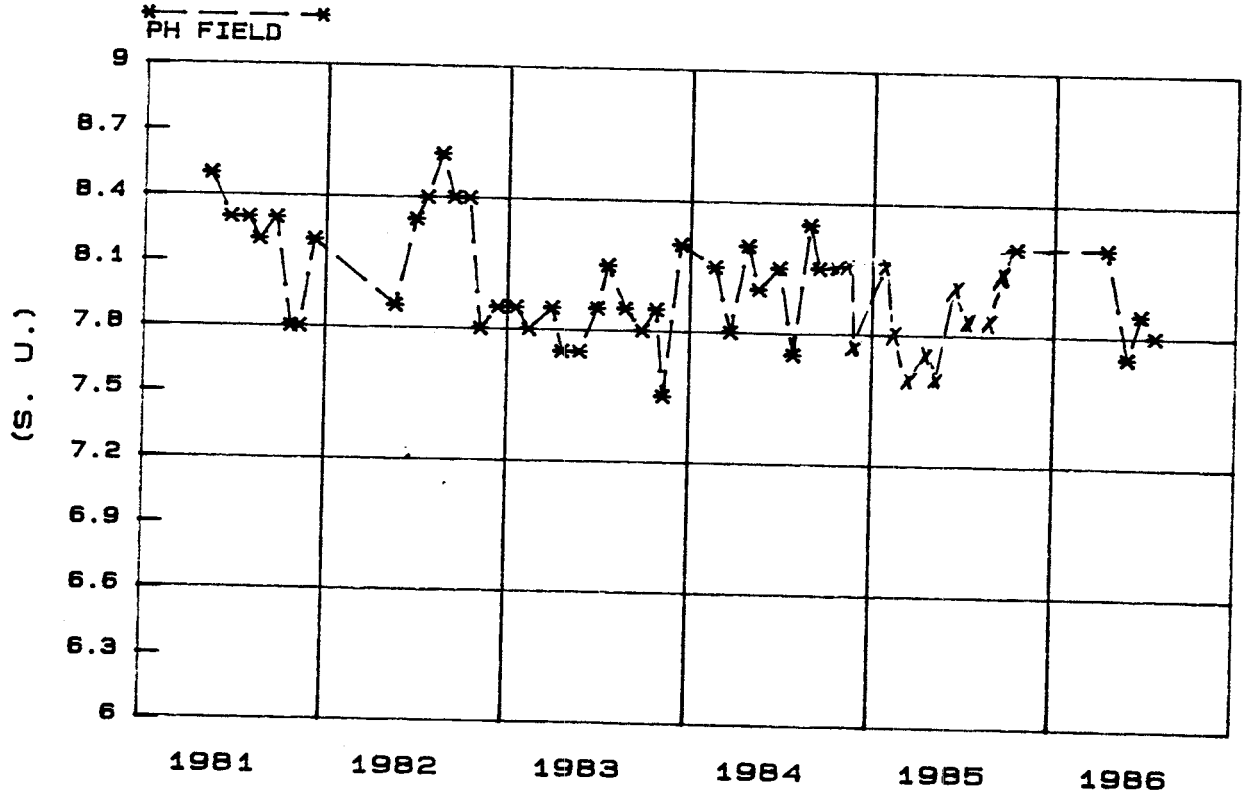
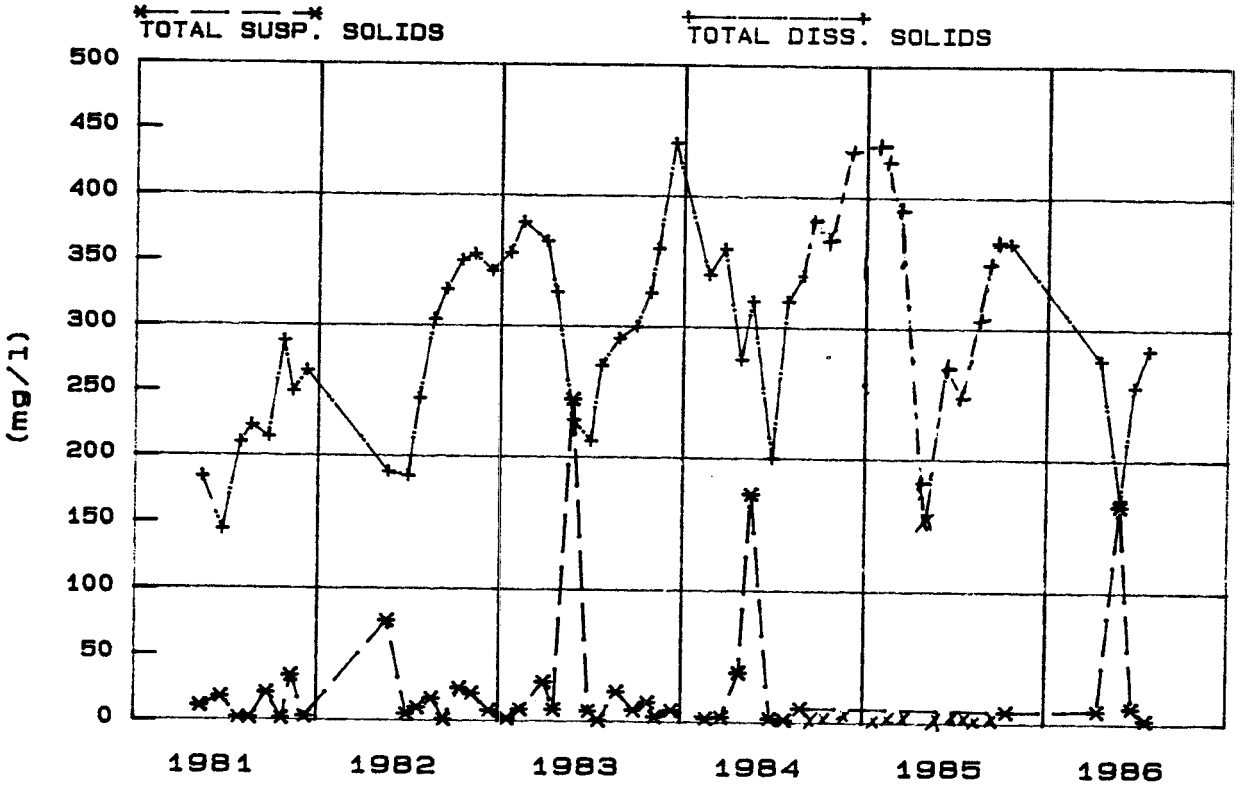


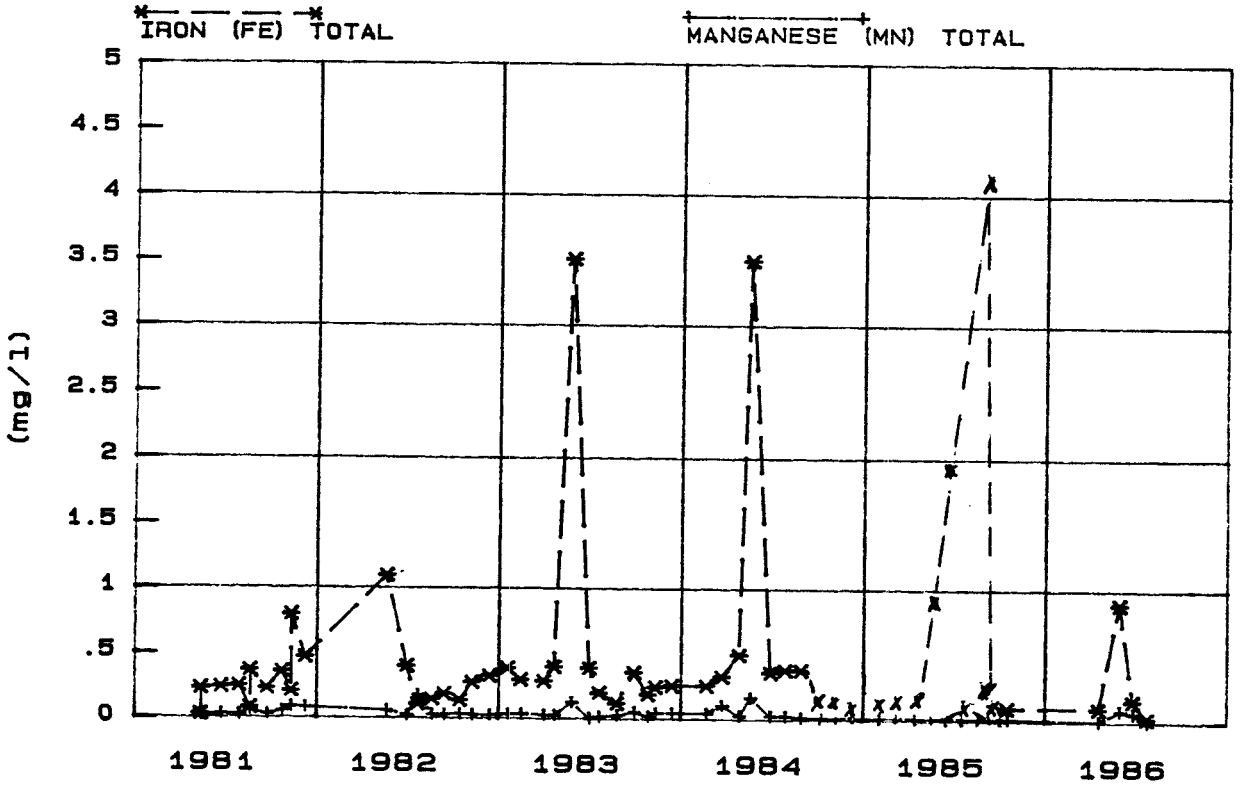
WATER QUALITY SITE: VC-10 ECCLES CR. ABV CONFLU



WATER QUALITY SITE: VC-10 ECCLES CR. ABV CONFLU



WATER QUALITY SITE: VC-10 ECCLES CR. ABV CONFLU



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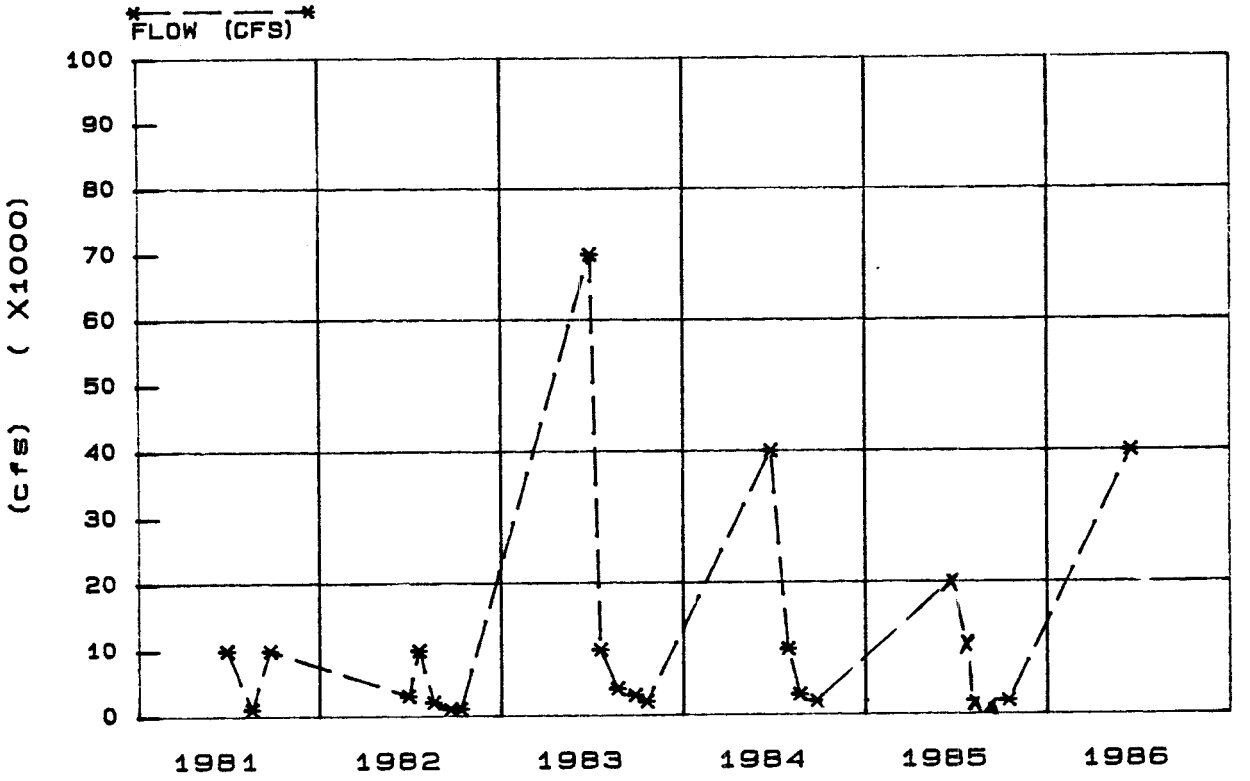
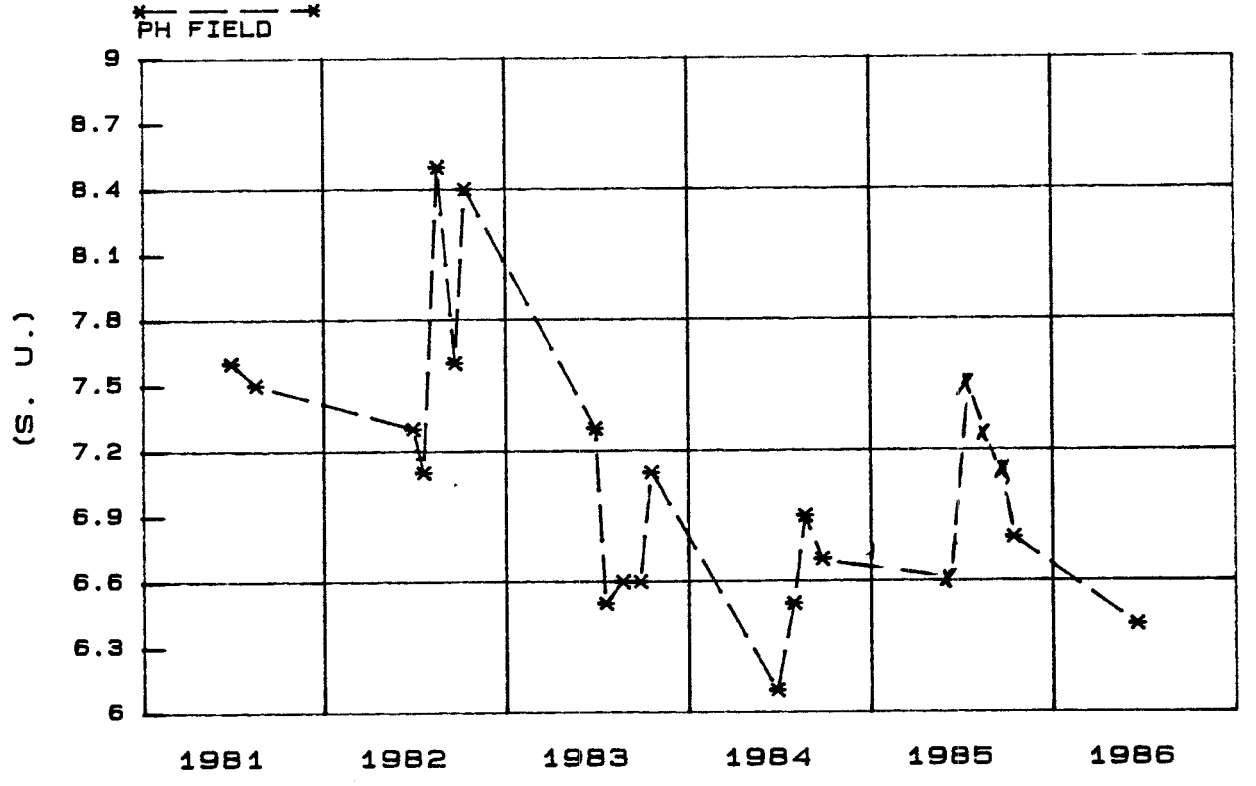
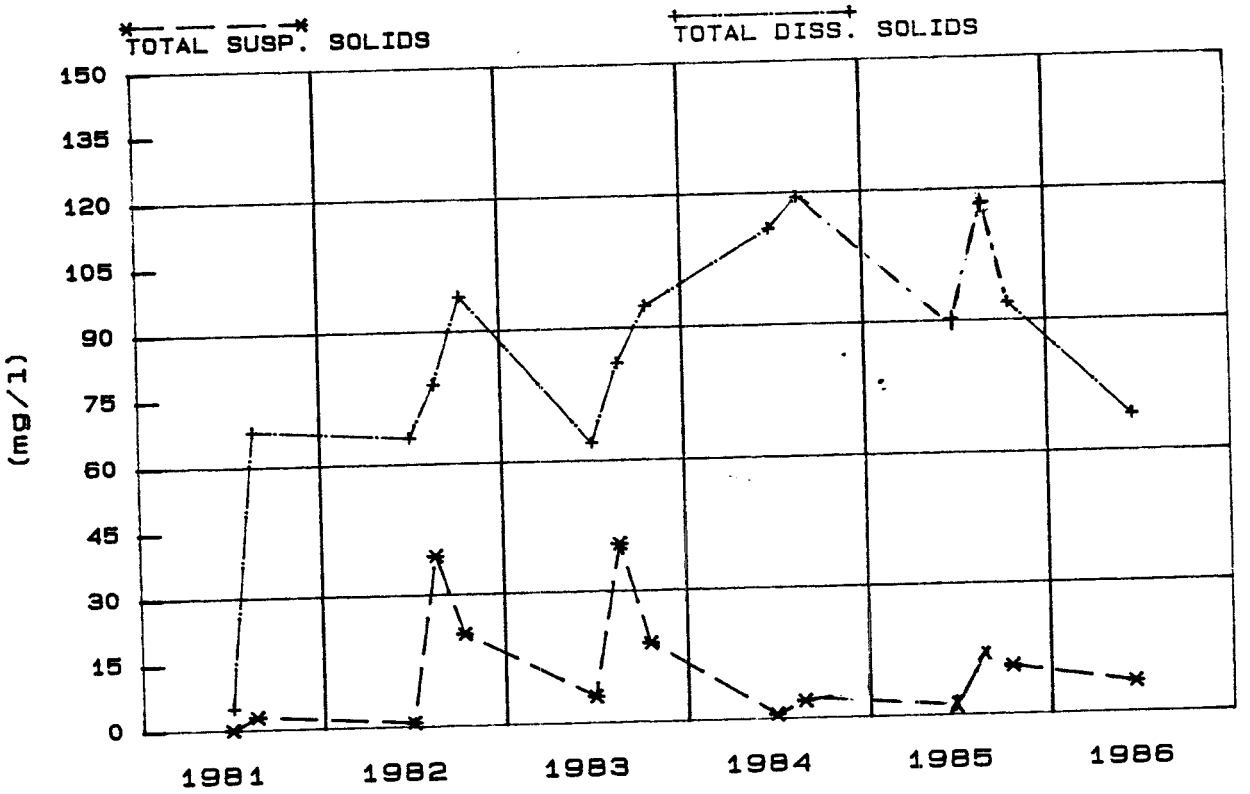


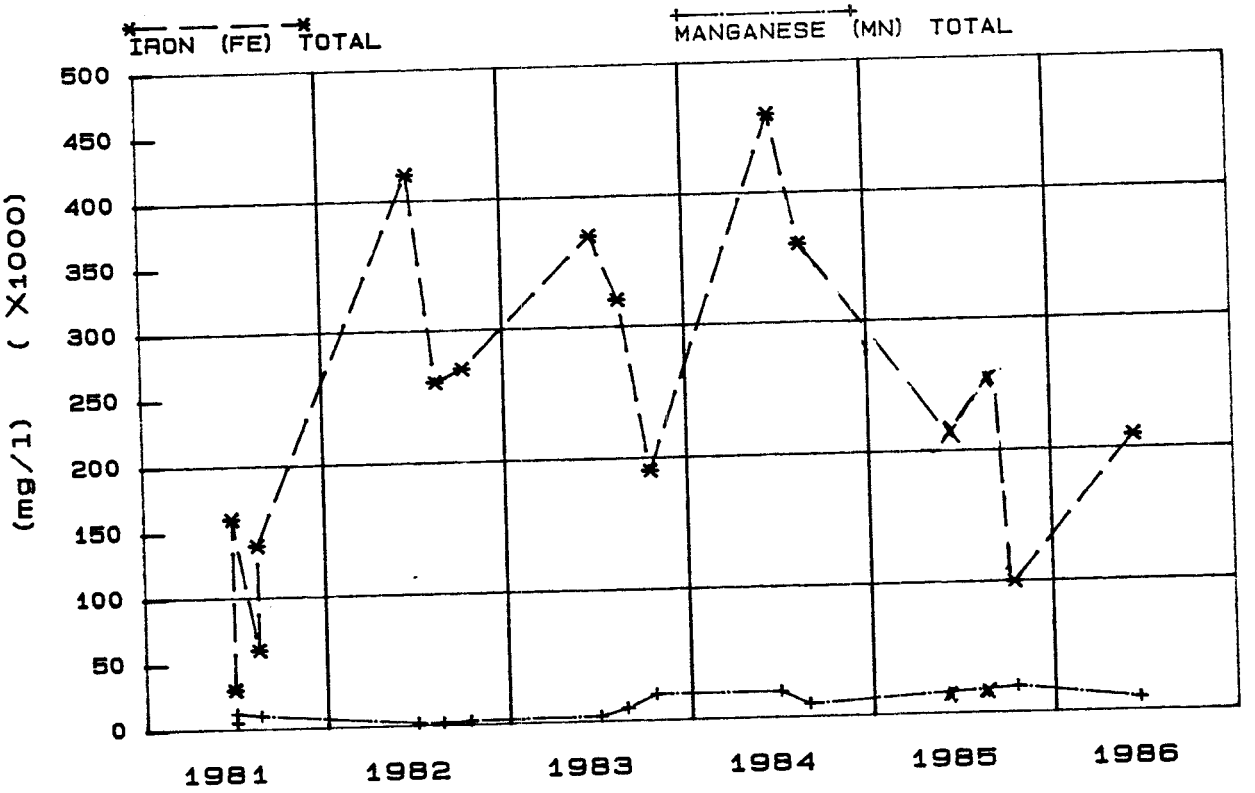
WATER QUALITY SITE: S10-1



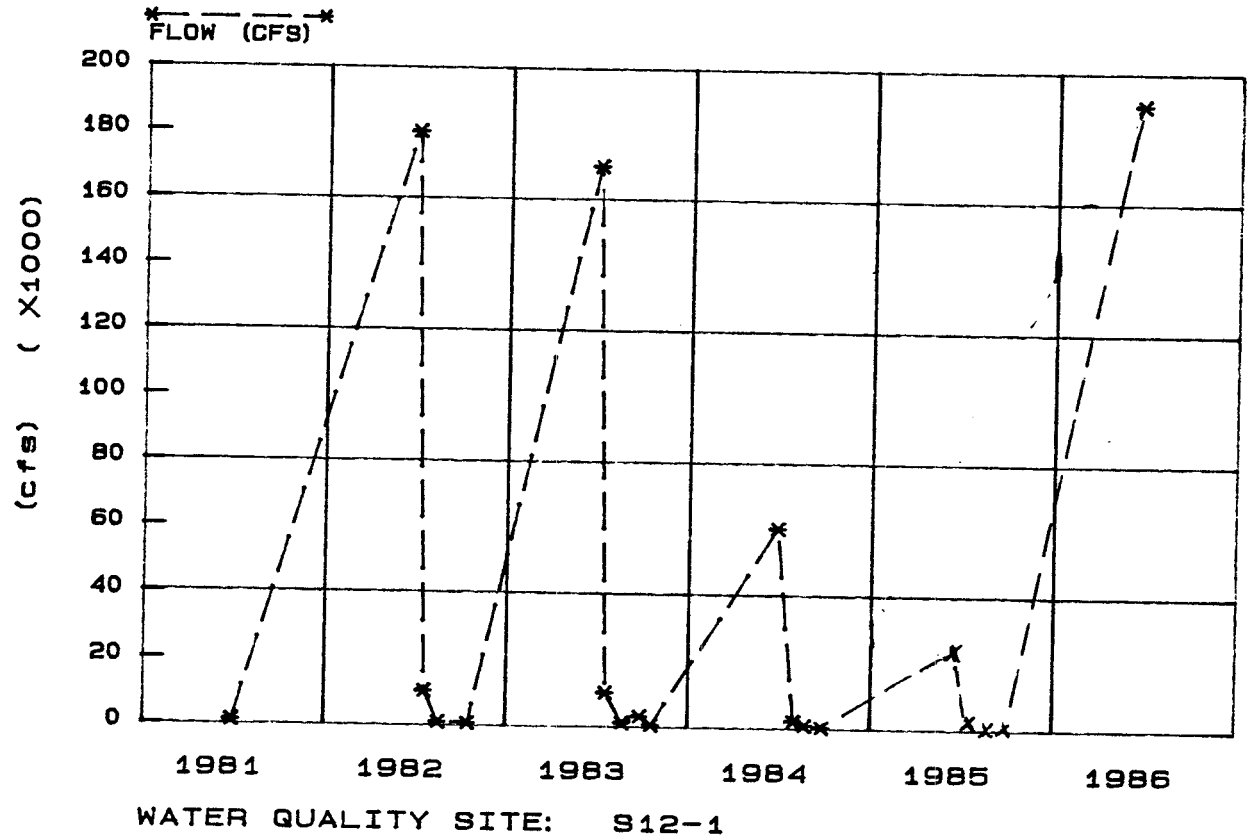
WATER QUALITY SITE: S10-1

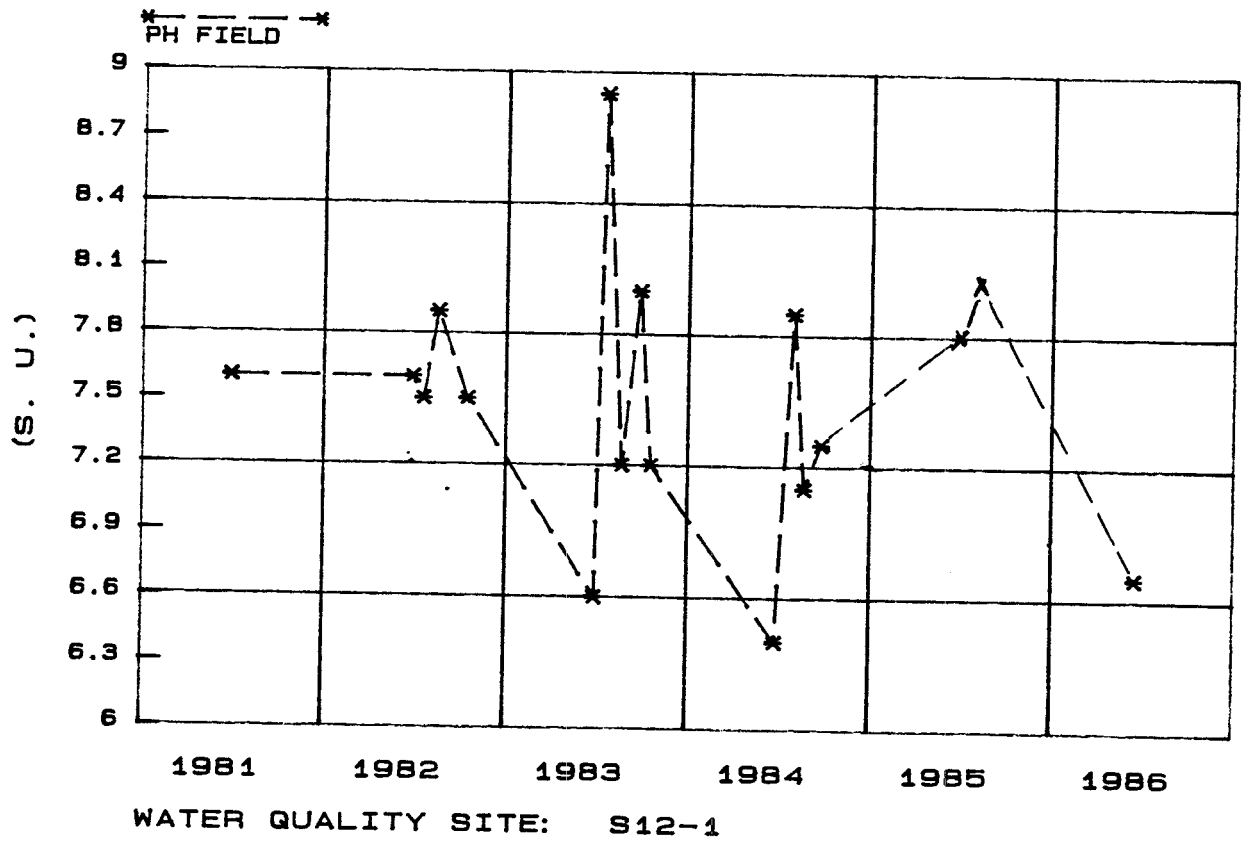


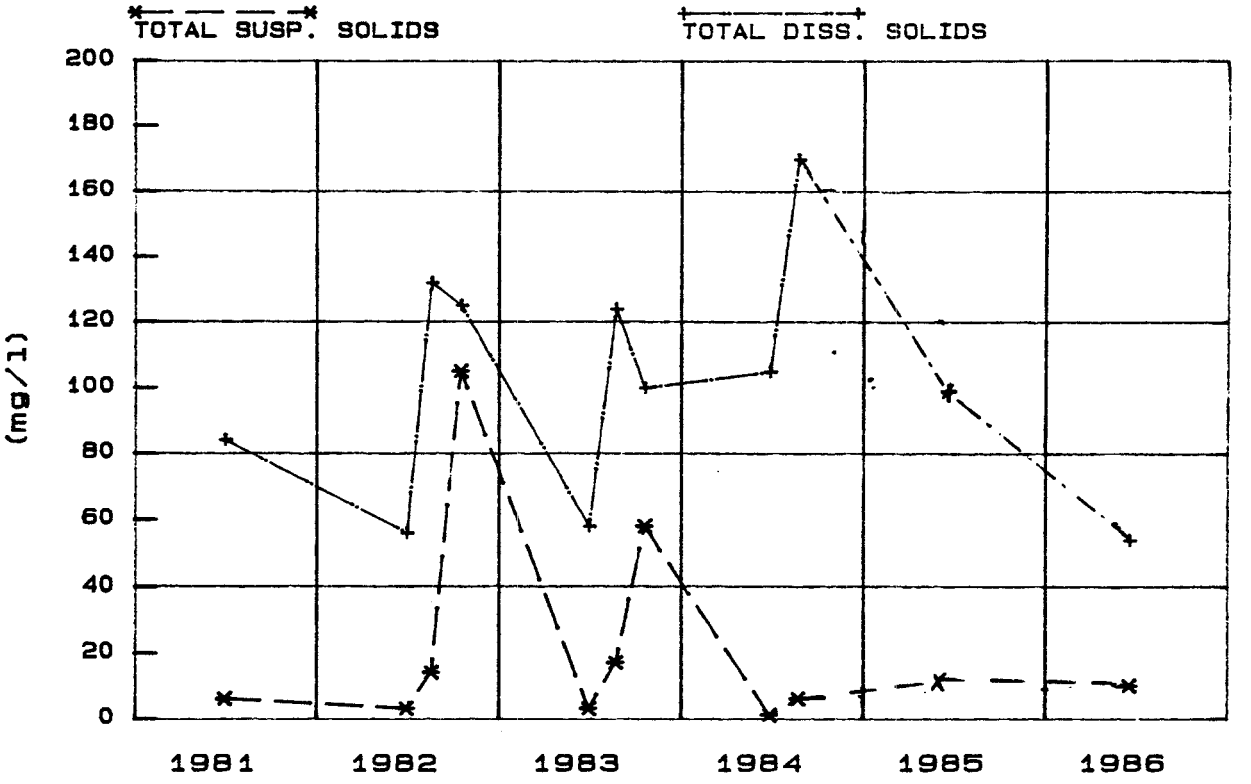
WATER QUALITY SITE: S10-1



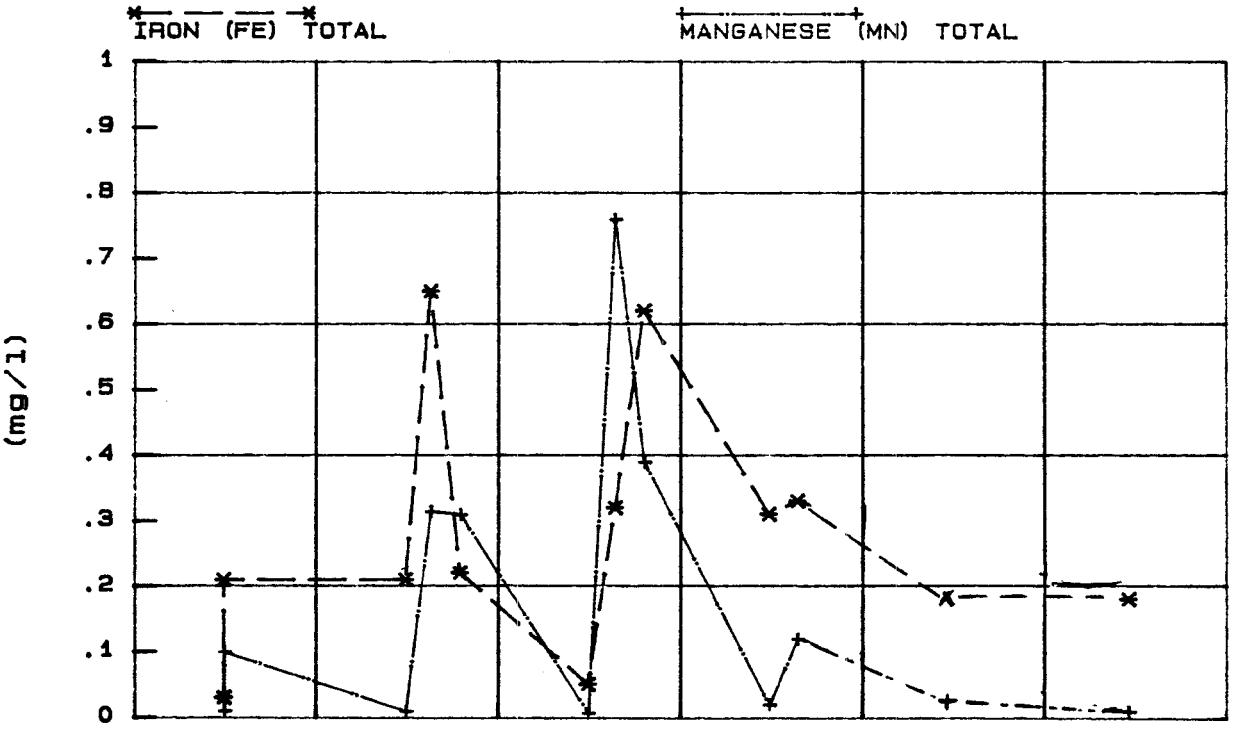
WATER QUALITY SITE: S10-1


FLOW (CFS)
(cfs) (X1000)
200
180
160
140
120
100
80
60
40
20
0
1981
1982
1983
1984
1985
1986
WATER QUALITY SITE: S12-1

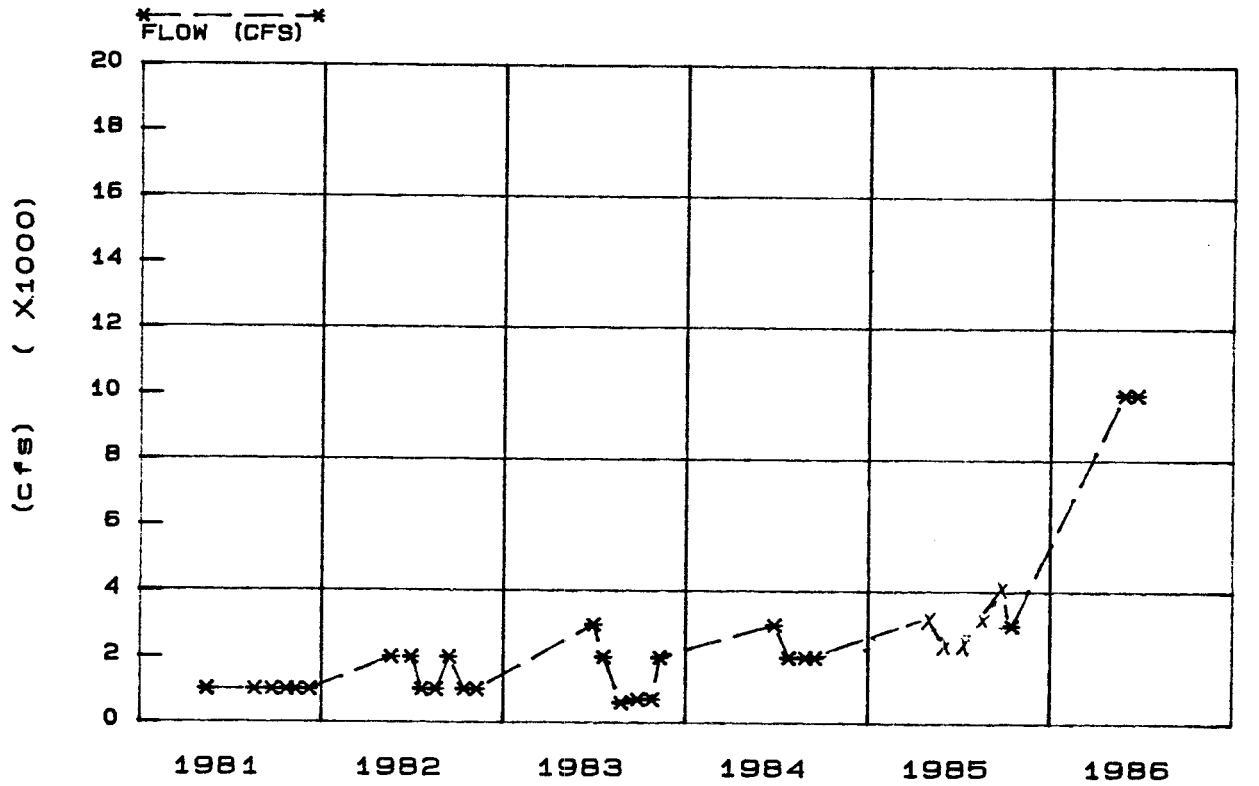

PH FIELD
(S. U.)
9
8.7
8.4
8.1
7.8
7.5
7.2
6.9
6.6
6.3
6
1981
1982
1983
1984
1985
1986
WATER QUALITY SITE: S12-1



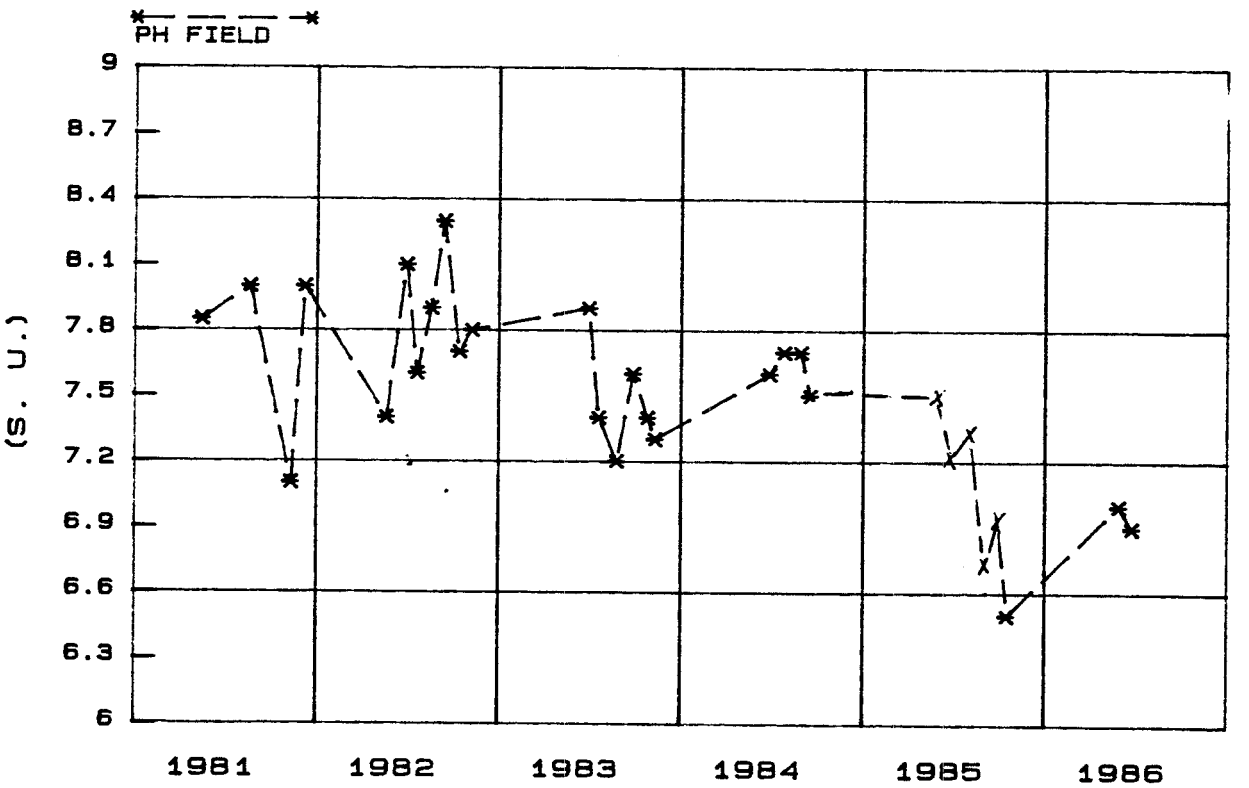
WATER QUALITY SITE: S12-1



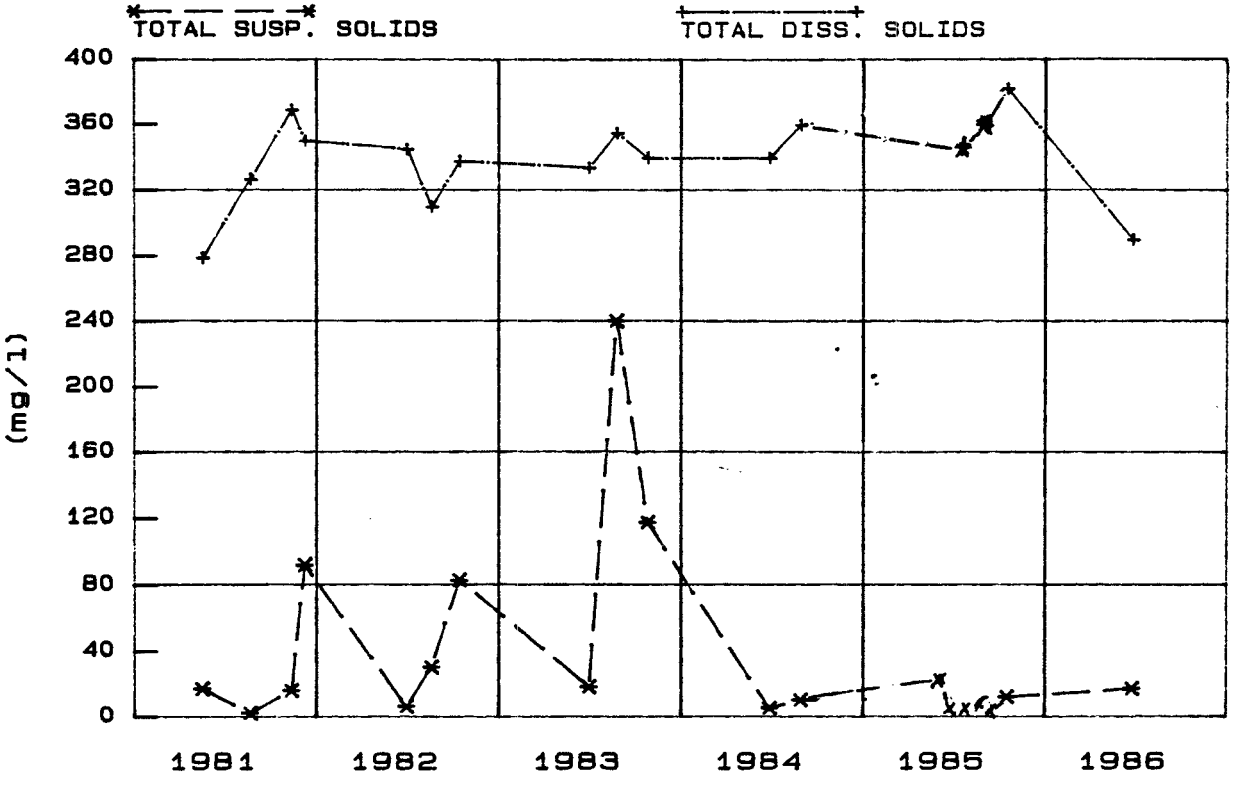
WATER QUALITY SITE: S12-1



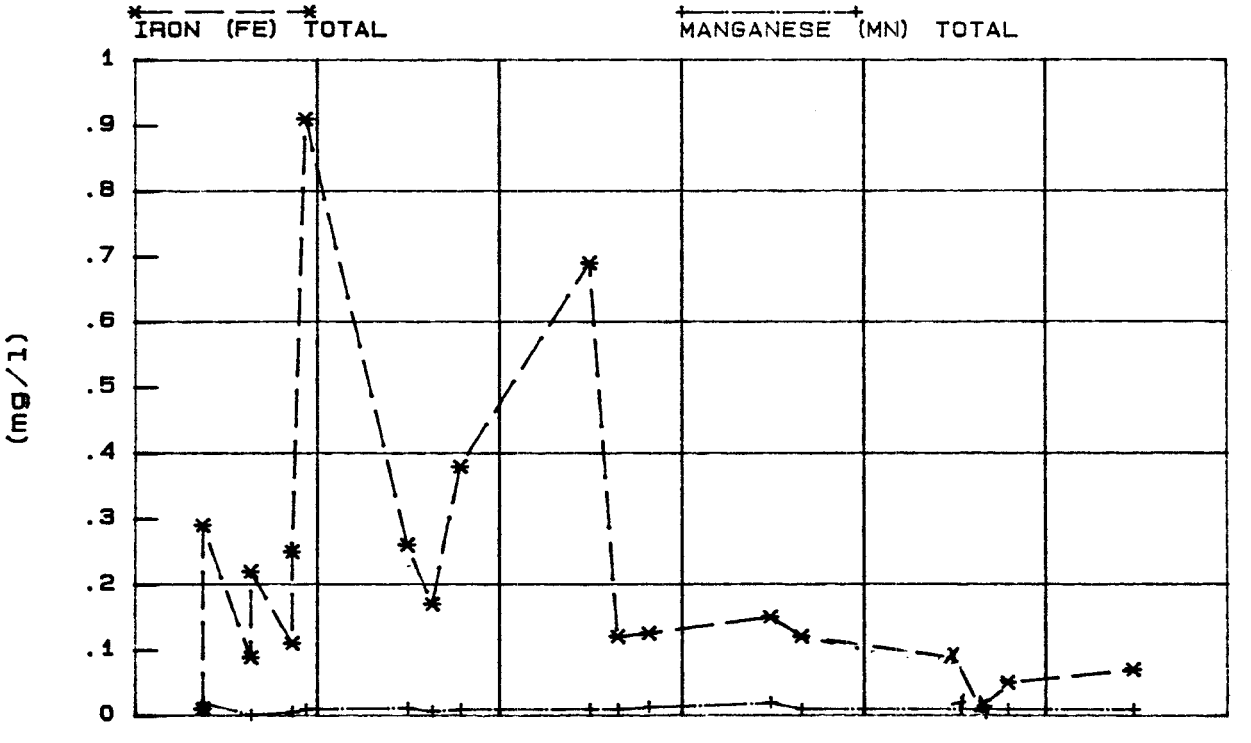
WATER QUALITY SITE: S13-2



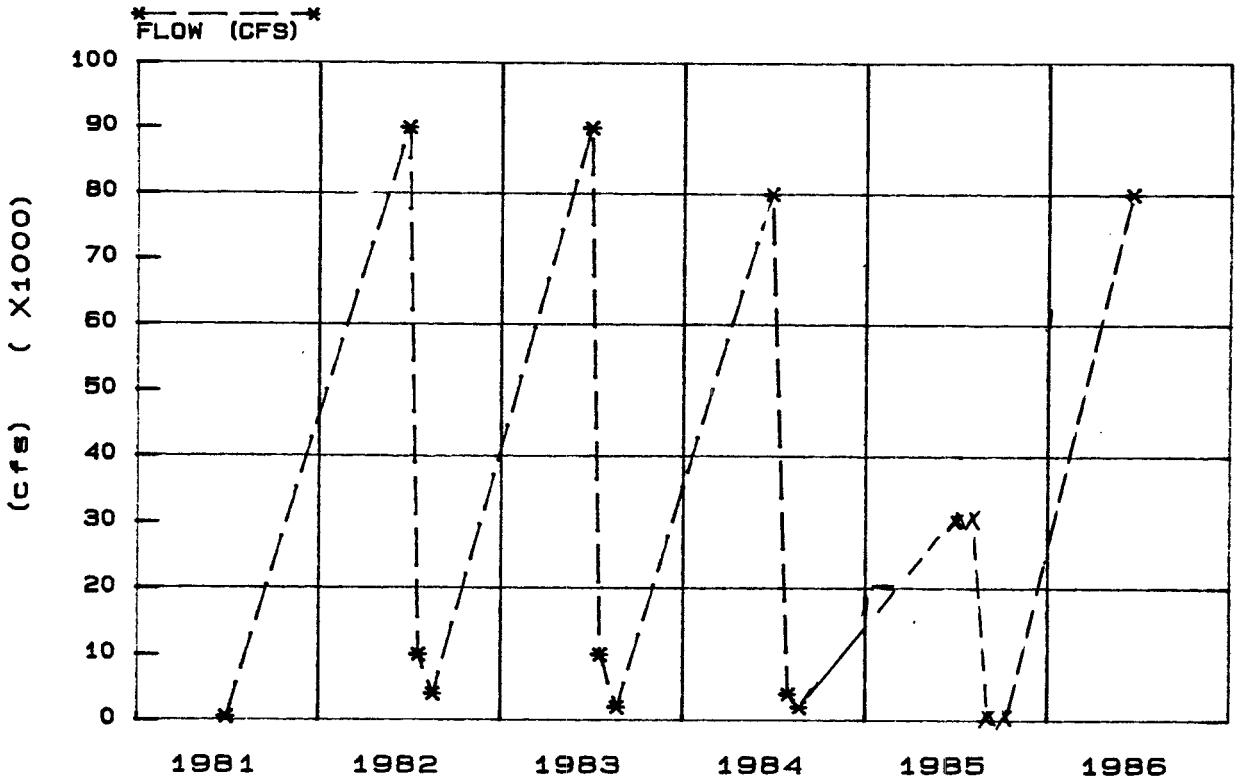
WATER QUALITY SITE: S13-2



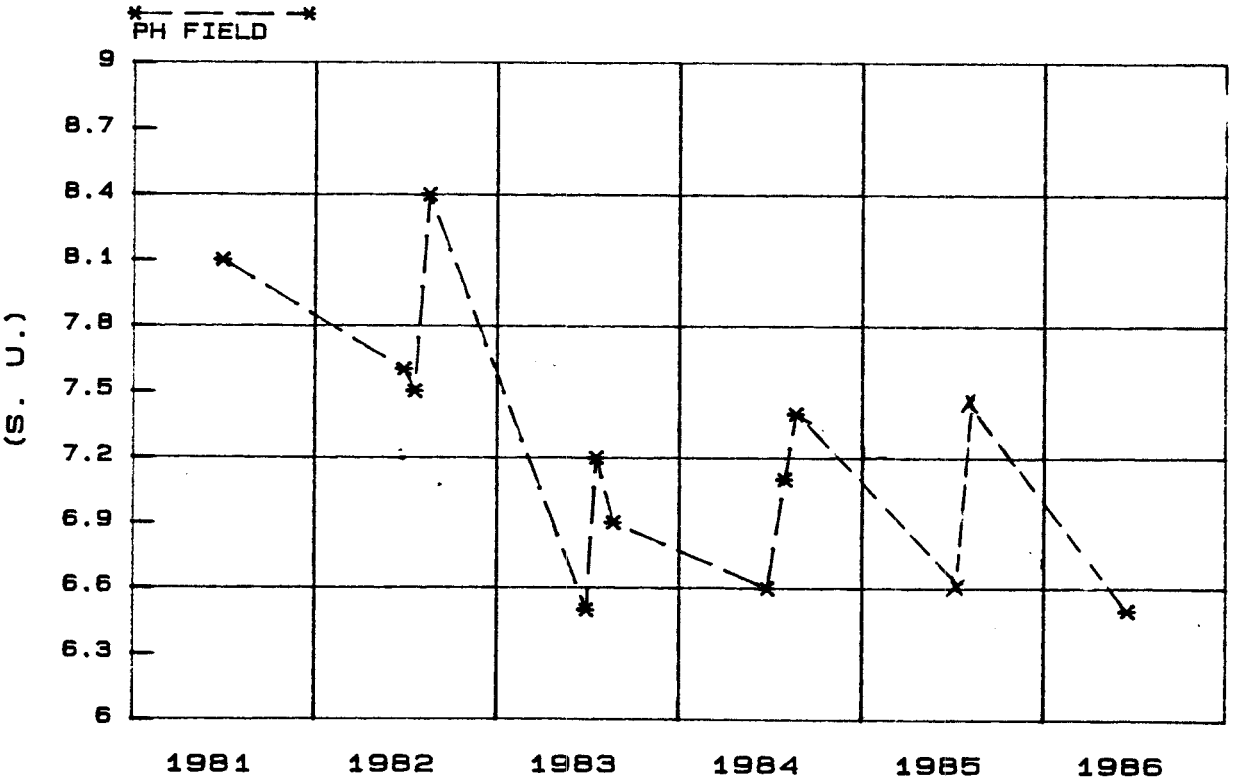
WATER QUALITY SITE: S13-2



WATER QUALITY SITE: S13-2



WATER QUALITY SITE: S13-7



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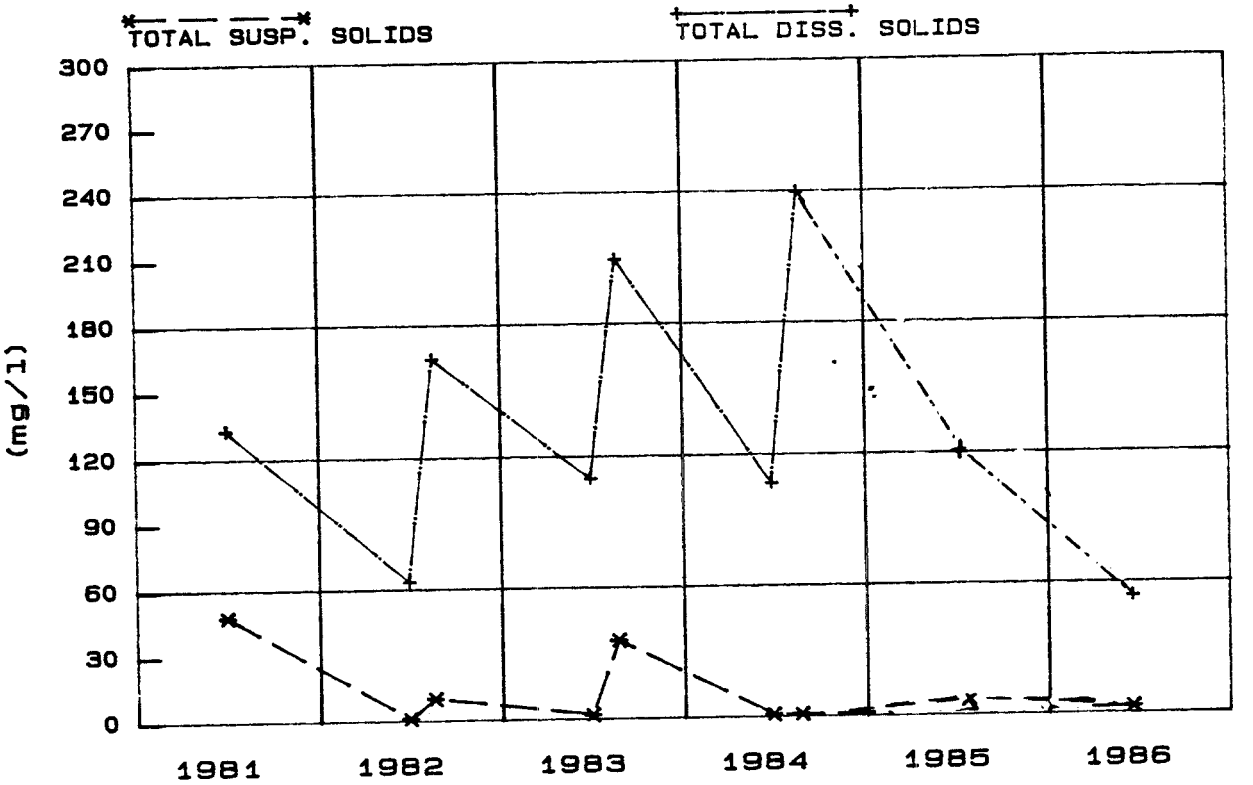
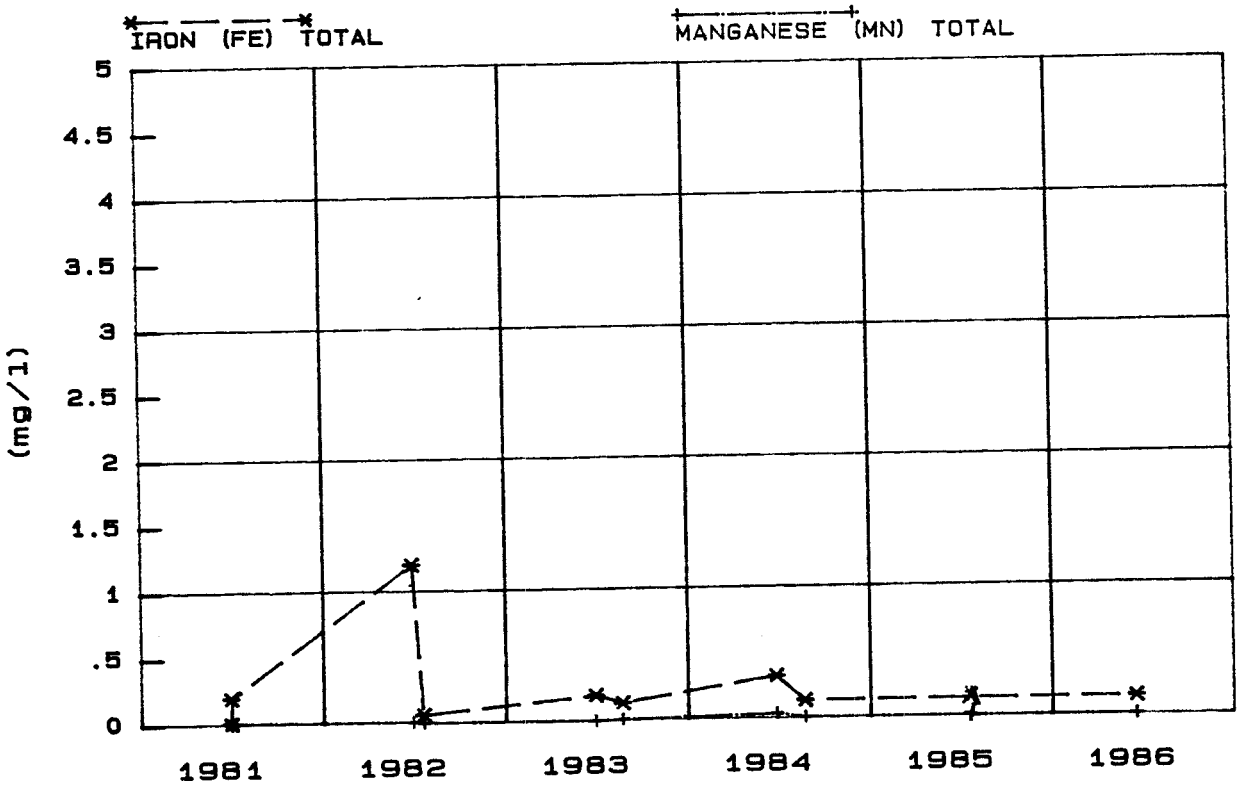
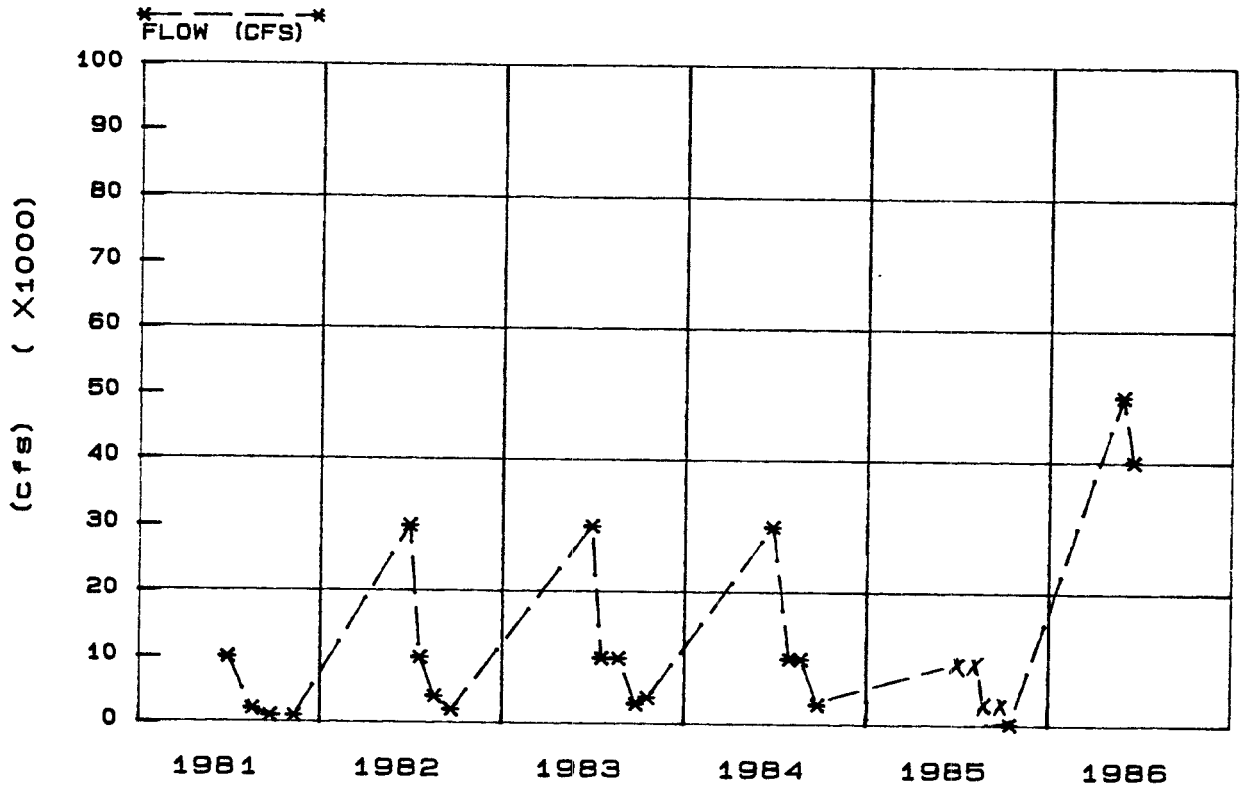


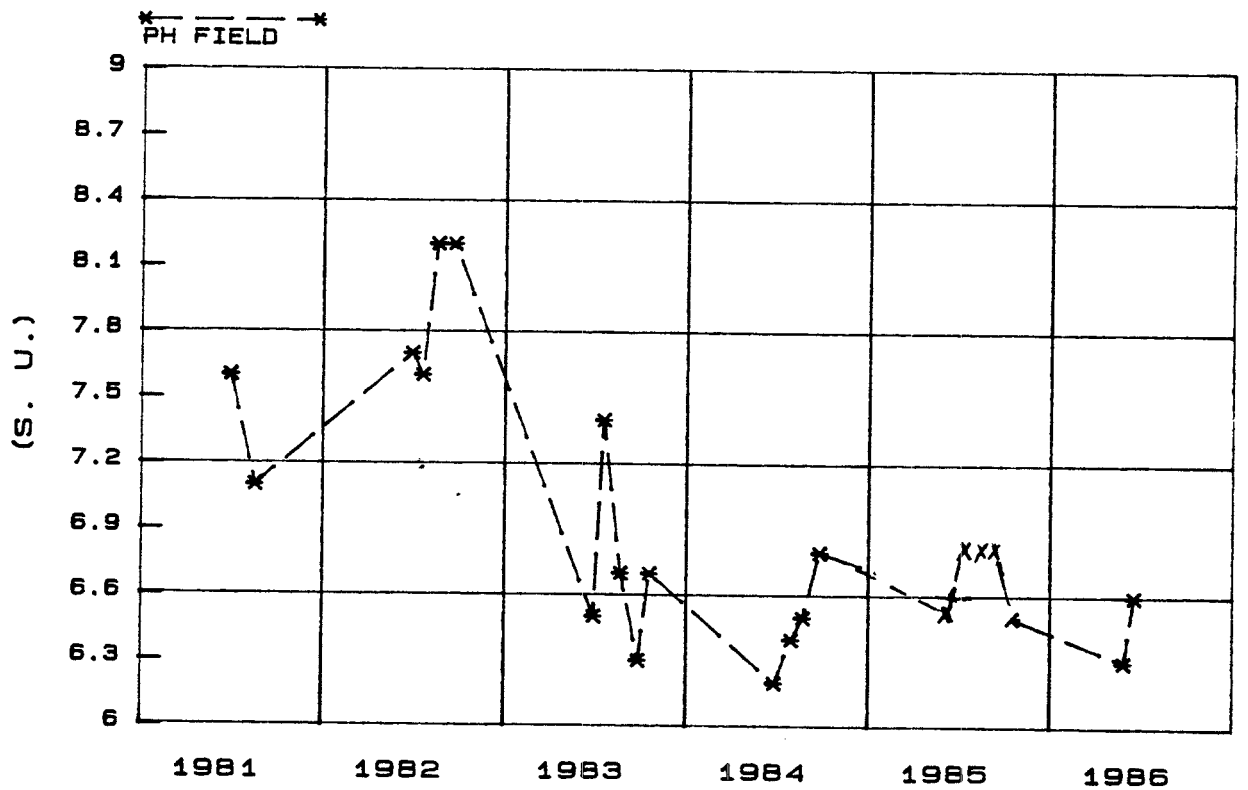
WATER QUALITY SITE: S13-7



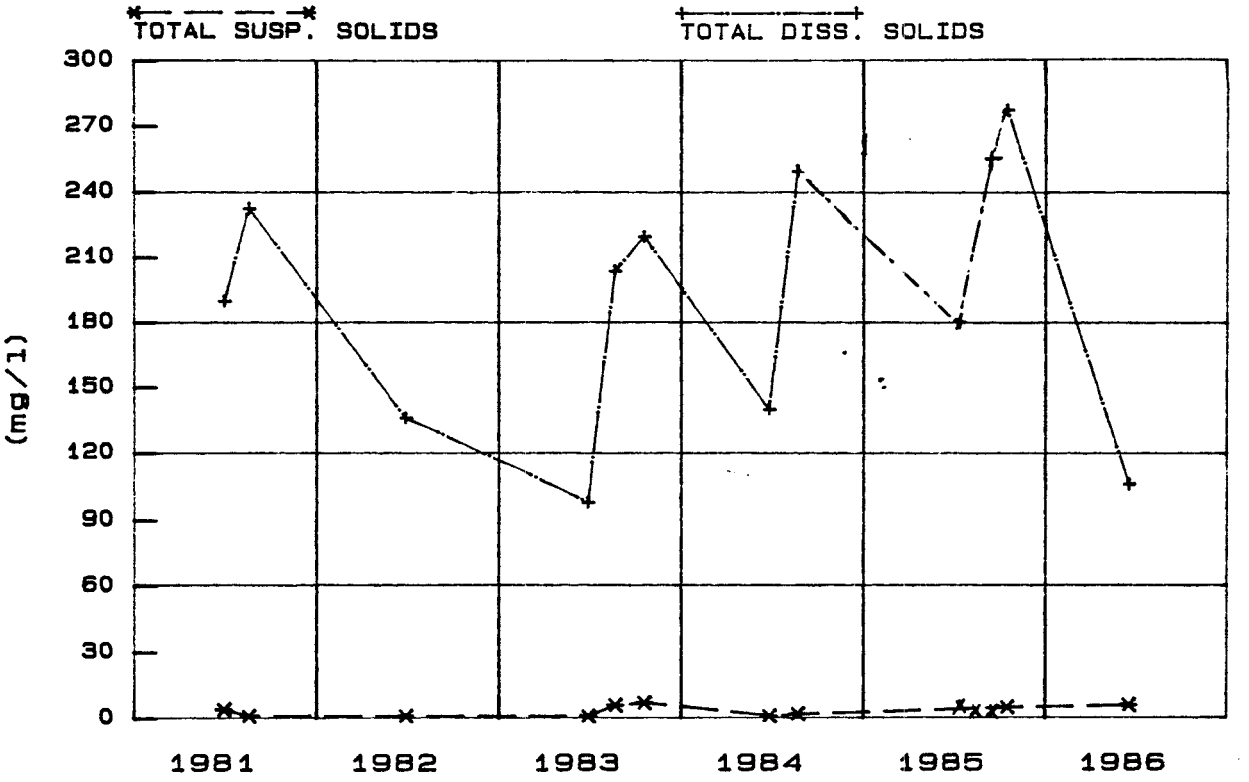
WATER QUALITY SITE: S13-7



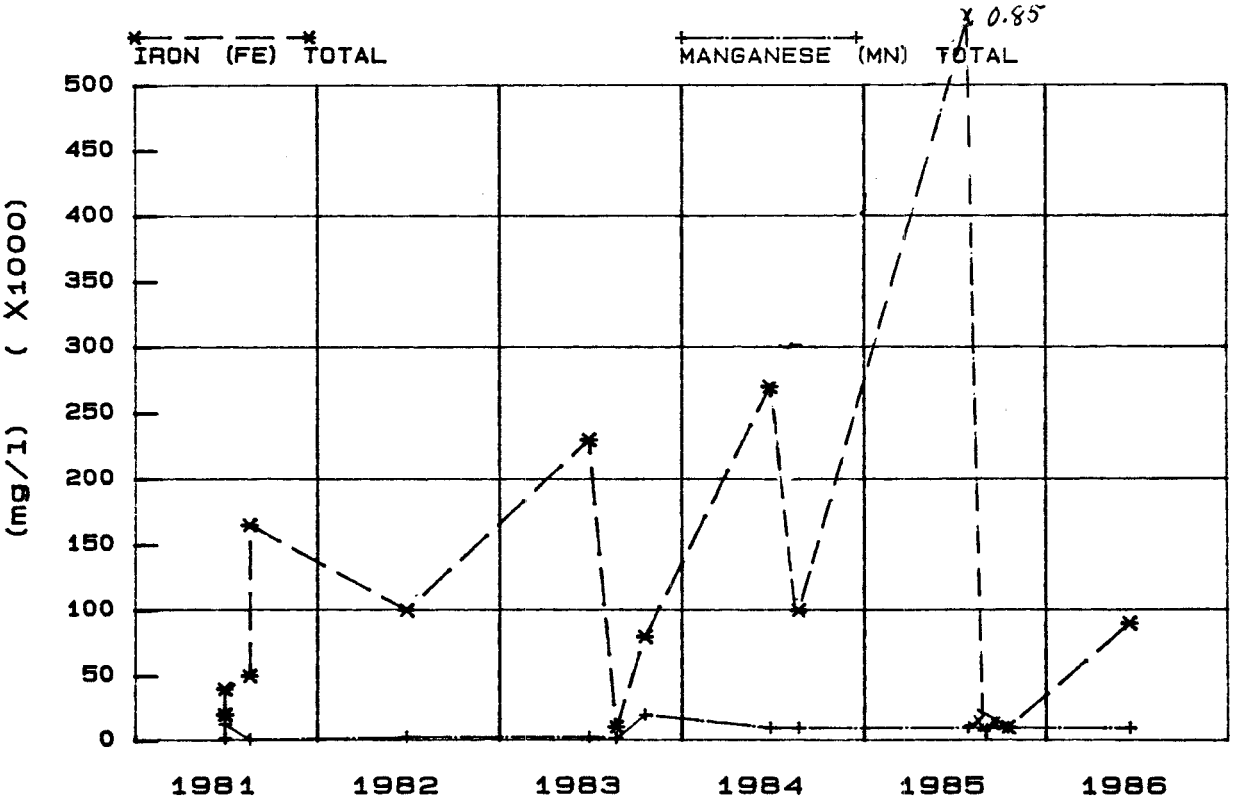
WATER QUALITY SITE: S14-4



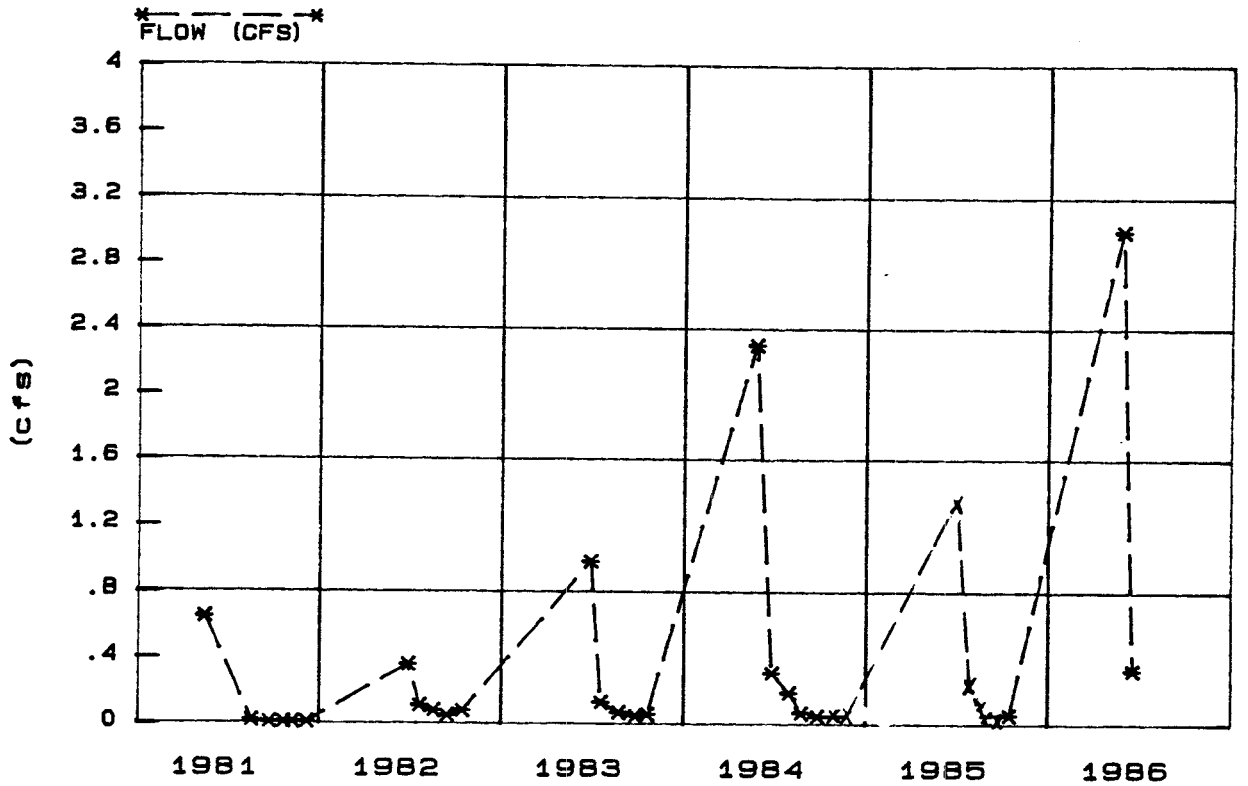
WATER QUALITY SITE: S14-4



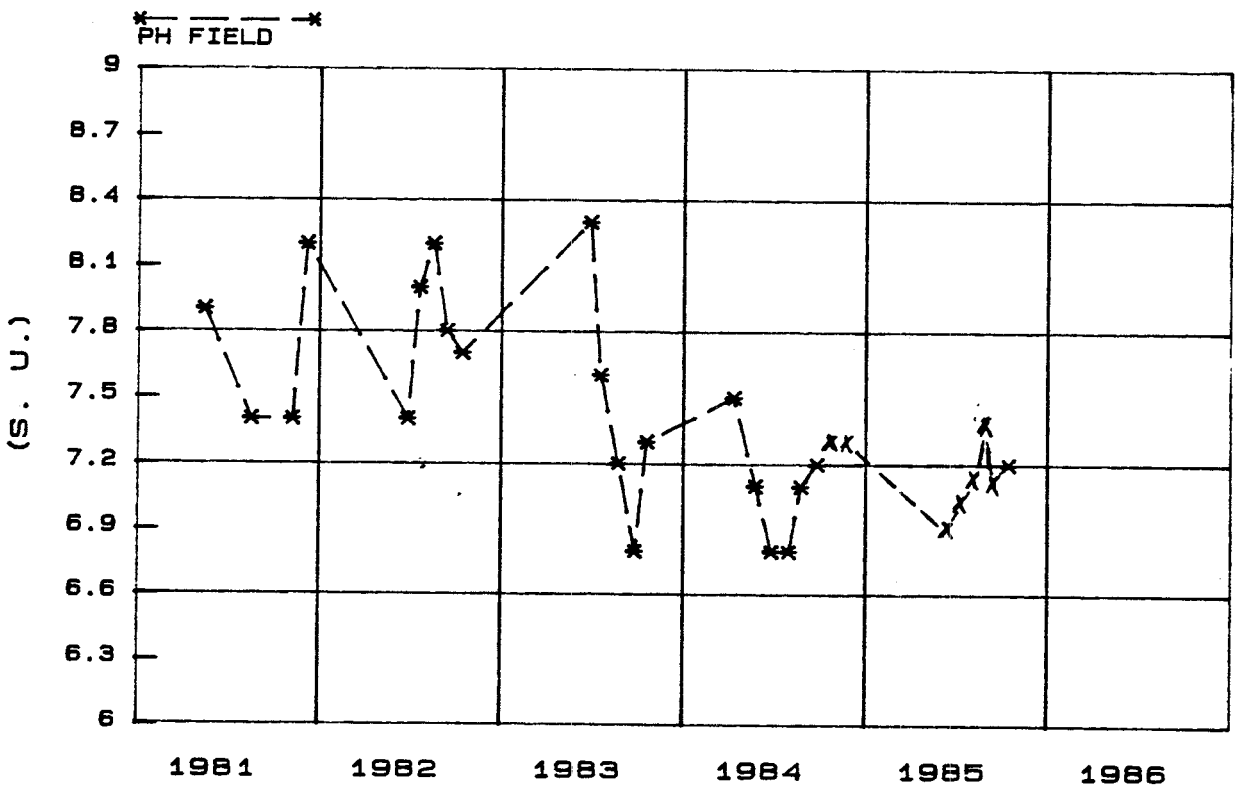
WATER QUALITY SITE: S14-4



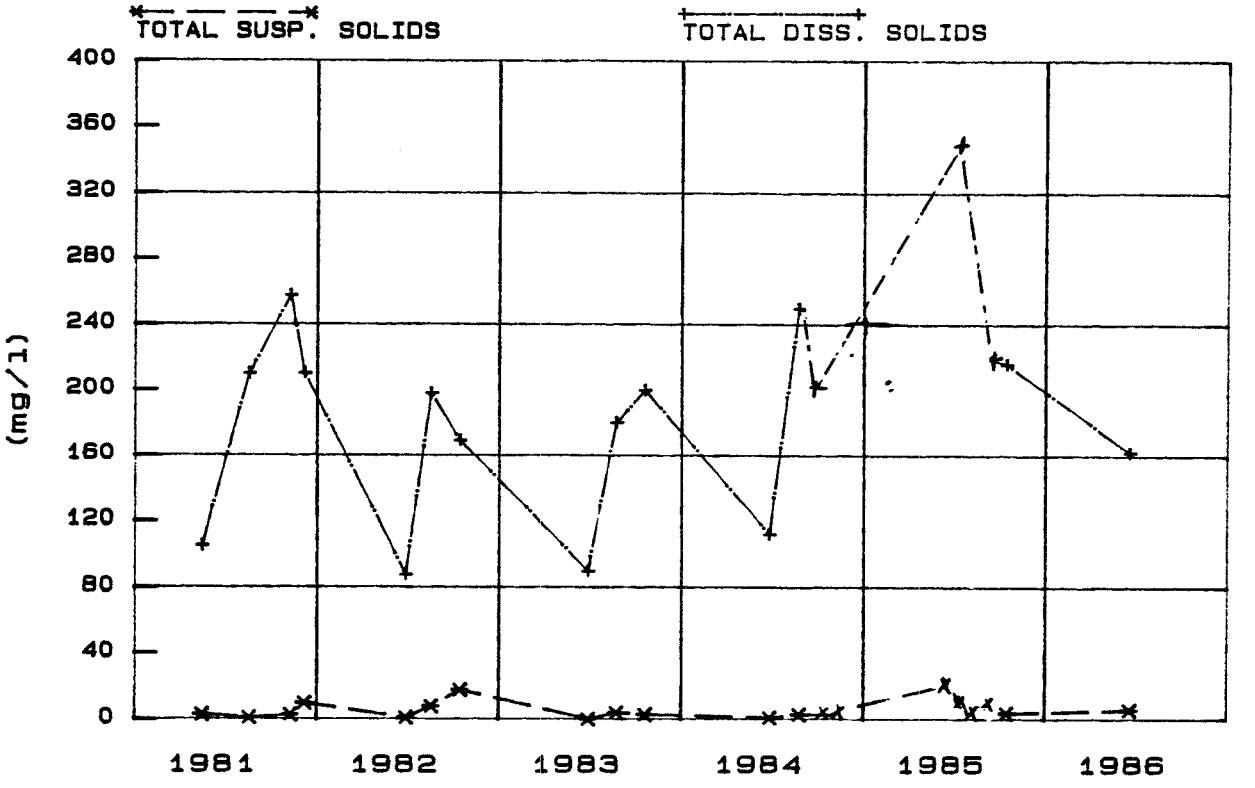
WATER QUALITY SITE: S14-4



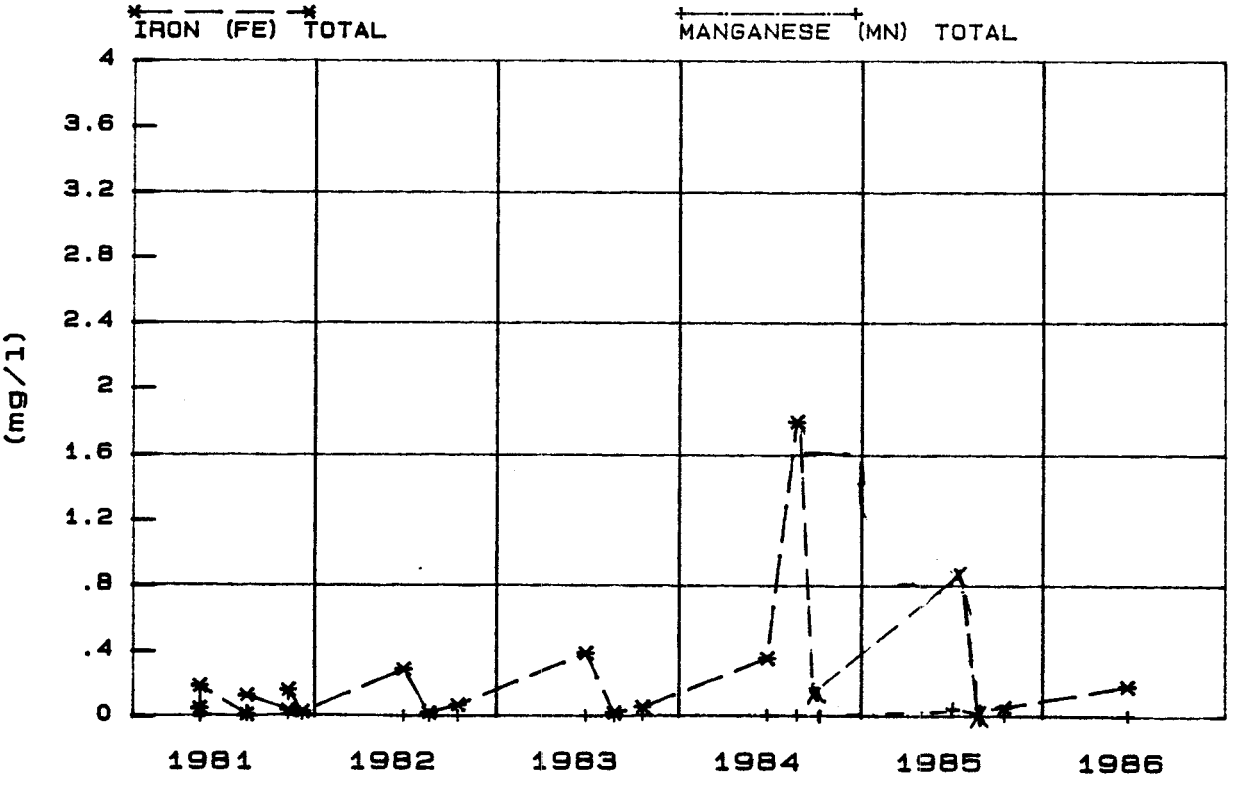
WATER QUALITY SITE: S15-3



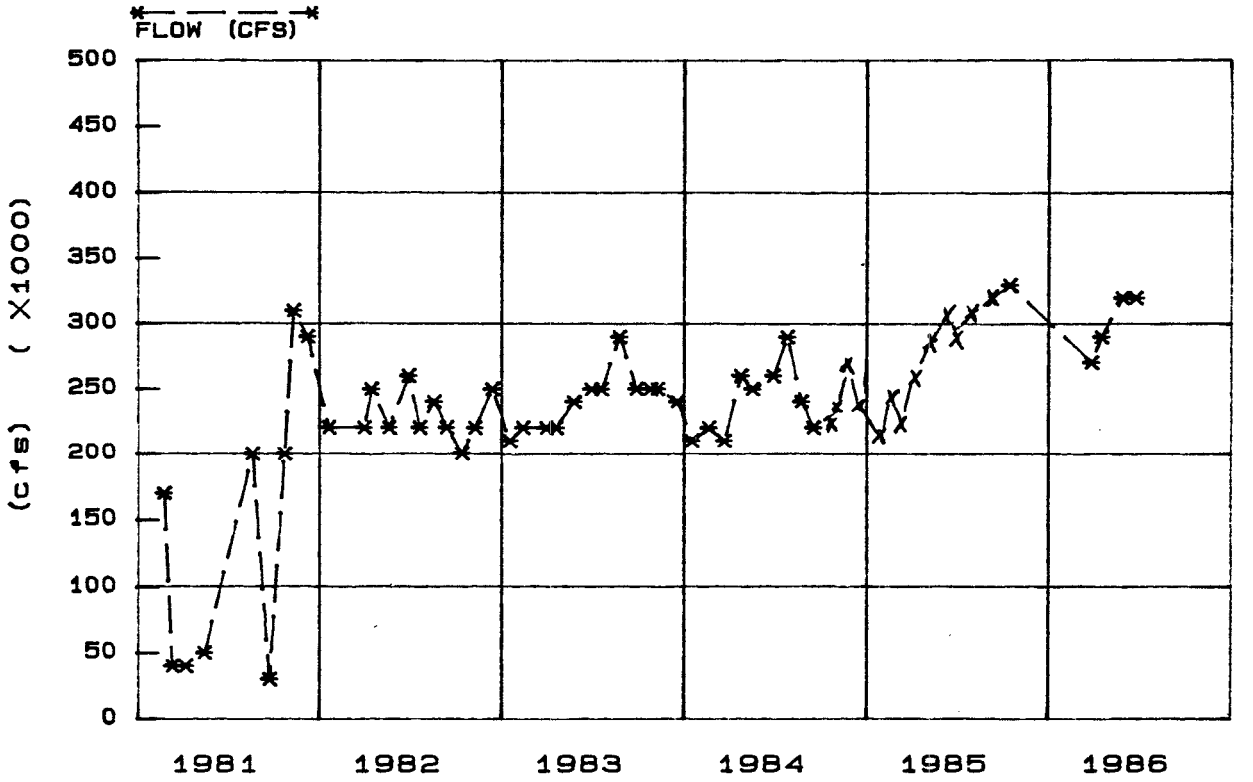
WATER QUALITY SITE: S15-3



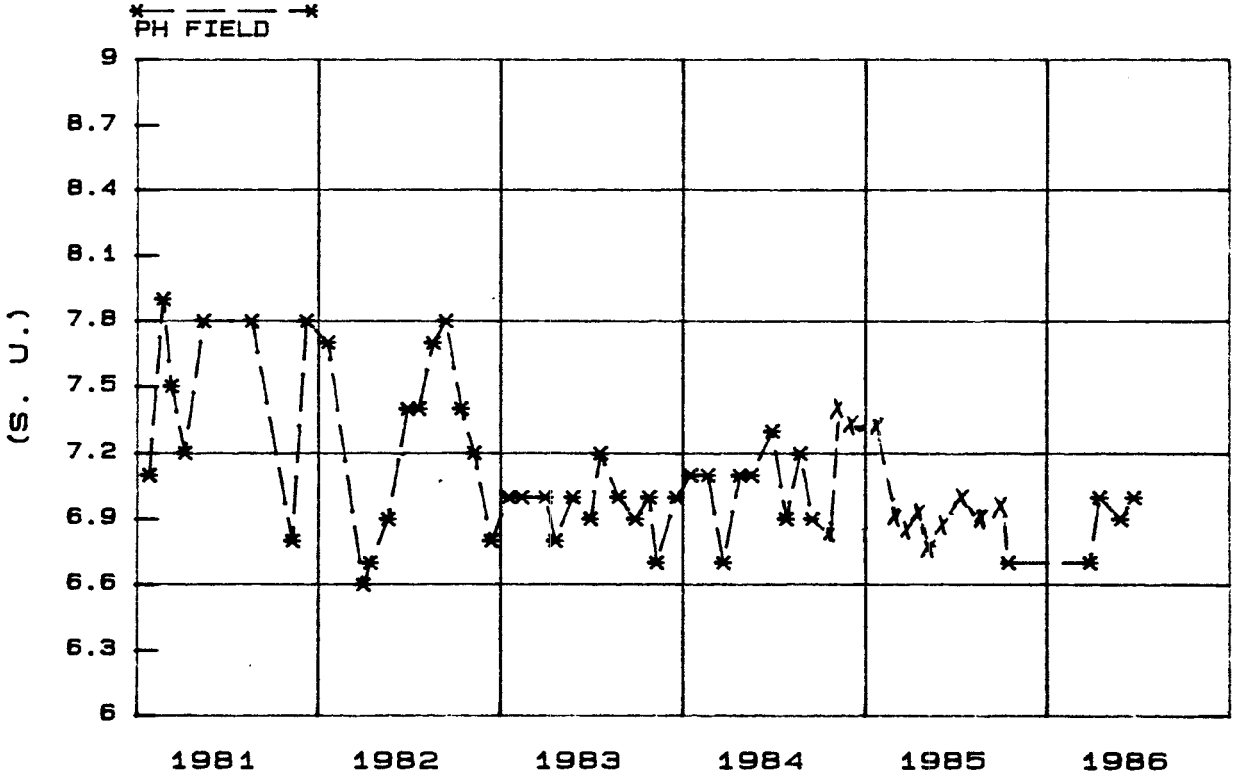
WATER QUALITY SITE: S15-3



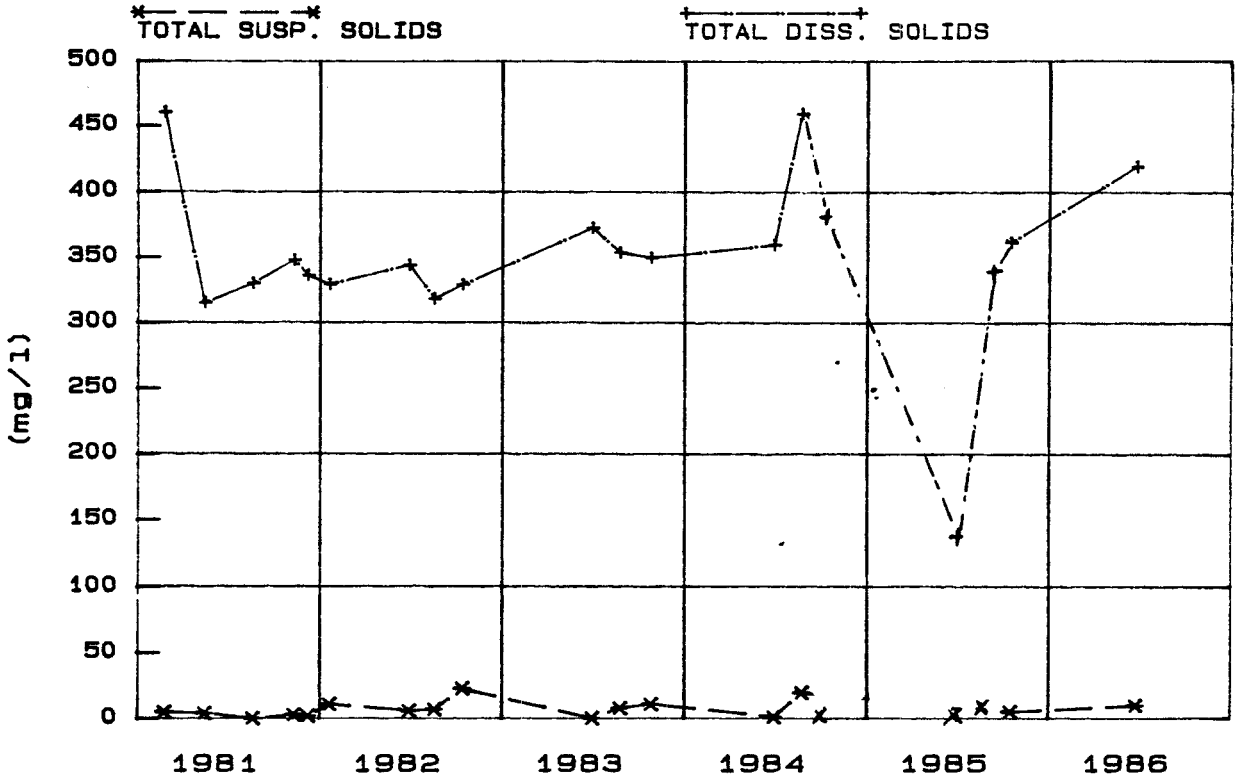
WATER QUALITY SITE: S15-3



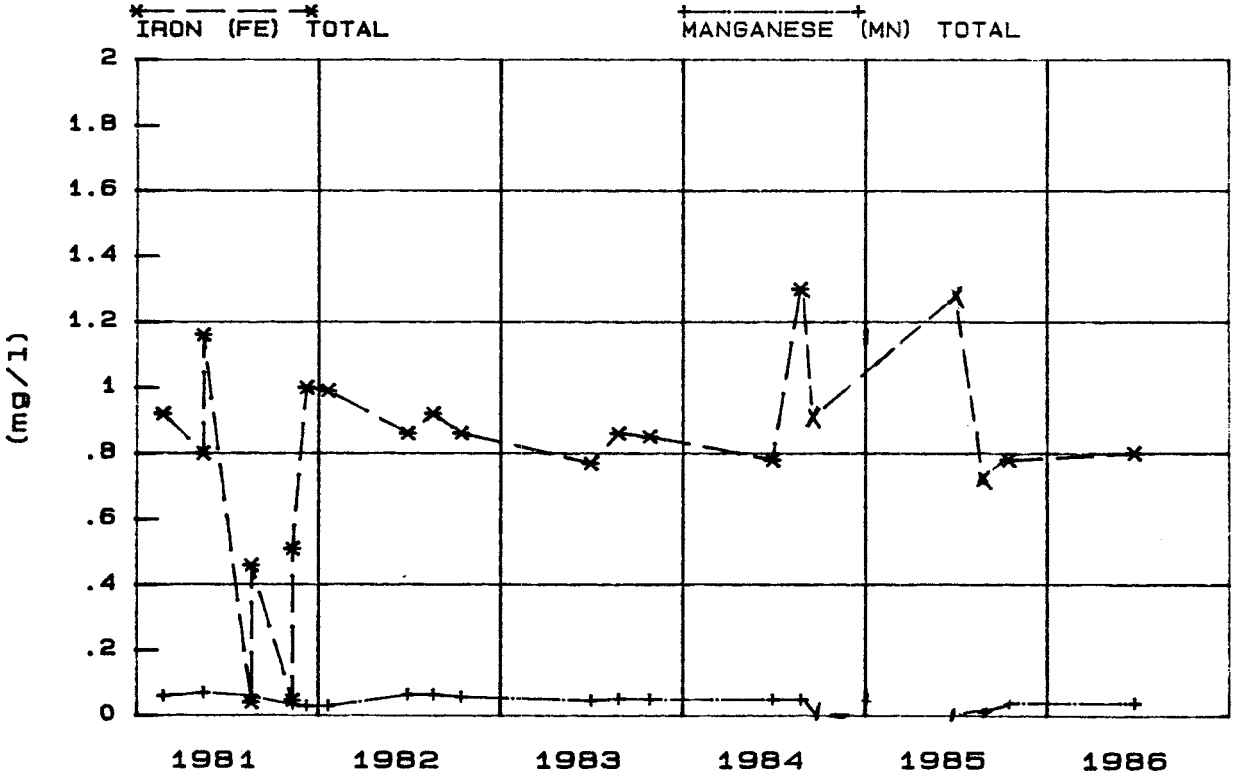
WATER QUALITY SITE: S17-2 SPRING



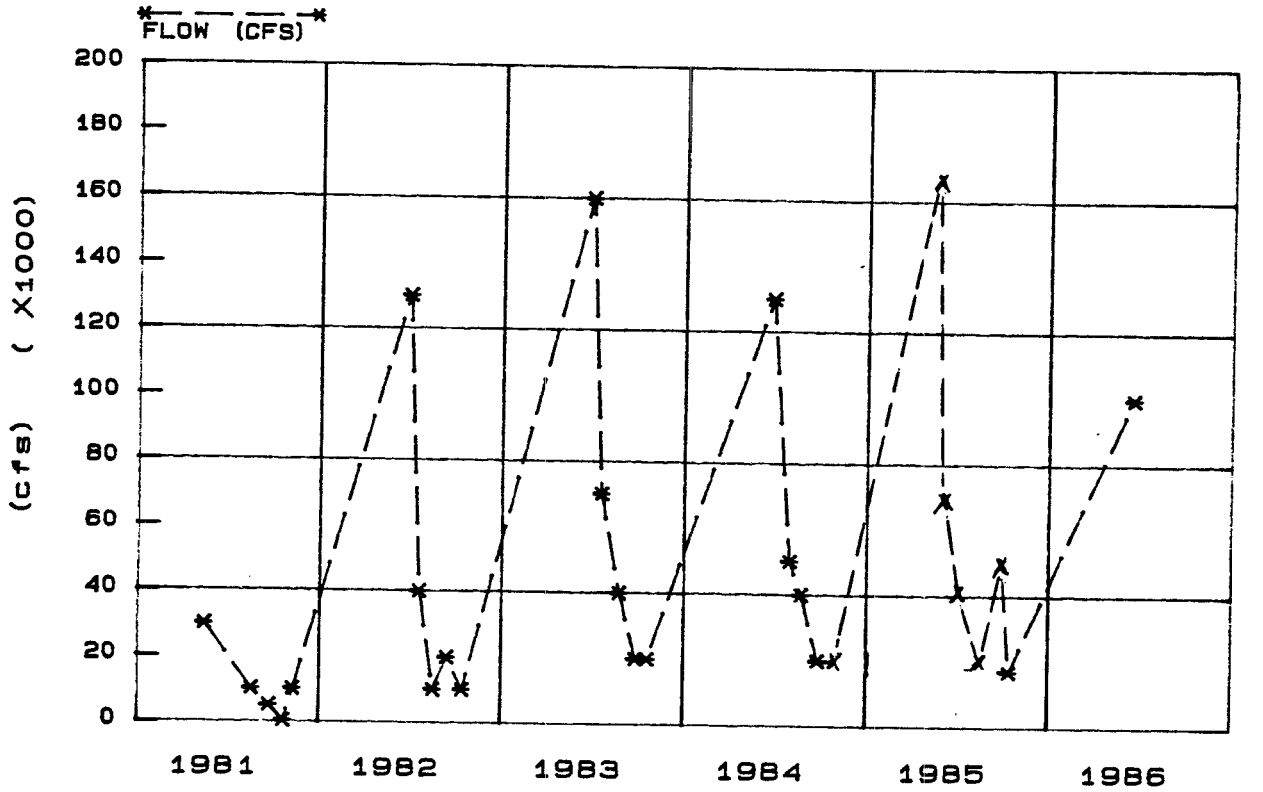
WATER QUALITY SITE: S17-2 SPRING



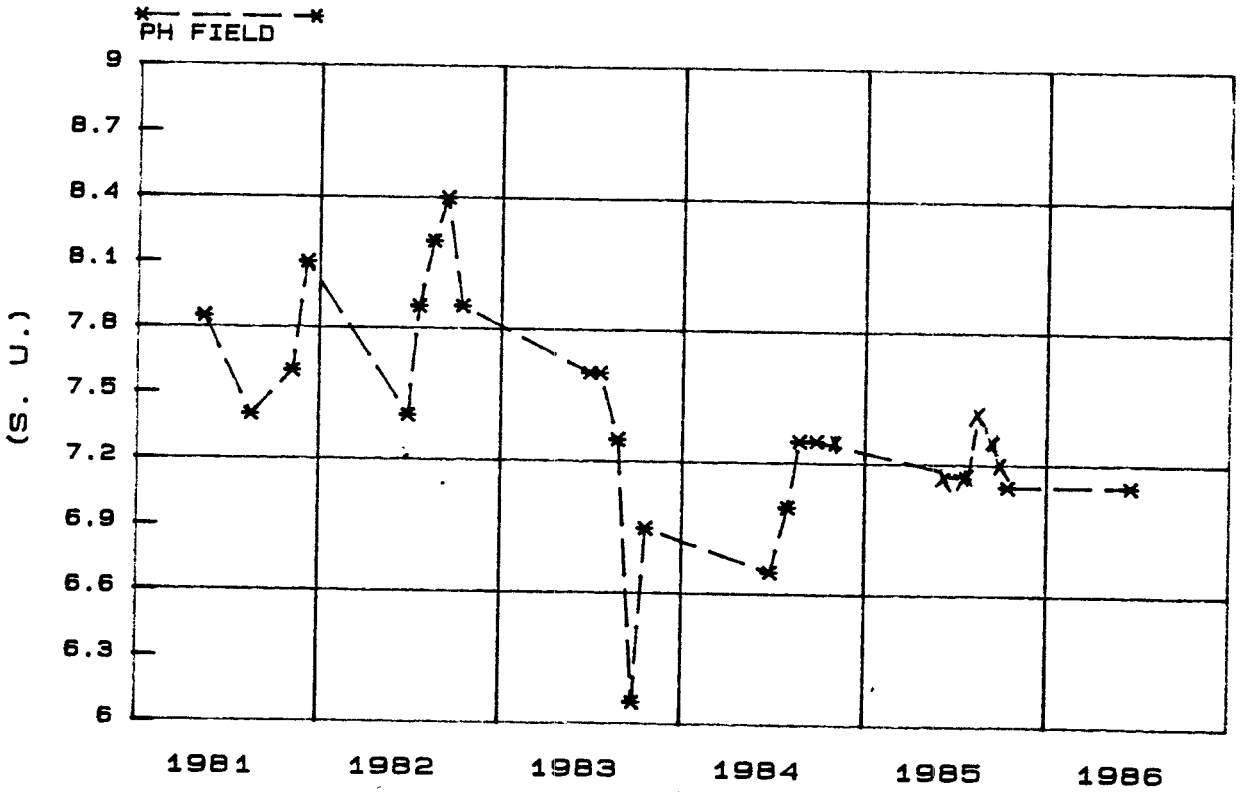
WATER QUALITY SITE: S17-2 SPRING



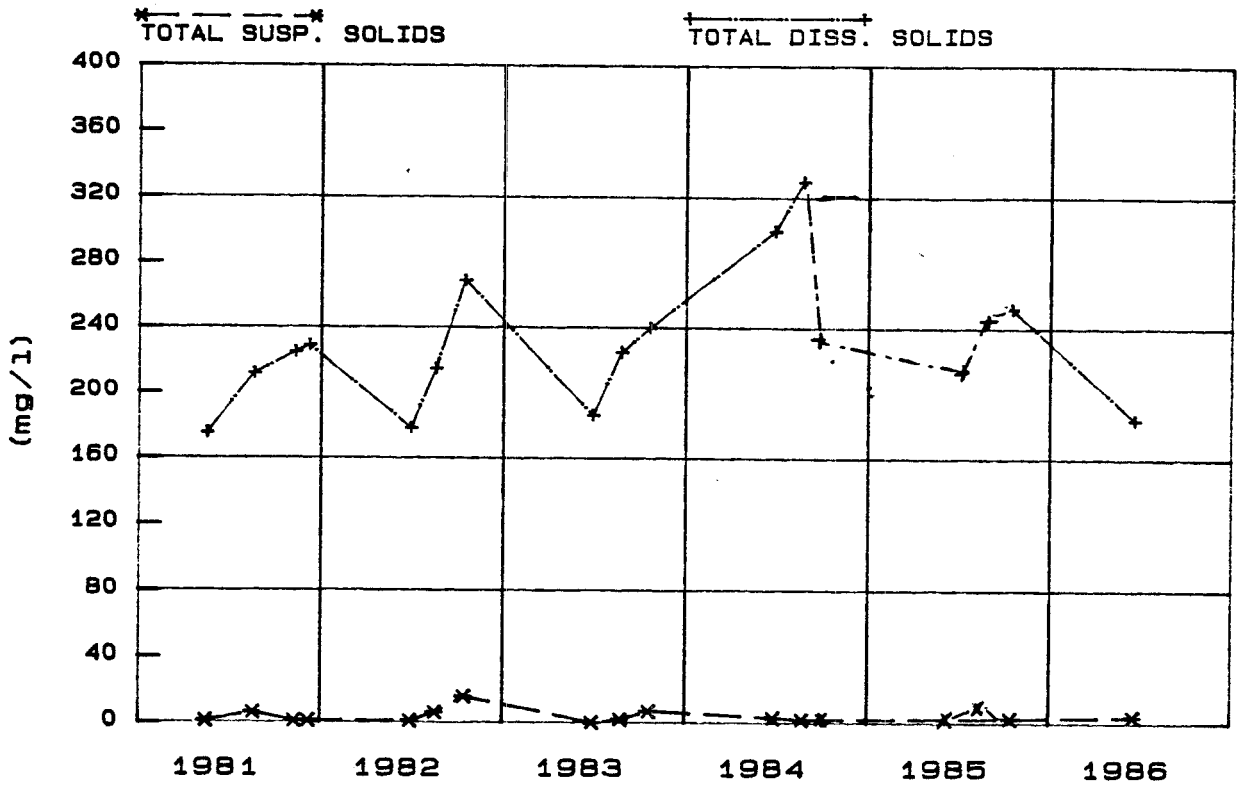
WATER QUALITY SITE: S17-2 SPRING



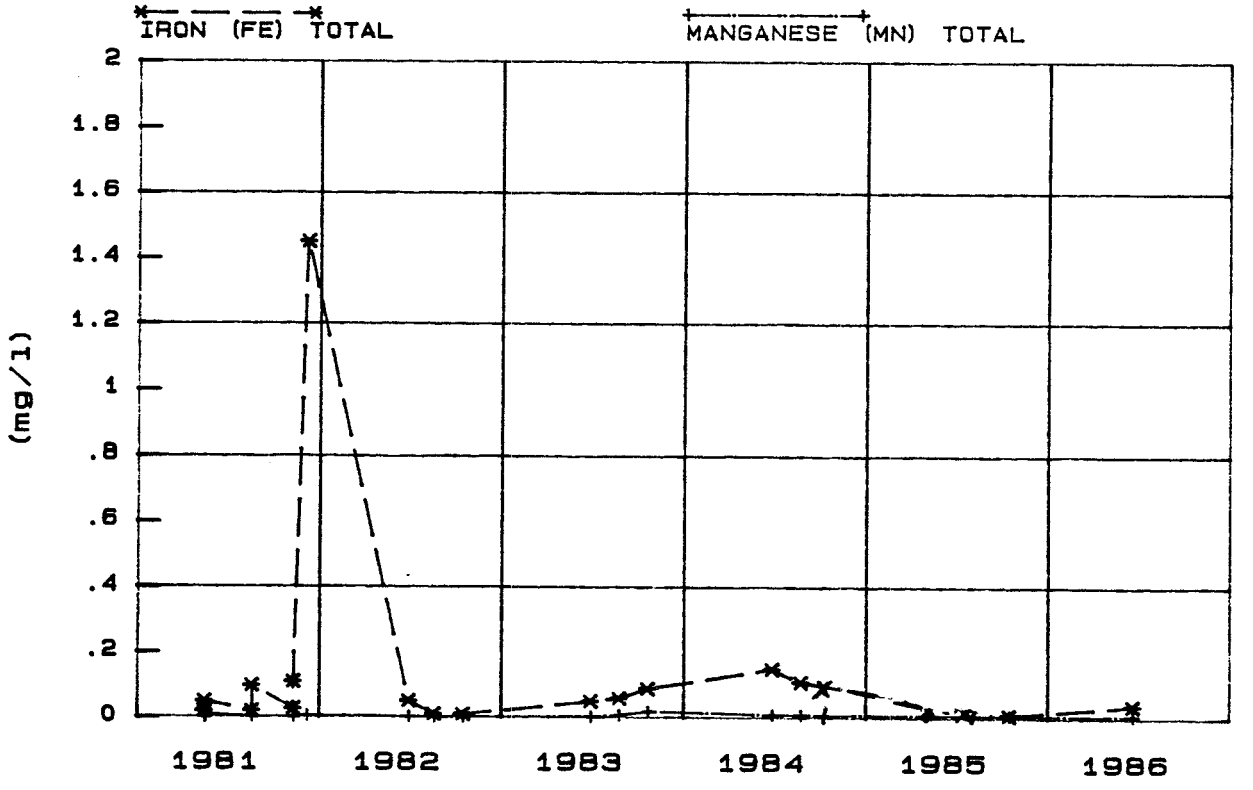
WATER QUALITY SITE: S22-5 SPRING



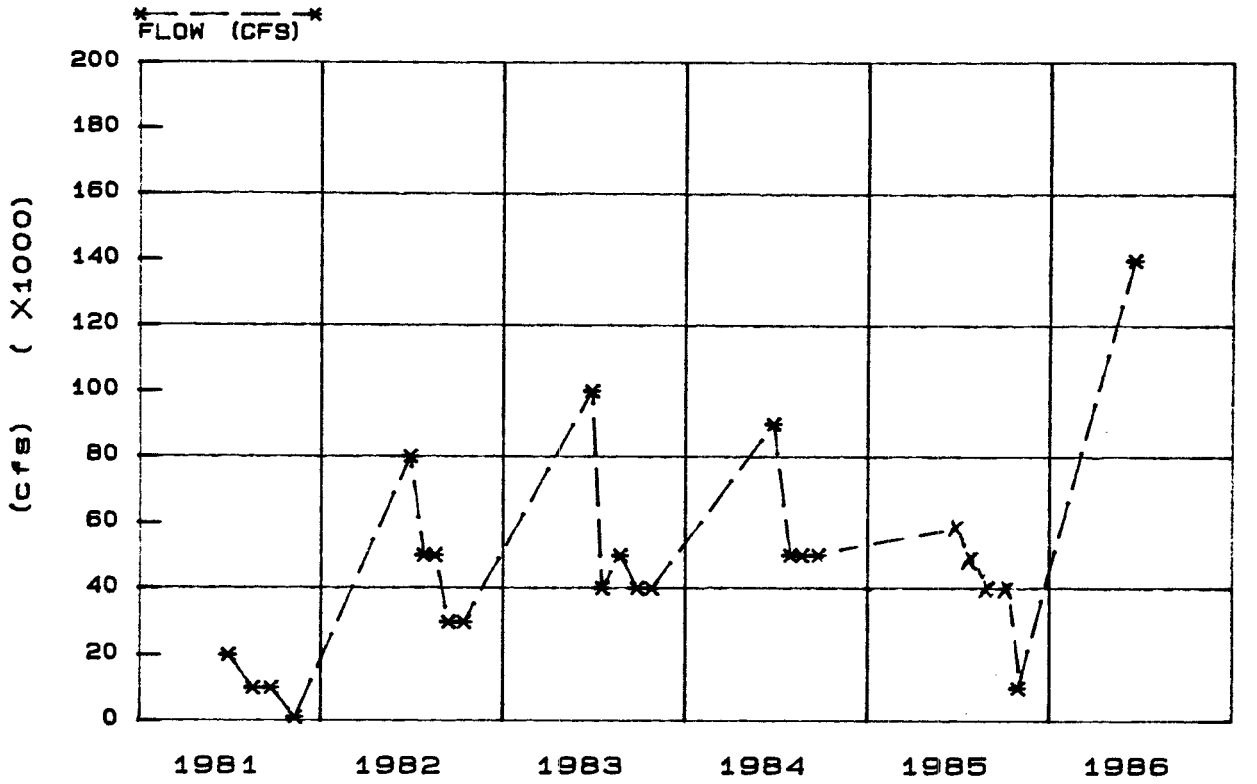
WATER QUALITY SITE: S22-5 SPRING



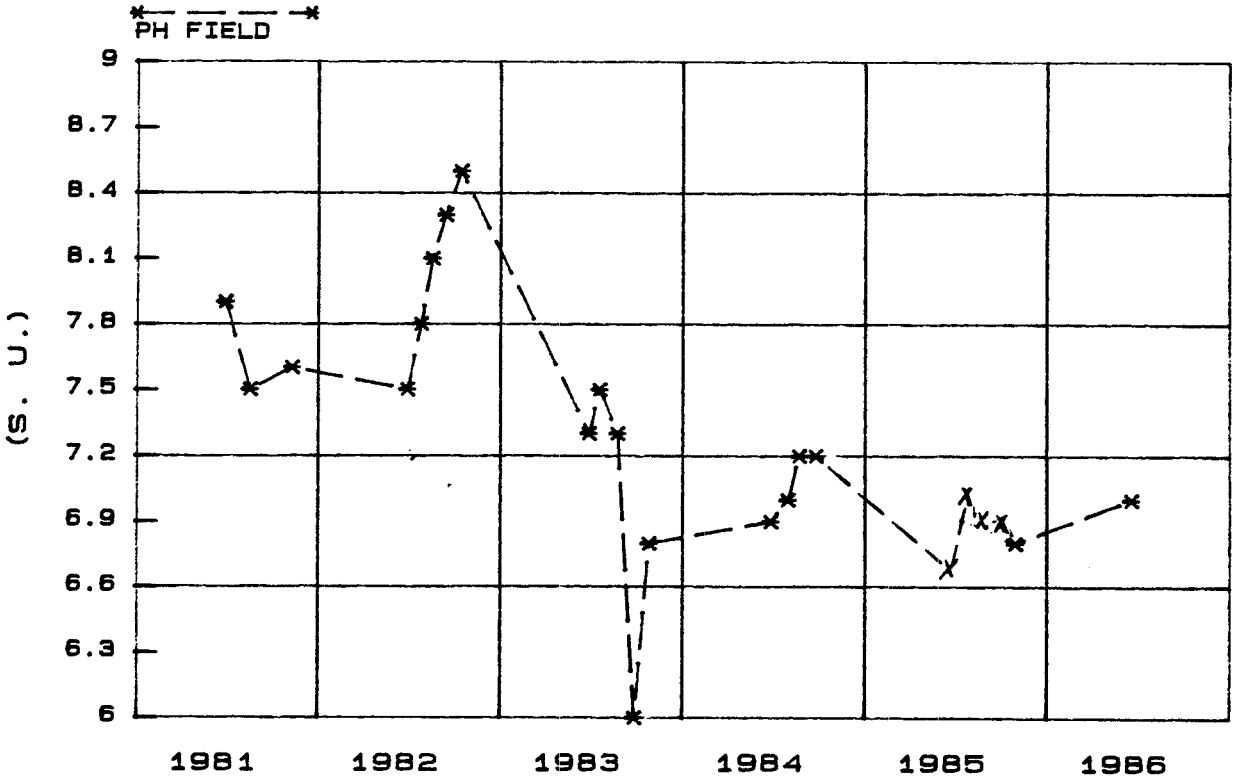
WATER QUALITY SITE: S22-5 SPRING



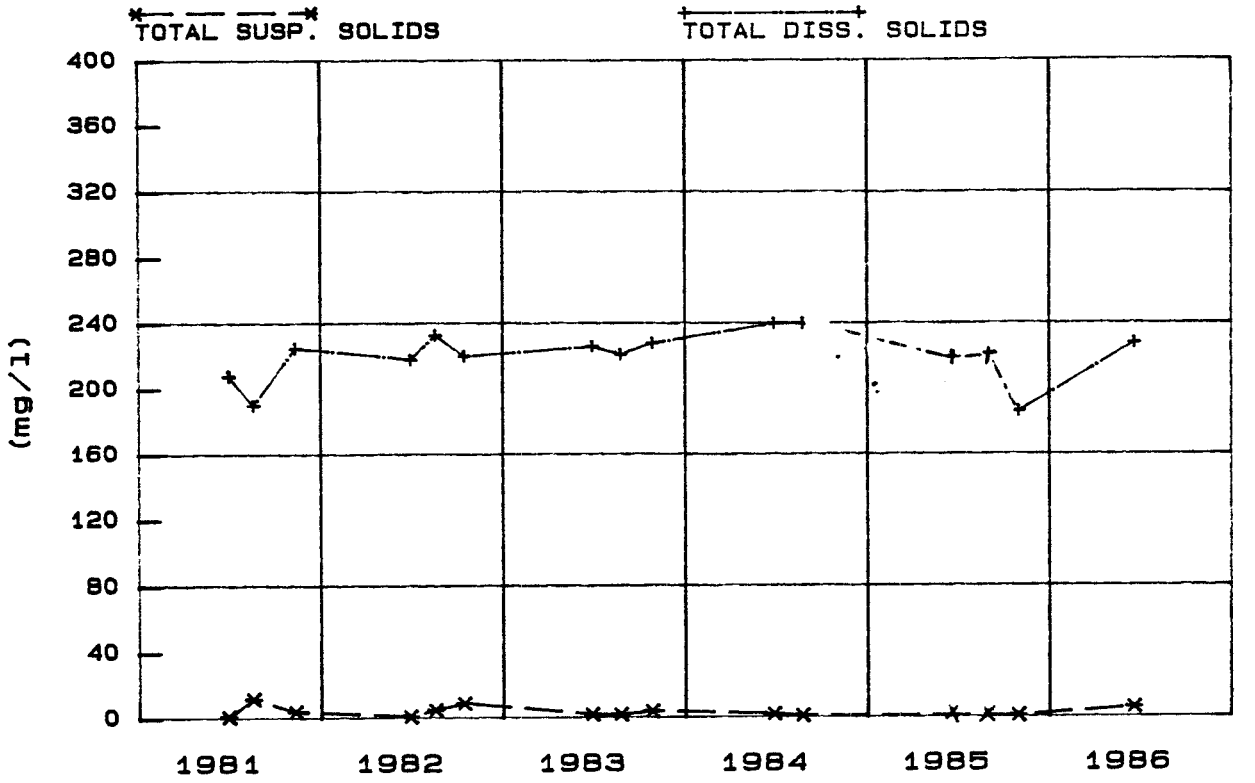
WATER QUALITY SITE: S22-5 SPRING



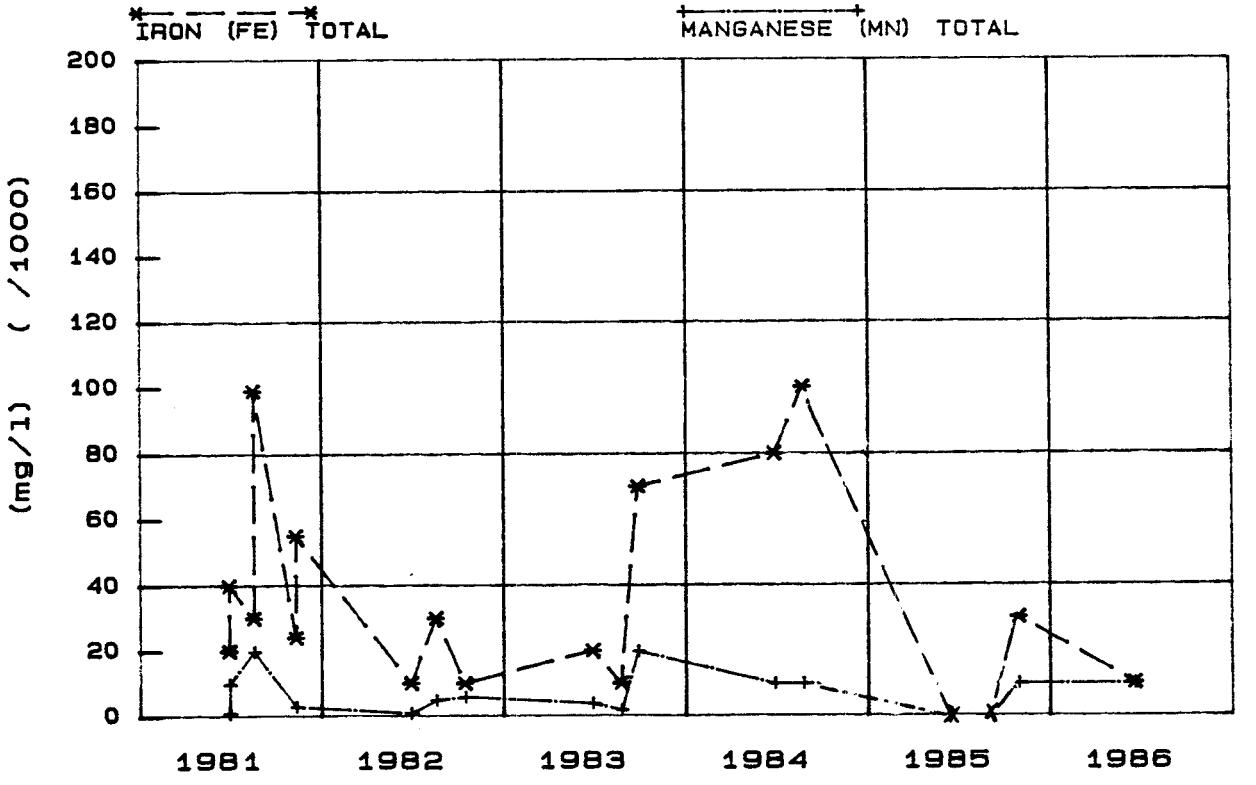
WATER QUALITY SITE: S22-11 SPRING



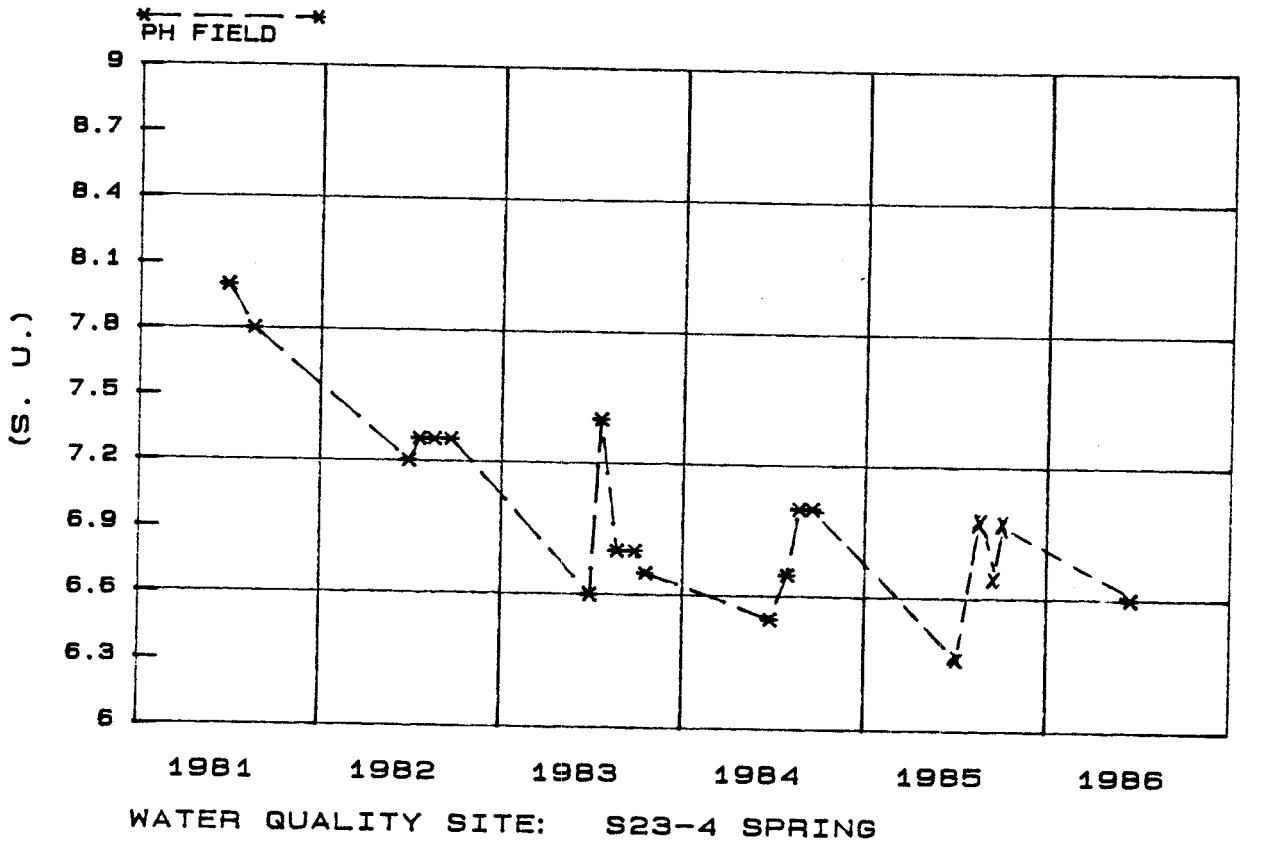
WATER QUALITY SITE: S22-11 SPRING



WATER QUALITY SITE: S22-11 SPRING



WATER QUALITY SITE: S22-11 SPRING


PH FIELD
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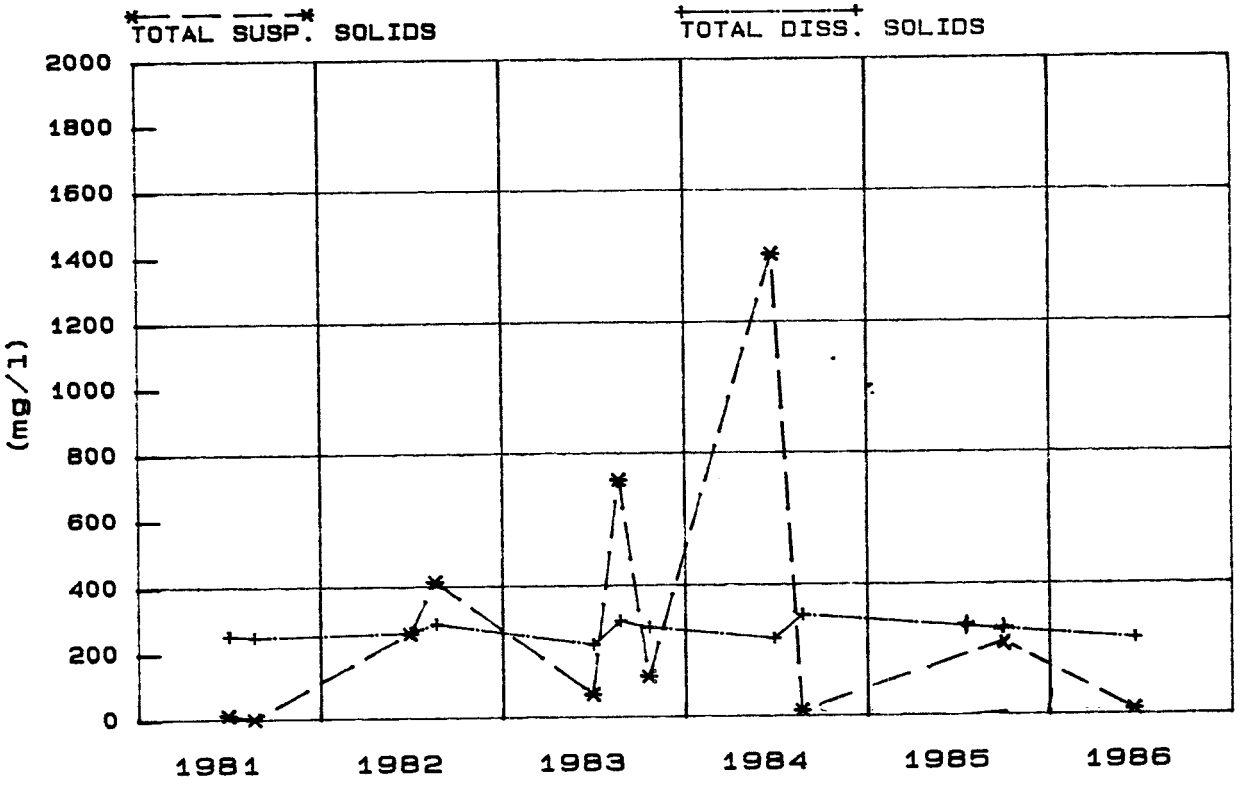
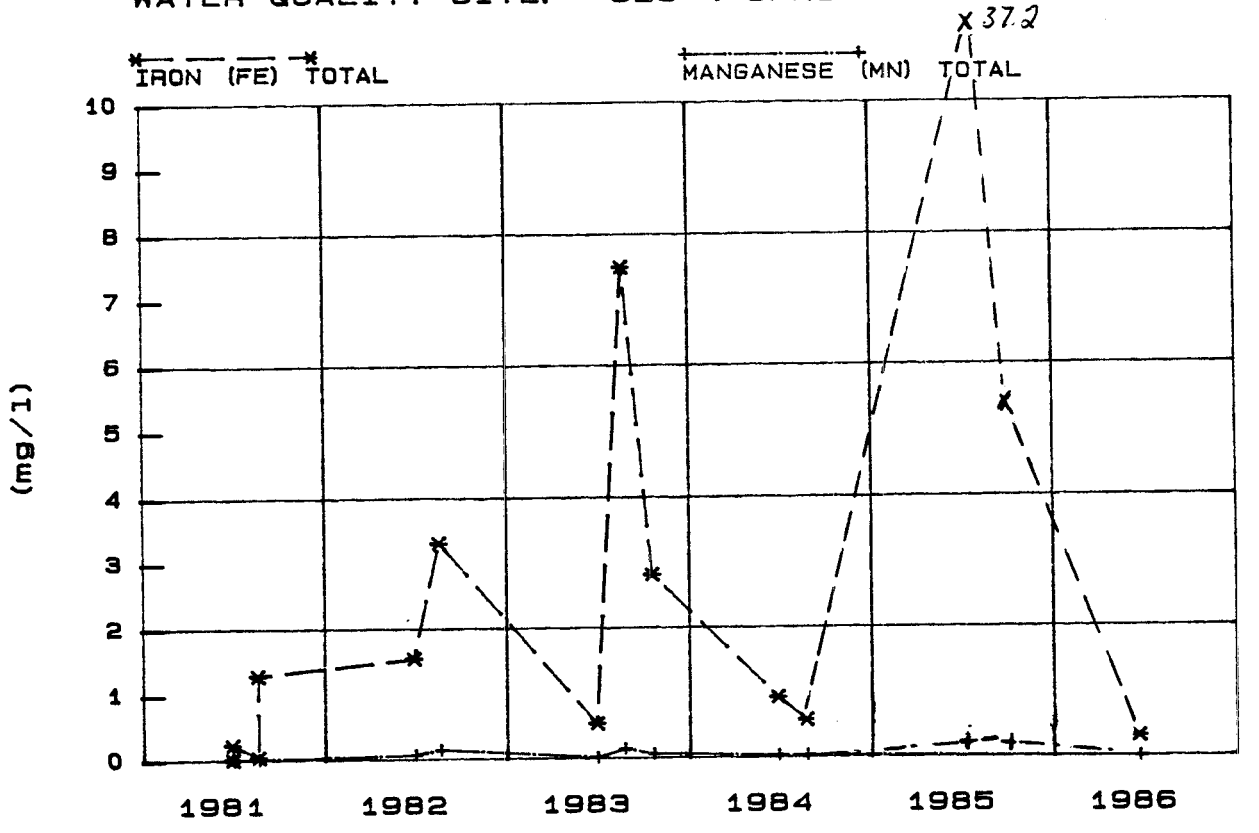
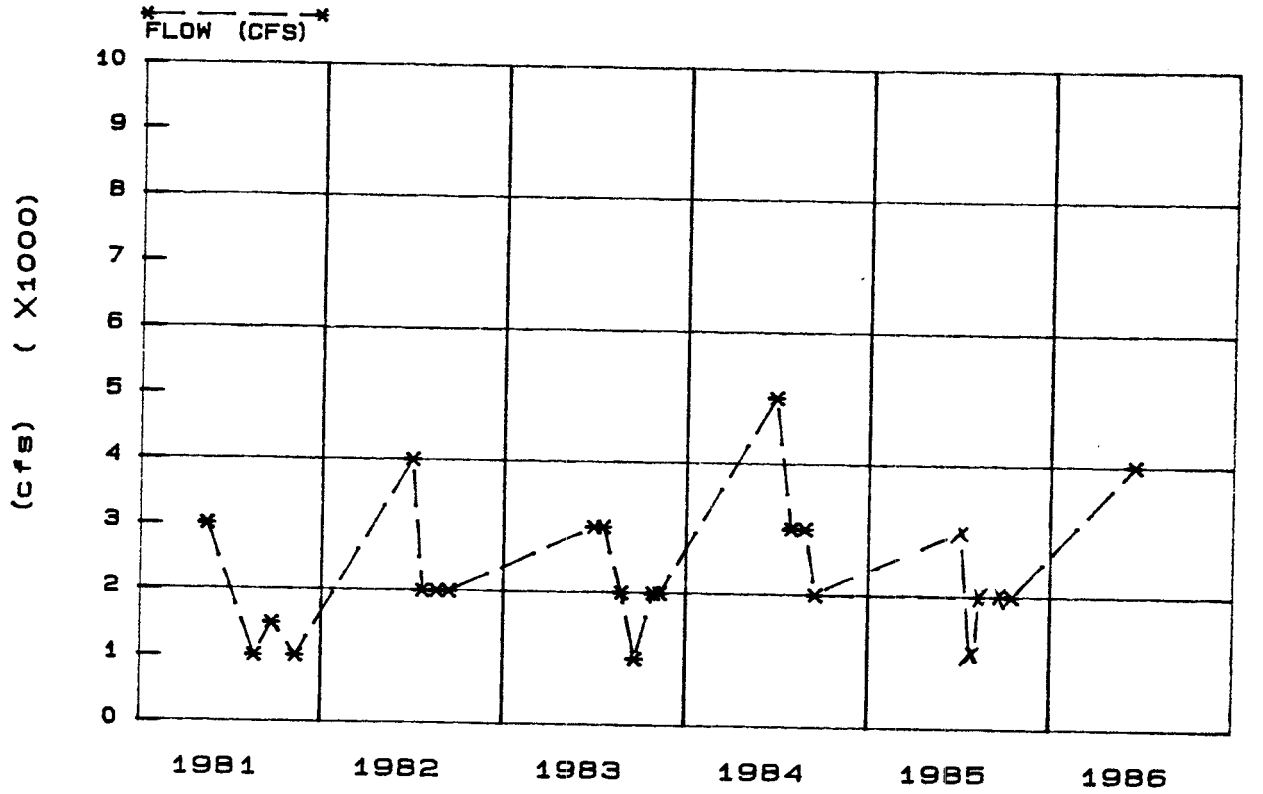
WATER QUALITY SITE: S23-4 SPRING



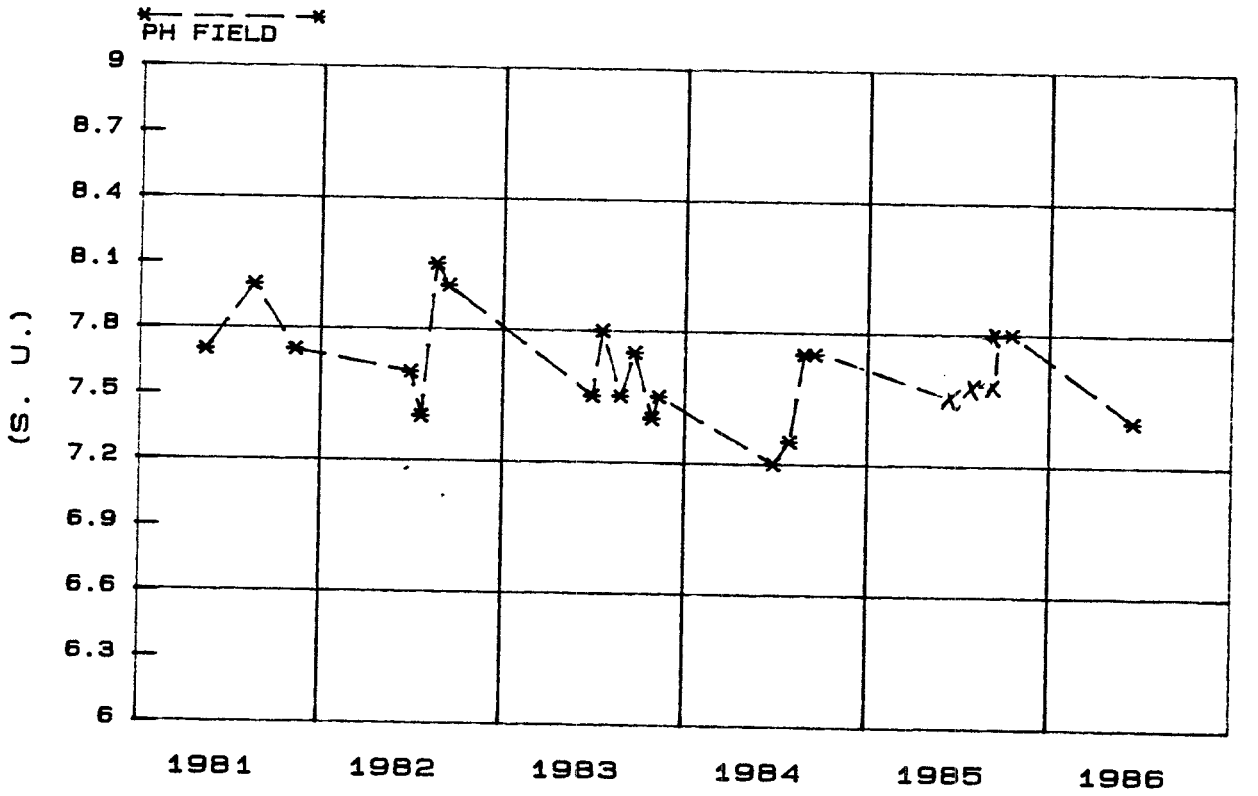
WATER QUALITY SITE: S23-4 SPRING



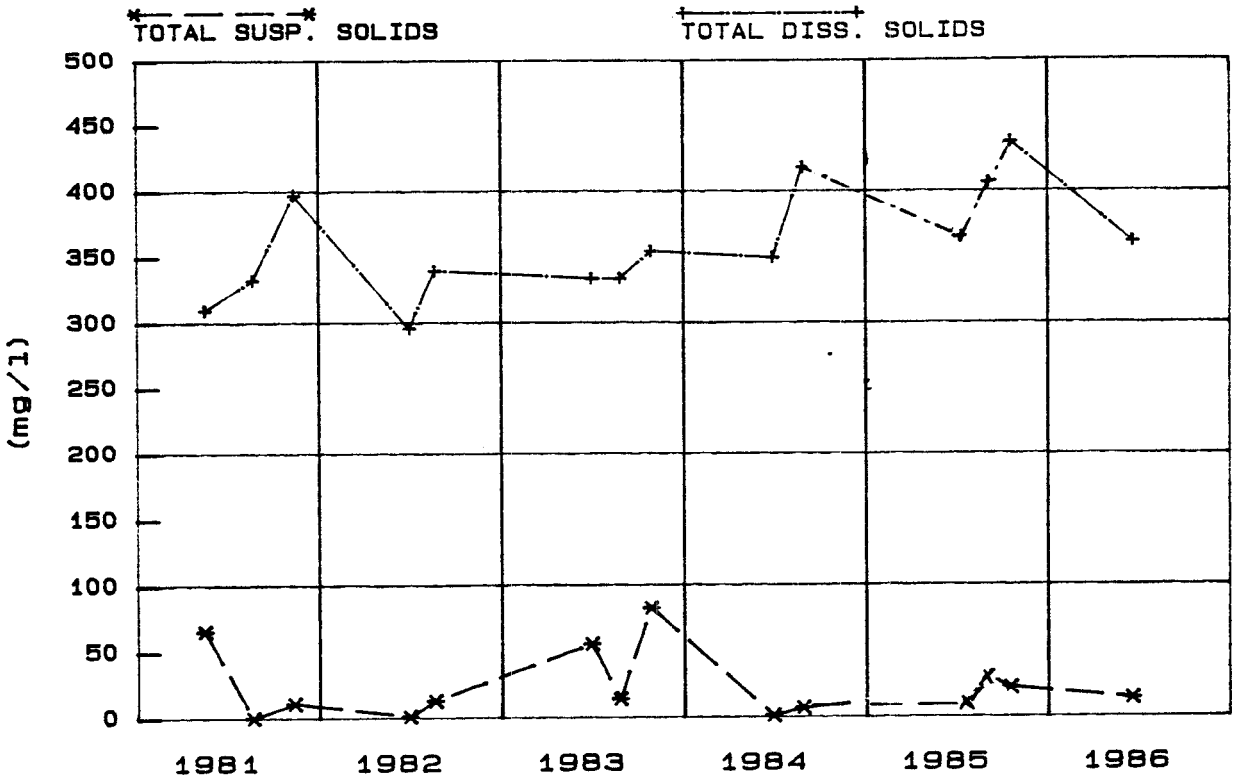
WATER QUALITY SITE: S23-4 SPRING



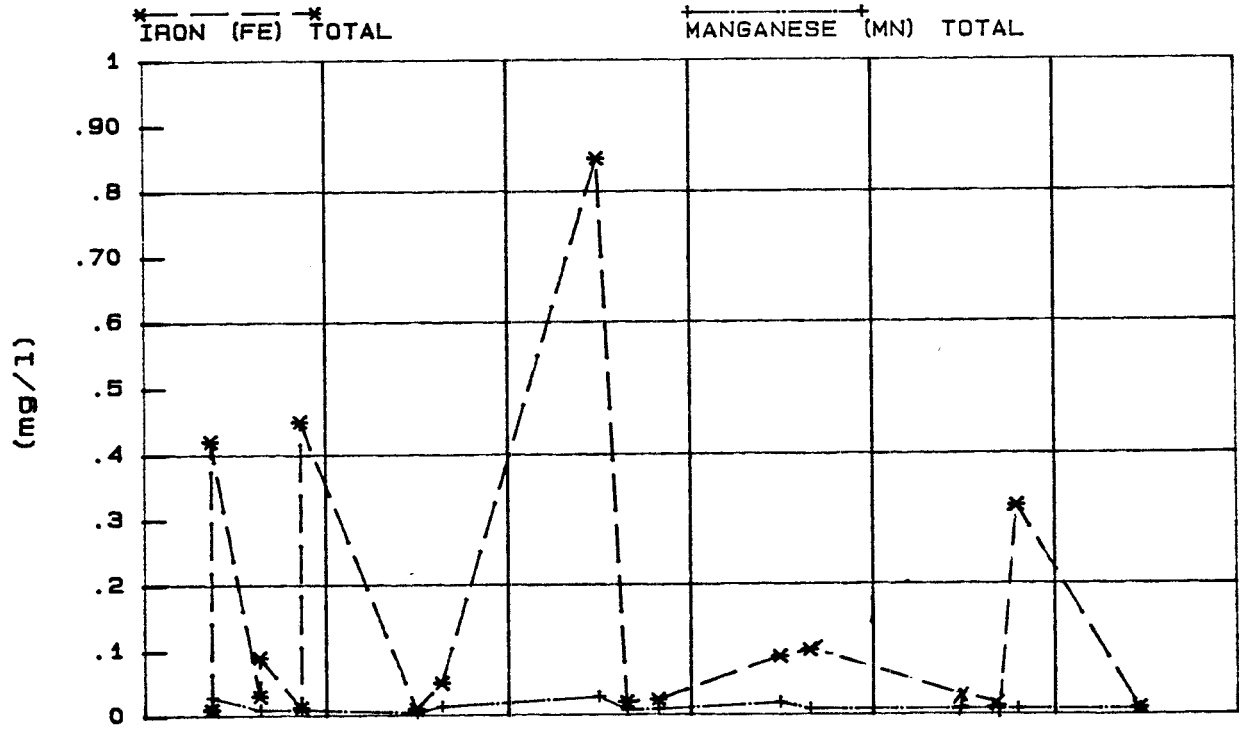
WATER QUALITY SITE: S24-12 SPRING



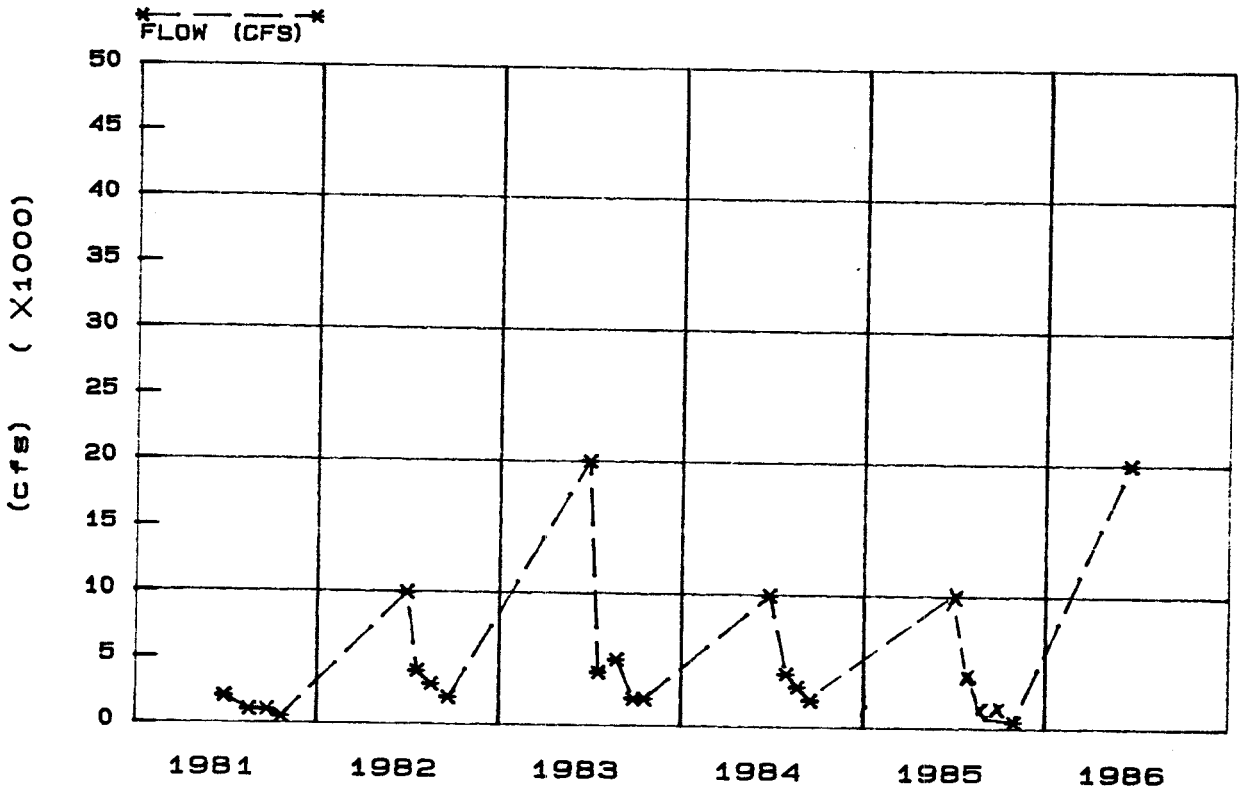
WATER QUALITY SITE: S24-12 SPRING



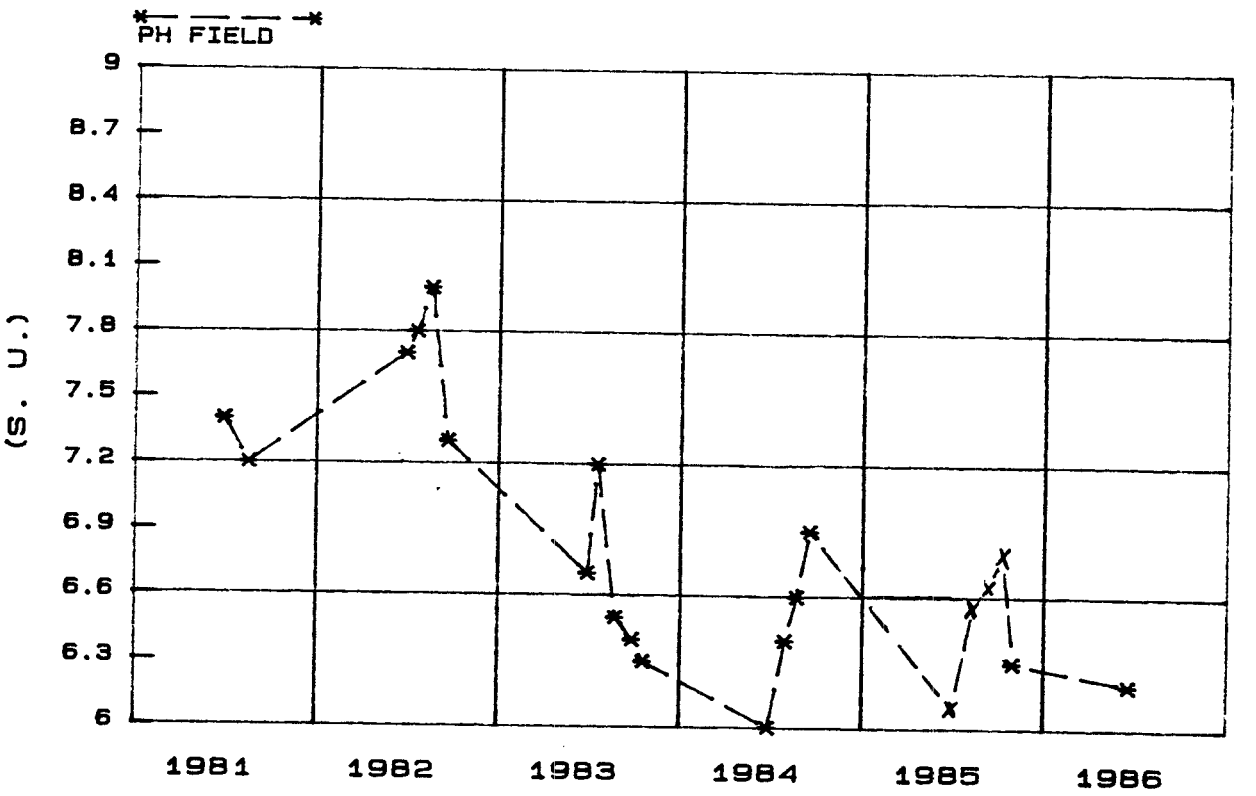
WATER QUALITY SITE: S24-12 SPRING



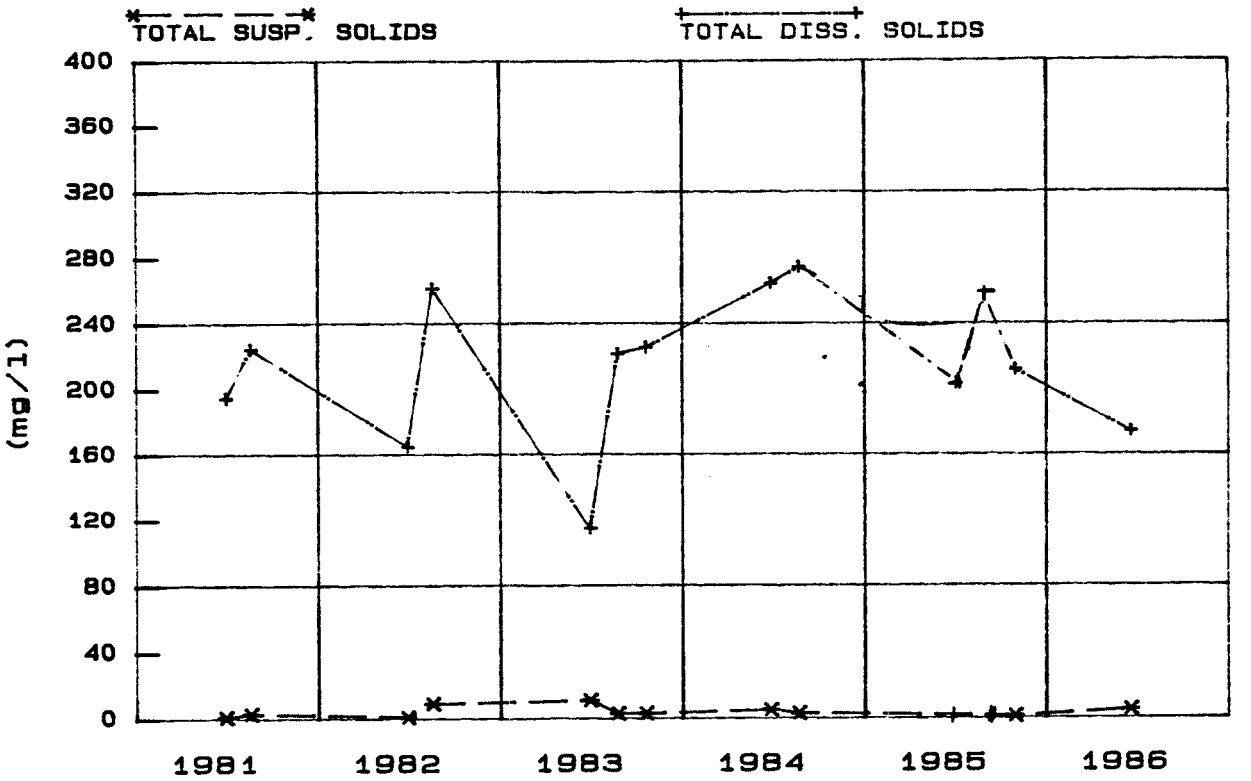
WATER QUALITY SITE: S24-12 SPRING



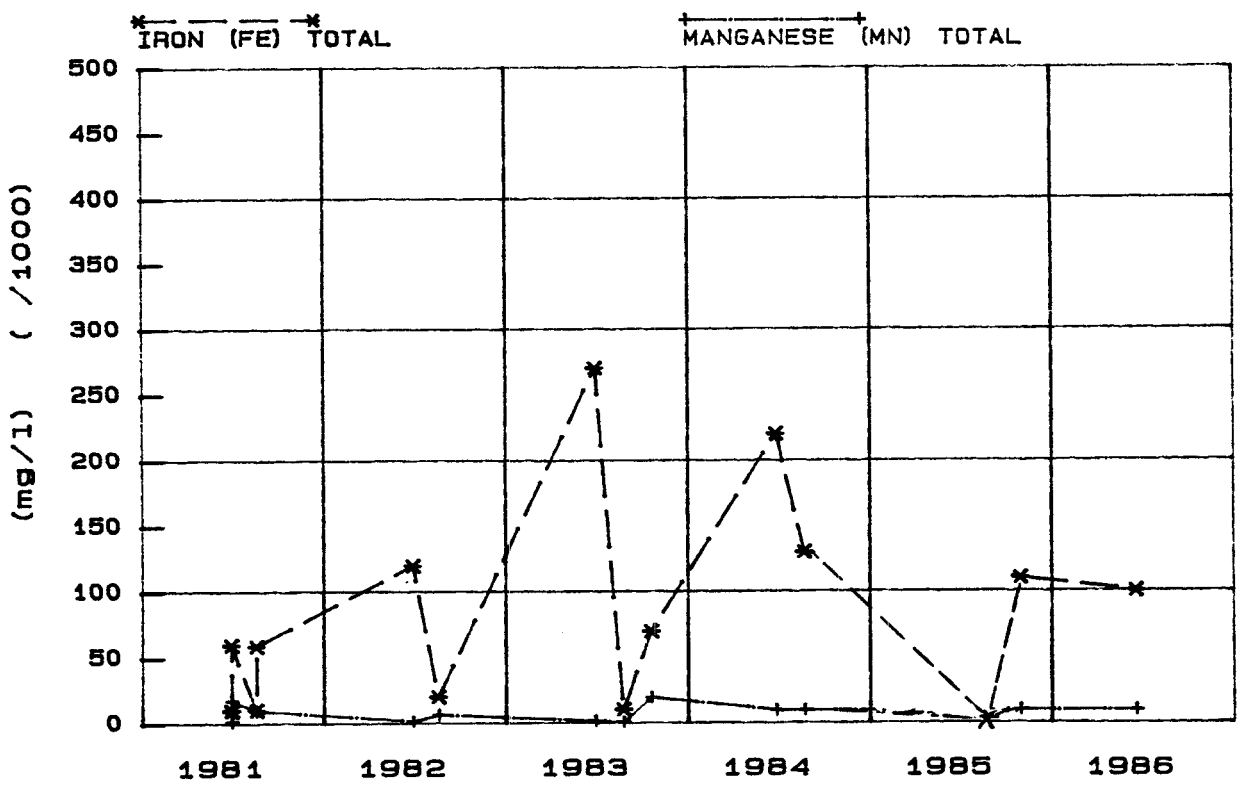
WATER QUALITY SITE: S26-13 SPRING



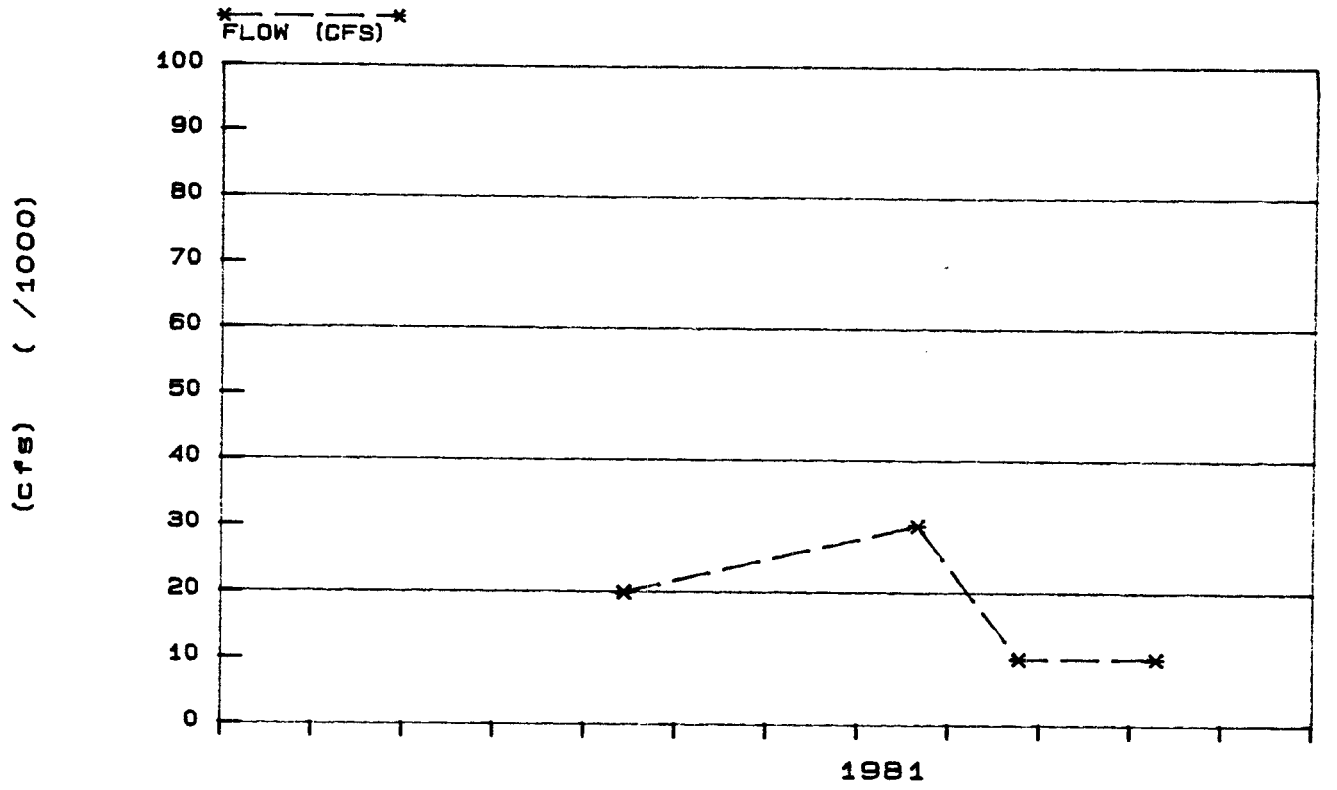
WATER QUALITY SITE: S26-13 SPRING



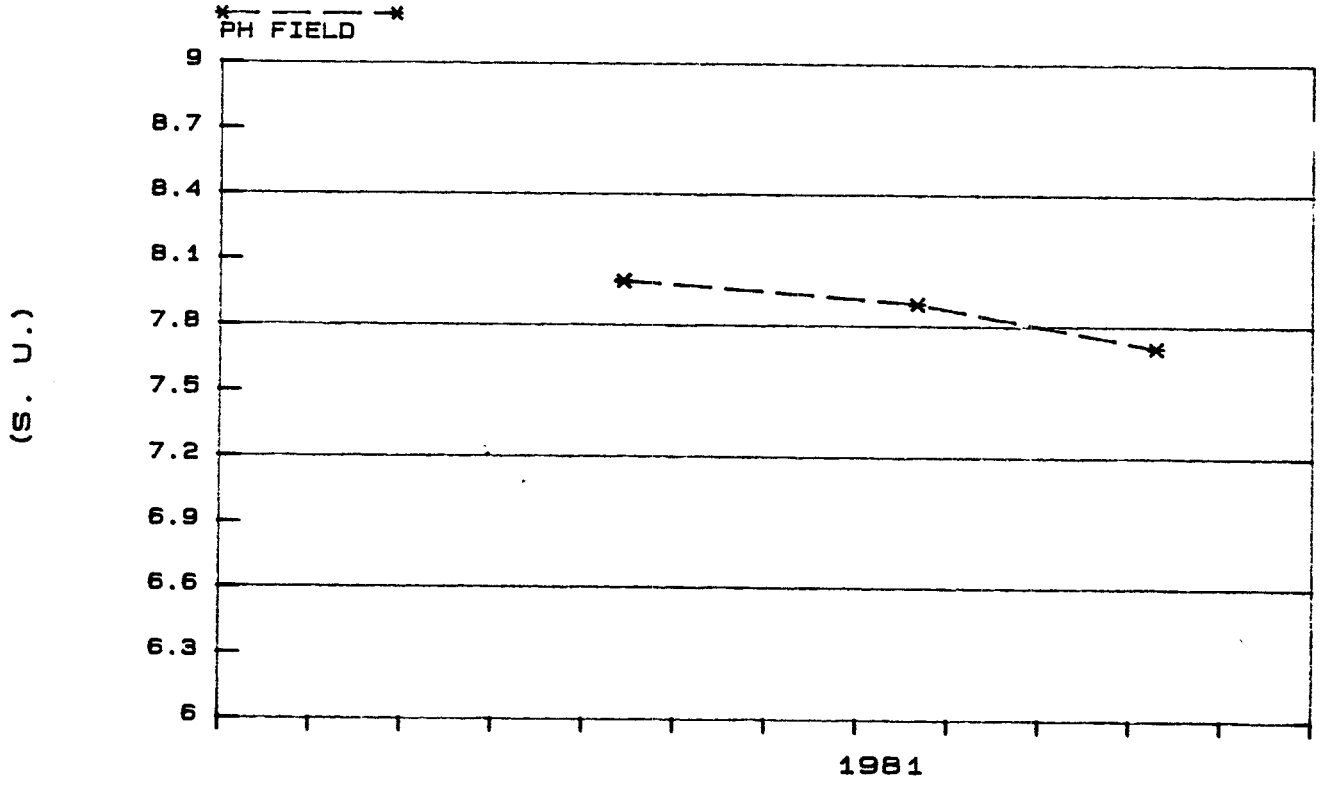
WATER QUALITY SITE: S26-13 SPRING



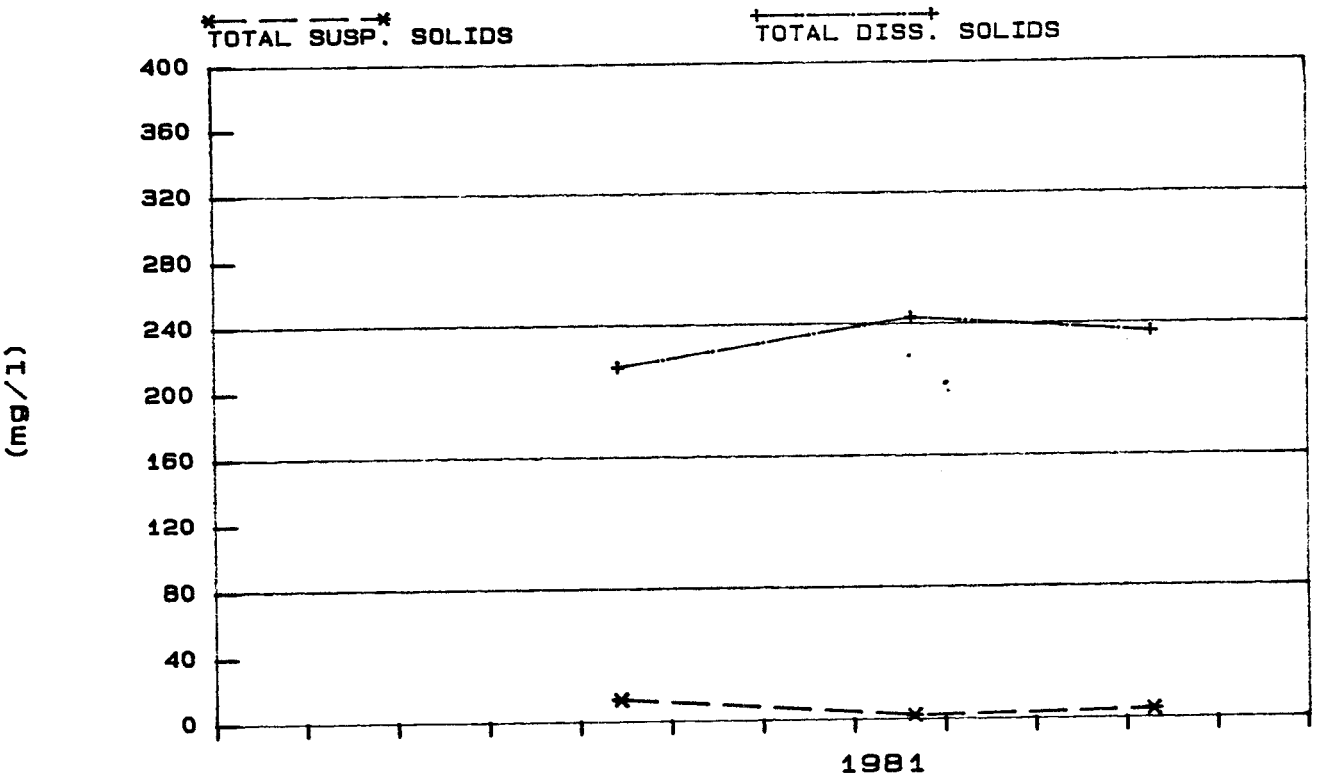
WATER QUALITY SITE: S26-13 SPRING



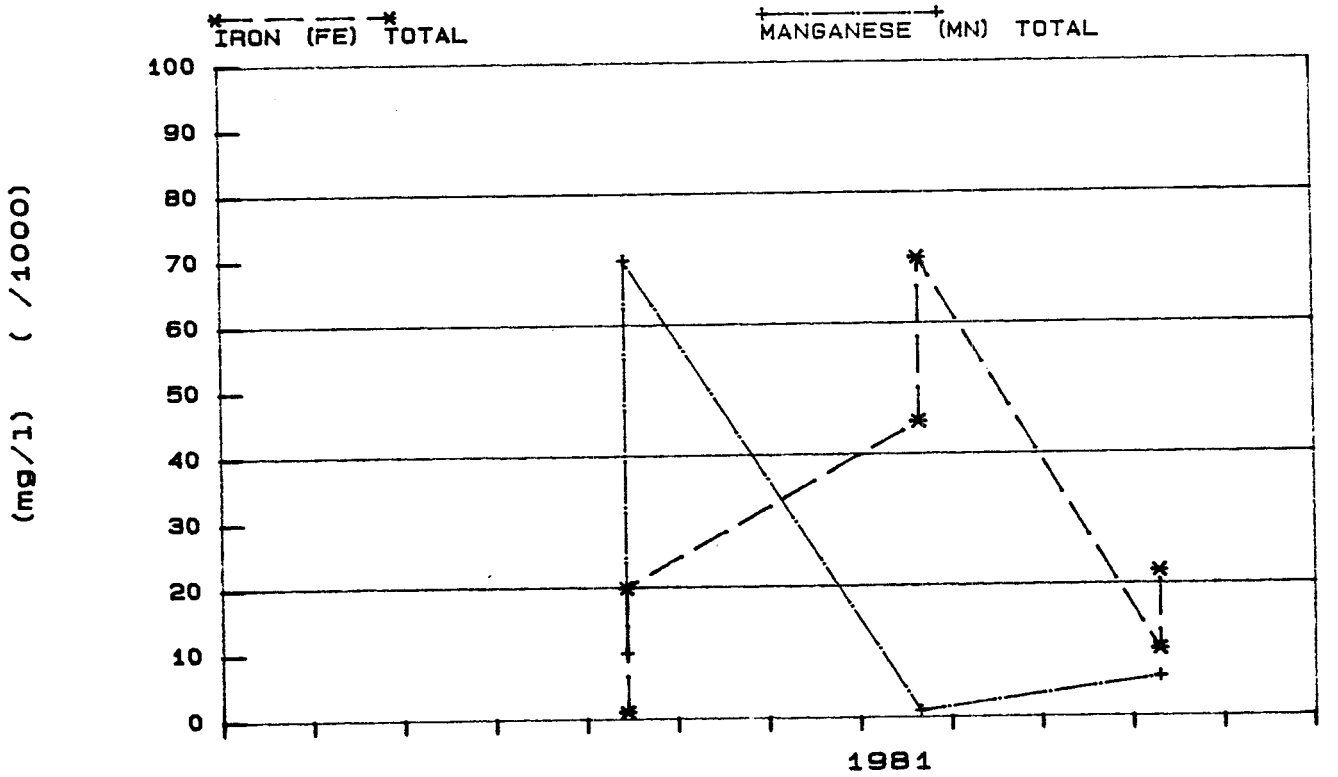
WATER QUALITY SITE: S34-12 SPRING



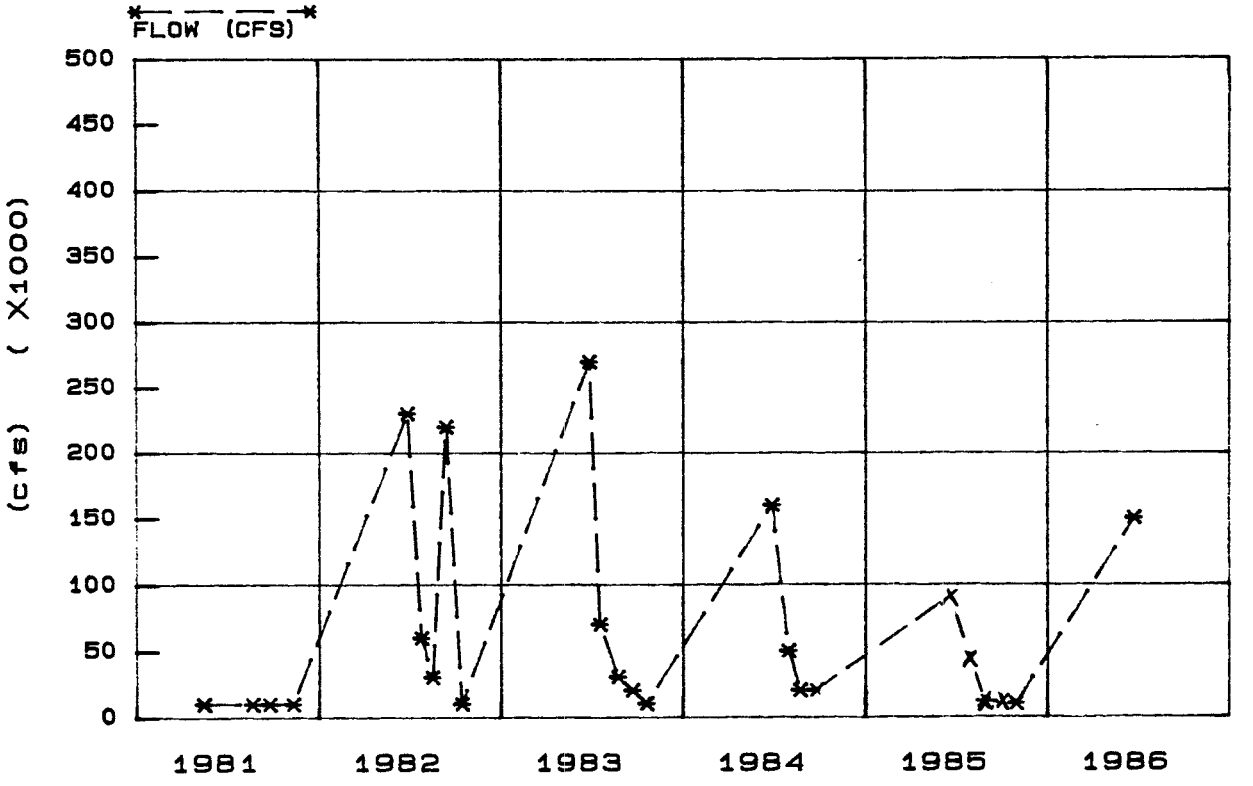
WATER QUALITY SITE: S34-12 SPRING



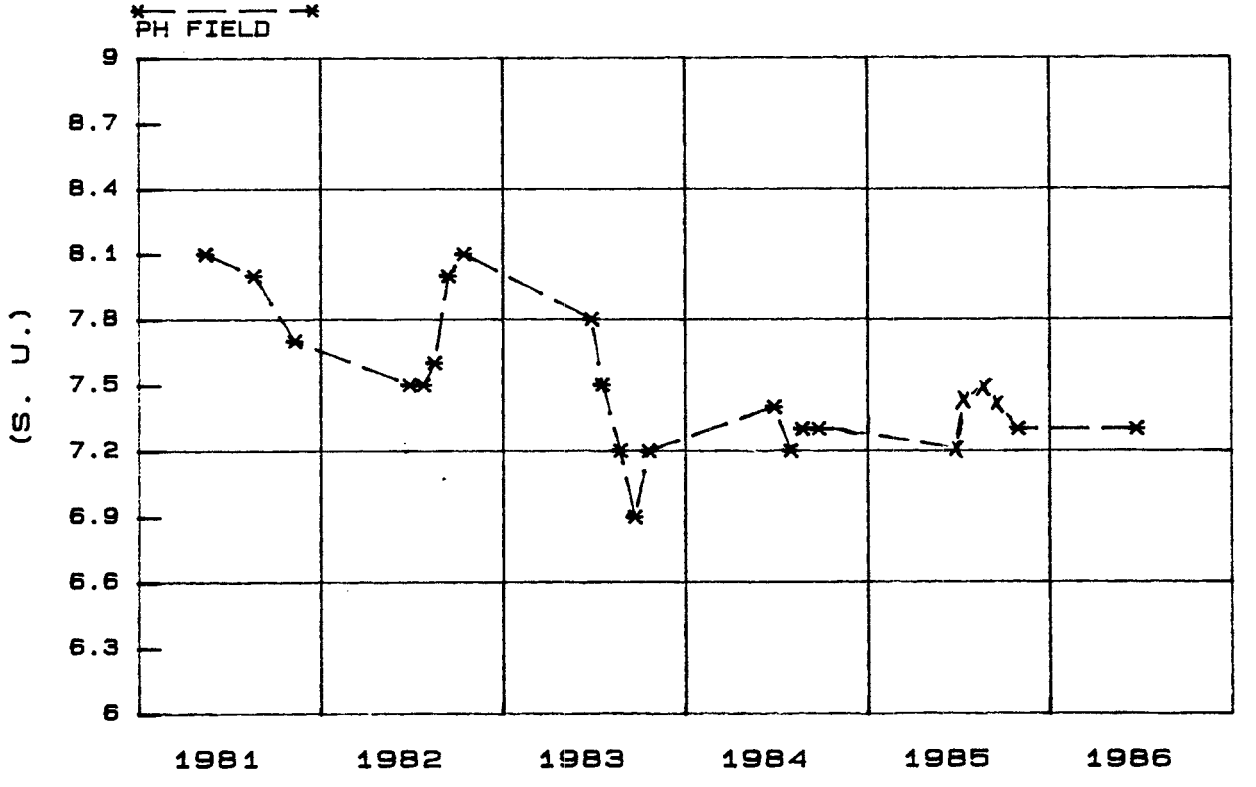
WATER QUALITY SITE: S34-12 SPRING



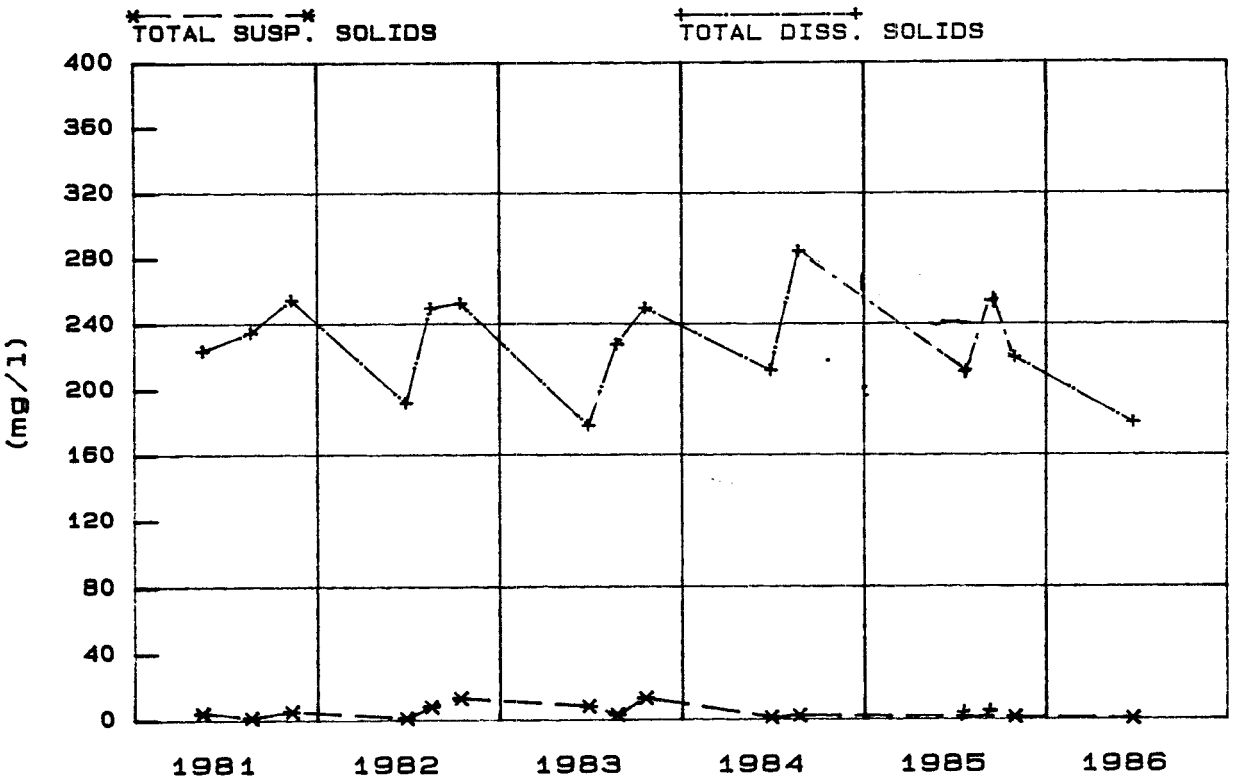
WATER QUALITY SITE: S34-12 SPRING



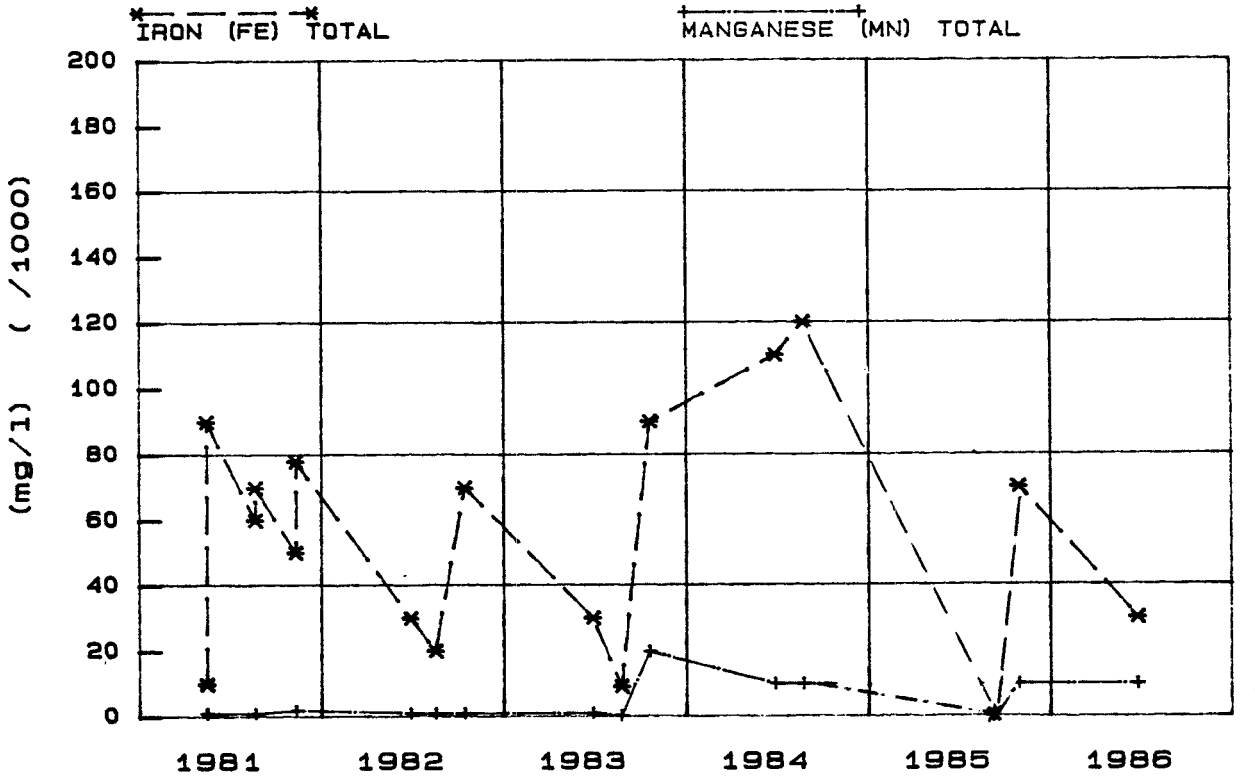
WATER QUALITY SITE: S35-8 SPRING



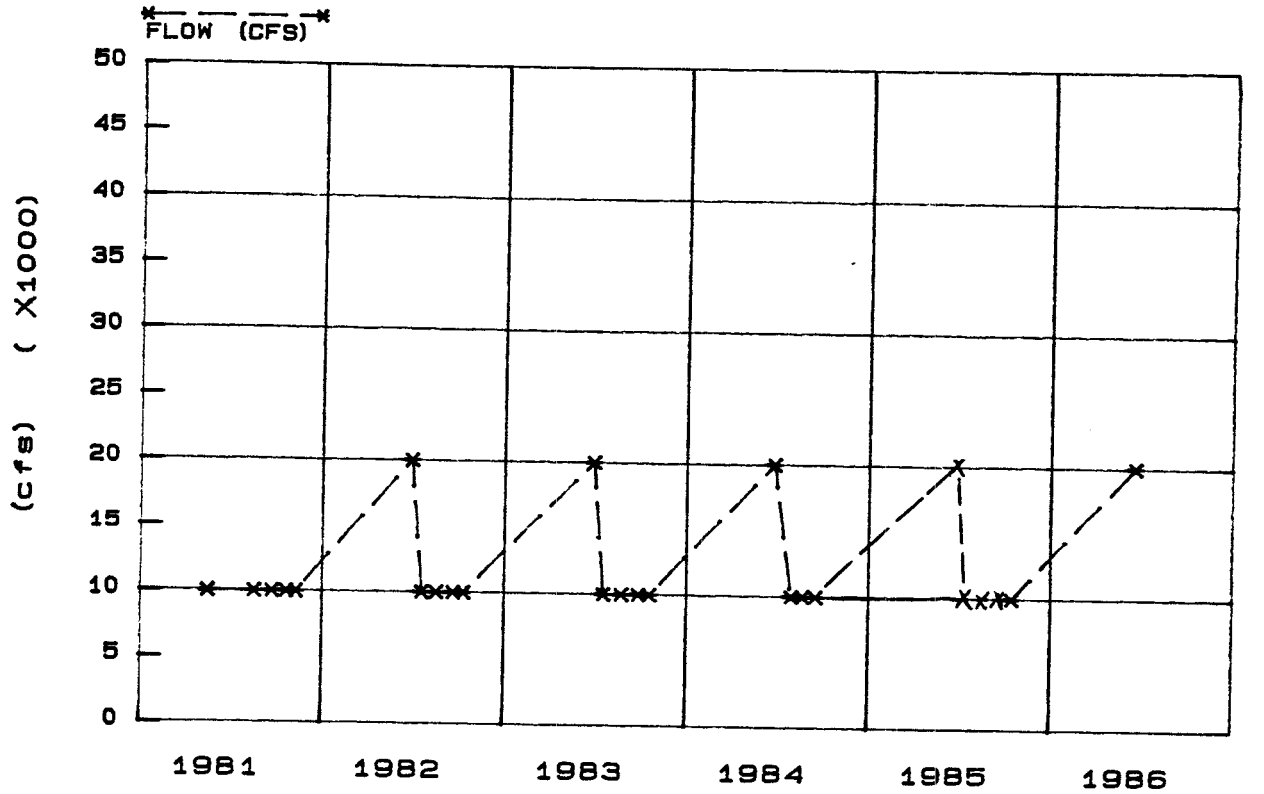
WATER QUALITY SITE: S35-8 SPRING



WATER QUALITY SITE: S35-8 SPRING



WATER QUALITY SITE: S35-8 SPRING



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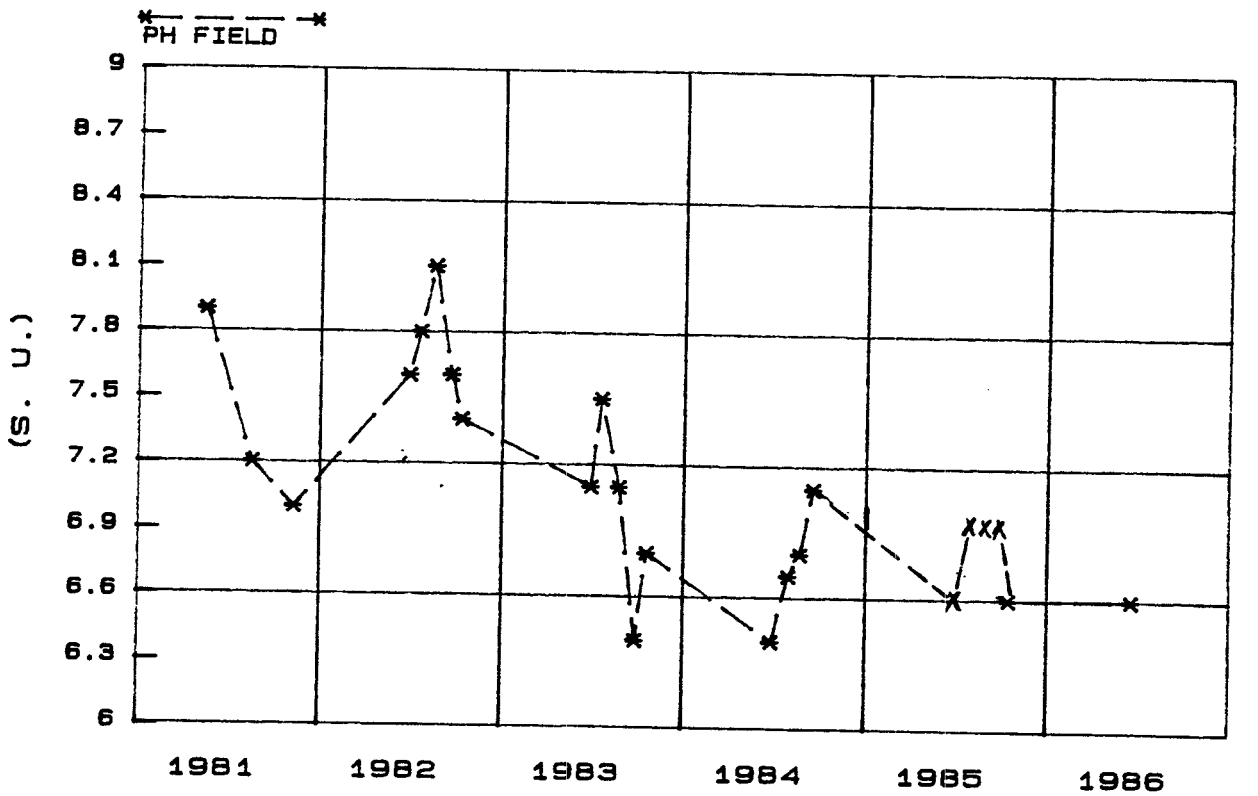

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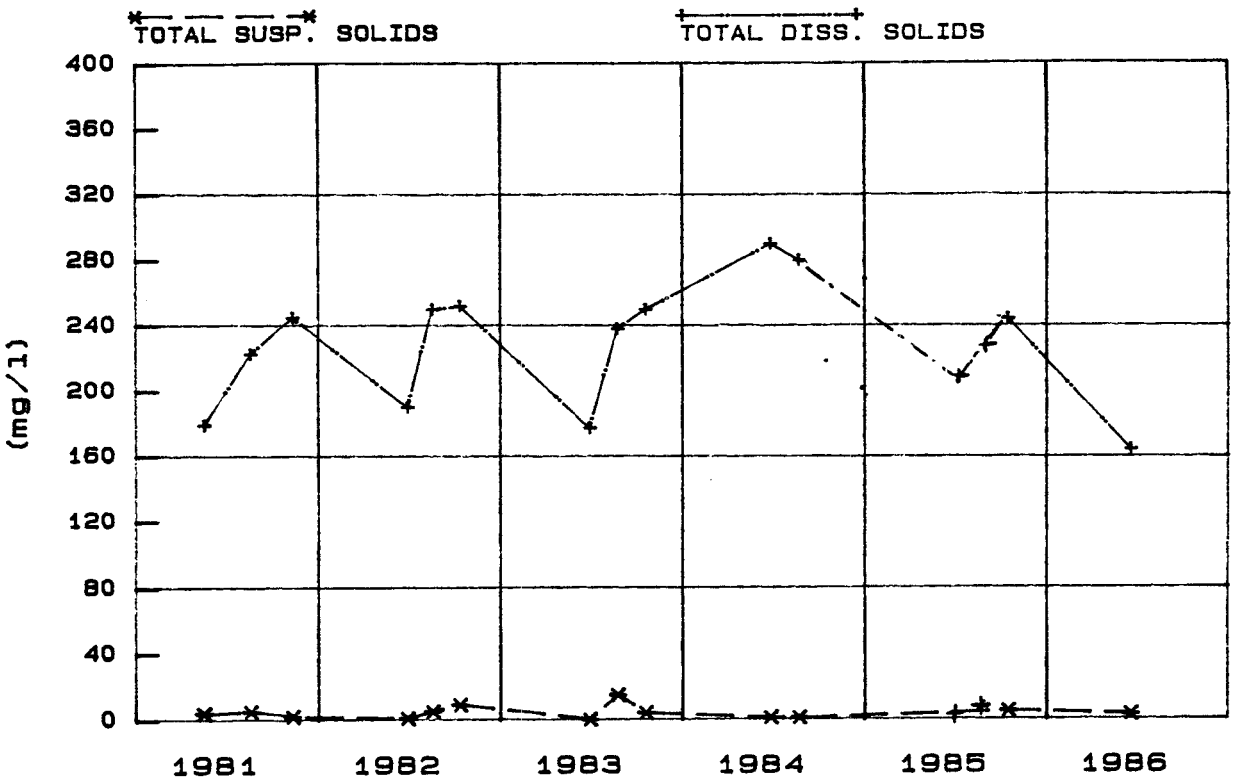

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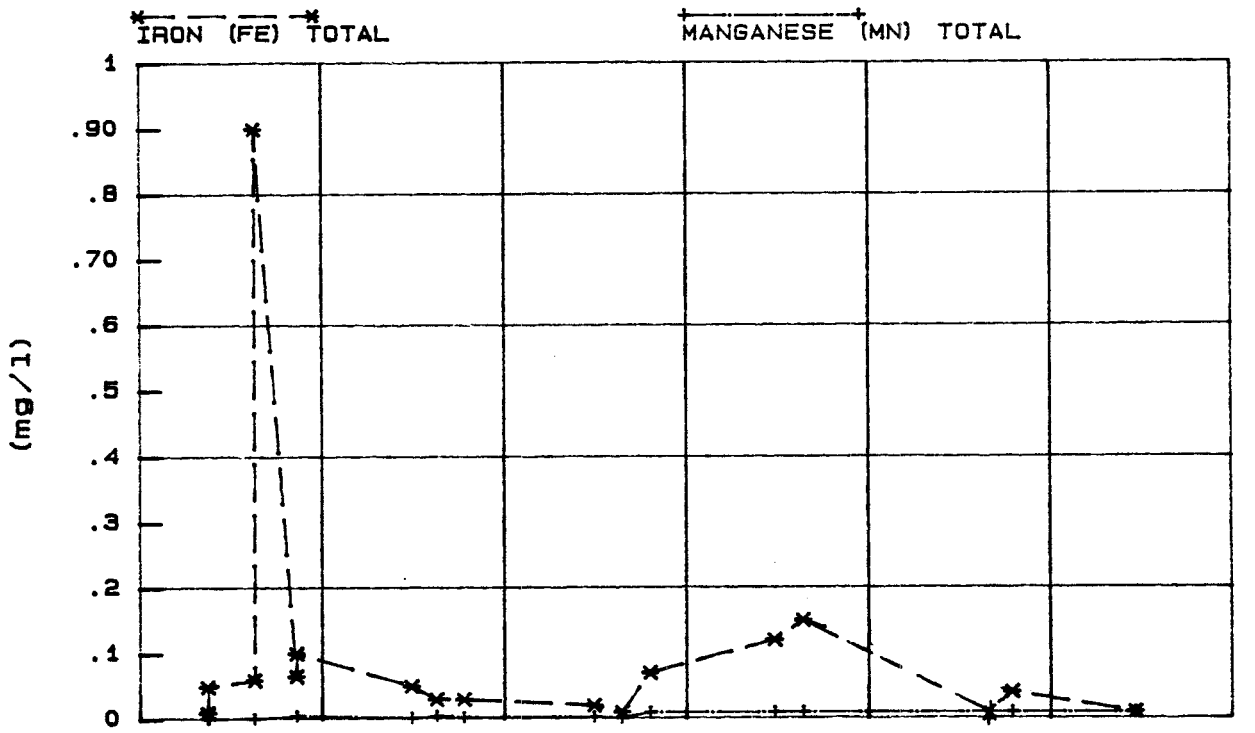
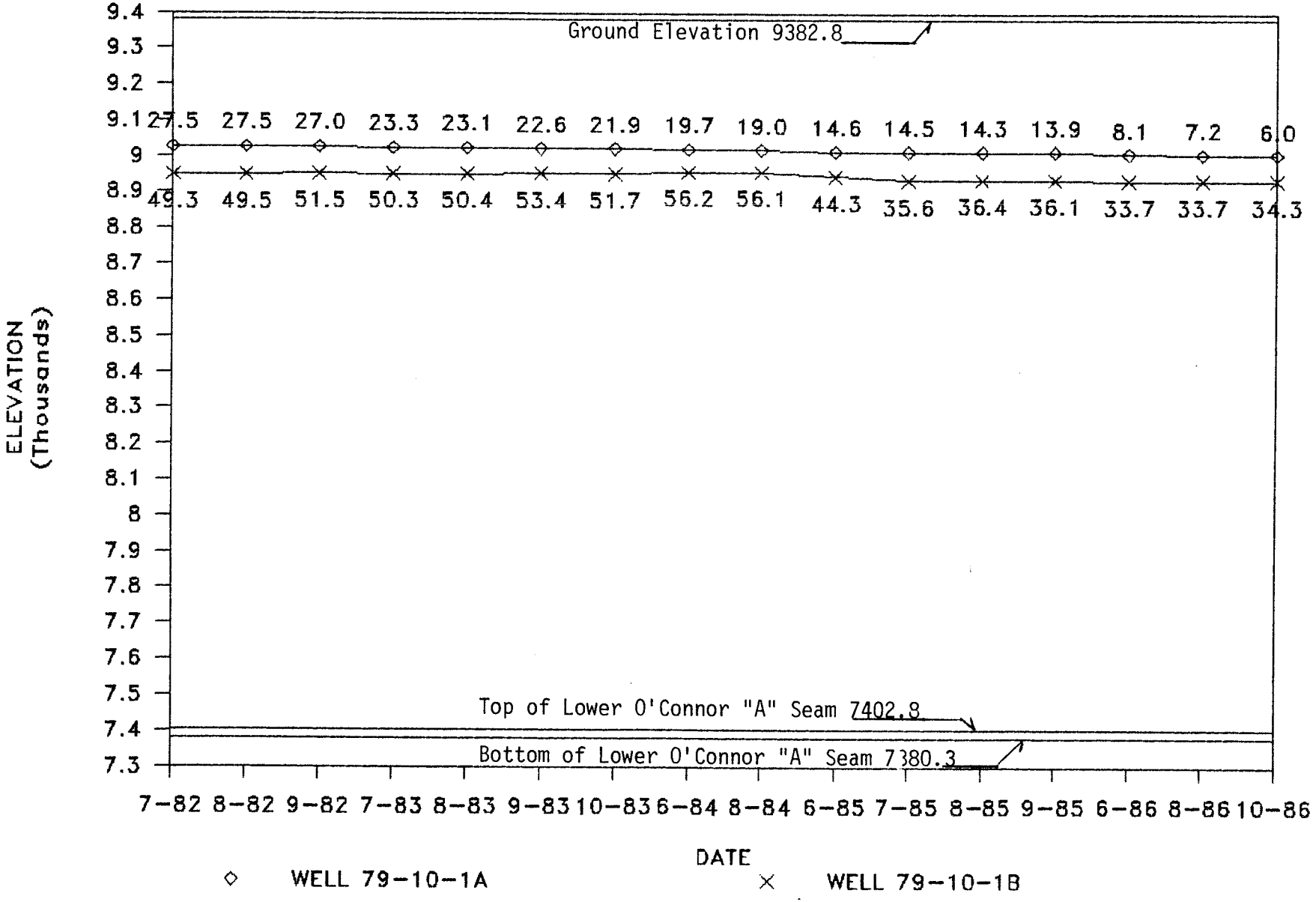


WATER QUALITY SITE: S36-12 SPRING

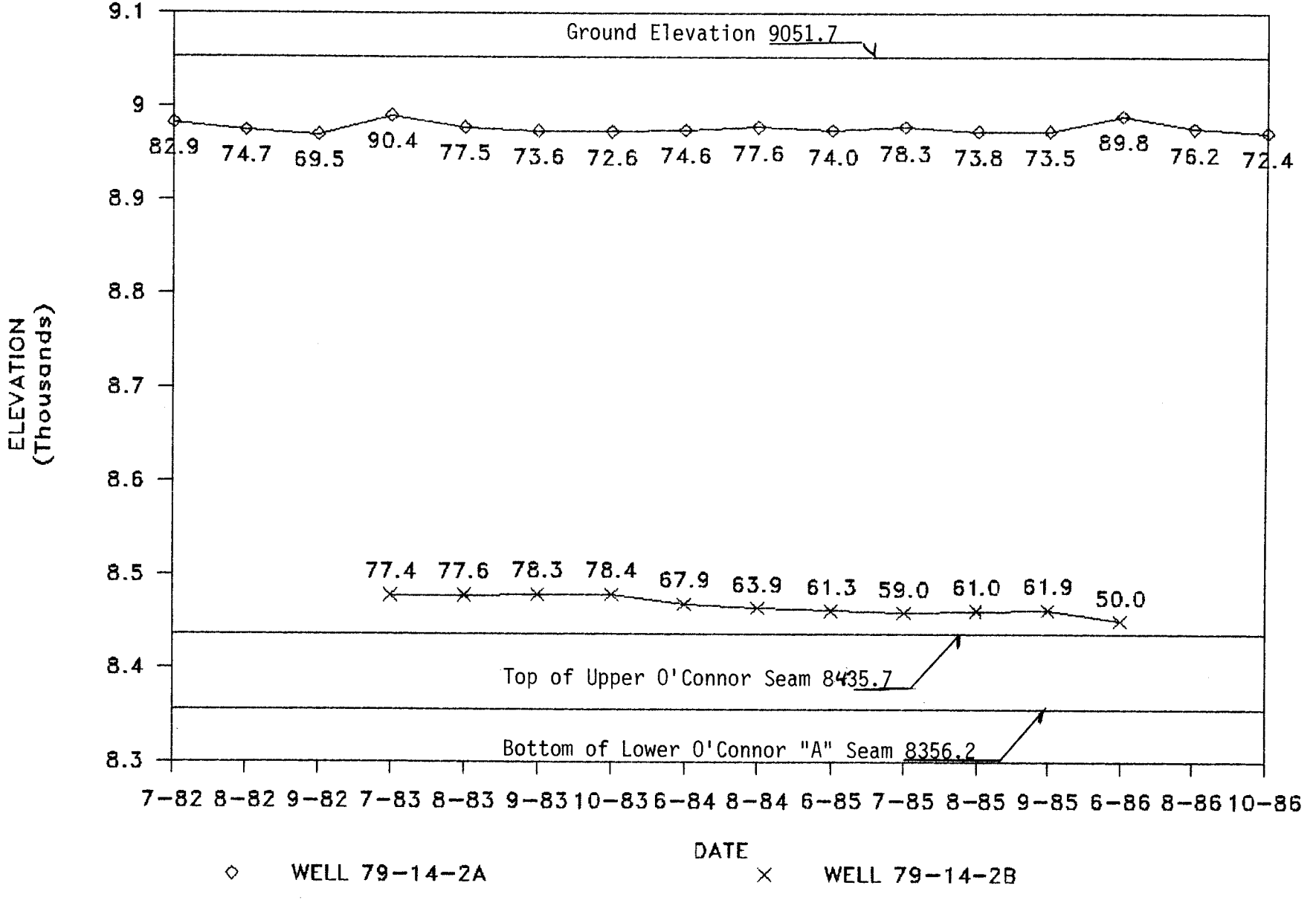
WELL WATER LEVEL

Wells 79-10-1A and 79-10-1B



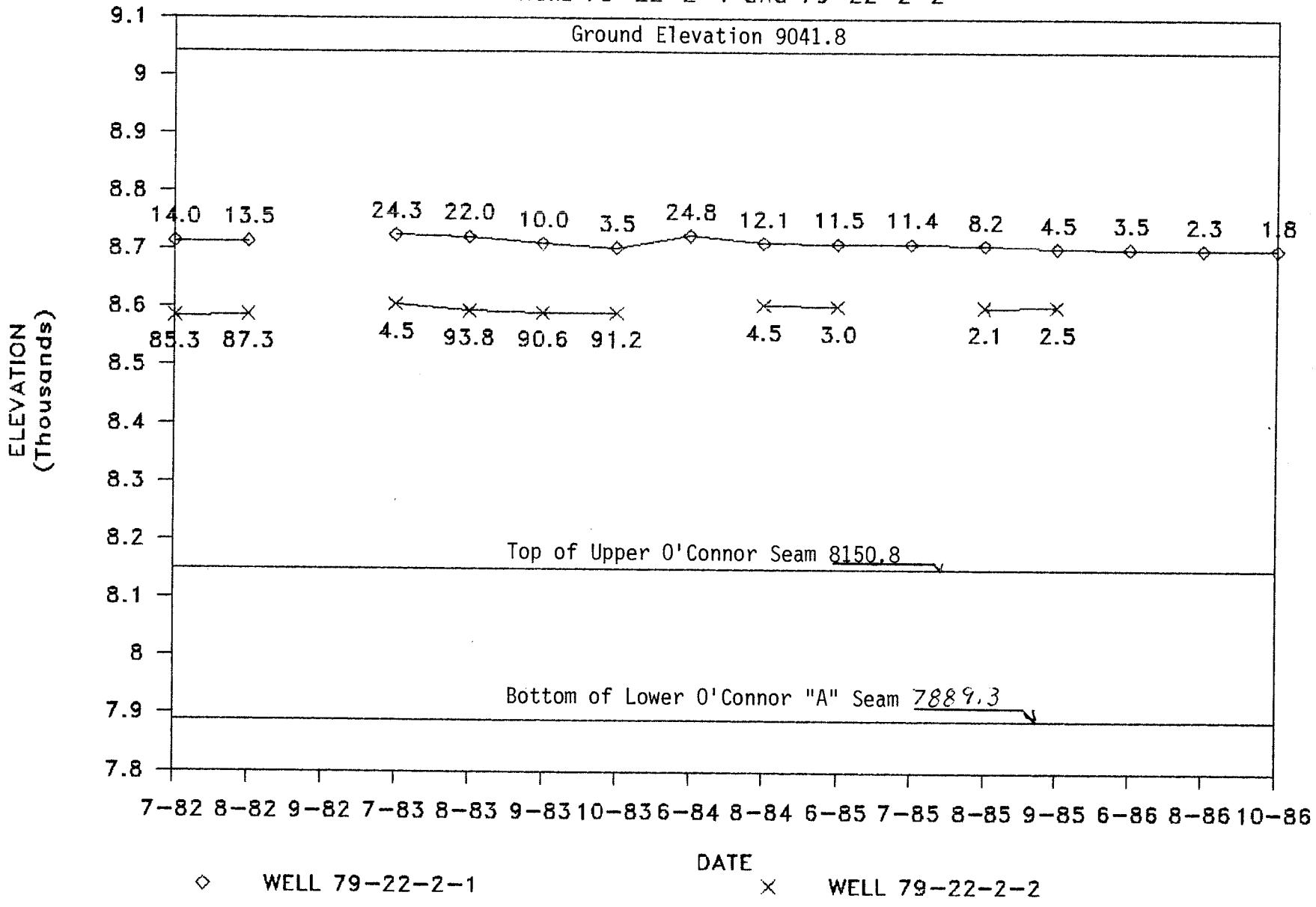
WELL WATER LEVEL

Wells 79-14-2A and 79-14-2B



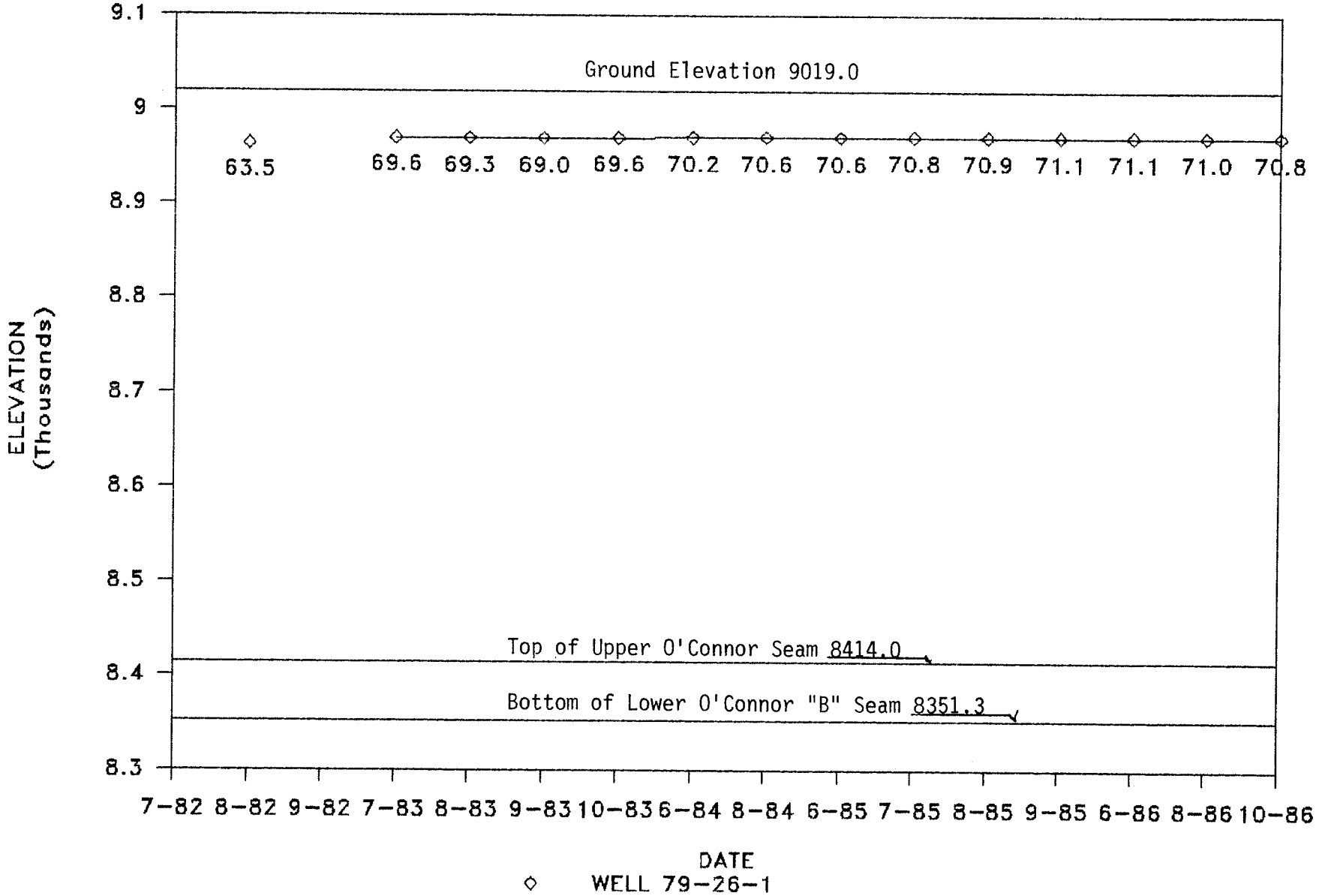
WELL WATER LEVEL

Wells 79-22-2-1 and 79-22-2-2



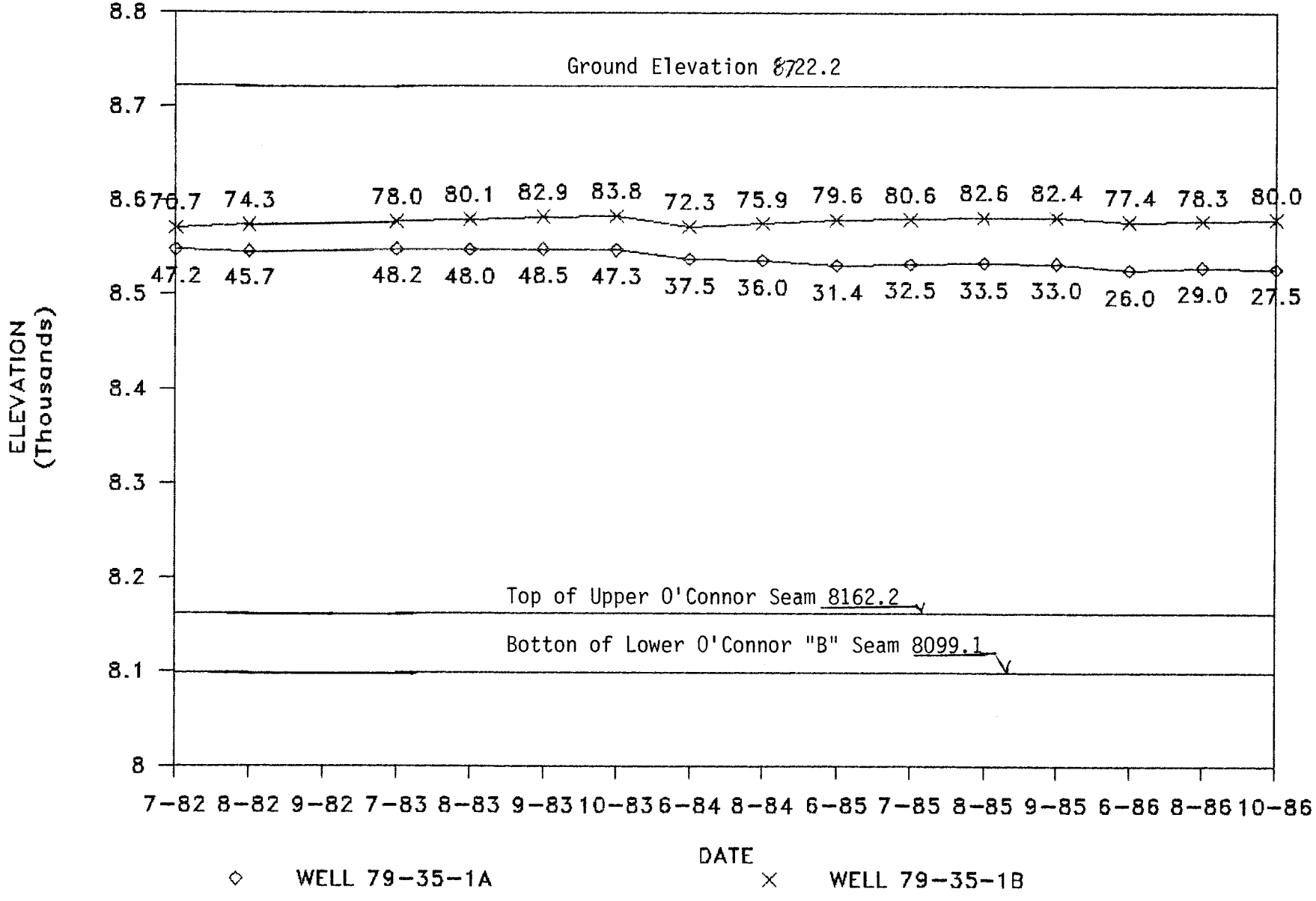
WELL WATER LEVEL

Well 79-26-1



WELL WATER LEVEL

Wells 79-35-1A and 79-35-1B



SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN LOCATED ON AND ADJACENT TO THE SKYLINE PROPERTY

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-252	Utah Div. of Wildlife Resources	Gooseberry Creek with Storage	5.0	Fish Culture	January 1 to December 31
91-345	Tom Nicolaides Leon Nicolaides Mary Stathis Bessie Daraban	Green Canyon Spring Stream	0.75	Irrigation	March 1 to November 30
91-423	Nick Marakis (½ interest)	Winter Quarters Creek	----	Stockwatering	January 1 to December 31
91-431	Nick Marakis (½ interest)	Stream	----	Stockwatering	January 1 to December 31
91-436	Nick Marakis (½ interest)	Stream	----	Stockwatering	January 1 to December 31
91-437	Nick Marakis (½ interest)	Clear Creek	----	Stockwatering	January 1 to December 31
91-438	Nick Marakis (½ interest)	Clear Creek	----	Stockwatering	January 1 to December 31
91-440	Nick Marakis (½ interest)	Wash with storage	----	Stockwatering	January 1 to December 31
91-441	Nick Marakis (½ interest)	Stream with storage	----	Stockwatering	Janaury 1 to December 31
91-462	John Marakis Estate (½ interest)	Winter Quarters Creek	----	Stockwatering	January 1 to December 31
91-471	John Marakis Estate (½ interest)	Stream	----	Stockwatering	January 1 to December 31
91-476	John Marakis Estate (½ interest)	Stream	----	Stockwatering	January 1 to December 31
91-477	John Marakis Estate (½ interest)	Clear Creek	----	Stockwatering	January 1 to December 31
91-478	John Marakis Estate (½ interest)	Clear Creek	----	Stockwatering	January 1 to December 31

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-479	John Marakis Estate (½ interest)	Wash with storage	----	Stockwatering	January 1 to December 31
91-480	John Marakis Estate (½ interest)	Stream with storage	----	Stockwatering	January 1 to December 31
91-482	Robert Radakovich	Stream	----	Stockwatering	May 1 to December 15
91-483	Robert Radakovich	Winter Quarters Creek	0.443	Irrigation Stockwatering	March 1 to December 15
91-592	John Marakis Estate (½ interest)	Mud Creek	----	Stockwatering	January 1 to December 31
91-593	Nick Marakis (½ interest)	Mud Creek	----	Stockwatering	January 1 to December 31
91-1009	U.S. Forest Service	Tributary to Snider Canyon Cr.	----	Stockwatering	July 1 to September 30
91-1010	U.S. Forest Service	Tributary to Mud Creek	----	Stockwatering	July 1 to September 30
91-1011	U.S. Forest Service	Mud Creek	----	Stockwatering	July 1 to September 30
91-1012	U.S. Forest Service	Mud Creek	----	Stockwatering	July 1 to September 30
91-1014	U.S. Forest Service	Tributary to Mud Creek	----	Stockwatering	July 1 to September 30
91-1015	U.S. Forest Service	Tributary to Mud Creek	----	Stockwatering	July 1 to September 30
91-1016	U.S. Forest Service	Long Canyon Creek	----	Stockwatering	July 1 to September 30
91-1017	U.S. Forest Service	Tributary to Long Canyon Cr.	----	Stockwatering	July 1 to September 30
91-1018	U.S. Forest Service	Tributary to Mud Creek	----	Stockwatering	July 1 to September 30
91-1019	U.S. Forest Service	Tributary to Boardinghouse Canyon Creek	----	Stockwatering	July 1 to September 30
91-1020	U.S. Forest Service	Boardinghouse Canyon Creek	----	Stockwatering	July 1 to September 30
91-1021	U.S. Forest Service	Boardinghouse Canyon Creek	----	Stockwatering	July 1 to September 30

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-1022	U.S. Forest Service	S. Fork Eccles Canyon Cr.	----	Stockwatering	July 1 to September 30
91-1023	U.S. Forest Service	Tributary to South Fork Eccles Canyon Creek	----	Stockwatering	July 1 to September 30
91-1024	U.S. Forest Service	Tributary to South Fork Eccles Canyon Creek	----	Stockwatering	July 1 to September 30
91-1025	U.S. Forest Service	Tributary to Eccles Canyon Cr.	----	Stockwatering	July 1 to September 30
91-1026	U.S. Forest Service	Tributary to Eccles Canyon Cr.	----	Stockwatering	July 1 to September 30
91-1027	U.S. Forest Service	Eccles Canyon Creek	----	Stockwatering	July 1 to September 30
91-1028	U.S. Forest Service	Eccles Canyon Creek	----	Stockwatering	July 1 to September 30
91-1029	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1030	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1031	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1032	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1033	U.S. Forest Service	Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1034	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1037	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1038	U.S. Forest Service	Woods Canyon Creek	----	Stockwatering	July 1 to September 30
91-1040	U.S. Forest Service	East Fork Dairy Creek	----	Stockwatering	July 1 to September 30
91-1041	U.S. Forest Service	Andrew Dairy Creek	----	Stockwatering	July 1 to September 30

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-1043	U.S. Forest Service	Wife Creek	----	Stockwatering	July 1 to September 30
91-1044	U.S. Forest Service	Wife Creek	----	Stockwatering	July 1 to September 30
91-1047	U.S. Forest Service	Tributary to French Creek	----	Stockwatering	July 1 to September 30
91-1048	U.S. Forest Service	Tributary to French Creek	----	Stockwatering	July 1 to September 30
91-1049	U.S. Forest Service	French Creek	----	Stockwatering	July 1 to September 30
91-1050	U.S. Forest Service	French Creek	----	Stockwatering	July 1 to September 30
91-1112	U.S. Forest Service	Mill Creek	----	Stockwatering	July 1 to October 10
91-1113	U.S. Forest Service	Mill Creek	----	Stockwatering	July 1 to September 30
91-1114	U.S. Forest Service	Tributary to Mill Creek	----	Stockwatering	July 1 to September 10
91-1115	U.S. Forest Service	Gooseberry Creek	----	Stockwatering	July 1 to October 10
91-1116	U.S. Forest Service	Gooseberry Creek	----	Stockwatering	July 1 to October 10
91-1117	U.S. Forest Service	Gooseberry Creek	----	Stockwatering	July 1 to October 10
91-1118	U.S. Forest Service	Gooseberry Creek	----	Stockwatering	July 1 to October 10
91-1119	U.S. Forest Service	Tributary to Gooseberry Cr.	----	Stockwatering	July 1 to October 10
91-1120	U.S. Forest Service	Tributary to Gooseberry Cr.	----	Stockwatering	July 1 to October 10
91-1121	U.S. Forest Service	Gooseberry Creek	----	Stockwatering	June 6 to October 10
91-1128	U.S. Forest Service	Jap Creek	----	Stockwatering	June 6 to October 10
91-1129	U.S. Forest Service	Jap Creek	----	Stockwatering	July 1 to September 30
91-1142	U.S. Forest Service	Gooseberry Creek	----	Stockwatering	June 6 to October 10
91-1143	U.S. Forest Service	Gooseberry Creek	----	Stockwatering	July 1 to October 5
91-1146	U.S. Forest Service	Gooseberry Creek	----	Stockwatering	July 1 to October 5
91-1147	U.S. Forest Service	Gooseberry Creek	----	Stockwatering	July 1 to September 30

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-1148	Leon & Tom Nicolaides Mary Stathis Bessie Daraban	Green Canyon Stream	----	Stockwatering	January 1 to December 31
91-1149	U.S. Forest Service	Gooseberry Creek with Storage	----	Stockwatering	July 1 to October 5
91-1678	Calvin K. Jacob	Stream	----	Stockwatering	May 1 to November 30
91-1713	N.M. Jensen Investment Co.	Spring Stream	----	Stockwatering Domestic	January 1 to December 31
91-2018	Angelo Georgedes	Green Canyon Stream with Storage	----	Stockwatering	May 1 to October 31
91-2019	Angelo Georgedes	Stream with storage	----	Stockwatering	May 1 to October 31
91-2020	Angelo Georgedes	Green Canyon Stream	----	Stockwatering	May 1 to October 31
91-2048	John Jouflas Estate	Pleasant Creek	----	Stockwatering	May 1 to October 31
91-2146	Elrie and Bertha Simonsen	Winter Quarters Creek	----	Stockwatering	June 1 to November 30
91-2495	Elrie & Bertha Simonsen	Woods Canyon Creek	----	Stockwatering	June 1 to November 30
91-2496	Elrie & Bertha Simonsen	Stream with storage	----	Stockwatering	June 1 to November 30
91-2548	John Jouflas Estate (2/3 interest)	Pleasant Creek	----	Stockwatering	May 1 to October 31
91-2549	Lee S. Thomas (1/3 interest)	Pleasant Creek	----	Stockwatering	May 1 to October 31
91-2971	Lee S. Thomas (1/3 interest)	Clear Creek	0.106	Irrigation	March 1 to November 30
91-2972	John Jouflas Estate (2/3 interest)	Clear Creek	0.106	Irrigation	March 1 to November 30
91-2973	John Jouflas Estate	Clear Creek	0.381	Irrigation	March 1 to November 30

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-2974	Justus O. Seely	Clear Creek	0.170	Irrigation Stockwatering	March 1 to November 30
91-2977	S. J. Harkness	Clear Creek	0.075	Irrigation	March 1 to November 30
91-2978	Justus O. Seely	Clear Creek	0.683	Irrigation Stockwatering	March 1 to November 30
91-2979	S. J. Harkness	Clear Creek	0.453	Irrigation	March 1 to November 30
91-2980	Helen Miller	Clear Creek	0.10	Irrigation	March 1 to November 30
91-2981	Orson Marsing	Clear Creek	0.10	Irrigation	March 1 to November 30
91-2982	Lillie Pearson	Clear Creek	0.10	Irrigation	March 1 to November 30
91-2983	Thomas Biggs, Jr.	Clear Creek	0.10	Irrigation	March 1 to November 30
91-2984	Waino E. Burton	Clear Creek	0.10	Irrigation	March 1 to November 30
91-2985	Phyllis M. Conover	Clear Creek	0.10	Irrigation	March 1 to November 30
91-2986	William & Armeda Sherman	Clear Creek	0.015	Irrigation	March 1 to November 30
91-2987	Leah B. Johnson	Clear Creek	0.10	Irrigation	March 1 to November 30
91-2988	E. D. & Elizabeth Jacobson	Clear Creek	0.10	Irrigation	March 1 to November 30
91-2989	Scofield Town	Clear Creek	0.10	Irrigation	March 1 to November 30
91-2990	Della L. Madsen	Clear Creek	1.166	Irrigation	March 1 to November 30
91-2991	John B. Jones	Clear Creek	4.58	Irrigaion	March 1 to November 30
91-2992	John B. Jones	Clear Creek	4.58	Irrigation	March 1 to November 30
91-2993	John B. Jones	Clear Creek	4.58	Irrigation	March 1 to November 30
91-2994	John B. Jones	Woods Canyon Creek	----	Irrigation	March 1 to November 30
91-2995	John B. Jones	Woods Canyon Creek	----	Irrigation	March 1 to November 30
91-2996	Gladys P. Butler (4.85/21.70 interest)	Woods Canyon Creek	0.50	Irrigation	March 1 to November 30

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-2997	Alice M. Pannier (4.85/21.70 interest)	Woods Canyon Creek	0.50	Irrigation	March 1 to November 30
91-2998	Boyd W. & Johannah M. Hafen (12.0/21.70 interest)	Woods Canyon Creek	0.50	Irrigation	March 1 to November 30
91-2999	Reed & Leoan M. Gunderson	Woods Canyon Creek	0.136	Irrigation	March 1 to November 30
91-3002	Della L. Madsen	Woods Canyon Creek	0.035	Irrigation	March 1 to November 30
91-3003	Charles J. Jacobsen Evelyn M. Jacobsen Stephen C. Hacobsen Charlyn J. Dalebout (7.9/26.0 interest)	Woods Canyon Creek	0.433	Irrigation	March 1 to November 30
91-3004	Louise M. Watts Helen L. Watts John Andy Watts (18.1/26.0 interest)	Woods Canyon Creek	0.433	Irrigation	March 1 to November 30
91-3007	Elrie M. & Bertha Simonsen	Winter Quarters Creek	0.63	Irrigation	March 1 to November 30
91-3008	S. J. Harkness	Winter Quarters Creek	0.693	Irrigation	March 1 to November 30
91-3009	Elrie M. & Bertha Simonsen	Winter Quarters Creek	0.68	Irrigation	March 1 to November 30
91-3010	S. J. Harkness	Winter Quarters Creek	0.213	Irrigation	March 1 to November 30
91-3011	S. J. Harkness	Winter Quarters Creek	----	Stockwatering	January 1 to December 31
91-3014	Anton Michelog	Snider Creek	----	Stockwatering	January 1 to December 31
91-3015	Anton Michelog	Mud Creek	----	Stockwatering	January 1 to December 31
91-3040	Tom Nicolaides Leon Nicolaides Mary Stathis Bessie Daraban	Clear Creek	----	Stockwatering	January 1 to December 31
91-3045	Milton A. Oman	Clear Creek	----	Stockwatering	January 1 to December 31

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-3051	John Marakis Estate (½ interest)	Clear Creek	----	Stockwatering	January 1 to December 31
91-3052	Mick Marakis (½ interest)	Clear Creek	----	Stockwatering	January 1 to December 31
91-3053	Milton A. Oman	Clear Creek	----	Stockwatering	January 1 to December 31
91-3056	Tom Nicolaides Leon Nicolaides Mary Stathis Bessie Daraban	Stream	----	Stockwatering	January 1 to December 31
91-3057	Milton A. Oman	South Fork Eccles Canyon Cr.	----	Stockwatering	January 1 to December 31
91-3059	John Marakis Estate (½ interest)	South Fork Eccles Canyon Cr.	----	Stockwatering	January 1 to December 31
91-3060	Nick Marakis (½ interest)	South Fork Eccles Canyon Cr.	----	Stockwatering	January 1 to December 31
91-3070	John Marakis Estate (½ interest)	Eccles Canyon Creek	----	Stockwatering	January 1 to December 31
91-3071	Nick Marakis (½ interest)	Eccles Canyon Creek	----	Stockwatering	January 1 to December 31
91-3072	Milton A. Oman	Eccles Canyon Creek	----	Stockwatering	January 1 to December 31
91-3074	Milton A. Oman	Eccles Canyon Creek	----	Stockwatering	January 1 to December 31
91-3075	Tom Nicolaides Leon Nicolaides Mary Stathis Bessie Daraban	Eccles Canyon Creek	----	Stockwatering	Janaury 1 to December 31
91-3080	Milton A. Oman	Boardinghouse Canyon Creek	----	Stockwatering	January 1 to December 31
91-3081	Jack Thomas	Boardinghouse Canyon Creek	----	Stockwatering	January 1 to December 31
91-3082	Milton A. Oman	Boardinghouse Canyon Creek	----	Stockwatering	January 1 to December 31

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-3083	Lavern Jensen	Finn Canyon Creek	----	Stockwatering	January 1 to December 31
91-3084	Milton A. Oman	Finn Canyon Creek	----	Stockwatering	January 1 to December 31
91-3086	Anton Michelog	Long Canyon Creek	----	Stockwatering	January 1 to December 31
91-3086	Anton Michelog	Long Canyon Creek	----	Stockwatering	January 1 to December 31
91-3090	Anton Michelog	Stream with storage	----	Stockwatering	January 1 to December 31
91-3405	Elrie & Bertha Simonsen	Woods Canyon Creek	----	Irrigation Stockwatering	March 1 to November 30
91-3440	Calvin K. Jacob	Clear Creek	----	Stockwatering	May 1 to November 30
91-3587	North American Coal Corp.	Boardinghouse Canyon Creek	----	Stockwatering	June 1 to November 30
91-3588	North American Coal Corp.	Finn Canyon Creek	----	Stockwatering	June 1 to November 30
91-3589	North American Coal Corp.	Mud Creek	----	Stockwatering	June 1 to November 30
91-3622	Mae Nicolodemas	Clear Creek	0.016	Irrigation	March 1 to November 30
91-3630	Utah Board of State Lands	Gooseberry Creek	----	Stockwatering	June 1 to November 30
91-3631	D. Euray Allred	Woods Canyon Creek	----	Stockwatering	May 1 to November 30
91-3633	D. Euray Allred	Winter Quarters Creek	----	Stockwatering	May 1 to November 30
91-3635	D. Euray Allred	Stream	----	Stockwatering	May 1 to November 30
91-3641	Pete Frandsen	Stream with storage	----	Stockwatering	June 1 to November 30
91-3644	Justus O. Seely	Clear Creek	----	Stockwatering	June 1 to November 30
91-3645	S. J. Harkness	Clear Creek	----	Stockwatering	June 1 to November 30
91-3648	John B. Jones	Clear Creek	----	Stockwatering	January 1 to December 31
91-3655	John B. Jones	Woods Canyon Creek	----	Stockwatering	January 1 to December 31

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-3658	John B. Jones	Stream with storage	----	Stockwatering	January 1 to December 31
91-3664	Lionel L. Peterson	Gooseberry Creek	----	Stockwatering	May 1 to November 30
91-3665	John Marakis Estate	Clear Creek	----	Stockwatering	January 1 to December 31
91-3666	Nick Marakis (1/2 interest)	Clear Creek	----	Stockwatering	January 1 to December 31
91-3667	Angelo Georgedes	Clear Creek	----	Stockwatering Domestic	January 1 to December 31
91-3910	Reed & Leoan M. Gunderson	Clear Creek (Scofield Res.)	----	Stockwatering	May 1 to November 30
91-3911	Della L & Hilda M. Madsen	Clear Creek (Scofield Res.)	----	Stockwatering	May 1 to November 30
P*91-4254	Robert Radamovich	Pleasant Creek	----	Domestic Commercial	January 1 to December 31

P* - Pending

SURFACE WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN LOCATED ON AND ADJACENT TO THE SKYLINE PROPERTY

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-1	U.S. Forest Service	Kitchen Fork of Huntington Cr.	-----	Stockwatering	July 1 to October 10
93-2	U.S. Forest Service	Kitchen Fork of Huntington Cr.	-----	Stockwatering	July 1 to September 30
93-3	U.S. Forest Service	Kitchen Fork of Huntington Cr.	-----	Stockwatering	July 1 to September 30
93-4	Crowther Investment Co.	Kitchen Fork of Huntington Cr.	-----	Stockwatering	July 1 to September 30
93-6	U.S. Forest Service	N. Fork of Huntington Creek	-----	Stockwatering	July 1 to September 30
93-8	U.S. Forest Service	Unnamed for of Huntington Cr.	-----	Stockwatering	July 1 to September 30
93-9	U.S. Forest Service	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-10	L.D.S. Church	Swens Canyon Creek	-----	Stockwatering	----------
93-11	U.S. Forest Service	Swen's Canyon Creek	-----	Stockwatering	July 1 to September 30
93-12	U.S. Forest Service	Huotington Creek	-----	Stockwatering	July 1 to September 30
93-13	U.S. Forest Service	Burnout Canyon Creek	-----	Stockwatering	July 1 to September 30
93-14	U.S. Forest Service	James Canyon Creek	-----	Stockwatering	July 1 to September 30
93-16	U.S. Forest Service	James Canyon Creek	-----	Stockwatering	July 1 to September 30
93-18	U.S. Forest Service	Flat Canyon Creek	-----	Stockwatering	July 1 to September 30
93-19	U.S. Forest Service	Flat Canyon Creek	-----	Stockwatering	July 1 to September 30
93-20	U.S. Forest Service	Boulger Creek	-----	Stockwatering	July 1 to September 30
93-21	U.S. Forest Service	Boulger Creek	-----	Stockwatering	July 1 to September 30
93-32	Lela C. Mower	Jackson Spring #1 Stream	-----	Irrigation Stockwatering	----------
93-33	Clyde K. Cox	Jackson Spring #1 Stream	-----	Irrigation Stockwatering	----------

SURFACE WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-35	Newel B. Cox	Cabin Hollow Stream	-----	Irrigation Stockwatering	----------
93-36	Newel B. Cox	Cove Spring Stream	-----	Irrigation Stockwatering	----------
93-37	Newel B. Cox	Jackson Spring #1 Stream	-----	Irrigation Stockwatering	----------
93-38	Clyde K. Cox	Cabin Hollow Stream	-----	Irrigation Stockwatering	----------
93-41	Newel B. Cox	Burns Cox Spring Stream	-----	Irrigation Stockwatering	----------
93-48	Stanley Cox	Jackson Hollow Stream	-----	Irrigation Stockwatering	----------
93-49	Clyde K. Cox	Jackson Hollow Stream	-----	Irrigation Stockwatering	----------
93-51	Stanley Cox	West Fork Jackson Hollow Stream	-----	Irrigation Stockwatering	----------
93-55	Stanley Cox	Clyde Spring Stream	-----	Irrigation Stockwatering	----------
93-56	Clyde K. Cox	Clyde Spring Stream	-----	Irrigation Stockwatering	----------
93-57	Clyde K. Cox	Worth Spring Stream	-----	Irrigation Stockwatering	----------
93-58	Stanley Cox	Worth Spring Stream	-----	Irrigation Stockwatering	----------
93-73	A. Ira Cox	Ross Spring Stream	-----	Irrigation Stockwatering	----------
93-74	Evan Cox	Ross Spring Stream	-----	Irrigation Stockwatering	----------

SURFACE WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-77	Utah Power & Light Co.	Bear Canyon Creek	-----	Stockwatering	July 1 to September 30
93-78	U.S. Forest Service	Coal Creek	-----	Stockwatering	July 1 to September 30
93-79	U.S. Forest Service	Coal Creek	-----	Stockwatering	July 1 to September 30
93-80	Reed Neilson	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-81	Bernard Nielsen	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-82	Utah Power and Light Co.	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-83	U.S. Forest Service	Cox Canyon Creek	-----	Stockwatering	July 1 to September 30
93-84	U.S. Forest Service	Valentine Gulch	-----	Stockwatering	July 1 to September 30
93-85	U.S. Forest Service	Valentine Gulch	-----	Stockwatering	July 1 to September 30
93-89	Valenine Gulch Inc.	Valentine Gulch	-----	Stockwatering	July 1 to September 30
93-96	Utah Power and Light Co.	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-265	Utah Power and Light Co.	Coal Creek	-----	Stockwatering	July 1 to September 30
93-290	Utah Power and Light Co.	Coal Creek	-----	Stockwatering	July 1 to September 30
93-338	U.S. Forest Service	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-346	L.D.S. Church	Little Swens Canyon Cr.	-----	Stockwatering Domestic	June 1 to November 30
93-348	U.S. Forest Service	Spring Creek	-----	Stockwatering	June 16 to October 5
93-399	Utah Power and Light Co.	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-434	William R. Whitehead et al	Kitchen Fork of Huntington Cr.	-----	Stockwatering	June 1 to November 30
93-543	Morris S. & Betty A. Cook	Coal Creek	-----	Stockwatering	July 1 to September 30
93-551	Utah Power and Light Co.	Cox Canyon Creek	-----	Stockwatering	July 1 to September 30
93-553	Utah Power and Light Co.	James Canyon Creek	-----	Stockwatering	July 1 to September 30

SURFACE WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-599	Utah Power & Light	Bear Canyon Creek	----	Stockwatering	July 1 to September 30
93-768	W. Chad Cox	Burns Cox Spring Stream	----	Stockwatering, Irrigation	----------
93-769	Donald B. Cox	Burns Cox Spring Stream	----	Stockwatering, Irrigation	----------
93-772	Donald B. Cox	West Fork Jackson Hollow Stream	----	Stockwatering, Irrigation	----------
93-776	Newel B. Cox	Flat Canyon Creek	----	Stockwatering	----------
93-777	Donald B. Cox	Flat Canyon Creek	----	Stockwatering	----------
93-778	A. Ira Cox	Flat Canyon Creek	----	Stockwatering	----------
93-831	Clark-Montana Realty Co.	Bear Canyon Creek	----	Stockwatering	----------
93-938	Cottonwood Gooseberry Irrigation Company	Boulger Creek	11.9	Irrigation, Domestic	May 15 to September 5
P*93-3170	Utah Power & Light	Huntington Creek Electric Lake	100.0	Industrial	January 1 to December 31

P* - Pending

GROUND WATER RIGHTS IN THE PRICE RIVER BASIN LOCATED ON AND ADJACENT TO THE SKYLINE PROPERTY

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-119	U.S. Forest Service	Spring	0.03	Domestic, Irrigation	March 1 to November 30
91-136	U.S. Forest Service	Beaver Dam Ridge Spring	0.006	Stockwatering	May 1 to October 31
91-200	Utah Natural Gas Company (½ interest)	Underground Water, well	0.134	Domestic Irrigation	January 1 to December 31
91-201	Earl Thomas	Spring with storage	0.068	Stockwatering	April 15 to November 1
91-288	U.S. Forest Service	Gooseberry Campground Spring	0.098	Domestic	May 1 to October 31
91-408	Calvin K. Jacob	Spring	0.011	Stockwatering	May 1 to November 30
91-424	Nick Marakis (½ interest)	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-425	Nick Marakis (½ interest)	Spring	0.022	Stockwatering	January 1 to December 31
91-432	Nick Marakis (½ interest)	Spring	0.011	Stockwatering	January 1 to December 31
91-433	Nick Marakis (½ interest)	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-434	Nick Marakis (½ interest)	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-435	Nick Marakis (½ interest)	Spring	0.011	Stockwatering	January 1 to December 31
91-455	Robert Radakovich	Spring	0.011	Stockwatering	May 1 to December 15
91-463	John Marakis Estate (½ interest)	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-464	John Marakis Estate (½ interest)	Spring	0.022	Stockwatering	January 1 to December 31
91-472	John Marakis Estate (½ interest)	Spring	0.011	Stockwatering	January 1 to December 31

GROUND WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-473	John Marakis Estate (½ interest)	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-474	John Marakis Estate (½ interest)	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-475	John Marakis Estate (½ interest)	Spring	0.011	Stockwatering	January 1 to December 31
91-481	Robert Radakovich	Spring	0.011	Stockwatering	May 1 to December 15
91-1035	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to September 30
91-1036	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to September 30
91-1039	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to September 30
91-1045	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to September 30
91-1046	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to September 30
91-1122	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to October 10
91-1123	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to October 5
91-1124	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to October 5
91-1125	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to October 5
91-1126	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to October 5
91-1127	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to October 5
91-1144	U.S. Forest Service	Gooseberry Campground Spring	0.015	Stockwatering	June 6 to October 10
91-1150	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to October 5
91-1151	U.S. Forest Service	Spring	0.015	Stockwatering	July 1 to October 5
91-1153	U.S. Forest Service	Summer Home Area Spring	0.015	Stockwatering	June 1 to November 1

GROUND WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-1158	N.M. Jensen Investment Co.	Aagard Spring	0.638	Irr.,Stock., Domestic	June 1 to October 31
91-1643	Jack Thomas	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-1644	Lee Thomas (1/3 interest)	Spring	-----	Stockwatering	May 1 to October 31
91-1679	Calvin K. Jacob	Spring	0.011	Stock. and Domestic	May 1 to November 30
91-1680	Calvin K. Jacob	Spring	0.011	Stockwatering	May 1 to November 30
91-1681	Calvin K. Jacob	Spring	0.011	Stockwatering	May 1 to November 30
91-1699	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1700	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1701	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1702	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1710	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1711	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1714	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1986	Angelo Georgedes	Spring with storage	0.05	Fish Culture	January 1 to December 31
91-2049	John Jouflas Estate (2/3 interest)	Spring	0.011	Stockwatering	May 1 to October 31
91-2144	Elrie and Bertha Simonsen (½ interest)	Simonsen Spring	0.022	Domestic	January 1 to December 31
91-2145	Robert Radakovich (½ interest)	Simonsen Spring	0.022	Domestic	January 1 to December 31
91-2288	Elrie & Bertha Simonsen	Spring	0.011	Stockwatering	June 1 to November 30
91-2494	Elrie & Bertha Simonsen	Mooney Mine Spring	----	Irrigation Stockwatering	March 1 to November 30

GROUND WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-2669	Della Simonsen	Spring	0.011	Stockwatering	April 1 to November 30
91-2970	Angelo Georgedes	Spring	0.015	Stockwatering	May 1 to October 31
91-2975	Justus O. Seely	Spring	0.011	Irrigation, Stock.	January 1 to December 31
91-2976	Justus O. Seely	Spring	0.011	Irrigation, Stock.	January 1 to December 31
91-3012	Angelo Georgedes	Spring	0.015	Irrigation, Stock.	January 1 to December 31
91-3076	Milton A. Oman	Spring	0.011	Stockwatering	January 1 to December 31
91-3078	Milton A. Oman	Spring	0.011	Stockwatering	January 1 to December 31
91-3087	Anton Michelog	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-3094	Scofield Town	3 Springs	0.033	Municipal	January 1 to December 31
91-3163	Pete Frandsen	Spring	0.011	Stockwatering	June 1 to November 30
91-3401	Waino E. Burton	Underground water, well	0.011	Stock. and Domestic	January 1 to December 31
91-3402	Waino E. Burton	Underground water, well	0.011	Stock. and Domestic	January 1 to December 31
91-3406	Della L. Madsen	Spring	0.011	Stockwatering	April 1 to November 30
91-3460	Mountain Fuel Supply Co. (½ interest)	Underground Water, well	0.134	Domestic, Irr., Misc.	January 1 to December 31
91-3499	Lavern Jensen	Finn Spring	0.011	Stock. and Domestic	January 1 to December 31
91-3500	Lavern Jensen	Spring	0.011	Stock. and Domestic	January 1 to December 31
91-3586	North American Coal Corp.	Clear Creek Spring Area	0.50	Domestic, Stock., Irr., Industrial	January 1 to December 31
91-3590	North American Coal Corp. (Underground Water)	Clear Creek Mine Tunnel No. 3	0.446	Industrial	January 1 to December 31
91-3596	North American Coal Corp. (Underground Water)	O'Connor Mine Tunnel No. 2	0.047	Industrial	January 1 to December 31

GROUND WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-3601	Della L. Madsen	Spring	0.011	Stockwatering	June 1 to November 30
91-3634	D. Euray Allred	Spring	0.011	Stockwatering	May 1 to November 30
91-3638	D. Euray Allred	Spring	0.011	Stockwatering	May 1 to November 30
91-3642	John B. Jones	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-3668	Angelo Georgedes	Spring	0.015	Stockwatering	May 1 to October 31
91-3971	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3973	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3974	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3975	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3976	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3977	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3978	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3979	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3980	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3981	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3982	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3983	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3985	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
P*91-4217	Carol C. Dixon	Collard Spring	9.64	Stock. & Domestic	January 1 to December 31
P*91-4319	Robert Anderson	Robert Anderson Spring	0.035AF	Stock. & Domestic	January 1 to December 31

P* - Pending

GROUND WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN LOCATED ON AND ADJACENT TO THE SKYLINE PROPERTY

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-5	U.S. Forest Service	North Huntington Spring	0.022	Stockwatering	July 1 to September 30
93-23	U.S. Forest Service	East Boulger Canyon Spring	0.022	Stockwatering	June 16 to October 5
93-24	U.S. Forest Service	West Boulger Canyon Spring	0.022	Stockwatering	June 16 to October 5
93-25	U.S. Forest Service	Fairview Canal Spring Area #1	0.022	Stockwatering	June 16 to October 5
93-26	U.S. Forest Service	Fairview Canal Spring Area #2	0.022	Stockwatering	June 16 to October 5
93-27	U.S. Forest Service	Upper Boulger Spring	0.033	Stockwatering	June 16 to October 5
93-34	Clyde K. Cox	Jackson Spring #2	----	Stockwatering, Irrig.	----------
93-39	Newel B. Cox	Cove Spring #2	----	Stockwatering	----------
93-40	W. Chad Cox	Burns Cox Spring	----	Stockwatering	----------
93-43	Newel B. Cox	Cold Spring	----	Stockwatering, Irrig.	----------
93-44	Newel B. Cox	Milk House Spring	----	Stockwatering, Irrig.	----------
93-45	Newel B. Cox	Spring House Spring	----	Stockwatering, Irrig.	----------
93-46	Robert N. Anderson	Unnamed Spring #2	0.20	Irrigation Stockwatering	May 1 to October 15
93-47	Robert N. Anderson	Unnamed Spring #3	0.1337	Irrigation Stockwatering	May 1 to October 15
93-50	Robert N. Anderson	Unnamed Spring #4	0.011	Irrigation Stockwatering	May 1 to October 15
93-52	Stanley Cox	Worth Spring #1	----	Stockwatering	----------
93-53	Stanley Cox	Worth Spring #2	----	Stockwatering	----------
93-54	Clyde K. Cox	Clyde Spring	----	Stockwatering	----------

GROUND WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-59	Clyde K. Cox	Saw Mill Spring	-----	Stockwatering, Irrig.	----------
93-60	Roscoe C. Cox	Stan Spring #1	-----	Stockwatering	----------
93-61	Roscoe C. Cox	Stan Spring #2	-----	Stockwatering	----------
93-62	Stanley Cox	Saw Mill Springs	-----	Stockwatering, Irrig.	----------
93-63	Stanley Cox	Stan Spring #1	-----	Stockwatering, Irrig.	----------
93-64	Roscoe C. Cox	Stan Spring #1	-----	Stockwatering, Irrig.	----------
93-65	Doris R. Cox	Stan Spring #2	-----	Stockwatering, Irrig.	----------
93-66	Donald B. Cox	Stan Spring #2	-----	Stockwatering, Irrig.	----------
93-67	Newel B. Cox	Mineral Spring #2	-----	Stockwatering, Irrig.	----------
93-68	Evan Cox	Stan Spring #2	-----	Stockwatering, Irrig.	
93-69	A. Ira Cox	Stan Spring #2	-----	Stockwatering, Irrig.	----------
93-70	Olea D. Cox	Mineral Spring #2	-----	Stockwatering, Irrig.	----------
93-71	Roscoe C. Cox	Worth Spring Stream	-----	Stockwatering, Irrig.	----------
93-72	Evan Cox	Ross Spring #2	-----	Stockwatering	----------
93-75	Evan Cox	Ross Spring #3	-----	Stockwatering	----------
93-90	L.D.S. Church	Unnamed Spring	0.022	Stockwatering Domestic	June 1 to November 30
93-114	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-127	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-145	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-153	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-154	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30

GROUND WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-172	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-186	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to Novmeber 30
93-187	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-205	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-207	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-232	Osmond & Idena J. Crother	Brooks Canyon Divide Spring	-----	Stockwatering	July 1 to September 30
93-279	Crowther Investment Company	Unnamed Spring	0.011	Stockwatering Domestic	June 1 to October 15
93-331	David J. Stone	Unnamed Spring	0.02	Stockwatering	June 1 to October 15
93-332	R. Phill Shumway	Unnamed Spring	0.02	Stockwatering	June 1 to October 15
93-333	Richard S. Christensen	Unnamed Spring	0.02	Stockwatering	June 1 to October 15
93-334	Douglas G. Marriott	Unnamed Spring	0.02	Stockwatering	June 1 to October 15
93-343	David J. Stone	Unnamed Spring	0.02	Stockwatering	June 1 to October 15
93-344	R. Phil Shumway	Unnamed Spring	0.02	Stockwatering	June 1 to October 15
93-345	Richard S. Christensen	Unnamed Spring	0.02	Stockwatering	June 1 to October 15
93-365	Douglas Mariott	Unnamed Spring	0.02	Stockwatering	June 1 to October 15
93-379	Russel O. Brown	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-380	M. Dover Hunt	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-381	Don Evans	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-391	Eli Clayson	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-402	Clark T. Thorstensen	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15

GROUND WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-404	Russel O. Brown	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-411	M. Dover Hunt	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-429	Don Evans	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-430	Eli Clayson	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-431	Clark T. Thorstensen	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-432	Crowther Investment Company	Brooks Canyon Divide	0.011	Stockwatering	June 1 to October 15
93-433	William R. Whitehead et al	Unnamed Spring	0.011	Stockwatering	June 1 to October 15
93-435	Crowther Investment Company	Unnamed Spring	0.011	Stockwatering	June 1 to October 15
93-449	Crowther Investment Company	Unnamed Spring	0.011	Stockwatering Domestic	June 1 to October 15
93-763	Robert N. Anderson	Unnamed Spring #8	0.018	Stockwatering	June 15 to October 15
93-770	W. Chad Cox	Spring House Spring	-----	Irrigation Stockwatering	----------
93-771	Donald B. Cox	Spring House Spring	-----	Irrigation Stockwatering	----------
93-773	Roscoe C. Cox	Ross Spring #1	-----	Stockwatering	----------
93-774	A. Ira Cox	Ike Spring #1	-----	Stockwatering	----------
93-775	A. Ira Cox	Ike Spring #2	-----	Stockwatering	----------
93-838	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-839	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-840	N. M. Jensen Investment Company	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-841	N. M. Jensen Investment Company	Unnamed Spring	0.022	Stockwatering Domestic	June 1 to November 30

GROUND WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-842	N. M. Jensen Investment Company	Unnamed Spring	0.22	Stockwatering	June 1 to November 30
93-843	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-844	N. M. Jensen Investment Company	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-845	N. M. Jensen Investment Company	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-846	N. M. Jensen Investment Company	Cove Spring	0.022	Stockwatering Domestic	June 1 to November 30

WATER RIGHT EXCHANGES IN THE SKYLINE PROPERTY AREA

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-164	Louise Gorishek	Well	1.0 A.F.	Domestic	January 1 to December 31
91-452	Robert Radakovich	Well	1.0 A.F.	Stockwatering	March 1 to November 30
91-772	Valley Camp Coal Company	Well	0.446 cfs	Industrial Domestic	January 1 to December 31
91-940	Gooseberry Enterprise Inc	Springs	66.0 A.F.	Domestic	January 1 to December 31
91-1058	Price River Water Users Association	Well	7.7 A.F.	Industrial Domestic	January 1 to December 31
91-1114	Coastal States Energy Co.	Wells	30.0 A.F.	Industrial Domestic	January 1 to December 31
91-1560	Coastal States Energy Co.	Wells	118.0 A.F.	Industrial Domestic	January 1 to December 31
91-1658	Robert Radakovich	Spring	1.0 A.F.	Domestic	January 1 to December 31
91-1669	T.O.E. Investments	Well	3.0 A.F.	Industrial	January 1 to December 31
91-1691	Valley Camp of Utah Inc	Well	7.7 A.F.	Industrial Domestic	January 1 to December 31
91-1906	Coastal States Energy Co.	Wells	118.0 A.F.	Industrial Domestic	January 1 to December 31
91-1912	Jim Nicolodemos	Well	1.0 A.F.	Domestic	January 1 to December 31
91-2188	LDS Church	Well	1.0 A.F.	Domestic	May 1 to October 30
91-2385	Max A. Blackam	Spring	0.5 A.F.	Domestic	January 1 to December 31
91-2475	LDS Church	Well	1.0 A.F.	Domestic	January 1 to December 31