

June 1999

POINT R-1
 DATE 24-Jun-99
 TIME 7:30
 Temp. 16°C
 Atm. Pressure _____
 Dep. 9.5m
 Water Quality _____
 pH upper layer:0.5m below sea surface 6.85
 lower layer:1.0m above sea bottom 6.86
 DO upper layer:0.5m below sea surface 9.0(mg/L)
 lower layer:1.0m above sea bottom 9.1(mg/L)
 Transparency 0.3m
 Turbidity upper layer:0.5m below sea surface _____
 lower layer:1.0m above sea bottom _____
 Bottom Materials _____
 Temp. _____
 pH _____
 ORP _____
 Color _____

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	15.0	0.0		0.0
1	15.0	0.0		0.0
2	15.0	0.0		0.0
3	15.0	0.0		0.0
4	14.1	0.0		0.0
5	14.1	0.0		0.0
6	14.1	0.0		0.0
7	15.0	0.0		0.0
8	15.0	0.0		0.0
9	15.0	0.0		0.0

Remarks: WeatherWindWave

POINT P-1
 DATE 24-Jun-99
 TIME 1:40
 Temp. 15°C
 Atm. Pressure _____
 Dep. 6.5m
 Water Quality _____
 pH upper layer:0.5m below sea surface 6.63
 lower layer:1.0m above sea bottom 6.66
 DO upper layer:0.5m below sea surface 10.1(mg/L)
 lower layer:1.0m above sea bottom 10.3(mg/L)
 Transparency _____
 Turbidity upper layer:0.5m below sea surface _____
 lower layer:1.0m above sea bottom _____
 Bottom Materials _____
 Temp. _____
 pH _____
 ORP _____
 Color _____

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	14.8	0.1		0.2
1	14.8	0.1		0.2
2	14.8	0.1		0.2
3	14.8	0.1		0.2
4	14.8	0.2		0.3
5	14.8	0.2		0.3
6	14.7	0.2		0.3

Remarks: WeatherWindWave

POINT P-2
 DATE 24-Jun-99
 TIME 0:15
 Temp. 15.0°C
 Atm. Pressure _____
 Dep. 6.5m
 Water Quality _____
 pH upper layer:0.5m below sea surface 6.46
 lower layer:1.0m above sea bottom 6.62
 DO upper layer:0.5m below sea surface 10.3(mg/L)
 lower layer:1.0m above sea bottom 10.3(mg/L)
 Transparency _____
 Turbidity upper layer:0.5m below sea surface _____
 lower layer:1.0m above sea bottom _____
 Bottom Materials _____
 Temp. _____
 pH _____
 ORP _____
 Color _____

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	14.9	0.3		0.6
1	14.9	0.3		0.6
2	14.9	0.3		0.6
3	14.9	0.3		0.6
4	14.9	0.3		0.6
5	14.9	0.3		0.6
6	14.9	0.3		0.6

Remarks: Weather

Wind

Wave

POINT P-3
 DATE 23-Jun-99
 TIME 22:50
 Temp. 15°C
 Atm. Pressure _____
 Dep. 6.5m
 Water Quality _____
 pH upper layer:0.5m below sea surface 6.78
 lower layer:1.0m above sea bottom 6.78
 DO upper layer:0.5m below sea surface 11.3(mg/L)
 lower layer:1.0m above sea bottom 10.0(mg/L)
 Transparency _____
 Turbidity upper layer:0.5m below sea surface _____
 lower layer:1.0m above sea bottom _____
 Bottom Materials _____
 Temp. _____
 pH _____
 ORP _____
 Color _____

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	14.8	0.3		0.5
1	14.8	0.3		0.4
2	14.8	0.3		0.4
3	14.8	0.3		0.4
4	14.8	0.3		0.5
5	14.7	0.5		0.7
6	14.7	0.7		1.1

Remarks: Weather

Wind

Wave

POINT	P-4
DATE	23-Jun-99
TIME	20:00
Temp.	15°C
Atm. Pressure	
Dep.	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.00
lower layer:1.0m above sea bottom	7.00
DO upper layer:0.5m below sea surface	12.3(mg/L)
lower layer:1.0m above sea bottom	9.5(mg/L)
Transparency	
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	
pH	
ORP	
Color	

Remarks: Weather

Wind

Wave

POINT	P-5
DATE	23-Jun-99
TIME	18:15
Temp.	15°C
Atm. Pressure	
Dep.	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.51
lower layer:1.0m above sea bottom	6.99
DO upper layer:0.5m below sea surface	11.2(mg/L)
lower layer:1.0m above sea bottom	9.6(mg/L)
Transparency	
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	
pH	
ORP	
Color	

Remarks: Weather

Wind

Wave

6-107

POINT	P-6
DATE	23-Jun-99
TIME	16:40
Temp.	15°C
Atm. Pressure	
Dep.	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.10
lower layer:1.0m above sea bottom	6.81
DO upper layer:0.5m below sea surface	11.2(mg/L)
lower layer:1.0m above sea bottom	11.1(mg/L)
Transparency	3.7m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	
pH	
ORP	
Color	

[illegible]Remarks: Weather

Wind

Wave

POINT	P-7
DATE	23-Jun-99
TIME	15:30
Temp.	16°C
Atm. Pressure	
Dep.	8.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.81
lower layer:1.0m above sea bottom	6.92
DO upper layer:0.5m below sea surface	12.8(mg/L)
lower layer:1.0m above sea bottom	11.2(mg/L)
Transparency	3.5m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	
pH	
ORP	
Color	

[illegible]Remarks: Weather

Wind

Wave

POINT P-8
 DATE 23-Jun-99
 TIME 13:00
 Temp. 20°C
 Atm. Pressure _____
 Dep. 6.5m
 Water Quality _____
 pH upper layer:0.5m below sea surface 6.62
 lower layer:1.0m above sea bottom 6.86
 DO upper layer:0.5m below sea surface 10.0(mg/L)
 lower layer:1.0m above sea bottom 10.3(mg/L)
 Transparency 0.9m
 Turbidity upper layer:0.5m below sea surface _____
 lower layer:1.0m above sea bottom _____
 Bottom Materials _____
 Temp. _____
 pH _____
 ORP _____
 Color _____

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	15.3	4.1		6.0
1	15.4	4.1		6.0
2	15.3	4.1		6.0
3	15.3	4.1		6.0
4	15.3	4.1		6.0
5	15.2	4.1		6.0
6	15.2	4.1		6.0

Remarks: WeatherWindWave

POINT O-1
 DATE 23-Jun-99
 TIME 10:20
 Temp. 19°C
 Atm. Pressure _____
 Dep. 15.5m
 Water Quality _____
 pH upper layer:0.5m below sea surface 7.57
 lower layer:1.0m above sea bottom 7.41
 DO upper layer:0.5m below sea surface 8.6(mg/L)
 lower layer:1.0m above sea bottom 6.4(mg/L)
 Transparency 2.5m
 Turbidity upper layer:0.5m below sea surface _____
 lower layer:1.0m above sea bottom _____
 Bottom Materials _____
 Temp. _____
 pH _____
 ORP _____
 Color _____

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	15.0	19.4		25.0
1	15.0	19.5		25.2
2	14.9	19.5		25.2
3	15.0	22.0		25.7
4	14.8	28.0		34.5
5	14.7	28.2		35.1
6	14.7	28.3		35.1
7	14.5	28.9		35.6
8	14.5	29.0		35.8
9	14.5	29.1		35.8
10	14.4	29.1		35.9
11	14.4	29.1		35.8
12	14.4	29.1		35.9
13	14.5	29.1		35.9
14	14.5	29.1		35.9
15	14.4	29.1		35.9

Remarks: WeatherWindWave

July 1999

[illegible]

Wave

[illegible]

Wave

POINT P-2
 DATE 21-Jul-99
 TIME 13:45
 Temp.(Air) 15°C
 Atm. Pressure 1014hPa
 Dep. 8.5m
 Water Quality
 pH upper layer:0.5m below sea surface 6.87
 lower layer:1.0m above sea bottom 6.70
 DO upper layer:0.5m below sea surface 3.8(mg/L)
 lower layer:1.0m above sea bottom 3.9(mg/L)
 Transparency 0.1m
 Turbidity upper layer:0.5m below sea surface 125NTU
 lower layer:1.0m above sea bottom 132NTU
 Bottom Materials
 Temp.
 pH
 ORP
 Color

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	14.1	0.4		0.7
1	14.1	0.4		0.7
2	14.1	0.4		0.7
3	14.1	0.4		0.7
4	14.1	0.4		0.7
5	14.1	0.5		0.7
6	14.1	0.5		0.7
7	14.1	0.5		0.7
8	14.1	0.5		0.7

Remarks: Weather

Wind

Wave

POINT P-3
 DATE 21-Jul-99
 TIME 12:15
 Temp.(Air) 14°C
 Atm. Pressure 1016hPa
 Dep. 7.5m
 Water Quality
 pH upper layer:0.5m below sea surface 6.76
 lower layer:1.0m above sea bottom 6.82
 DO upper layer:0.5m below sea surface 3.8(mg/L)
 lower layer:1.0m above sea bottom 3.8(mg/L)
 Transparency 0.3m
 Turbidity upper layer:0.5m below sea surface 115NTU
 lower layer:1.0m above sea bottom 110NTU
 Bottom Materials
 Temp.
 pH
 ORP
 Color

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	14.1	0.4		0.6
1	14.1	0.4		0.6
2	14.1	0.4		0.5
3	14.2	0.4		0.6
4	14.1	0.4		0.6
5	14.1	0.4		0.6
6	14.1	0.4		0.6
7	14.1	0.4		0.6

Remarks: Weather

Wind

Wave

POINT P-4
 DATE 21-Jul-99
 TIME 9:30
 Temp.(Air) 13°C
 Atm. Pressure 1018hPa
 Dep. 7.5m
Water Quality
 pH upper layer:0.5m below sea surface 7.08
 lower layer:1.0m above sea bottom 6.98
 DO upper layer:0.5m below sea surface 3.9(mg/L)
 lower layer:1.0m above sea bottom 3.8(mg/L)
 Transparency 0.1m
 Turbidity upper layer:0.5m below sea surface 203NTU
 lower layer:1.0m above sea bottom 213NTU
Bottom Materials
 Temp. _____
 pH _____
 ORP _____
 Color _____

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	13.9	1.7		2.6
1	13.9	1.7		2.6
2	13.9	1.7		2.6
3	13.9	1.7		2.6
4	13.9	1.7		2.6
5	13.9	1.7		2.5
6	13.9	1.7		2.6
7	13.9	1.7		2.6

Remarks: WeatherWindWave

POINT P-5
 DATE 20-Jul-99
 TIME 18:00
 Temp.(Air) 14.84
 Atm. Pressure 1009hPa
 Dep. 8.5m
Water Quality
 pH upper layer:0.5m below sea surface 6.93
 lower layer:1.0m above sea bottom 7.21
 DO upper layer:0.5m below sea surface 3.6(mg/L)
 lower layer:1.0m above sea bottom 4.5(mg/L)
 Transparency _____
 Turbidity upper layer:0.5m below sea surface 11NTU
 lower layer:1.0m above sea bottom 12NTU
Bottom Materials
 Temp. _____
 pH _____
 ORP _____
 Color _____

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	14.1	2.4		3.5
1	14.1	2.4		3.5
2	14.0	2.3		3.5
3	14.1	2.4		3.5
4	14.1	2.4		3.5
5	14.1	2.3		3.1
6	14.1	2.1		2.7
7	14.1	2.0		3.0
8	14.1	2.3		3.5

Remarks: WeatherWindWave

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POINT	P-6
DATE	20-Jul-99
TIME	16:15
Temp.(Air)	16°C
Atm. Pressure	
Dep.	5.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.96
lower layer:1.0m above sea bottom	6.92
DO upper layer:0.5m below sea surface	4.2(mg/L)
lower layer:1.0m above sea bottom	4.2(mg/L)
Transparency	10m
Turbidity upper layer:0.5m below sea surface	15NTU
lower layer:1.0m above sea bottom	17NTU
Bottom Materials	
Temp.	
pH	
ORP	
Color	

[illegible]Remarks: Weather

Wind

Wave

POINT	P-7
DATE	20-Jul-99
TIME	15:15
Temp.(Air)	16°C
Atm. Pressure	1007hPa
Dep.	11.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.57
lower layer:1.0m above sea bottom	6.68
DO upper layer:0.5m below sea surface	3.9(mg/L)
lower layer:1.0m above sea bottom	4.0(mg/L)
Transparency	0.8m
Turbidity upper layer:0.5m below sea surface	28NTU
lower layer:1.0m above sea bottom	37NTU
Bottom Materials	
Temp.	
pH	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	14.0	2.8		4.1
1	14.0	2.8		4.1
2	14.0	2.8		4.1
3	14.0	2.8		4.1
4	14.0	2.8		4.1
5	14.0	2.9		4.2
6	14.0	2.9		4.2
7	14.0	2.9		4.2
8	14.0	3.0		4.3
9	14.0	3.0		4.3
10	14.0	3.0		4.3
11	14.0	3.0		5.2

Remarks: Weather

Wind

Wave

POINT	P-8
DATE	20-Jul-99
TIME	13:00
Temp.(Air)	14°C
Atm. Pressure	1012hPa
Dep.	5.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.01
lower layer:1.0m above sea bottom	7.01
DO upper layer:0.5m below sea surface	3.8(mg/L)
lower layer:1.0m above sea bottom	3.7(mg/L)
Transparency	0.2m
Turbidity upper layer:0.5m below sea surface	138NTU
lower layer:1.0m above sea bottom	150NTU
Bottom Materials	
Temp.	
pH	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	13.2	2.1		3.0
1	13.2	2.1		3.0
2	13.2	2.1		3.0
3	13.2	2.1		3.0
4	13.2	2.1		3.0
5	13.2	2.1		3.0

Remarks: Weather

Wind

Wave

POINT	O-1'
DATE	20-Jul-99
TIME	10:45
Temp.(Air)	14°C
Atm. Pressure	1016hPa
Dep.	15.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.03
lower layer:1.0m above sea bottom	7.21
DO upper layer:0.5m below sea surface	4.0(mg/L)
lower layer:1.0m above sea bottom	4.3(mg/L)
Transparency	0.3m
Turbidity upper layer:0.5m below sea surface	72NTU
lower layer:1.0m above sea bottom	145NTU
Bottom Materials	
Temp.	
pH	
ORP	
Color	

Dep.(m)	TEMP.(°C)	SAL.(‰)	DO(mg/L)	COND.(mmho/cm)
0.5	13.5	5.5		7.5
1	13.5	5.5		7.6
2	13.5	5.4		7.5
3	13.5	5.4		7.5
4	13.5	5.6		7.8
5	13.5	5.6		7.8
6	13.5	5.7		7.9
7	13.5	5.8		8.0
8	13.5	5.9		8.0
9	13.5	5.8		8.0
10	13.5	5.8		8.0
11	13.5	5.8		8.0
12	13.4	6.0		8.2
13	13.4	6.1		8.4
14	13.5	6.5		8.5
15	13.5	8.3		11.0

Remarks: Weather

Wind

Wave

Cloudy

August 1999

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POINT	R-1
DATE	24-Aug-99
TIME	13:20
Temp.(Air)	23°C
Atm. Pressure	1016hPa
Dep.	7.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.47
lower layer:1.0m above sea bottom	7.70
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	11.0(mg/L)
Transparency	0.4m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	18°C
pH	6.88
ORP	288mV
Color	10YR5/4

[illegible]

Remarks: Weather	Cloudy
Wind	E 10KNOTS
Wave	0.5m

POINT	P-1
DATE	24-Aug-99
TIME	11:30
Temp.(Air)	19°C
Atm. Pressure	1019hPa
Dep.	7.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.80
lower layer:1.0m above sea bottom	6.80
DO upper layer:0.5m below sea surface	11.2(mg/L)
lower layer:1.0m above sea bottom	11.0(mg/L)
Transparency	0.1m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	14°C
pH	7.33
ORP	-131mV
Color	10YR2/2

[illegible]

Remarks: Weather	Cloudy
Wind	E 22-25 KNOTS
Wave	2.5m

POINT	P-2
DATE	24-Aug-99
TIME	9:50
Temp.(Air)	19°C
Atm. Pressure	1019hPa
Dep.	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.54
lower layer:1.0m above sea bottom	6.59
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	10.4(mg/L)
Transparency	0.2m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	14°C
pH	7.1
ORP	-87mV
Color	10YR2/2

Remarks: Weather Cloudy
Wind E 18 KNOTS
Wave 2m

POINT	P-3
DATE	24-Aug-99
TIME	8:20
Temp.(Air)	18°C
Atm. Pressure	1020hPa
Dep.	7.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.58
lower layer:1.0m above sea bottom	6.58
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	9.8(mg/L)
Transparency	0.3m
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	14°C
pH	7.32
ORP	-127mV
Color	10YR2/2

Remarks: Weather	Cloudy
Wind	E 18KNOTS
Wave	1.5m

POINT	P-4
DATE	23-Aug-99
TIME	22:00
Temp.(Air)	17°C
Atm. Pressure	1021hPa
Dep.	6.5m
Water Quality	
pH upper layer:0.5m below sea surface	6.88
lower layer:1.0m above sea bottom	6.80
DO upper layer:0.5m below sea surface	10.3(mg/L)
lower layer:1.0m above sea bottom	9.9(mg/L)
Transparency	-
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	14°C
pH	7.78
ORP	-200mV
Color	10YR2/2

Remarks:	Weather	Cloudy
	Wind	E 18 KNOTS
	Wave	2m

POINT	P-5
DATE	23-Aug-99
TIME	20:00
Temp.(Air)	18°C
Atm. Pressure	1021hPa
Dep.	7.5m
Water Quality	
pH upper layer:0.5m below sea surface	7.25
lower layer:1.0m above sea bottom	7.25
DO upper layer:0.5m below sea surface	9.9(mg/L)
lower layer:1.0m above sea bottom	9.9(mg/L)
Transparency	-
Turbidity upper layer:0.5m below sea surface	
lower layer:1.0m above sea bottom	
Bottom Materials	
Temp.	14°C
pH	6.19
ORP	-128mV
Color	10YR2/2

Remarks: Weather	Cloudy
Wind	E 20KNOTS
Wave	10YR2/2

