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NH DEPARTMENT OF ENVIRONMENTAL SERVICES SHELLFISH PROGRAM ACTIVITES, JANUARY 2006 – DECEMBER 2006

A Final Report to

The New Hampshire Estuaries Project

Submitted by

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Executive Summary

This report summarizes the activities of the NH Department of Environmental Services (NHDES) Shellfish Program for the period of January 2006 to December 2006, emphasizing those tasks for which NHDES received direct funding from the NH Estuaries Project. The NHDES Shellfish Program conducts a number of activities to minimize the health risks associated with consuming shellfish, and to continue to comply with National Shellfish Sanitation Program guidelines. These include water sampling on a prescheduled/randomized basis, as well as a pollution source identification and evaluation program. These sampling programs are supplemented by other activities aimed at improving the management of conditionally-approved harvesting areas. Augmented sampling in conditionally approved areas after rainfall events and/or sewage treatment plant upsets provides information to improve management decisions and, in some cases, increase harvesting opportunities. A study to compare results from two different bacterial analysis methods (the traditional fecal coliform Most Probable Number, or MPN, test, and a newer fecal coliform membrane filtration test using mTEC agar) was initiated in 2004 and continued through 2006. The results of the study will help DES determine how classification of growing areas might change if the lessexpensive mTEC test is chosen to replace the traditional MPN method. Sanitary surveys were completed for the Hampton/Seabrook Estuary, as well as for the Piscataqua River (North) growing area, which encompasses the tidal portions of the Cocheco River, Salmon Falls River, and Upper Piscatagua River. Future work will focus on maintaining the classifications established by sanitary surveys conducted since 2000. The remaining 13 percent of unclassified estuarine waters will be periodically evaluated to determine if/when sanitary surveys should be conducted.

Introduction

The New Hampshire Department of Environmental Services (NHDES), under the authority granted by RSA 143:21 and 143:21-a, is responsible for classifying shellfish growing waters in the State of New Hampshire. The purpose of conducting shellfish water classifications is to determine if growing waters meet standards for human consumption of molluscan shellfish. NHDES uses a set of guidelines and standards known as the National Shellfish Sanitation Program (NSSP) for classifying shellfish growing waters. These guidelines were collaboratively developed by state agencies, the commercial shellfish industry, and the federal government in order to provide uniform regulatory standards for the commercial shellfish industry. The NSSP is used by NHDES to classify all growing waters, whether used for commercial or recreational harvesting, because these standards provide a reliable methodology to protect public health. Furthermore, RSA 485-A:8 (V) states that "Those tidal waters used for growing or taking of shellfish for human consumption shall, in addition to the foregoing requirements, be in accordance with the criteria recommended under the National Shellfish Program Manual of Operation, United States Department of Food and Drug Administration."

This report presents program activities and data generated from January 2006 to December 2006, focusing on projects completed with NH Estuaries Project grant funding.

Project Goals and Objectives

The NHDES Shellfish Program, in partnership with the NH Estuaries Project, is pursuing a goal of completing sanitary surveys of nearly all shellfish growing waters by the end of 2006. Sanitary survey reports will describe water quality status and trends in shellfish growing areas, outline future activities to improve water quality, and ultimately expand harvesting opportunities. Specific objectives for 2006 activities were to:

- Evaluate the sanitary quality of the state's shellfish waters.
- Support specific activities associated with sanitary surveys including shoreline surveys for pollution sources, ambient water quality monitoring, and a variety of studies to evaluate relevant hydrographic and meteorologic factors.

These objectives support implementation of the following NH Estuaries Project Management Plan "Action Plans:"

- SHL1: Implement National Shellfish Sanitation Program guidance to develop an FDA-certified shellfish program.
- SHL-2: Identify sources of and reduce or eliminate contaminants in the NH estuaries watersheds.
- SHL5: Regularly collect and monitor water quality to identify sources and reduce or eliminate contaminants.

• WQ5: Conduct shoreline surveys for pollution sources

The activities supported by NHEP funding are largely related to laboratory analytical costs associated with the sampling activities of the program. The NHDES Laboratory performs bacteria tests on water samples, and these are the focus of this report. NHEP funding is also directed to the NH DHHS laboratory for bacteria analyses on water and shellfish tissue samples, and for Paralytic Shellfish Poison testing of shellfish tissue samples. A report on DHHS activities and laboratory analyses is provided separately by that agency.

Activities and Results

Shellfish Program Sanitary Surveys

Pollution Source Surveys

In support of sanitary survey development, a wide range of activities to identify, document, sample, and evaluate pollution sources in and near shellfish growing waters were undertaken in 2006. Targeted inspections and sampling of previously-identified sources was emphasized to complete sanitary surveys for selected growing areas (Hampton/Seabrook Harbor and Piscataqua River North) or to collect data needed for annual/triennial sanitary survey reviews (Atlantic Coast, Little Harbor/Back Channel, and Oyster River). Table 1 gives an overview of the types of shoreline sampling activities and level of effort undertaken in 2006. All sampling results are presented in Appendix 1.

| Waterbody/Area | # Sampling Runs | # Sites Investigated | Comments |
|----------------------------|--------------------|-------------------------|---|
| Atlantic Coast | 2 | 24 | Dry and wet weather monitoring |
| Great Bay | 3 | 3 | Dry and wet weather monitoring, source impact evaluation sampling |
| Hampton/Seabrook Harbor | 4 | 76 | Dry and wet weather monitoring |
| Little Harbor/Back Channel | 1 | 5 | Dry weather monitoring |
| Lower Piscataqua River | 4 | 5 | Dry and wet weather monitoring, source impact evaluation sampling |
| Kittery WWTF | 10 | 27 | Source impact evaluation sampling |
| Oyster River | 1 | 11 | Dry weather monitoring |
| Piscataqua River North | 1 | 11 | Dry weather monitoring |
| Upper Little Bay | 3 | 3 | Dry and wet weather monitoring, source impact evaluation sampling |

| Table 1 [.] | Overview | of Pollution | Source Sam | pling and | Evaluation / | Activities |
|----------------------|----------|---------------|------------|-----------|--------------|------------|
| ruore r. | | of i offution | Source Sum | phing und | L'uluulon 1 | 1011 11105 |

The Great Bay and Little Bay shoreline survey (December 2004 and July 2005, respectively) established new areas closed for harvesting (Crommet Creek and Branson Creek). Monitoring at these areas was continued in 2006 in the hopes of compiling adequate data to justify the reclassification of these areas in the future. Sampling in

Hampton/Seabrook Harbor was conducted to evaluate the degree to which sources might affect the water quality in the harbor, which helped delineate new classification boundaries for the Hampton/Seabrook Harbor sanitary survey. Sampling was also conducted at the Kittery, Maine Wastewater Treatment Plant to provide updated information on effluent bacteria concentrations. This information will be used in a 2007 study of the fate and transport of Kittery wastewater effluent in the Piscataqua River.

Overall Sanitary Survey Schedule

NHDES has a goal of surveying most shellfish growing areas by the end of 2006. The following gives an overview of progress toward that goal, and the status of each project that is currently underway:

- Hampton/Seabrook and Associated Tributaries: Sanitary survey begun in 2000. Updated shoreline survey completed in 2005. Final draft sanitary survey issued December 2006. Conditional Area Management Plan to be finalized early 2007.
- Upper Piscataqua River, Cocheco River, Salmon Falls River: Sanitary survey published September 2006.

The status of all sanitary surveys in coastal New Hampshire is presented in Table 2.

| Waterbody | Property | Source | Source Sampling | | Source | Comments | Final |
|--|---------------|---------|-----------------|------|------------|--|-------------------|
| waterbouy | Documentation | Surveys | Dry | Wet | Evaluation | Comments | Report |
| Atlantic Coast | DONE | DONE | DONE | DONE | DONE | Triennial review conducted in 2003. | Dec 2000 |
| Bellamy River | DONE | DONE | DONE | DONE | DONE | Report done. | October 2005 |
| Cocheco River | DONE | DONE | DONE | DONE | DONE | Merged with Salmon Falls, Upper Piscataqua surveys. | September 2006 |
| Great Bay | DONE | DONE | DONE | DONE | DONE | Report done. | December 2004 |
| Hampton- Seabrook, and Tributaries | DONE | DONE | DONE | DONE | DONE | Sanitary survey complete. Amendments to area management plan to be finalized in 2007 | December 2006 |
| Hampton Falls, Taylor Rivers | DONE | DONE | DONE | DONE | DONE | Triennial review incorporated into the 12/06 sanitary survey of Hampton- Seabrook. This waterbody will now be managed as part of Hampton -Seabrook, | April 2002 |
| Lamprey River | | | | | | Included in the Great Bay Sanitary Survey | December 2004 |
| Little Harbor, Back Channel | DONE | DONE | DONE | DONE | DONE | Triennial review conducted in 2004 | Dec 2001 |

Table 2: Status of Coastal New Hampshire Sanitary Surveys

| Source Sampling | | | | | | | |
|------------------------------|------|------|------|------|------|--|-------------------|
| Lower Little Bay | DONE | DONE | DONE | DONE | DONE | Report done. | July 2005 |
| Lower Piscataqua River | | | | | | Not scheduled; area likely to be in WWTF safety zone, awaiting new Portsmouth NPDES permit. Work on Kittery WWTF safety zone ongoing. | |
| Oyster River | DONE | DONE | DONE | DONE | DONE | Triennial review scheduled for 2006. | April 2003 |
| Portsmouth Harbor | | | | | | Not scheduled; area likely to be in WWTF safety zone, awaiting new Portsmouth NPDES permit | |
| Rye Harbor | | | | | | Not scheduled. | |
| Salmon Falls River | DONE | DONE | DONE | DONE | DONE | Merged with Cocheco, Upper Piscataqua surveys. | September 2006 |
| Squamscott River | | | | | | Included in the Great Bay Sanitary Survey | December 2004 |
| Upper Little Bay | DONE | DONE | DONE | DONE | DONE | Report done. | July 2005 |
| Upper Piscataqua River | DONE | DONE | DONE | DONE | DONE | Merged with Cocheco, Salmon Falls surveys. | September 2006 |
| Winnicut River | DONE | DONE | DONE | DONE | DONE | Included in the Great Bay Sanitary Survey | December 2004 |

In consultation with the NHEP Shellfish Team, NHDES has decided to delay sanitary surveys in three areas. Rye Harbor has relatively little shellfish resource abundance and numerous water quality/public health risks affecting the growing area. DES will continue to emphasize pollution source identification and remediation as appropriate, and may consider a sanitary survey at a future time. The Lower Piscataqua River and Portsmouth Harbor will remain unclassified until the future of the Portsmouth WWTF is determined (the plant was recently required to upgrade to secondary treatment, and the city is currently negotiating with EPA on how best to accommodate this new requirement). The plant could expand in its current location, alter its outfall, or relocate to another area. Once a course of action is determined, a sanitary survey can be planned. In the meantime, NHDES will work with the State of Maine to examine how Kittery WWTF effluent might impact shellfish harvesting opportunities in the river.

Shellfish Program Water Quality Monitoring

Ambient Sampling

Ambient water sampling for fecal coliform bacteria is a core function of the program. It largely consists of routine "systematic random" sampling, conducted to comply with NSSP requirements for annually evaluating the classification of each growing area. Other components of the sampling program include sampling after rainfall events, sampling after areas have been closed due to sewage releases or severe weather events, or other programs. In all, the 2006 program included collection of 1,329 water samples over the course of 154 sampling runs. Approximately 27 percent (365) of these water samples were analyzed by the NHDES Laboratory under the contract with the NH Estuaries Project (summarized in Table 3, and listed in Appendix 2). Sampling stations are depicted in Figures 1-5.

| Area | Routine S | Sampling | Post Rainfall Sampling | | Closure Condition Sampling | | Other Sampling* | |
|----------------------|-----------|----------|---------------------------|----------|-------------------------------|----------|-----------------|----------|
| | # Runs | #Samples | # Runs | #Samples | # Runs | #Samples | # Runs | #Samples |
| Atlantic Coast | 14 | 147 | 0 | 0 | 3 | 27 | 0 | 0 |
| Great Bay Estuary | 5 | 121 | 0 | 0 | 1 | 13 | 0 | 0 |
| Hampton Harbor | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| Little Harbor | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 51 |
| TOTAL | 19 | 268 | 0 | 0 | 4 | 40 | 6 | 57 |

 Table 3: Summary of 2006 Ambient Water Samples Analyzed by NHDES Laboratory

*includes sampling associated with rainfall studies, mTEC trials, baseline tissue sampling, and others













Comparative Trials for Bacterial Analyses

The NSSP has traditionally required that the "most probable number" (MPN) method for bacteria testing be done for water samples used to evaluate growing area water quality. However, the NSSP now allows for an alternative mTEC agar "membrane filtration" method, a quicker, less expensive test. Before adopting the new test, DES is running multi-year comparative testing at selected sites to see how the results from each method might change the classification of a growing area. It is possible that one test would generate data supportive of allowing harvesting, while the other method may lead to a decision to close an area.

Three sites from the three different growing areas were chosen for these comparative trials. During regularly scheduled systematic sampling runs, an extra sample was collected from each site and delivered to the DES laboratory in Concord. The MPN and the mTEC tests were then run on water drawn from the same sample bottle. Results for the 2006 data are shown in Table 4.

| | GE | 316 | GE | 34A | G | B5 |
|------------|------|------|------|------|-------|------|
| DATE | MPN | mTEC | MPN | mTEC | MPN | mTEC |
| 4/19/2006 | =4.5 | =0 | =4.5 | =6 | =2 | =1 |
| 5/3/2006 | =540 | =440 | =9.3 | =5 | =1.8 | =3 |
| 5/23/2006 | =31 | =21 | =7.8 | =15 | =4.5 | =7 |
| 6/12/2006 | =79 | =70 | =23 | =38 | =33 | =33 |
| 7/12/2006 | =730 | =290 | =79 | =115 | =140 | =124 |
| 8/2/2006 | =2 | =1 | =7.8 | =3 | <2 | =2 |
| 9/26/2006 | =17 | =7 | =4.5 | =13 | =23 | =6 |
| 10/16/2006 | =130 | =44 | =170 | =155 | =170 | =63 |
| 11/15/2006 | =110 | =163 | =130 | =123 | =1600 | =540 |
| 12/5/2006 | =23 | =22 | =70 | =12 | =33 | =25 |
| | HF | 110 | HH12 | | HH19 | |
| DATE | MPN | mTEC | MPN | mTEC | MPN | mTEC |
| 4/24/2006 | =2 | =0 | <2 | =0 | =11 | =12 |
| 5/24/2006 | <3 | =0 | =11 | =0 | =2 | =0 |
| 6/5/2006 | =9.3 | =12 | =49 | =46 | =24 | =10 |
| 9/11/2006 | =13 | =11 | =70 | =63 | =11 | =17 |
| 10/4/2006 | <2 | =1 | <2 | =1 | =4.5 | =2 |
| 11/1/2006 | =4.5 | =3 | =6.8 | =4 | =7.8 | =4 |
| 12/11/2006 | <2 | =2 | =17 | =14 | =4.5 | =7 |
| | LH | B1 | LHE | B13 | LH | B6 |
| DATE | MPN | mTEC | MPN | mTEC | MPN | mTEC |
| 4/3/2006 | =4.5 | =7 | =4.5 | =0 | =21 | =14 |
| 5/18/2006 | =350 | =160 | =240 | =260 | =540 | =103 |
| 6/20/2006 | =11 | =9 | =17 | =8 | =2 | =11 |
| 9/5/2006 | =4 | =4 | =4 | =14 | =7.8 | =8 |
| 11/6/2006 | <2 | =4 | =1 | =0 | =4.5 | =4 |

Table 4: MPN versus mTEC Comparisons (all results are FC/100ml)

Preliminary analysis indicates that the different methods would not lead to similar conclusions for a particular growing area. A more rigorous statistical evaluation of the data will be conducted in 2007, but it appears that DES will not be replacing the MPN method with the mTEC method.

Conclusions and Recommendations

The NHDES Program should continue with basic program implementation, including routine monitoring of waters for bacteria and PSP levels. Rainfall studies and pre/post rainfall sampling of waters and shellfish tissues is a valuable part of the program, not only for establishing realistic rainfall closure criteria, but also for improving management decisions and harvesting opportunities by ensuring that closures are not implemented when post rainfall bacteria levels are low. Work for 2007 will focus on maintaining classifications, conducting field work necessary for FDA-required annual reports and triennial updates, and on doing pollution source investigations as needed. Great Bay and Little Harbor/Back Channel will receive emphasis in 2007, as triennial reviews of these surveys are due in early 2008. Pollution-source conditions in Rye Harbor and in Portsmouth Harbor will be monitored to determine when it would be appropriate to initiate sanitary surveys of these areas.

Appendix 1 2006 Pollution Source Sampling (Fecal Coliform) Data

| Station ID | Project | Date | FC | Units |
|------------|----------------------|------------|------------------------|-----------|
| ACPS001 | Dry Weather Sampling | 08/16/2006 | 100 | CTS/100ML |
| ACPS002 | Dry Weather Sampling | 08/16/2006 | 60 | CTS/100ML |
| ACPS003 | Dry Weather Sampling | 08/16/2006 | 70 | CTS/100ML |
| ACPS005 | Dry Weather Sampling | 08/16/2006 | 50 | CTS/100ML |
| ACPS005 | Wet Weather Sampling | 08/21/2006 | 530 | CTS/100ML |
| ACPS006 | Dry Weather Sampling | 08/16/2006 | 200 | CTS/100ML |
| ACPS006 | Wet Weather Sampling | 08/21/2006 | 150 | CTS/100ML |
| ACPS007 | Dry Weather Sampling | 08/16/2006 | 10 | CTS/100ML |
| ACPS007 | Wet Weather Sampling | 08/21/2006 | 100 | CTS/100ML |
| ACPS008 | Dry Weather Sampling | 08/16/2006 | No Sample Collected | CTS/100ML |
| ACPS010 | Dry Weather Sampling | 08/16/2006 | 150 | CTS/100ML |
| ACPS010 | Wet Weather Sampling | 08/21/2006 | 10 | CTS/100ML |
| ACPS011 | Dry Weather Sampling | 08/16/2006 | 30 | CTS/100ML |
| ACPS011 | Wet Weather Sampling | 08/21/2006 | 20 | CTS/100ML |
| ACPS012 | Dry Weather Sampling | 08/16/2006 | 110 | CTS/100ML |
| ACPS012 | Wet Weather Sampling | 08/21/2006 | 1740 | CTS/100ML |
| ACPS013 | Dry Weather Sampling | 08/16/2006 | <5 | CTS/100ML |
| ACPS020 | Dry Weather Sampling | 08/16/2006 | No Sample Collected | CTS/100ML |
| ACPS021 | Dry Weather Sampling | 08/16/2006 | No Sample Collected | CTS/100ML |
| ACPS026 | Dry Weather Sampling | 08/16/2006 | No Sample Collected | CTS/100ML |
| ACPS028 | Dry Weather Sampling | 08/16/2006 | 80 | CTS/100ML |
| ACPS031 | Dry Weather Sampling | 08/16/2006 | No Sample Collected | CTS/100ML |
| ACPS034 | Dry Weather Sampling | 08/16/2006 | 20 | CTS/100ML |
| ACPS048 | Dry Weather Sampling | 08/16/2006 | <10 | CTS/100ML |
| GBPS014 | Wet Weather Sampling | 08/21/2006 | 540 | MPN/100ML |
| GBPS014 | Dry Weather Sampling | 09/19/2006 | 17 | MPN/100ML |
| GBPS014 | Dry Weather Sampling | 10/25/2006 | 13 | MPN/100ML |
| HHPS001 | Dry Weather Sampling | 06/19/2006 | 120 | CTS/100ML |
| HHPS001 | Wet Weather Sampling | 10/12/2006 | 480 | CTS/100ML |
| HHPS020 | Dry Weather Sampling | 06/20/2006 | 20 | CTS/100ML |

All sampling was done in accordance with EPA-approved Quality Assurance Project Plans. Documentation of laboratory QA checks is on file with the analytical laboratories.

| Station ID | Project | Date | FC | Units |
|------------|----------------------|------------|------------------------|-----------|
| HHPS021 | Dry Weather Sampling | 06/20/2006 | 10 | CTS/100ML |
| HHPS037 | Dry Weather Sampling | 06/20/2006 | 20 | CTS/100ML |
| HHPS037 | Wet Weather Sampling | 10/12/2006 | 40 | CTS/100ML |
| HHPS058 | Dry Weather Sampling | 06/19/2006 | No Sample Collected | CTS/100ML |
| HHPS058 | Wet Weather Sampling | 08/29/2006 | No Sample Collected | CTS/100ML |
| HHPS061 | Wet Weather Sampling | 08/29/2006 | 460 | CTS/100ML |
| HHPS061 | Wet Weather Sampling | 10/12/2006 | 850 | CTS/100ML |
| HHPS062 | Wet Weather Sampling | 08/29/2006 | >260 | CTS/100ML |
| HHPS062 | Wet Weather Sampling | 10/12/2006 | 670 | CTS/100ML |
| HHPS066 | Wet Weather Sampling | 08/29/2006 | 2110 | CTS/100ML |
| HHPS066 | Wet Weather Sampling | 10/12/2006 | 200 | CTS/100ML |
| HHPS067 | Wet Weather Sampling | 08/29/2006 | No Sample Collected | CTS/100ML |
| HHPS068 | Wet Weather Sampling | 08/29/2006 | 1280 | CTS/100ML |
| HHPS068 | Wet Weather Sampling | 10/12/2006 | >2000 | CTS/100ML |
| HHPS069 | Wet Weather Sampling | 08/29/2006 | 1690 | CTS/100ML |
| HHPS069 | Wet Weather Sampling | 10/12/2006 | 1450 | CTS/100ML |
| HHPS135 | Dry Weather Sampling | 06/20/2006 | No Sample Collected | CTS/100ML |
| HHPS136 | Dry Weather Sampling | 06/20/2006 | 40 | CTS/100ML |
| HHPS139 | Dry Weather Sampling | 06/19/2006 | No Sample Collected | CTS/100ML |
| HHPS139 | Dry Weather Sampling | 06/20/2006 | No Sample Collected | CTS/100ML |
| HHPS140 | Dry Weather Sampling | 06/19/2006 | No Sample Collected | CTS/100ML |
| HHPS140 | Dry Weather Sampling | 06/20/2006 | No Sample Collected | CTS/100ML |
| HHPS141 | Dry Weather Sampling | 06/19/2006 | No Sample Collected | CTS/100ML |
| HHPS141 | Dry Weather Sampling | 06/20/2006 | No Sample Collected | CTS/100ML |
| HHPS142 | Dry Weather Sampling | 06/19/2006 | No Sample Collected | CTS/100ML |
| HHPS142 | Dry Weather Sampling | 06/20/2006 | No Sample Collected | CTS/100ML |
| HHPS143 | Dry Weather Sampling | 06/19/2006 | No Sample Collected | CTS/100ML |
| HHPS143 | Dry Weather Sampling | 06/20/2006 | No Sample Collected | CTS/100ML |
| HHPS206 | Dry Weather Sampling | 06/20/2006 | 40 | CTS/100ML |
| HHPS207 | Dry Weather Sampling | 06/20/2006 | 20 | CTS/100ML |
| HHPS208 | Dry Weather Sampling | 06/20/2006 | 30 | CTS/100ML |
| HHPS209 | Dry Weather Sampling | 06/20/2006 | 30 | CTS/100ML |

| Station ID | Project | Date | FC | Units |
|------------|----------------------|------------|------|-----------|
| HHPS210 | Dry Weather Sampling | 06/20/2006 | 20 | CTS/100ML |
| HHPS214 | Dry Weather Sampling | 06/20/2006 | 10 | CTS/100ML |
| HHPS215 | Dry Weather Sampling | 06/20/2006 | 40 | CTS/100ML |
| HHPS215 | Wet Weather Sampling | 10/12/2006 | 150 | CTS/100ML |
| HHPS216 | Dry Weather Sampling | 06/19/2006 | 50 | CTS/100ML |
| HHPS216 | Dry Weather Sampling | 06/20/2006 | 10 | CTS/100ML |
| HHPS216 | Wet Weather Sampling | 10/12/2006 | 430 | CTS/100ML |
| HHPS217 | Dry Weather Sampling | 06/19/2006 | 10 | CTS/100ML |
| HHPS217 | Wet Weather Sampling | 10/12/2006 | 470 | CTS/100ML |
| HHPS218 | Dry Weather Sampling | 06/19/2006 | <10 | CTS/100ML |
| HHPS220 | Dry Weather Sampling | 06/19/2006 | 10 | CTS/100ML |
| HHPS221 | Dry Weather Sampling | 06/19/2006 | 10 | CTS/100ML |
| HHPS221 | Wet Weather Sampling | 10/12/2006 | 110 | CTS/100ML |
| HHPS222 | Dry Weather Sampling | 06/19/2006 | <10 | CTS/100ML |
| HHPS223 | Dry Weather Sampling | 06/19/2006 | 20 | CTS/100ML |
| HHPS223 | Wet Weather Sampling | 08/29/2006 | 50 | CTS/100ML |
| HHPS223 | Wet Weather Sampling | 10/12/2006 | 280 | CTS/100ML |
| HHPS223 | Wet Weather Sampling | 10/12/2006 | 930 | CTS/100ML |
| HHPS224 | Dry Weather Sampling | 06/19/2006 | 10 | CTS/100ML |
| HHPS225 | Dry Weather Sampling | 06/19/2006 | 5 | CTS/100ML |
| HHPS226 | Dry Weather Sampling | 06/19/2006 | 10 | CTS/100ML |
| HHPS226 | Wet Weather Sampling | 10/12/2006 | >290 | CTS/100ML |
| HHPS228 | Dry Weather Sampling | 06/19/2006 | <10 | CTS/100ML |
| HHPS228 | Wet Weather Sampling | 10/12/2006 | 110 | CTS/100ML |
| HHPS229 | Dry Weather Sampling | 06/19/2006 | 10 | CTS/100ML |
| HHPS229 | Wet Weather Sampling | 10/12/2006 | 60 | CTS/100ML |
| HHPS230 | Dry Weather Sampling | 06/19/2006 | <10 | CTS/100ML |
| HHPS230 | Wet Weather Sampling | 10/12/2006 | 20 | CTS/100ML |
| HHPS231 | Dry Weather Sampling | 06/19/2006 | <10 | CTS/100ML |
| HHPS232 | Dry Weather Sampling | 06/19/2006 | 30 | CTS/100ML |
| HHPS233 | Dry Weather Sampling | 06/19/2006 | 40 | CTS/100ML |
| HHPS234 | Dry Weather Sampling | 06/19/2006 | 10 | CTS/100ML |
| HHPS235 | Dry Weather Sampling | 06/19/2006 | <10 | CTS/100ML |
| HHPS236 | Dry Weather Sampling | 06/19/2006 | 20 | CTS/100ML |
| HHPS237 | Dry Weather Sampling | 06/19/2006 | 20 | CTS/100ML |
| HHPS238 | Dry Weather Sampling | 06/19/2006 | 10 | CTS/100ML |
| HHPS239 | Dry Weather Sampling | 06/19/2006 | 10 | CTS/100ML |
| HHPS240 | Dry Weather Sampling | 06/19/2006 | 50 | CTS/100ML |

| Station ID | Project | Date | FC | Units |
|------------|----------------------|------------|-----------|-----------|
| HHPS240 | Wet Weather Sampling | 10/12/2006 | >2000 | CTS/100ML |
| HHPS241 | Dry Weather Sampling | 06/19/2006 | 40 | CTS/100ML |
| HHPS242 | Dry Weather Sampling | 06/19/2006 | 40 | CTS/100ML |
| LHPS121 | Dry Weather Sampling | 07/25/2006 | 240 | CTS/100ML |
| LHPS122 | Dry Weather Sampling | 07/25/2006 | 310 | CTS/100ML |
| LHPS123 | Dry Weather Sampling | 07/25/2006 | 60 | CTS/100ML |
| LHPS124 | Dry Weather Sampling | 07/25/2006 | <10 | CTS/100ML |
| LHPS132 | Dry Weather Sampling | 07/25/2006 | <10 | CTS/100ML |
| LPRPS003 | Wet Weather Sampling | 8/21/2006 | 200 | MPN/100ML |
| LPRPS003 | Dry Weather Sampling | 9/13/2006 | 33 | MPN/100ML |
| LPRPS003 | Dry Weather Sampling | 9/13/2006 | 70 | MPN/100ML |
| LPRPS003 | Dry Weather Sampling | 9/19/2006 | 13 | MPN/100ML |
| LPRPS003 | Dry Weather Sampling | 10/25/2006 | 27 | MPN/100ML |
| LPRPS008 | WWTF Sampling | 3/28/2006 | >160000 | MPN/100ML |
| LPRPS008 | WWTF Sampling | 4/5/2006 | 9200000 | MPN/100ML |
| LPRPS008 | WWTF Sampling | 4/26/2006 | 3500000 | MPN/100ML |
| LPRPS008 | WWTF Sampling | 5/22/2006 | 5400000 | MPN/100ML |
| LPRPS008 | WWTF Sampling | 6/26/2006 | 9200000 | MPN/100ML |
| LPRPS008 | WWTF Sampling | 7/24/2006 | >16000000 | MPN/100ML |
| LPRPS008 | WWTF Sampling | 8/21/2006 | 16000000 | MPN/100ML |
| LPRPS008 | WWTF Sampling | 9/19/2006 | 9200000 | MPN/100ML |
| LPRPS008 | WWTF Sampling | 10/25/2006 | 16000000 | MPN/100ML |
| LPRPS009 | WWTF Sampling | 3/28/2006 | >160000 | MPN/100ML |
| LPRPS009 | WWTF Sampling | 4/5/2006 | 1300000 | MPN/100ML |
| LPRPS009 | WWTF Sampling | 4/26/2006 | 46000 | MPN/100ML |
| LPRPS009 | WWTF Sampling | 5/22/2006 | 54000 | MPN/100ML |
| LPRPS009 | WWTF Sampling | 6/26/2006 | 68000 | MPN/100ML |
| LPRPS009 | WWTF Sampling | 7/24/2006 | 33000 | MPN/100ML |
| LPRPS009 | WWTF Sampling | 8/21/2006 | 3500 | MPN/100ML |
| LPRPS009 | WWTF Sampling | 9/19/2006 | 79000 | MPN/100ML |
| LPRPS009 | WWTF Sampling | 10/25/2006 | 23000 | MPN/100ML |
| LPRPS010 | WWTF Sampling | 3/28/2006 | 54000 | MPN/100ML |
| LPRPS010 | WWTF Sampling | 3/28/2006 | 24000 | MPN/100ML |
| LPRPS010 | WWTF Sampling | 4/26/2006 | 3300 | MPN/100ML |
| OYSPS001 | Dry Weather Sampling | 07/25/2006 | 60 | CTS/100ML |
| OYSPS002 | Dry Weather Sampling | 07/25/2006 | 110 | CTS/100ML |
| OYSPS003 | Dry Weather Sampling | 07/25/2006 | 20 | CTS/100ML |
| OYSPS004 | Dry Weather Sampling | 07/25/2006 | 40 | CTS/100ML |

| Station ID | Project | Date | FC | Units |
|------------|----------------------|------------|------------------------|-----------|
| OYSPS005 | Dry Weather Sampling | 07/25/2006 | No Sample Collected | CTS/100ML |
| OYSPS006 | Dry Weather Sampling | 07/25/2006 | No Sample Collected | CTS/100ML |
| OYSPS007 | Dry Weather Sampling | 07/25/2006 | No Sample Collected | CTS/100ML |
| OYSPS008 | Dry Weather Sampling | 07/25/2006 | 10 | CTS/100ML |
| OYSPS009 | Dry Weather Sampling | 07/25/2006 | 10 | CTS/100ML |
| OYSPS010 | Dry Weather Sampling | 07/25/2006 | 10 | CTS/100ML |
| OYSPS014 | Dry Weather Sampling | 07/25/2006 | 50 | CTS/100ML |
| ULBPS025 | Wet Weather Sampling | 08/21/2006 | 350 | MPN/100ML |
| ULBPS025 | Dry Weather Sampling | 09/19/2006 | 46 | MPN/100ML |
| ULBPS025 | Dry Weather Sampling | 10/25/2006 | 110 | MPN/100ML |

| Station ID | Project | Date | Enterococcus | Units |
|------------|---------------|------------|--------------|-----------|
| LPRPS008 | WWTF Sampling | 4/26/2006 | > 195000 | CTS/100ML |
| LPRPS008 | WWTF Sampling | 6/26/2006 | > 200000 | CTS/100ML |
| LPRPS008 | WWTF Sampling | 7/24/2006 | 234000 | CTS/100ML |
| LPRPS008 | WWTF Sampling | 8/21/2006 | > 200000 | CTS/100ML |
| LPRPS008 | WWTF Sampling | 9/19/2006 | > 200000 | CTS/100ML |
| LPRPS008 | WWTF Sampling | 10/25/2006 | 1200000 | CTS/100ML |
| LPRPS009 | WWTF Sampling | 4/26/2006 | 4500 | CTS/100ML |
| LPRPS009 | WWTF Sampling | 6/26/2006 | 5800 | CTS/100ML |
| LPRPS009 | WWTF Sampling | 7/24/2006 | 3100 | CTS/100ML |
| LPRPS009 | WWTF Sampling | 8/21/2006 | 210 | CTS/100ML |
| LPRPS009 | WWTF Sampling | 9/19/2006 | 7500 | CTS/100ML |
| LPRPS009 | WWTF Sampling | 10/25/2006 | 2900 | CTS/100ML |
| LPRPS010 | WWTF Sampling | 4/26/2006 | 290 | CTS/100ML |
| GB13 | WWTF Sampling | 4/26/2006 | <10 | CTS/100ML |
| GB13A | WWTF Sampling | 4/26/2006 | <10 | CTS/100ML |
| GB90 | WWTF Sampling | 4/26/2006 | <10 | CTS/100ML |
| GB91 | WWTF Sampling | 4/26/2006 | <10 | CTS/100ML |
| GB92 | WWTF Sampling | 4/26/2006 | <10 | CTS/100ML |
| GB93 | WWTF Sampling | 4/26/2006 | <10 | CTS/100ML |

Appendix 2 2006 Ambient Water Fecal Coliform Data

Data analysis by DES Laboratory. Salinities measured by DES Shellfish Program staff.

All sampling was done in accordance with EPA-approved Quality Assurance Project Plans. Documentation of laboratory QA checks is on file with the analytical laboratories.

| | | | | | TEMP | FCMPN | SALINITY |
|------------------|-------------------|----------|-------|--------------|------------|----------------------|----------|
| PROJECT TYPE | DATE | | SITE | TIME | (deg C) | per100m | (ppt) |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB16 | 7:58 | 13 | =31 | 3 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB17 | 8:27 | 11.5 | =6.8 | 7 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB19 | 8:16 | 11.5 | =7.8 | 12 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB2 | 8:20 | 12 | =7.8 | 9 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB25A | 8:35 | 10 | =6.8 | 18 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB25B | 8:30 | 10 | =2 | 20 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB34 | 8:22 | 12 | =7.8 | 8 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB4A | 7:50 | 12 | =7.8 | 5 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB5 | 7:55 | 12.5 | =4.5 | 6 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB50 | 8:13 | 12 | =13 | 8 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB6A | 8:08 | 12.5 | =6.1 | 6 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB6B | 8:06 | 12 | =6.1 | 8 |
| EMERGENCY CLOSU | RE 5/23/20 | 06 | GB7A | 8:04 | 12.5 | =1.8 | 6 |
| EMERGENCY CLOSU | RE 5/31/20 | 06 | AC10 | 13:13 | 14.5 | <2 | 31 |
| EMERGENCY CLOSU | RE 5/31/20 | 06 | AC1A | 13:56 | 14.5 | =2 | 30 |
| EMERGENCY CLOSU | RE $5/31/20$ | 06 | AC3 | 13.39 | 15 | <2 | 29 |
| EMERGENCY CLOSU | RE $5/31/20$ | 06 | AC3A | 13.34 | 15 | <2 | 31 |
| EMERGENCY CLOSU | RE $5/31/20$ | 06 | AC4D | 13.24 | 15 | =1.8 | 27 |
| EMERGENCY CLOSU | RE $5/31/20$ | 06 | AC5A | 13.09 | 14 5 | <2 | 30 |
| EMERGENCY CLOSU | RE 5/31/20 |)6 | AC6G | 12.57 | 15 | <2 | 31 |
| EMERGENCY CLOSU | RE 5/31/20 |)6 | AC7B | 12.57 | 14 5 | <2 | 31 |
| EMERGENCY CLOSU | RE 5/31/200 |)6 | | 12.31 | 14.5 | =6.8 | 28 |
| EMERGENCY CLOSU | RE 6/12/20 |)6 | AC10 | 9.37 | 14 5 | =2 | 29.9 |
| EMERGENCY CLOSU | RE = 6/12/200 |)6 | | 7.10 | 17.5 | =2 | 30.8 |
| EMERGENCY CLOSU | RE 6/12/200 |)6 | | 7.10 | 12.5 | <2 | 30.7 |
| EMERGENCY CLOSU | RE = 6/12/200 |)6 | | 7.23 | 13 | =2 | 30.6 |
| EMERGENCY CLOSU | RE 6/12/200 |)6 | AC4D | 9·44 | 13 | <2 | 30.8 |
| EMERGENCY CLOSU | RE = 6/12/200 |)6 | | 9.77 | 13 | =33 | 29.7 |
| EMERGENCY CLOSU | RE 6/12/200 |)6 | AC6G | 0.17 | 13 | =1 | 20.0 |
| EMERGENCY CLOSU | RE 6/12/200 |)6 | AC7B | 0.17 0.11 | 13 | | 29.9 |
| EMERGENCY CLOSU | RE 6/12/200 |)6 | | 0.01 | 14.5 | =12 | 21.9 |
| EMERGENCY CLOSU | RE 8/28/200 |)6 | AC10 | 8.08 | 14.5 | =12 | 31 |
| EMERGENCY CLOSU | $PE \frac{8}{28}$ |)6 | | 0.00 | 15 | -4.5 | 31 |
| EMERGENCY CLOSU | RE 8/28/200 |)6 | | 9.25 8·37 | 15 | <2 | 32 |
| EMERGENCY CLOSU | RE 8/28/200 |)6 | AC3A | 8.37 | 15 | =1 | 32 |
| EMERGENCY CLOSU | $PE \frac{8}{28}$ |)6 | | 8.17 | 15 | -0.3 | 31 |
| EMERGENCY CLOSU | RE 8/28/20 |)6 | AC4D | 8.00 | 15 | -9.5 <7 | 32 |
| EMERGENCY CLOSU | $PE \frac{8}{28}$ |)6 | ACSA | 7.18 | 15 | -22 | 31 |
| EMERGENCY CLOSU | RE 8/28/20 |)6 | AC7B | 7.40 | 15 | =23 | 31 |
| EMERGENCY CLOSU | $PE \frac{8}{28}$ |)6)6 | AC7D | 7.39 | 14 5 | - <u>-</u> 2 -7.8 | 31 |
| ODEN STATUS | NE 0/20/20 |)6)6 | AC0 | 10.20 | 14.5 | -7.8 -7 | 32 |
| OPEN STATUS | 9/27/20 |)6)6 | ACD1A | 10.29 | 13 | ~2 | 22 |
| OPEN STATUS | 9/27/20 |)6)6 | ACD2 | 10.55 | 13 | ~2 | 22 |
| OPEN STATUS | 9/27/20 |)0)6 | ACD20 | 10.00 | 14.5 | ~2 | 33 |
| OPEN STATUS | 9/21/20 |)6)6 | ACD22 | 10.33 | 14 | ~2 | 33 34 |
| ODEN STATUS | 5/2//20 |)6)6 | ACD3 | 10.40 | 13 | ~2 | 24 |
| OPEN STATUS | 9/2//20 | .0)6 | ACD5 | 10.4/ | 15.5 | ~4 | 24 22 |
| OPEN STATUS | 9/2//2006 | | ACB3 | 11.02 | 14 -1 9 | ~2 | 33 |
| OPEN STATUS 9/2/ | /2000 | ACD7 | 11:10 | 13.3 | -1.8 | 54 22 | |
| OPEN STATUS 9/2/ | /2000 | ACB/ | 11:15 | 13.3 | <u>~</u> ∠ | 22 | |

| OPEN STATUS | 9/27/2006 | ACB8 | 9:28 | 12 | =1.8 | 33 |
|--------------------------|------------|-------|--------------|----------|------------------------|----------------|
| SHELLWET | 10/12/2006 | HH10 | 10:27 | 16 | =90 | |
| SHELLWET | 10/12/2006 | HH11 | 10:25 | 16 | =110 | |
| SHELLWET | 10/12/2006 | HH19 | 10:09 | 15 | =110 | |
| SHELLWET | 10/12/2006 | HH1A | 10:24 | 15 | =80 | |
| SHELLWET | 10/12/2006 | HH2B | 10:10 | 15 | =50 | |
| SHELLWET | 10/12/2006 | HH5C | 10:28 | 16 | =50 | |
| SYS RANDOM | 4/6/2006 | ACB1A | 9.48 | 4 | <2 | 33 |
| SYS RANDOM | 4/6/2006 | ACB2 | 9.53 | 4 | <2 | 33 |
| SYS RANDOM | 4/6/2006 | ACB20 | 8.42 | 5 | <2 | 33 |
| SYS RANDOM | 4/6/2006 | ACB20 | 9.15 | 4 | <2 | 33 |
| SYS RANDOM | 4/6/2006 | ACB3 | 9.37 | 4 | <2 | 32 |
| SYS RANDOM | 4/6/2006 | ACB4 | 9.25 | 4 | =4.5 | 30 |
| SYS RANDOM | 4/6/2006 | ACB5 | 10.20 | 4 | =2 | 33 |
| SVS RANDOM | 4/6/2006 | ACB6 | 10.20 | 4 5 | <2 | 33 |
| SVS RANDOM | 4/6/2006 | ACB7 | 10.37 | 4.5 | <2 | 33 |
| SVS RANDOM | 4/6/2006 | ACB8 | 10.44 | 5 | <2 | 32 |
| SVS PANDOM | 4/11/2006 | AC10 | 7.51 | 5 | -2 | 32 |
| SVS PANDOM | 4/11/2006 | ACIA | 7.31 8·11 | 5 | -6.8 | 32 |
| SVS PANDOM | 4/11/2006 | ACTA | 0.41 0.11 | 5 | -0.8 | 22 |
| SIS KANDOW | 4/11/2000 | AC3 | 0.11 | 5 | ~2 | 22 |
| SYS RANDOM | 4/11/2006 | AC3A | 0.00 | 5 | ~2 | 52 21 |
| SYS RANDOM | 4/11/2006 | AC4D | 8:02 | 5 | ~2 | 21 |
| SYS KANDOM | 4/11/2006 | ACSA | /:46 | 5 | =2 | 32 |
| SYS KANDOM | 4/11/2006 | AC6G | /:35 | 2 | <2 | 31 |
| SYS RANDOM | 4/11/2006 | AC/B | /:2/ | 2 | <2 | 32 |
| SYS RANDOM | 4/11/2006 | AC8 | 7:17 | 5 | =13 | 30 |
| SYS RANDOM | 5/8/2006 | ACBIA | 8:37 | 10 | <2 | 32 |
| SYS RANDOM | 5/8/2006 | ACB2 | 8:35 | 10 | <2 | 31 |
| SYS RANDOM | 5/8/2006 | ACB20 | 8:00 | 10 | <2 | 32 |
| SYS RANDOM | 5/8/2006 | ACB22 | 8:15 | 10 | <2 | 32 |
| SYS RANDOM | 5/8/2006 | ACB3 | 8:30 | 10 | <2 | 32 |
| SYS RANDOM | 5/8/2006 | ACB4 | 8:24 | 10 | <2 | 32 |
| SYS RANDOM | 5/8/2006 | ACB5 | 8:55 | 10 | <2 | 31 |
| SYS RANDOM | 5/8/2006 | ACB6 | 9:00 | 10 | =1.8 | 31 |
| SYS RANDOM | 5/8/2006 | ACB7 | 9:03 | 10 | <2 | 30 |
| SYS RANDOM | 5/8/2006 | ACB8 | 7:30 | 10 | =2 | 28 |
| SYS RANDOM | 5/10/2006 | AC10 | 9:42 | 9.5 | =9.3 | 30 |
| SYS RANDOM | 5/10/2006 | AC1A | 10:09 | 9 | =33 | 31 |
| SYS RANDOM | 5/10/2006 | AC3 | 9:58 | 9.5 | =33 | 31 |
| SYS RANDOM | 5/10/2006 | AC3A | 9:55 | 9.5 | =22 | 31 |
| SYS RANDOM | 5/10/2006 | AC4D | 9:48 | 9 | =22 | 31 |
| SYS RANDOM | 5/10/2006 | AC5A | 9:37 | 9.5 | =6.8 | 29 |
| SYS RANDOM | 5/10/2006 | AC6G | 9:18 | 9 | <2 | 31 |
| SYS RANDOM | 5/10/2006 | AC7B | 9:13 | 9 | =2 | 31 |
| SYS RANDOM | 5/10/2006 | AC8 | 9:00 | 9 | =11 | 30 |
| SYS RANDOM | 5/10/2006 | RH1 | 9:31 | 9.5 | =170 | 26 |
| SYS RANDOM | 5/10/2006 | RH2 | 9:28 | 10 | =41 | 30 |
| SYS RANDOM | 5/10/2006 | RH3 | 9:25 | 9.5 | =17 | 31 |
| SYS RANDOM | 6/6/2006 | ACB1A | 10:15 | 15 | <2 | 28 |
| SYS RANDOM | 6/6/2006 | ACB2 | 10:20 | 15 | <2 | 29 |
| SYS RANDOM | 6/6/2006 | ACB20 | 9:44 | 13 | <2 | 29 |
| SYS RANDOM | 6/6/2006 | ACB22 | 10.38 | 15 | =2 | 27 |
| SYS RANDOM | 6/6/2006 | ACB3 | 10.25 | 15 | <2 | 27 |
| SYS RANDOM | 6/6/2006 | ACB4 | 10.20 | 15 | <2 | 27 |
| SYS RANDOM | 6/6/2006 | ACR5 | 10.26 | 15 | =9.2 | $\frac{2}{24}$ |
| SYS RANDOM | 6/6/2006 | ACR6 | 9.00 | 13 | =4.5 | 26 |
| SVS RANDOM | 6/6/2006 | ACR7 | 9.00 | 13.5 | ч.5 =4 | 20 |
| SVS RANDOM | 6/6/2006 | ACB9 | 0.13 | 17.5 | - - =7.8 | ∠ / 25 |
| SYS RANDOM | 7/17/2006 | ACB1A | 10.31 | 19 | -7.0 <7 | 20 20 |
| STS KANDOW SVS DANDOM | 7/17/2006 | ACDIA | 10.31 | 10 | ~2 | 32 |
| SISKANDUM SVSDANDOM | 7/17/2000 | ACD2 | 10.55 | 10 17 | ~2 | 32 20 |
| SISKANDUM | 7/17/2000 | ACB20 | 9:38 | 1/ | ~2 | 32 22 |
| 515 KANDUM | //1//2006 | ACB22 | 10:55 | 10 | <u>~</u> ∠ | 32 |

| SVS PANDOM | 7/17/2006 | ACD2 | 10.40 | 19 | \sim | 22 |
|------------|-----------|---------|---------------|------|-----------------------|------|
| | 7/17/2000 | ACD3 | 10.40 | 10 | 17 | 32 |
| SYS KANDOM | //1//2006 | ACB4 | 10:49 | 20 | =1 / | 30 |
| SYS RANDOM | 7/17/2006 | ACB5 | 11:01 | 18 | <2 | 32 |
| SYS RANDOM | 7/17/2006 | ACB6 | 11:11 | 18 | <2 | 30 |
| SYS RANDOM | 7/17/2006 | ACB7 | 11.15 | 18.5 | =6.8 | 30 |
| SVS PANDOM | 7/17/2006 | ACBS | 11.23 | 15 | -4.5 | 30 |
| | 7/17/2000 | ACD6 | 11.23 | 10 | -4.5 | 20 |
| SYS RANDOM | //19/2006 | ACI0 | 10:06 | 16.5 | <2 | 30 |
| SYS RANDOM | 7/19/2006 | AC1A | 10:48 | 16 | =4.5 | 32 |
| SYS RANDOM | 7/19/2006 | AC3 | 10:30 | 16 | <2 | 31 |
| SYS RANDOM | 7/19/2006 | AC3A | 10.25 | 16 | =4.5 | 32 |
| SVS PANDOM | 7/10/2006 | AC4D | 10:17 | 16.5 | -4.5 | 20 |
| SISKANDOM | 7/19/2000 | AC4D | 10.17 | 10.5 | -4.5 | 29 |
| SYS RANDOM | //19/2006 | AC5A | 10:01 | 1/ | =4.5 | 30 |
| SYS RANDOM | 7/19/2006 | AC6G | 9:39 | 16 | =2 | 30 |
| SYS RANDOM | 7/19/2006 | AC7B | 9:33 | 16.5 | =2 | 29 |
| SYS RANDOM | 7/19/2006 | AC8 | 9.25 | 16 | =23 | 29 |
| SVS DANDOM | 7/10/2006 | DIII | 0.52 | 10 5 | -20 | 20 |
| SIS KANDOM | 7/19/2000 | КПІ | 9.33 | 18.5 | -30 | 30 |
| SYS RANDOM | //19/2006 | RH2 | 9:50 | 18 | =17 | 31 |
| SYS RANDOM | 7/19/2006 | RH3 | 9:47 | 18 | =4.5 | 31 |
| SYS RANDOM | 8/2/2006 | GB16 | 7:49 | 24 | =2 | 21 |
| SVS RANDOM | 8/2/2006 | GB17 | 8.55 | 20 | <2 | 25 |
| | 0/2/2000 | CD19 | 0.35 | 20 | ~2 | 25 |
| SYS KANDOM | 8/2/2006 | GB18 | 9:40 | 19 | =/.8 | 26 |
| SYS RANDOM | 8/2/2006 | GB19 | 8:33 | 22 | =6.8 | 26 |
| SYS RANDOM | 8/2/2006 | GB2 | 8:37 | 23 | =1.8 | 26 |
| SYS RANDOM | 8/2/2006 | GB21 | 9.24 | 30 | =46 | 7 |
| SVS PANDOM | 8/2/2006 | GB21 | 0.27 | 26 | -70 | 7 |
| | 0/2/2000 | GD22 | 9.27 | 20 | _// | 27 |
| SYS KANDOM | 8/2/2006 | GB25A | 9:09 | 18 | =2 | 27 |
| SYS RANDOM | 8/2/2006 | GB25B | 9:07 | 20 | =2 | 26 |
| SYS RANDOM | 8/2/2006 | GB33 | 8:45 | 25 | =23 | 21 |
| SYS RANDOM | 8/2/2006 | GB34 | 8:42 | 24 | =9.3 | 24 |
| SVS RANDOM | 8/2/2006 | GB4 A | 8.10 | 24 | =7.8 | 21 |
| SVC DANDOM | 8/2/2000 | CD5 | 7.45 | 24 | -2 | 21 |
| SYS KANDOM | 8/2/2006 | GBS | 7:45 | 24 | ~2 | 22 |
| SYS RANDOM | 8/2/2006 | GB50 | 8:31 | 23 | =13 | 24 |
| SYS RANDOM | 8/2/2006 | GB6A | 8:27 | 22 | <2 | 24 |
| SYS RANDOM | 8/2/2006 | GB6B | 8:25 | 24 | <2 | 23 |
| SYS RANDOM | 8/2/2006 | GB7A | 8.23 | 24 | <2 | 23 |
| SVS PANDOM | 8/2/2006 | GP7C | 0.25 | 26 | -22 | 21 |
| SISKANDOM | 0/2/2000 | GD01 | 0.10 | 20 | -33 | 21 |
| SYS RANDOM | 8/2/2006 | GB81 | 8:12 | 24 | =13 | 21 |
| SYS RANDOM | 8/2/2006 | GB82 | 7:53 | 25 | =13 | 21 |
| SYS RANDOM | 8/2/2006 | GB83 | 7:55 | 25 | <2 | 21 |
| SYS RANDOM | 8/2/2006 | GB83A | 7.57 | 25 | =4 | 20 |
| SVS DANDOM | 8/2/2006 | CD0311 | 9.01 | 25 | -12 | 20 |
| SIS KANDOM | 8/2/2000 | GD 64 | 8.01 | 20 | -15 | 20 |
| SYS RANDOM | 8/2/2006 | GBAI0 | 9:13 | 22 | =17 | 20 |
| SYS RANDOM | 8/2/2006 | GBA11.5 | 9:10 | 21 | =4.5 | 26 |
| SYS RANDOM | 8/8/2006 | ACB1A | 10:13 | 15 | =2 | |
| SYS RANDOM | 8/8/2006 | ACB2 | 10.17 | 15 | =4 5 | |
| SVS DANDOM | 0/0/2000 | ACD20 | 0.41 | 10 5 | -2 | |
| | 0/0/2000 | ACD20 | 7.41 10.41 | 10.3 | -2 | |
| SYS KANDOM | 8/8/2006 | ACB22 | 10:41 | 15.5 | <2 | |
| SYS RANDOM | 8/8/2006 | ACB3 | 10:25 | 14.5 | <2 | |
| SYS RANDOM | 8/8/2006 | ACB4 | 10:32 | 14.5 | =6.8 | |
| SYS RANDOM | 8/8/2006 | ACB5 | 10.46 | 15 | <2 | |
| SVS RANDOM | 8/8/2006 | ACRA | 10.57 | 15 5 | =1.5 | |
| | 0/0/2000 | ACDU | 10.57 | 10.0 | - +.J 2 | |
| SYS KANDOM | 8/8/2006 | ACB/ | 11:00 | 16 | <2 | |
| SYS RANDOM | 8/8/2006 | | ACB8 | 9:06 | 17 | =9.3 |
| SYS RANDOM | 8/15/2006 | AC10 | 8:10 | 16 | =4.5 | |
| SYS RANDOM | 8/15/2006 | AC1A | 8.47 | 15.5 | =7.8 | |
| SVS RANDOM | 8/15/2006 | AC2 | 8.31 | 15.5 | <2 | |
| STS KANDUM | 0/15/2000 | ACS | 0.34 | 15 | ~2 | |
| SYS KANDOM | 8/15/2006 | AC3A | 8:30 | 15.5 | <2 | |
| SYS RANDOM | 8/15/2006 | AC4D | 8:18 | 15.5 | =4 | |
| SYS RANDOM | 8/15/2006 | AC5A | 8:06 | 15.5 | <2 | |
| SYS RANDOM | 8/15/2006 | AC6G | 7:18 | 16.5 | =2 | |
| SVS PANDOM | 8/15/2006 | AC7P | 7.07 | 16 | ~7 | |
| | 0/15/2000 | AC/D | 7.50 | 10 | ~~ | |
| SYS KANDOM | 8/15/2006 | AC8 | /:50 | 15 | =1 / | |

| SYS RANDOM | 8/15/2006 | RH1 | 7:28 | 18 | =23 | |
|------------|------------|--------|-------|------|--------------|---------------|
| SYS RANDOM | 8/15/2006 | RH2 | 7:25 | 18 | =13 | |
| SYS RANDOM | 8/15/2006 | RH3 | 7:35 | 17 | =33 | |
| SYS RANDOM | 9/20/2006 | AC10 | 8:04 | 15 | =2 | 32 |
| SYS RANDOM | 9/20/2006 | AC1A | 8:35 | 15.5 | =2 | 33 |
| SYS RANDOM | 9/20/2006 | AC3 | 8.29 | 15 | <2 | 32 |
| SYS RANDOM | 9/20/2006 | AC3A | 8.21 | 15 | <2 | 33 |
| SVS RANDOM | 9/20/2006 | AC4D | 8.14 | 14 | =46 | 32 |
| SVS PANDOM | 9/20/2006 | | 7.55 | 14 5 | -1 | 32 |
| SVS PANDOM | 9/20/2006 | AC6G | 7.33 | 14.5 | -10 | 33 |
| SVS DANDOM | 9/20/2000 | AC00 | 7.29 | 15 | -49 | 22 |
| SIS KANDOM | 9/20/2006 | AC/D | 7.42 | 15 | -17 | 22 |
| SYS RANDOM | 9/20/2006 | AC8 | /:42 | 15 | =33 | 32 |
| SYS KANDOM | 9/26/2006 | GB16 | 11:19 | 16.5 | =1 / | 28 |
| SYS KANDOM | 9/26/2006 | GB1/ | 10:08 | 15.5 | =2 | 31 |
| SYS RANDOM | 9/26/2006 | GB18 | 9:30 | 15 | <2 | 32 |
| SYS RANDOM | 9/26/2006 | GB19 | 10:29 | 16 | =2 | 30 |
| SYS RANDOM | 9/26/2006 | GB2 | 10:12 | 16.5 | =4 | 31 |
| SYS RANDOM | 9/26/2006 | GB21 | 9:50 | 16.5 | =110 | 15 |
| SYS RANDOM | 9/26/2006 | GB22 | 9:54 | 16 | =49 | 16 |
| SYS RANDOM | 9/26/2006 | GB25A | 9:24 | 15 | =2 | 30 |
| SYS RANDOM | 9/26/2006 | GB25B | 9:22 | 14.5 | =7.8 | 31 |
| SYS RANDOM | 9/26/2006 | GB33 | 10:25 | 16 | =70 | 26 |
| SYS RANDOM | 9/26/2006 | GB34 | 10:20 | 16 | =79 | 27 |
| SYS RANDOM | 9/26/2006 | GB4A | 11:10 | 16 | =4.5 | 28 |
| SYS RANDOM | 9/26/2006 | GB5 | 11:16 | 16.5 | =23 | 27 |
| SYS RANDOM | 9/26/2006 | GB50 | 10:31 | 16 | =23 | 28 |
| SYS RANDOM | 9/26/2006 | GB6A | 10:36 | 16 | no data | |
| SYS RANDOM | 9/26/2006 | GB6B | 10.38 | 16.5 | no data | |
| SYS RANDOM | 9/26/2006 | GB7A | 10.39 | 16.5 | =4 5 | 29 |
| SYS RANDOM | 9/26/2006 | GB7C | 11.00 | 16 | =26 | 29 |
| SVS RANDOM | 9/26/2006 | GB81 | 11.00 | 16.5 | =22 | 27 |
| SVS RANDOM | 9/26/2006 | GB82 | 11.12 | 16.5 | =1.8 | 28 |
| SVS PANDOM | 9/26/2006 | GB83 | 11.23 | 16.5 | -1.6 | 20 |
| SVS PANDOM | 9/26/2006 | CD83 | 11.27 | 16.5 | -20 | 27 |
| SVS DANDOM | 9/20/2000 | CD84 | 11.32 | 16.5 | -4.5 | 20 |
| SIS KANDOM | 9/20/2000 | | 0.41 | 10.5 | -4.3 -27 | 29 |
| SIS KANDOM | 9/20/2000 | CDA11 | 9.41 | 15.5 | -27 | 23 |
| SYS RANDOM | 9/20/2006 | GBAIL. | 0.25 | 15.5 | =23 | 27 |
| SYS KANDOM | 10/9/2006 | ACIO | 9:25 | 14 | =4.5 | 32.1 |
| SYS KANDOM | 10/9/2006 | ACIA | 8:53 | 14 | =33 | 31.0 |
| SYS RANDOM | 10/9/2006 | AC3 | 8:59 | 14 | =1.8 | 31.8 |
| SYS RANDOM | 10/9/2006 | AC3A | 9:08 | 14 | <2 | 31.7 |
| SYS RANDOM | 10/9/2006 | AC4D | 9:17 | 13.5 | =23 | 31.6 |
| SYS RANDOM | 10/9/2006 | AC5A | 9:31 | 13.5 | =2 | 31.9 |
| SYS RANDOM | 10/9/2006 | AC6G | 9:59 | 14 | =7.8 | 31.6 |
| SYS RANDOM | 10/9/2006 | AC7B | 10:09 | 13.5 | =6.8 | 31.9 |
| SYS RANDOM | 10/9/2006 | AC8 | 10:22 | 13.5 | <2 | 32.0 |
| SYS RANDOM | 10/9/2006 | RH1 | 9:38 | 12.5 | =130 | 29.8 |
| SYS RANDOM | 10/9/2006 | RH2 | 9:44 | 13 | =33 | 30.1 |
| SYS RANDOM | 10/9/2006 | RH3 | 9:48 | 13 | =22 | 30.5 |
| SYS RANDOM | 10/16/2006 | GB16 | 10:24 | 13 | =130 | 22.4 |
| SYS RANDOM | 10/16/2006 | GB17 | 9:23 | 13 | =17 | 25.8 |
| SYS RANDOM | 10/16/2006 | GB18 | 8:50 | 12.5 | =13 | 29.3 |
| SYS RANDOM | 10/16/2006 | GB19 | 9:44 | 13 | =79 | 24.9 |
| SYS RANDOM | 10/16/2006 | GB2 | 9:31 | 13 | =22 | 24.3 |
| SYS RANDOM | 10/16/2006 | GB21 | 9:05 | 11.5 | =240 | 11.1 |
| SYS RANDOM | 10/16/2006 | GB22 | 9:08 | 11.5 | =240 | 12.5 |
| SYS RANDOM | 10/16/2006 | GB25A | 9:18 | 13 | no data | 27.4 |
| SYS RANDOM | 10/16/2006 | GR25R | 9.20 | 13 | no data | 25.3 |
| SYS RANDOM | 10/16/2006 | GB33 | 9.38 | 12 5 | =33 | 22.5 |
| SYS RANDOM | 10/16/2006 | GR34 | 9.34 | 12.5 | =13 | 22.4 |
| SVS RANDOM | 10/16/2006 | GR4A | 10.17 | 12.5 | =170 | 22.9 |
| SVS RANDOM | 10/16/2000 | CP4 | 10.17 | 12 | -170 =170 | - <u>4</u> .3 |
| 515 KANDUM | 10/10/2000 | UD) | 10.21 | 14 | -1/0 | 44.4 |

| SYS RANDOM | 10/16/2006 | GB50 | 9.46 | 12.5 | =23 | 23.6 |
|------------|------------|--------------|--------|------|-------------|------------|
| SYS RANDOM | 10/16/2006 | GB6A | 9.50 | 13 | =23 | 23.8 |
| SVS PANDOM | 10/16/2006 | GB6R | 0.56 | 13 | -70 | 23.0 |
| SYS DANDOM | 10/10/2000 | | 9.50 | 13 | -14 | 23.0 |
| SYS DANDOM | 10/10/2000 | UD/A CD7C | 9.38 | 13 | -14 -120 | 25.5 |
| SYS KANDOM | 10/16/2006 | GB/C | 10:01 | 12 | =130 | 21.9 |
| SYS RANDOM | 10/16/2006 | GB81 | 10:15 | 11.5 | =540 | 20.3 |
| SYS RANDOM | 10/16/2006 | GB82 | 10:26 | 12 | =33 | 21.3 |
| SYS RANDOM | 10/16/2006 | GB83 | 10:28 | 10 | =48 | 19.6 |
| SYS RANDOM | 10/16/2006 | GB83A | 10:30 | 10 | =49 | 18.3 |
| SYS RANDOM | 10/16/2006 | GB84 | 10:35 | 12 | =110 | 20.9 |
| SYS RANDOM | 10/16/2006 | GBA10 | 8:58 | 13 | =360 | 23.5 |
| SYS RANDOM | 10/16/2006 | GBA11. | 58:56 | 13 | =49 | 27.9 |
| SYS RANDOM | 11/7/2006 | AC10 | 9.52 | 6 | =1.8 | 32 |
| SVS RANDOM | 11/7/2006 | | 10.16 | 6 | <2 | 34 |
| SVS PANDOM | 11/7/2006 | | 10.10 | 6 | ~2 | 22 |
| SIS KANDOM | 11/7/2000 | AC3 | 10.07 | 0 | ~2 | 22 |
| SYS KANDOM | 11/7/2006 | AC3A | 10:04 | 0 | =4.5 | 33 |
| SYS KANDOM | 11/7/2006 | AC4D | 9:56 | 6.5 | =33 | 32 |
| SYS RANDOM | 11/7/2006 | AC5A | 9:48 | 6 | <2 | 31 |
| SYS RANDOM | 11/7/2006 | AC6G | 9:34 | 6.5 | <2 | 32 |
| SYS RANDOM | 11/7/2006 | AC7B | 9:31 | 6 | <2 | 31 |
| SYS RANDOM | 11/7/2006 | AC8 | 9:24 | 6 | =4.5 | 28 |
| SYS RANDOM | 11/7/2006 | RH1 | 9:46 | 5.5 | =7.8 | 32 |
| SYS RANDOM | 11/7/2006 | RH2 | 9.43 | 6 | =4.5 | 30 |
| SYS RANDOM | 11/7/2006 | RH3 | 9.40 | 6 | =33 | 31 |
| SVS PANDOM | 11/15/2006 | GR16 | 10.40 | 10.5 | -110 | 75 |
| SYS DANDOM | 11/15/2000 | CD17 | 10.09 | 10.5 | -110 | 1.5 |
| SYS KANDOM | 11/15/2006 | GB1/ | 9:20 | 10 | -130 | 10.4 |
| SYS KANDOM | 11/15/2006 | GB18 | 8:54 | 10 | =23 | 25.5 |
| SYS RANDOM | 11/15/2006 | GB19 | 9:38 | 9.5 | =31 | 13.1 |
| SYS RANDOM | 11/15/2006 | GB2 | 9:28 | 10 | =240 | 11.7 |
| SYS RANDOM | 11/15/2006 | GB21 | 9:10 | 9.5 | =170 | 0 |
| SYS RANDOM | 11/15/2006 | GB22 | 9:12 | 9.5 | =170 | 0 |
| SYS RANDOM | 11/15/2006 | GB25A | 9:21 | 9.5 | =240 | 17.6 |
| SYS RANDOM | 11/15/2006 | GB25B | 9:23 | 9.5 | =33 | 14.6 |
| SYS RANDOM | 11/15/2006 | GB33 | 9.33 | 10 | =350 | 33 |
| SYS RANDOM | 11/15/2006 | GB34 | 9.30 | 10 | =220 | 9.6 |
| SVS RANDOM | 11/15/2006 | GB4A | 10.03 | 10 | =130 | 7.5 |
| SVS PANDOM | 11/15/2006 | CP5 | 10.05 | 10 5 | -1600 | 7.5 Q 1 |
| SIS KANDOM | 11/15/2000 | CD50 | 10.00 | 10.5 | -1000 | 0.1 |
| SYS KANDOM | 11/15/2006 | GB20 | 9:40 | 10 | =130 | 10.3 |
| SYS RANDOM | 11/15/2006 | GB6A | 9:45 | 10 | =49 | 11.9 |
| SYS RANDOM | 11/15/2006 | GB6B | 9:50 | 10 | =79 | 12 |
| SYS RANDOM | 11/15/2006 | GB7A | 9:52 | 10 | =170 | 10.9 |
| SYS RANDOM | 11/15/2006 | GB7C | 9:53 | 10.5 | =79 | 7.8 |
| SYS RANDOM | 11/15/2006 | GB81 | 10:01 | 10.5 | =220 | 0.7 |
| SYS RANDOM | 11/15/2006 | GB82 | 10:11 | 11 | =79 | 1.4 |
| SYS RANDOM | 11/15/2006 | GB83 | 10.13 | 10 | =350 | 81 |
| SVS RANDOM | 11/15/2006 | GB83A | 10.15 | 10.5 | =350 | 5.9 |
| SVS PANDOM | 11/15/2006 | GB84 | 10.19 | 10.5 | -540 | 5.0 |
| SYS DANDOM | 11/15/2000 | | 0.04 | 0.5 | -340 | 12 (|
| SYS KANDOM | 11/15/2006 | GBAIU | 9:04 | 9.5 | =220 | 13.0 |
| SYS KANDOM | 11/15/2006 | GBAIL. | 5 8:59 | 9.5 | =920 | 4 |
| SYS RANDOM | 12/4/2006 | AC10 | 7:14 | 8.5 | <2 | 31.8 |
| SYS RANDOM | 12/4/2006 | AC1A | 6:55 | 8 | =1.8 | 32.2 |
| SYS RANDOM | 12/4/2006 | AC3 | 6:44 | 8 | =17 | 32.1 |
| SYS RANDOM | 12/4/2006 | AC3A | 7:04 | 8.5 | =7.8 | 32 |
| SYS RANDOM | 12/4/2006 | AC4D | 6:32 | 8.5 | <2 | 31.8 |
| SYS RANDOM | 12/4/2006 | AC5A | 6:23 | 9 | <2 | 32.2 |
| SYS RANDOM | 12/4/2006 | AC6G | 6.11 | 8.5 | =1.8 | 31.1 |
| SYS RANDOM | 12/4/2006 | AC7R | 7.25 | 8.5 | =2 | 30.1 |
| SVS DANDOM | 12/4/2000 | | 7.20 | 6 | -2 -1 5 | 27 5 |
| SIS KANDUM | 12/4/2000 | CD16 | 1.32 | 6 | -4.3 -22 | 27.3 16 |
| SIS KANDUM | 12/3/2006 | UB10 | 12:16 | 0 | =25 | 10 |
| SYS KANDOM | 12/5/2006 | GB17 | 11:23 | 8 | =17 | 25.1 |
| SYS RANDOM | 12/5/2006 | GB18 | 11:06 | 8.5 | =4.5 | 29 |
| SYS RANDOM | 12/5/2006 | GB19 | 11:43 | 7 | =17 | 21.7 |

| SYS RANDOM | 12/5/2006 | GB2 | 11.25 | 7 | =2.2 | 193 |
|-------------|-----------|------------|--------------|------|------------|--------------|
| SYS RANDOM | 12/5/2006 | GB21 | 11.20 | 55 | =23 | 18.3 |
| SVS RANDOM | 12/5/2006 | GB21 | 11.12 | 6 | =70 | 18.5 |
| SVS DANDOM | 12/5/2006 | CD25A | 11.17 | 7 | -70 -22 | 24.0 |
| SYS RANDOM | 12/3/2000 | UD23A | 11.02 | / | -33 | 24.0 |
| SYS KANDOM | 12/5/2006 | GB25B | 11:00 | 8 | =6.8 | 26.7 |
| SYS RANDOM | 12/5/2006 | GB33 | 11:31 | 6 | =23 | 15.9 |
| SYS RANDOM | 12/5/2006 | GB34 | 11:29 | 6.5 | =23 | 18 |
| SYS RANDOM | 12/5/2006 | GB4A | 12:03 | 6.5 | =70 | 17.1 |
| SYS RANDOM | 12/5/2006 | GB5 | 12:08 | 6 | =33 | 16.6 |
| SYS RANDOM | 12/5/2006 | GB50 | 11:45 | 7 | =130 | 20.1 |
| SYS RANDOM | 12/5/2006 | GB6A | 11:48 | 6.5 | =17 | 18.3 |
| SYS RANDOM | 12/5/2006 | GB6B | 11:50 | 6 | =49 | 16.4 |
| SYS RANDOM | 12/5/2006 | GB7A | 11.53 | 6.5 | =17 | 17.5 |
| SYS RANDOM | 12/5/2006 | GB7C | 11.56 | 5 | =33 | 13.3 |
| SYS RANDOM | 12/5/2006 | GB81 | 12.05 | 6 | =22 | 16.6 |
| SVS PANDOM | 12/5/2006 | GB82 | 12.05 | 4.5 | -70 | 12.8 |
| SYS DANDOM | 12/5/2000 | | 12.19 | 4.5 | -/0 | 12.0 |
| SYS KANDOM | 12/5/2006 | GB83 | 12:21 | 3 | -49 | 11.1 |
| SYS RANDOM | 12/5/2006 | GB83A | 12:23 | 2 | =130 | 9.4 |
| SYS RANDOM | 12/5/2006 | GB84 | 12:25 | 4 | =23 | 12.8 |
| SYS RANDOM | 12/5/2006 | GBA10 | 11:11 | 6.5 | =79 | 18.5 |
| SYS RANDOM | 12/5/2006 | GBA11.5 | 511:10 | 5.5 | =33 | 16.9 |
| TIDAL STUDY | 9/12/2006 | T14 | 7:15 | 14 | =350 | 28 |
| TIDAL STUDY | 9/12/2006 | T14A | 7:18 | 14 | =350 | 29 |
| TIDAL STUDY | 9/12/2006 | T7 | 7:09 | 11 | =350 | 6 |
| TIDAL STUDY | 9/13/2006 | T14 | 6:01 | 16.5 | =70 | 30.7 |
| TIDAL STUDY | 9/13/2006 | T14 | 6.53 | 16 | =46 | 30.6 |
| TIDAL STUDY | 9/13/2006 | T14 | 7.53 | 16 | =350 | 28.6 |
| TIDAL STUDY | 9/13/2006 | T14 | 8.55 | 16.2 | =350 | 20.0 |
| TIDAL STUDY | 9/13/2006 | T14 | 0.55 | 16.2 | =350 | 27.2 |
| TIDAL STUDY | 9/13/2000 | T14 | 9.55 | 16 5 | -330 | 20.4 |
| TIDAL STUDY | 9/13/2000 | T14A | 0.05 | 10.5 | -11 | 50.4 20.7 |
| TIDAL STUDY | 9/13/2006 | T14A | 6:58 | 10 | =/9 | 29.7 |
| TIDAL STUDY | 9/13/2006 | 114A | 7:55 | 15.8 | =140 | 28.1 |
| TIDAL STUDY | 9/13/2006 | T14A | 8:57 | 16 | =240 | 26.9 |
| TIDAL STUDY | 9/13/2006 | T14A | 9:54 | 15.9 | =240 | 25.5 |
| TIDAL STUDY | 9/13/2006 | T7 | 5:54 | 13.4 | =1600 | 9.2 |
| TIDAL STUDY | 9/13/2006 | T7 | 6:48 | 12.6 | =540 | 5.9 |
| TIDAL STUDY | 9/13/2006 | T7 | 7:50 | 12.6 | =1600 | 5.4 |
| TIDAL STUDY | 9/13/2006 | T7 | 8:50 | 13.5 | =1600 | 6.8 |
| TIDAL STUDY | 9/13/2006 | T7 | 9:50 | 14.4 | =920 | 8.0 |
| TIDAL STUDY | 9/14/2006 | T14 | 7:18 | 16.4 | =6.1 | 30.6 |
| TIDAL STUDY | 9/14/2006 | T14 | 8:49 | 16.4 | =130 | 28.6 |
| TIDAL STUDY | 9/14/2006 | T14 | 10.13 | 16.9 | =33 | 27.2 |
| TIDAL STUDY | 9/14/2006 | T14A | 7.20 | 16.4 | =17 | 30.6 |
| TIDAL STUDY | 9/14/2006 | Τ14Δ | 8.52 | 16.1 | =26 | 28.5 |
| TIDAL STUDY | 9/14/2006 | T14A | 10.16 | 16.7 | -140 | 20.5 |
| TIDAL STUDY | 9/14/2000 | 114A T7 | 7.12 | 10.7 | -140 | 21.J 6.6 |
| TIDAL STUDI | 9/14/2000 | 1/ T7 | 7.15 0.42 | 14.5 | -540 | 0.0 |
| TIDAL STUDY | 9/14/2000 | 1 / T7 | 0.43 | 15 | -340 | 9.5 |
| TIDAL STUDY | 9/14/2006 | I/ T14 | 10:07 | 15.8 | =920 | 6.0 |
| TIDAL STUDY | 9/27/2006 | 114 | 8:36 | 13 | =64 | 24.5 |
| TIDAL STUDY | 9/27/2006 | T14 | 9:25 | 13.9 | =49 | 24.8 |
| TIDAL STUDY | 9/27/2006 | T14 | 10:27 | 13.3 | =170 | 28.3 |
| TIDAL STUDY | 9/27/2006 | T14 | 11:26 | 13.8 | =11 | 30.7 |
| TIDAL STUDY | 9/27/2006 | T14A | 8:39 | 13 | =49 | 25.2 |
| TIDAL STUDY | 9/27/2006 | T14A | 9:28 | 13.2 | =22 | 25.2 |
| TIDAL STUDY | 9/27/2006 | T14A | 10:30 | 13.3 | =17 | 28.5 |
| TIDAL STUDY | 9/27/2006 | T14A | 11:29 | 13.6 | =4 | 31 |
| TIDAL STUDY | 9/27/2006 | Τ7 | 8:29 | 11.5 | =79 | 1.8 |
| TIDAL STUDY | 9/27/2006 | Τ7 | 9:20 | 12 | =33 | 1.6 |
| TIDAL STUDY | 9/27/2006 | T7 | 10:23 | 13.7 | =33 | 1.1 |
| TIDAL STUDY | 9/27/2006 | T7 | 11:22 | 15.8 | =49 | 1.8 |
| TIDAL STUDY | 10/9/2006 | T14 | 7.31 | 11.6 | =540 | 23.1 |
| TIDAL STUDY | 10/9/2006 | T14 | 8.50 | 12.1 | =350 | 26.1 |
| | 10/2/2000 | 117 | 0.57 | 14.1 | 550 | 20.1 |

| TIDAL STUDY | 10/9/2006 | T14 | 10:28 | 13.9 | =11 | 30.9 |
|-------------|-----------|------|-------|------|------|------|
| TIDAL STUDY | 10/9/2006 | T14 | 11:53 | 13.8 | =4 | 31.0 |
| TIDAL STUDY | 10/9/2006 | T14A | 7:42 | 11.3 | =240 | 23.3 |
| TIDAL STUDY | 10/9/2006 | T14A | 9:04 | 11.9 | =110 | 27.5 |
| TIDAL STUDY | 10/9/2006 | T14A | 10:32 | 13.1 | <2 | 31.1 |
| TIDAL STUDY | 10/9/2006 | T14A | 11:57 | 13.5 | =2 | 30.8 |
| TIDAL STUDY | 10/9/2006 | Τ7 | 7:23 | 8.3 | =130 | 2.9 |
| TIDAL STUDY | 10/9/2006 | Τ7 | 8:53 | 9.1 | =140 | 2.5 |
| TIDAL STUDY | 10/9/2006 | Τ7 | 10:21 | 11.5 | =170 | 5.2 |
| TIDAL STUDY | 10/9/2006 | Τ7 | 11:48 | 13.4 | =13 | 29.5 |
| | | | | | | |