

MISSING DATA

This section identifies data that are missing from the dataset and erroneous data that were removed by the 2003 Rescue Project Data Manager. Wherever possible, missing data are correlated with information from relevant documentation that may help to explain their absence. Identification of erroneous data that were removed includes an explanation for their removal. These data were removed from the final data set only and are still present in the raw data. Please see the Anomalous Data section for a complete list of all erroneous and questionable data. The following information is organized by parameter within each year.

Water Quality data were collected at Oyster Landing for the following dates:

10/25/1993 – 12/31/2002

1993

All Variables

11/01/93 07:30 – 11/02/93 16:30

11/14/93 06:30 – 11/16/93 15:30

11/30/93 06:30 – 12/01/93 16:30

12/15/93 09:30 – 12/16/93 09:30

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % & mg/L

None other than missing data listed in “**All Variables**” above

Depth

None other than missing data listed in “**All Variables**” above

pH

10/25/93 15:00 – 2/6/95 12:30

Turbidity

10/25/93 15:00 – 5/19/95 14:30

1994

All Variables

01/03/94 07:30 – 01/03/94 16:30

01/10/94 16:30 – 01/17/94 16:30 battery failure

01/31/94 08:30 – 02/01/94 14:30

02/15/94 09:30 – 02/15/94 16:30

02/25/94 08:30 – 02/25/94 17:30

03/07/94 08:30 – 03/07/94 12:30

03/21/94 08:30 – 03/21/94 12:30

04/04/94 08:00

2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)

04/04/94 08:30 – 04/04/94 12:30

04/15/94 08:30 – 04/15/94 13:30

05/02/94 08:00

2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)

05/02/94 08:30 – 05/02/94 12:30	maintenance
05/16/94 08:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
05/16/94 08:30 – 05/16/94 12:30	maintenance
05/30/94 08:30 – 05/30/94 15:30	maintenance
06/06/94 15:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water, NERR Technician cleaned DO membrane with methanol at this time)
06/13/94 08:30 – 06/13/94 13:30	maintenance
06/27/94 08:30 – 06/27/94 14:30	maintenance
07/11/94 08:30 – 07/11/94 12:30	maintenance
07/25/94 08:30 – 07/25/94 12:30	maintenance
08/08/94 08:30 – 08/08/94 17:30	maintenance
08/22/94 08:30 – 08/22/94 14:30	maintenance
09/02/94 08:30 – 09/02/94 12:30	maintenance
09/12/94 08:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water, NERR Technician cleaned DO membrane with methanol at this time)
09/19/94 08:30 – 09/19/94 12:30	maintenance
09/30/94 08:30 – 09/30/94 16:30	maintenance
10/13/94 08:30 – 10/14/94 13:30	maintenance
10/31/94 08:30 – 10/31/94 14:30	maintenance
11/14/94 09:00 – 11/14/94 15:30	maintenance
11/21/94 11:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water, salinity probe was temporarily removed from water for cleaning at this time)
11/28/94 09:00 – 11/28/94 15:30	maintenance
12/12/94 09:00 – 12/12/94 15:30	maintenance

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % & mg/L

None other than missing data listed in “**All Variables**” above

Depth

None other than missing data listed in “**All Variables**” above

pH

10/25/93 15:00 – 2/6/95 12:30

Turbidity

10/25/93 15:00 – 5/19/95 14:30

1995

All Variables

01/03/95 09:00 – 01/03/95 12:30	maintenance
01/16/95 09:30 – 01/17/95 11:30	maintenance
02/01/95 09:00 – 02/06/95 12:30	maintenance
02/15/95 13:00 – 02/15/95 16:00	maintenance

03/01/95 09:30 – 03/01/95 15:30	maintenance
03/20/95 09:00 – 03/20/95 15:30	maintenance
03/25/95 02:00 – 04/07/95 14:30	battery failure, maintenance
04/24/95 07:30 – 04/24/95 14:30	maintenance
05/02/95 10:00	NERR Technician removed erroneous data (probes out of water)
05/08/95 08:00 – 05/08/95 14:30	maintenance
05/19/95 08:30 – 05/19/95 14:30	maintenance
05/19/95 15:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
06/05/95 07:00 – 06/05/95 08:30	maintenance
06/19/95 08:00 – 06/19/95 14:00	maintenance
07/05/95 08:00 – 07/05/95 16:00	maintenance
07/18/95 08:00 – 07/18/95 14:30	maintenance
07/31/95 08:00 – 07/31/95 15:30	maintenance
08/14/95 08:00 – 08/14/95 15:00	maintenance
08/28/95 08:00 – 08/29/95 15:00	maintenance
09/11/95 08:00 – 09/11/95 14:30	maintenance
09/25/95 08:00 – 09/25/95 15:30	maintenance
10/09/95 08:00 – 11/08/95 13:30	maintenance
11/22/95 08:00 – 11/22/95 13:30	maintenance
12/08/95 08:00 – 12/11/95 12:00	maintenance
12/20/95 09:30 – 12/20/95 12:30	maintenance

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % & mg/L

02/06/95 13:00 – 02/15/95 12:30	2003 Data Manager removed erroneous data (readings at start of deployment were unbelievably high and then began to drift lower, membrane was probably not installed properly)
05/04/95 13:00 – 05/08/95 07:30	2003 Data Manager removed erroneous data (readings began to climb to unbelievable values, much of this data had already been removed by the NERR Technician because it was out of range, the membrane was probably, remaining data were removed)
05/06/95 13:00 – 05/06/95 17:00	NERR Technician removed erroneous data (readings were out of range)
05/06/95 18:30 – 05/06/95 21:00	NERR Technician removed erroneous data (readings were out of range)
05/07/95 14:00 – 05/07/95 17:00	NERR Technician removed erroneous data (readings were out of range)
05/19/95 15:30 – 06/05/95 06:30	2003 Data Manager removed erroneous data (readings were unbelievably high at the start of and throughout most of the deployment, much of the data had been removed by the NERR Technician because it was out of range, 2003 Data Manager determined that the membrane was probably either not installed properly or punctured and removed the remaining data)
05/19/95 23:30 – 05/20/95 01:30	NERR Technician removed erroneous data (readings were out of range)
05/20/95 11:30 – 05/21/95 04:00	NERR Technician removed erroneous data (readings were out of range)
05/21/95 12:30 – 05/21/95 19:30	NERR Technician removed erroneous data (readings were out of range)
05/21/95 23:30 – 05/22/95 04:30	NERR Technician removed erroneous data (readings were out of range)
05/22/95 13:30 – 05/22/95 19:30	NERR Technician removed erroneous data (readings were out of range)
05/23/95 02:30 – 05/23/95 05:00	NERR Technician removed erroneous data (readings were out of range)
05/23/95 15:00 – 05/23/95 19:30	NERR Technician removed erroneous data (readings were out of range)
05/24/95 04:00 – 05/24/95 04:30	NERR Technician removed erroneous data (readings were out of range)

05/24/95 16:00 – 05/24/95 18:30	NERR Technician removed erroneous data (readings were out of range)
05/25/95 17:00 – 05/25/95 17:30	NERR Technician removed erroneous data (readings were out of range)
05/26/95 17:30	NERR Technician removed erroneous data (readings were out of range)
05/31/95 20:00 – 05/31/95 21:30	NERR Technician removed erroneous data (readings were out of range)
06/01/95 14:00 – 06/01/95 14:30	NERR Technician removed erroneous data (readings were out of range)

Depth

None other than missing data listed in “**All Variables**” above

pH

01/01/95 00:00 – 02/06/95 12:30	No pH data were collected, Hydrolab was in use
02/06/95 13:00 – 03/01/95 09:00	2003 Data Manager removed erroneous data (readings were unreasonable high, initial attempts at recording pH data, probable calibration problems)
03/01/95 09:30 – 05/19/95 14:30	No pH data were collected, Hydrolab was in use
05/19/95 15:00 – 06/05/95 06:30	2003 Data Manager removed erroneous data (readings were unreasonable high, second attempt at recording pH data, probable calibration problems)
06/05/95 07:00 – 12/31/95 23:30	No pH data were collected, Hydrolab was in use

Turbidity

01/01/95 00:00 – 05/19/95 14:30	No turbidity data were collected, Hydrolab was in use
06/05/95 07:00 – 01/04/96 11:30	No turbidity data were collected, Hydrolab was in use

1996

All Variables

01/04/96 09:00 – 01/04/96 11:30	maintenance
01/22/96 09:30 – 01/24/96 09:00	maintenance
02/08/96 10:00 – 02/09/96 12:30	maintenance
02/26/96 09:00 – 03/01/96 13:30	maintenance
03/13/96 11:00 – 03/14/96 14:30	maintenance
03/28/96 09:30 – 03/29/96 15:30	maintenance
04/11/96 09:30 – 04/12/96 12:30	maintenance
04/25/96 10:30 – 04/26/96 15:30	maintenance
05/09/96 09:00 – 05/30/96 12:30	instrument failure
06/11/96 08:30 – 06/12/96 13:30	maintenance
06/25/96 11:30 – 06/26/96 12:30	maintenance
06/25/96 11:30 – 06/26/96 12:30	maintenance
07/08/96 09:30 – 07/10/96 13:30	maintenance
07/22/96 09:00 – 07/25/96 14:00	maintenance
08/05/96 16:30 – 08/07/96 14:30	maintenance
08/19/96 10:30 – 08/20/96 15:30	maintenance
08/19/96 10:30 – 08/20/96 15:30	maintenance
09/03/96 14:30 – 09/04/96 14:30	maintenance
09/18/96 14:30 – 09/19/96 12:30	maintenance
09/30/96 09:30 – 10/01/96 10:00	maintenance
10/14/96 14:30 – 10/29/96 15:30	maintenance
11/12/96 14:30 – 11/14/96 11:30	maintenance
11/26/96 12:30 – 11/27/96 11:00	maintenance
12/12/96 15:30 – 12/13/96 14:00	maintenance

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % & mg/L

03/11/96 17:00 – 03/13/96 10:30 NERR Technician removed erroneous data (extremely high readings)
04/22/96 14:30 – 04/25/96 10:00 2003 Data Manager removed erroneous data (large discontinuity and very high readings, probable membrane puncture)
04/26/96 20:30 – 05/09/96 08:30 2003 Data Manager removed erroneous data (readings jumped to extremely high value (large discontinuity) and then drifted through the deployment period, probable membrane tear)
06/10/96 21:30 Questionable data (large readings, much higher than the surrounding readings)
07/31/96 01:30 – 08/05/96 16:00 2003 Data Manager removed erroneous data (large discontinuity indicating possible membrane puncture, followed by erratic and large readings, all data following the first discontinuity were removed for the deployment period)
10/05/96 07:00 – 10/14/96 14:00 NERR Technician removed erroneous data (extremely high readings)

Depth

07/25/96 14:30 – 08/05/96 16:00 Sensor failure (mud in sensor)

pH

01/01/96 00:00 – 01/04/96 11:30 No pH data were collected, Hydrolab was in use

Turbidity

01/01/96 00:00 – 01/04/96 11:30 No turbidity data were collected, Hydrolab was in use
01/16/96 18:00 2003 Data Manager removed erroneous data (large negative readings)
01/16/96 19:00 – 01/16/96 19:30 2003 Data Manager removed erroneous data (large negative readings)
01/17/96 01:30 2003 Data Manager removed erroneous data (large negative readings)
01/17/96 04:00 2003 Data Manager removed erroneous data (large negative readings)
01/17/96 08:30 2003 Data Manager removed erroneous data (large negative readings)
01/17/96 09:30 2003 Data Manager removed erroneous data (large negative readings)
01/17/96 10:00 2003 Data Manager removed erroneous data (large negative readings)
01/17/96 13:00 – 01/17/96 14:30 2003 Data Manager removed erroneous data (large negative readings)
02/10/96 11:00 – 02/10/96 13:00 2003 Data Manager removed erroneous data (large negative readings)
02/14/96 12:00 – 02/26/96 08:30 Sensor failure (water in cable connection)
02/14/96 12:00 – 03/01/96 13:30
03/17/96 13:30 – 03/17/96 14:30 2003 Data Manager removed erroneous data (large negative readings)
03/18/96 08:00 2003 Data Manager removed erroneous data (large negative readings)
04/05/96 15:30 2003 Data Manager removed erroneous data (large negative readings)
05/31/96 12:30 2003 Data Manager removed erroneous data (large negative readings)
06/26/96 14:00 – 07/22/96 09:00 Sensor failure (water in bulkhead)
08/08/96 10:00 – 08/08/96 10:30 2003 Data Manager removed erroneous data (large negative readings)
08/11/96 09:00 2003 Data Manager removed erroneous data (large negative readings)
08/14/96 07:00 2003 Data Manager removed erroneous data (large negative readings)
08/31/96 15:00 2003 Data Manager removed erroneous data (large negative readings)

1997

All Variables

01/01/97 00:00 – 01/08/97 13:30 maintenance
01/21/97 12:30 – 01/24/97 12:30 maintenance
02/06/97 11:00 – 02/07/97 11:00 maintenance
02/21/97 09:00 – 02/21/97 10:30 battery failure
02/22/97 08:30 – 02/25/97 15:00 battery failure
03/10/97 13:00 – 03/13/97 15:30 maintenance
03/26/97 15:30 – 03/27/97 13:00 maintenance
04/10/97 08:00 – 04/11/97 13:30 maintenance
04/24/97 08:00 – 04/25/97 12:00 maintenance
05/08/97 08:30 – 05/09/97 11:30 maintenance

05/22/97 08:00 – 05/23/97 12:30	maintenance
06/05/97 08:00 – 06/06/97 13:00	maintenance
06/19/97 08:00 – 06/20/97 13:00	maintenance
07/02/97 11:30 – 07/07/97 11:00	maintenance
07/16/97 12:30 – 07/17/97 09:30	maintenance
07/30/97 12:30 – 07/31/97 10:30	maintenance
08/13/97 10:00 – 08/21/97 09:00	maintenance
09/02/97 09:30 – 09/03/97 09:30	maintenance
09/15/97 08:30 – 09/16/97 10:00	maintenance
09/29/97 07:30 – 09/30/97 09:30	maintenance
10/15/97 14:30 – 10/16/97 14:30	maintenance
10/29/97 09:30 – 10/30/97 11:00	maintenance
11/08/97 09:00 – 11/08/97 11:30	maintenance
11/08/97 20:00 – 11/13/97 11:30	maintenance
11/24/97 12:30 – 11/26/97 10:30	maintenance
12/12/97 10:30 – 12/16/97 14:00	maintenance
12/16/97 16:00 – 12/17/97 10:30	not deployed due to possible vandalism

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % & mg/L

05/01/97 08:00 – 05/08/97 08:00	2003 Data Manager removed erroneous data (readings jumped to very high levels and remained high through the deployment period, discontinuity from preceding and following data, probable tear in the membrane or heavy fouling)
05/20/97 20:00 – 05/22/97 07:30	2003 Data Manager removed erroneous data (readings jumped to very high levels and remained high throughout the deployment period, discontinuity from preceding and following data, probable tear in the membrane or heavy fouling)
05/31/97 04:30 – 06/05/97 07:30	2003 Data Manager removed erroneous data (extremely high reading, large discontinuity indicating possible membrane puncture, all data following the first discontinuity were removed for the deployment period)
06/11/97 01:30 – 06/19/97 07:30	2003 Data Manager removed erroneous data (extremely high reading, large discontinuity indicating possible membrane puncture, followed by erratic and large readings, all data following the first discontinuity were removed for the deployment period)
06/24/97 17:30 – 07/02/97 11:00	2003 Data Manager removed erroneous data (extremely high reading, large discontinuity indicating possible membrane puncture, followed by erratic and large readings, all data following the first discontinuity were removed for the deployment period)
07/31/97 11:00 – 08/13/97 10:00	NERR Technician removed erroneous data (erratic readings)
08/21/97 09:30 – 09/02/97 09:00	NERR Technician removed erroneous data (erratic readings)
09/16/97 10:30 – 09/29/97 07:00	NERR Technician removed erroneous data (erratic readings)
10/01/97 00:00 – 10/15/97 14:00	NERR Technician removed erroneous data (erratic readings)

Depth

None other than missing data listed in “**All Variables**” above

pH

10/14/97 10:00 – 10/15/97 14:00	2003 Data Manager removed erroneous data (extremely low readings through the end of the deployment, possible probe failure)
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Turbidity

01/30/97 20:30	2003 Data Manager removed erroneous data (large negative readings)
01/30/97 23:00 – 01/31/97 01:30	2003 Data Manager removed erroneous data (large negative readings)
01/31/97 05:00	2003 Data Manager removed erroneous data (large negative readings)
01/31/97 17:30	2003 Data Manager removed erroneous data (large negative readings)
02/01/97 00:30	2003 Data Manager removed erroneous data (large negative readings)
02/06/97 09:00 – 02/06/97 10:30	2003 Data Manager removed erroneous data (large negative readings)
03/08/97 15:30	2003 Data Manager removed erroneous data (large negative readings)
03/08/97 23:30	2003 Data Manager removed erroneous data (large negative readings)
03/09/97 13:30	2003 Data Manager removed erroneous data (large negative readings)
03/09/97 15:00	2003 Data Manager removed erroneous data (large negative readings)
03/09/97 16:00	2003 Data Manager removed erroneous data (large negative readings)
03/09/97 17:30 – 03/09/97 18:30	2003 Data Manager removed erroneous data (large negative readings)
03/09/97 21:30 – 03/09/97 22:30	2003 Data Manager removed erroneous data (large negative readings)
03/10/97 08:30	2003 Data Manager removed erroneous data (large negative readings)
03/10/97 10:30	2003 Data Manager removed erroneous data (large negative readings)
03/10/97 11:30 – 03/10/97 12:30	2003 Data Manager removed erroneous data (large negative readings)
03/13/97 16:30	2003 Data Manager removed erroneous data (large negative readings)

1998

All Variables

01/05/98 08:30 – 01/07/98 12:00	maintenance
01/22/98 08:00	instrument error
01/22/98 09:00 – 01/27/98 14:30	maintenance
02/03/98 14:30 – 02/10/98 13:00	maintenance
02/26/98 11:30	maintenance
03/30/98 14:30	maintenance
05/10/98 10:00 – 05/10/98 12:30	recalibration with fresh standard (Salinity and SpCond)
05/19/98 09:00 – 05/19/98 11:00	maintenance
06/04/98 09:30 – 06/05/98 09:00	maintenance
06/25/98 09:30 – 06/26/98 15:30	maintenance
07/13/98 13:00 – 07/16/98 12:00	maintenance
07/27/98 11:00 – 07/30/98 15:00	maintenance
08/17/98 09:30 – 08/19/98 15:30	maintenance
09/01/98 00:00 – 09/03/98 11:30	maintenance
09/21/98 09:30 – 09/22/98 15:30	maintenance
10/08/98 09:30 – 10/09/98 10:30	maintenance
10/22/98 09:30 – 10/23/98 14:00	maintenance
11/09/98 12:30 – 11/10/98 15:00	maintenance
11/23/98 11:00 – 11/24/98 15:30	maintenance
12/09/98 11:30 – 12/10/98 15:30	maintenance
12/21/98 11:00 – 12/22/98 15:00	maintenance

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

03/30/98 15:00 – 04/14/98 09:00	NERR Technician removed erroneous data (salinity readings were extremely high indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)
04/14/98 09:30 – 05/10/98 09:30	NERR Technician removed erroneous data (conductivity probe calibrated in contaminated standard, all affected parameters were removed)
11/10/98 15:30 – 11/23/98 10:30	NERR Technician removed erroneous data (unexplained high SpCond and salinity readings indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)

Salinity

03/30/98 15:00 – 04/14/98 09:00 NERR Technician removed erroneous data (salinity readings were extremely high indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)

04/14/98 09:30 – 05/10/98 09:30 NERR Technician removed erroneous data (conductivity probe calibrated in contaminated standard, all affected parameters were removed)

11/10/98 15:30 – 11/23/98 10:30 NERR Technician removed erroneous data (unexplained high SpCond and salinity readings indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)

Dissolved Oxygen %

02/26/98 12:00 – 03/16/98 15:30 2003 Data Manager removed erroneous data (readings for the entire deployment were extremely high and disjunct from the readings for the preceding and following deployments, probable tear in the DO membrane at deployment)

06/22/98 13:00 – 06/25/98 09:00 NERR Technician removed erroneous data

07/16/98 20:30 NERR Technician removed erroneous data (negative values)

07/21/98 00:30 – 07/21/98 01:00 NERR Technician removed erroneous data (negative values)

07/22/98 01:00 – 07/22/98 03:00 NERR Technician removed erroneous data (negative values)

07/23/98 02:00 – 07/23/98 04:00 NERR Technician removed erroneous data (negative values)

07/24/98 02:00 – 07/24/98 05:30 NERR Technician removed erroneous data (negative values)

07/25/98 03:00 – 07/25/98 04:30 NERR Technician removed erroneous data (negative values)

07/26/98 03:30 – 07/26/98 07:00 NERR Technician removed erroneous data (negative values)

07/26/98 23:00 NERR Technician removed erroneous data (negative values)

07/27/98 03:30 – 07/27/98 07:30 NERR Technician removed erroneous data (negative values)

08/08/98 03:00 NERR Technician removed erroneous data (negative values)

08/31/98 08:00 NERR Technician removed erroneous data (negative values)

08/31/98 10:00 NERR Technician removed erroneous data (negative values)

Dissolved Oxygen mg/L

02/26/98 12:00 – 03/16/98 15:30 2003 Data Manager removed erroneous data (readings for the entire deployment were extremely high and disjunct from the readings for the preceding and following deployments, probable tear in the DO membrane at deployment)

03/30/98 15:00 – 04/14/98 09:00 NERR Technician removed erroneous data (salinity readings were extremely high indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)

04/14/98 09:30 – 05/10/98 09:30 NERR Technician removed erroneous data (conductivity probe calibrated in contaminated standard, all affected parameters were removed)

11/10/98 15:30 – 11/23/98 10:30 NERR Technician removed erroneous data (unexplained high SpCond and salinity readings indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)

Depth

03/30/98 15:00 – 04/14/98 09:00 2003 Data Manager removed erroneous data (salinity readings were extremely high indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)

04/14/98 09:30 – 05/10/98 09:30 2003 Data Manager removed erroneous data (conductivity probe calibrated in contaminated standard, all affected parameters were removed)

11/10/98 15:30 – 11/23/98 10:30 2003 Data Manager removed erroneous data (unexplained high SpCond and salinity readings indicating problems with the probe or calibration in contaminated standard, all affected parameters were removed)

pH

12/22/98 15:30 – 12/31/98 23:30 NERR Technician removed erroneous data (probe malfunction, could not be calibrated properly)

Turbidity

09/14/98 13:00 – 09/21/98 09:00 2003 Data Manager removed erroneous data (extremely high reading(s), often the same value, probe was fouled with algae)

12/01/98 00:00 – 12/09/98 11:00 2003 Data Manager removed erroneous data (extremely high readings, often the same value, probe possibly fouled with algae, possibly animals or debris in the probe compartment, readings drop dramatically when the probe was switched out)

1999

All Variables

01/14/99 16:30 – 01/17/99 14:30 maintenance

02/03/99 11:00 – 02/04/99 16:00 maintenance

02/22/99 14:00 – 02/22/99 15:30 2003 Data Manager removed erroneous data (readings indicate that probes were out of the water, end of deployment)

02/22/99 16:00 – 02/24/99 15:30 maintenance

03/11/99 12:30 – 03/12/99 15:30 maintenance

03/31/99 15:00 – 03/31/99 23:30 2003 Data Manager removed erroneous data (readings indicate that probes were out of the water, end of deployment)

04/01/99 00:00 – 04/02/99 15:30 maintenance

04/19/99 13:30 – 04/22/99 08:00 maintenance

05/05/99 10:00 – 05/06/99 15:00 maintenance

05/24/99 09:30 – 05/25/99 14:30 maintenance

06/14/99 13:30 – 06/17/99 10:30 maintenance

07/05/99 12:30 – 07/07/99 13:00 maintenance

07/19/99 11:00 – 07/21/99 07:30 maintenance

08/10/99 08:30 – 08/13/99 15:30 maintenance

08/30/99 10:00 NERR Technician removed erroneous data (probes out of water)

09/01/99 12:30 – 09/03/99 13:30 maintenance

09/22/99 15:30 – 09/24/99 14:30 maintenance

10/13/99 12:30 – 10/16/99 12:00 maintenance

11/03/99 14:30 – 11/04/99 16:00 maintenance

11/23/99 11:00 – 11/24/99 12:30 maintenance

12/13/99 12:30 – 12/14/99 12:00 maintenance

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % & mg/L

05/25/99 15:00 – 06/14/99 13:00 NERR Technician removed erroneous data (negative value(s), probes were fouled when unit was collected)

07/17/99 08:00 – 07/19/99 10:30 2003 Data Manager removed erroneous data (very high reading with large discontinuity indicating possible membrane puncture, followed by extremely high readings for the remainder of the deployment period)

08/13/99 16:00 – 09/01/99 12:00 2003 Data Manager removed erroneous data (readings at start of deployment were unbelievably high, then drifted to very low values, and finally drifted back up to very high values, membrane was probably not installed properly)

08/25/99 01:30 NERR Technician removed erroneous data (negative values)

08/26/99 02:00 NERR Technician removed erroneous data (negative values)

09/03/99 14:00 – 09/22/99 15:00 NERR Technician removed erroneous data, possible membrane puncture

10/16/99 12:30 – 11/03/99 14:00 2003 Data Manager removed erroneous data (readings at start of deployment were unbelievably high and then began to drift, membrane was probably not installed properly or punctured during deployment)

Depth

None other than missing data listed in “**All Variables**” above

pH

01/01/99 00:00 – 01/14/99 16:00 2003 Data Manager removed erroneous data (probe malfunction, could not be calibrated properly, NERR Technician removed deployment data in 1998)

Turbidity

None other than missing data listed in “**All Variables**” above

2000

All Variables

01/11/00 11:00 – 01/14/00 13:00
02/03/00 08:30 – 02/09/00 14:30
02/28/00 12:30 – 03/01/00 15:30
03/20/00 13:30 – 03/23/00 10:30
04/11/00 10:00 – 04/14/00 14:30
04/27/00 15:00 – 05/04/00 15:00
05/17/00 08:30 – 05/19/00 15:00
06/07/00 13:30 – 06/10/00 13:30
06/22/00 11:00 – 06/23/00 15:00
07/05/00 09:30 – 07/06/00 14:30
07/17/00 09:30 – 08/01/00 07:30
08/10/00 17:00 – 08/11/00 17:00
08/22/00 07:00 – 08/22/00 14:00
08/30/00 08:30 – 08/31/00 10:30
09/14/00 07:30 – 09/15/00 08:00
09/22/00 13:30 – 09/23/00 16:00
10/04/00 08:00 – 10/05/00 13:30
10/19/00 14:00 – 10/20/00 13:00
11/04/00 03:30 – 11/09/00 16:30
11/27/00 15:00 – 11/28/00 14:00
12/18/00 12:00 – 12/19/00 15:30

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % & mg/L

09/15/00 08:30 – 10/04/00 07:30 NERR Technician removed erroneous data (probe malfunction)
10/20/00 13:30 – 10/31/00 23:30 NERR Technician removed erroneous data (probe malfunction, very high readings)

Depth

None other than missing data listed in “**All Variables**” above

pH

09/06/00 02:00 – 09/14/00 07:00 NERR Technician removed erroneous data (probe failure)
 09/17/00 13:30 – 09/22/00 13:00 NERR Technician removed erroneous data (probe failure)
 11/09/00 17:00 – 11/27/00 14:30 NERR Technician removed erroneous data (calibration problem at deployment, probe was replaced)

Turbidity

02/09/00 15:00 – 04/11/00 09:30 NERR Technician removed erroneous data (probe failure)
 08/20/00 00:30 – 08/22/00 06:30 NERR Technician removed erroneous data (greater than 1000, and possible fouling due to animals in the guard)

2001

All Variables

01/02/01 12:30 – 01/03/01 12:00
 01/16/01 11:00 – 01/17/01 14:00
 01/22/01 15:30 – 01/23/01 17:00
 01/30/01 11:00 – 01/31/01 23:30 NERR Technician removed erroneous data (incorrect depths indicated possible problem with probe location/depth)
 02/01/01 05:30 – 02/01/01 09:30 NERR Technician removed erroneous data (probes out of water)
 02/14/01 10:00 – 02/15/01 14:00
 02/27/01 15:00 – 02/28/01 11:00
 03/02/01 10:30 – 03/02/01 15:30 NERR Technician removed erroneous data (probes out of water)
 03/13/01 13:30 – 03/14/01 09:30
 03/26/01 10:30 – 03/27/01 14:00
 04/10/01 12:30 – 04/11/01 15:30
 04/26/01 09:30 – 04/27/01 10:00
 05/01/01 09:00 Sonde out of water for PVC replacement
 05/07/01 09:00 – 05/08/01 14:30
 05/17/01 15:00 – 05/17/01 17:00 Sonde deployed temporarily for a bathymetric study
 05/23/01 09:30 – 05/24/01 13:00
 06/07/01 09:30 – 06/08/01 09:00
 06/21/01 08:30 – 06/22/01 13:00
 07/05/01 10:30 – 07/06/01 15:00
 07/17/01 15:00 – 07/18/01 13:30
 07/26/01 14:30 – 07/27/01 13:30
 08/07/01 10:30 – 08/08/01 14:00
 08/20/01 09:00 – 08/21/01 10:00
 09/17/01 13:30 – 09/18/01 14:30
 10/23/01 08:30 – 10/24/01 09:30
 11/01/01 12:00 – 11/02/01 12:30
 11/20/01 12:00 – 11/21/01 11:30
 12/03/01 14:30 – 12/04/01 15:00
 12/17/01 10:30 – 12/18/01 15:00

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

None other than missing data listed in “**All Variables**” above

Salinity

None other than missing data listed in “**All Variables**” above

Dissolved Oxygen % & mg/L

10/24/01 10:00 – 11/01/01 11:30 NERR Technician removed erroneous data (possible membrane puncture, readings climb to extremely high values and then remain the same)

12/27/01 14:00 – 12/31/01 23:30 NERR Technician removed erroneous data (negative values, membrane may have been punctured)

Depth

None other than missing data listed in “**All Variables**” above

pH

None other than missing data listed in “**All Variables**” above

Turbidity

01/23/01 17:30 – 01/30/01 10:30 2003 Data Manager removed erroneous data (extremely erratic readings for the entire deployment period, often very high and the same value, probe possibly fouled with algae)

04/04/01 06:00 – 04/10/01 12:00 NERR Technician removed erroneous data (reading(s) climb quickly to greater than 1000 and remain there throughout the end of the deployment period)

10/05/01 19:30 – 10/06/01 06:00 NERR Technician removed erroneous data (probe appeared to be faulty, in use while waiting for a replacement, readings were not correlated with other events, were mostly greater than 1000 and often the same number)

10/24/01 10:00 – 11/01/01 11:30 NERR Technician removed erroneous data (probe appeared to be faulty, in use while waiting for a replacement, readings were not correlated with other events, many were large negative values)

2002

All Variables

01/02/02 13:30 – 01/03/02 12:00 maintenance
01/17/02 11:30 – 01/18/02 10:30 maintenance
01/29/02 14:00 – 01/30/02 10:00 maintenance
02/12/02 14:00 – 02/13/02 09:30 maintenance
02/27/02 11:00 – 02/28/02 13:00 maintenance
03/19/02 09:30 – 03/20/02 09:00 maintenance
04/01/02 11:30 – 04/02/02 11:30 maintenance
04/17/02 13:00 – 04/18/02 07:30 maintenance
04/29/02 08:00 – 04/30/02 08:30 maintenance
05/13/02 08:30 – 05/14/02 08:00 maintenance
05/27/02 09:00 – 05/28/02 08:00 maintenance
06/24/02 08:30 – 06/25/02 08:00 maintenance
07/10/02 09:00 – 07/31/02 08:00 circuit board failure, data were lost
08/15/02 08:30 – 08/16/02 08:00 maintenance
08/28/02 11:30 – 08/29/02 08:00 maintenance
09/11/02 08:00 – 09/12/02 09:30 maintenance
09/27/02 11:00 – 09/27/02 11:30 maintenance
12/19/02 09:30 – 12/20/02 10:00 maintenance

Temperature

None other than missing data listed in “**All Variables**” above

Specific Conductivity

10/11/02 12:30 – 10/22/02 08:00 NERR Technician removed erroneous data (conductivity sensor failed, all affected parameters were deleted)

Salinity

10/11/02 12:30 – 10/22/02 08:00 NERR Technician removed erroneous data (conductivity sensor failed, all affected parameters were deleted)

Dissolved Oxygen %

01/01/02 00:00 – 01/02/02 13:00 NERR Technician removed erroneous data (possible membrane puncture, negative values)
06/22/02 02:30 – 06/24/02 08:00 NERR Technician removed erroneous data (heavy fouling of membrane upon retrieval, readings rose to very high values and then fell to large negative values, data were deleted from the point of suspected fouling through the end of the deployment)

Dissolved Oxygen mg/L

01/01/02 00:00 – 01/02/02 13:00 NERR Technician removed erroneous data (possible membrane puncture, negative values)
06/22/02 02:30 – 06/24/02 08:00 NERR Technician removed erroneous data (heavy fouling of membrane upon retrieval, readings rose to very high values and then fell to large negative values, data were deleted from the point of suspected fouling through the end of the deployment)
10/11/02 12:30 – 10/22/02 08:00 NERR Technician removed erroneous data (conductivity sensor failed, all affected parameters were deleted)

Depth

10/11/02 12:30 – 10/22/02 08:00 NERR Technician removed erroneous data (conductivity sensor failed, all affected parameters were deleted)

pH

None other than missing data listed in “**All Variables**” above

Turbidity

12/20/02 10:30 – 12/31/02 23:30 No turbidity sensor in use (out for repair)