

**ANALYSIS OF THE 2010 AMERICAN SHAD RADIO  
TELEMETRY ANIMATIONS  
RSP 3.5**

**CONOWINGO HYDROELECTRIC PROJECT**

**FERC PROJECT NUMBER 405**



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## EXECUTIVE SUMMARY

Exelon Generation Company, LLC (Exelon) has initiated with the Federal Energy Regulatory Commission (FERC) the process of relicensing the 573-megawatt Conowingo Hydroelectric Project (Conowingo Project). The final study plan determination required Exelon to conduct an Upstream Fish Passage Effectiveness Study, (RSP 3.5) and provide a series of accompanying animations to visually illustrate radio tagged shad movement in relationship to generation. The purpose of this document is to describe, summarize, and simplify the interpretation of the 2010 animations.

To organize the 2010 radio-telemetry data, the overall data base was separated into several charts or spread sheets. American shad that entered the EFL were placed into 3 categorical charts: Successful EFL Entry and Passage, Successful Entry without Passage, and Successful versus Unsuccessful Passage during a four day period. Individual shad foray data was compared to the flow bin and turbine scenario that these shad encountered as they entered various sections of the tailrace. Since radio tagged shad moved into and through various sections of the tailrace, a series of zones within the tailrace were created based on antenna locations and detection areas. Unsuccessful American shad detected in the tailrace that did not enter the EFL were divided into 2 broad categories: 1) shad that made only a single foray into the tailrace after initial tagging, and 2) shad that made multiple forays into the tailrace after initial tagging. This data was also compared to the flow bin and turbine scenario that these shad encountered as they entered various sections of the tailrace.

During the 2010 Upstream Fish Passage Efficiency Study, a total of 89 radio-tagged American shad were detected in the tailrace, of which 65 entered the EFL (65 of 89 = 73%). A total of 40 of the 65 American shad that entered the EFL successfully passed upstream (40 of 65 = 61.5%). Twenty-five of the 65 American shad that entered the EFL did not pass upstream (25 of 65 = 38.5%). These 25 shad made a total of 42 forays into the EFL. Eighteen shad made a single unsuccessful foray inside the EFL while 7 shad made multiple unsuccessful forays into the EFL ranging from 2 to 9 forays. Note that one of the 18 shad (Shad # 54-200-1) that made a single unsuccessful foray was successfully lifted and sluiced into the trough but failed to pass due to an injury. The disposition of this fish did not conform to the 3 categories established for those shad detected in the EFL and is not listed in the tables. Eleven of the 40 radio-tagged shad that successfully passed upstream made unsuccessful forays prior to successful passage.

The forays of American shad that resulted in successful passage in 2010 were compared to station discharges as shad entered various sections of the tailrace prior to EFL entry. Entry into all 3 sections of the tailrace occurred most frequently (57% to 63%) with 2 or 3 Francis turbines operating (Flow bin 1). In

2010, the turbine scenarios of 2 or 3 Francis turbines and no operation of any Kaplan turbines occurred 35.5% of the time during EFL operations.

Eleven of the 40 radio-tagged shad that successfully passed upstream made 23 unsuccessful forays prior to successful passage. Four of these 11 shad made multiple forays into the EFL prior to successful passage. Eighteen of the 23 forays (78%) started with shad entering the tailrace during the operation of 2 or 3 Francis turbines only (Flow bin 1) while 9 of the 23 forays (39%) ended with the same station discharge. Only 2 forays (8.6%) began as shad entered the tailrace with station discharges correlated to flow bins 5, 6, and 7 (See Table ES-1). Although the majority of these forays started during low station discharges, they are, ultimately, unsuccessful forays.

**TABLE ES-1: FLOW BIN DISCHARGE RANGES.**

#	Range
1	7,500-17,999cfs
2	18,000-27,999cfs
3	28,000-35,999cfs
4	36,000-44,999cfs
5	45,000-54,999cfs
6	55,000-65,999cfs
7	66,000-80,000cfs

A finer breakdown of the 23 unsuccessful forays shows that a substantial number of “sub-forays” occur within each overall foray. As these radio-tagged shad move into the tailrace, the fish begin to search for an upstream passage route. Review of the upper tailrace area generally shows a similar pattern to the overall foray pattern, with the number of entries into the upper tailrace (94) higher during the low generation scenario (Flow bin 1) with fewer exits (77) and fewer entries (22 and 17) but more exits from the upper tailrace (32 and 23) during the 2 highest generation scenarios (Flow bins 6 and 7). However, review of the EFL aerial detections does not show any disparity between the entries into or exits from the small EFL aerial detection zones.

The disposition of 24 forays with radio-telemetry detection inside the EFL by shad that ultimately failed to pass upstream shows that a similar number of entries into (11 of 24, 46%) and exits from (12 out of 24, 50%) the tailrace occurred with lower station discharges (Flow bin 1). The remaining entries into and exits from the tailrace were somewhat evenly distributed across the remaining flow bins excepting Flow bin 5 which had no documented entries or exits.

Review of the “sub-forays” within these 24 forays shows, as noted earlier, that low station discharges (Flow bin 1) coincided with the highest number of entrances (75) into the upper tailrace, but also accounted for the highest number of exits (53) from the upper tailrace. Flow bins 2 through 7 all recorded a lower number of entries into the upper tailrace and a slightly higher number of exits from the upper tailrace. As noted before, when reviewing the EFL aerial antenna detection zones, the number of entries into and exits out of these zones is nearly identical for each flow bin.

A total of 25 radio-tagged shad entered the tailrace but did not enter the EFL. These unsuccessful forays were more evenly distributed among 6 of the 7 flow bins (Flow bin 5=0 forays) as 9 (36%) forays were initiated during flow bin 1 discharge conditions and 6 (24%) occurred during flow bin 6 conditions.

A closer review of these tailrace forays without entry into the EFL reveals 62% of entries into the upper tailrace occurred during station discharges correlated to flow bins 1 and 4, but these same 2 flow bins also accounted for 48% (55 of 114) of exits from the upper tailrace. Entries and exits into and out of the EFL aerial detection zones were similar in each flow bin.

Although a higher percentage of shad successfully entered and/or passed through the EFL (in 2010) at turbine discharges less than 36,000 cfs, natural river flows, inflows to Conowingo Pond, and power demand determine to what extent the power station can discharge a specific amount of water over a certain period of time. Lower discharges may provide better passage conditions, annual spring river flows vary widely, and the station may not be able to provide those conditions on a regular basis or on short notice. Therefore, it is imperative that we attempt to identify specific turbine combinations with higher discharges that result in adequate shad passage as well as improve conditions within the EFL so as to potentially pass all shad that successfully enter the lift.

Review of the 2010 radio-telemetry data suggests that further study of at least 2 turbine scenarios (4 Francis + 1 Kaplan and 6 Francis + 3 Kaplan) is warranted. Although EFL operators dislike the flow pattern observed in the tailrace during the operation of 4 Francis turbines in conjunction with Kaplan turbine #8 or #9, (formation of large eddy that pushes attraction water from entrance gate C into the spillway immediately downstream of the wing wall), 11 forays (4 successful, 7 unsuccessful) into the EFL occurred during this scenario in 2010. Generally, Kaplan turbines 8 and/or 9 were used more often than turbines 10 and 11 that experienced mechanical problems in 2010. The 2012 radio-telemetry data may provide additional information as units 10 and 11 were repaired and may have been operated regularly.

Seven forays, 5 that were successful, occurred during the operation of 6 Francis and 3 Kaplan turbines. On 7 May, EFL operations started with the turbine scenario of 4 Francis turbines and 1 Kaplan turbine operating, resulting in the passage of 383 American shad, (2 were radio-tagged), in 6 hours. At approximately 1400 hrs, generation was switched to 6 Francis units and 3 Kaplan turbines, resulting in the passage of 1,960 American shad, (5 were radio-tagged) over the remaining 6 hours of operation. It is difficult to ascertain if the turbine scenario was solely responsible for the respectable catch, but it warrants further review. Also, on 3 May, EFL operations started with only 2 Francis turbines in operation and resulted in the passage of 482 American shad in 5 hours, (2 were radio-tagged). At 1215 hrs, generation switched to the operation of all 7 Francis turbines plus 3 Kaplan turbines, resulting in the passage of 518 American shad over the remaining 6 hours of operation. It is noted in the log that Kaplan unit #11 was operating at a 70% setting instead of the normal operational setting due to a mechanical issue. If one or 2 Kaplan turbines are able to operate at some type of reduced setting without damaging the turbine, it may be another option to consider during periods of higher river flow when Kaplan turbine operation is necessary, in order to maximize shad passage.

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## LIST OF ABBREVIATIONS

FERC	Federal Energy Regulatory Commission
cfs	cubic feet per second
F	Fahrenheit
EFL	Conowingo East Fish Lift

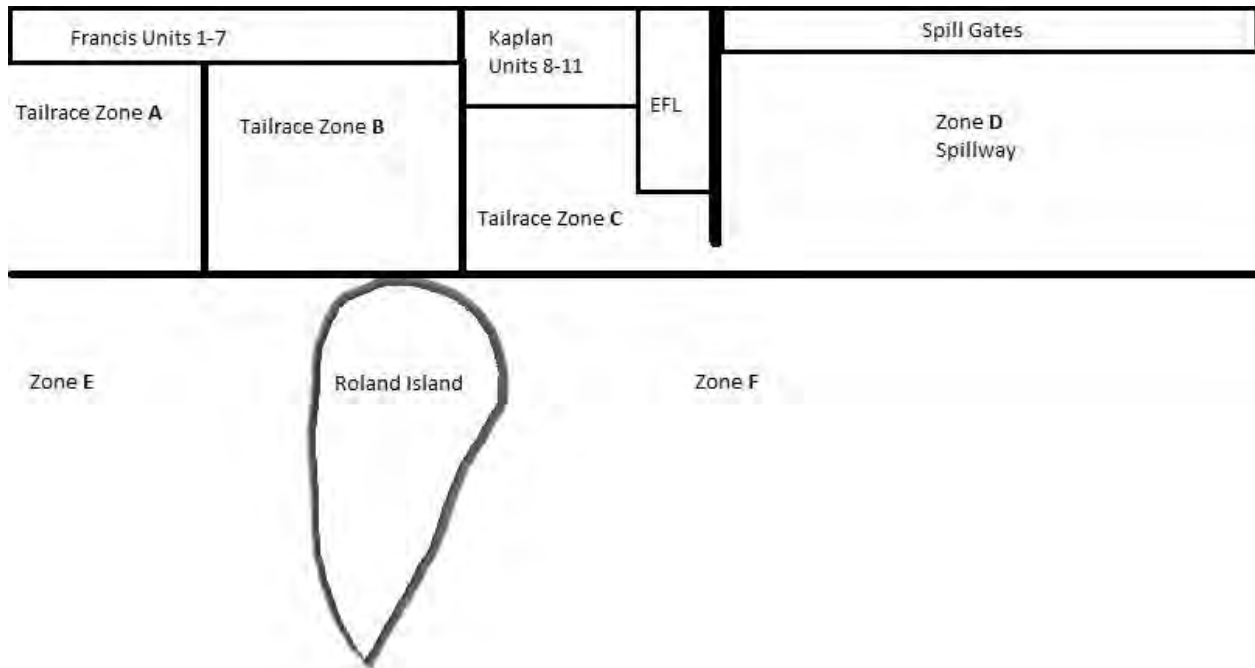
## **1.0 INTRODUCTION**

Exelon Generation Company, LLC (Exelon) has initiated with the Federal Energy Regulatory Commission (FERC) the process of relicensing the 573-megawatt Conowingo Hydroelectric Project (Conowingo Project). The current license for the Conowingo Project was issued on 14 August 1980 and expires on 1 September 2014. FERC issued the final study plan determination for the Conowingo Project on 4 February 2010, approving the revised study plan with certain modifications. The final study plan determination required Exelon to conduct an Upstream Fish Passage Effectiveness Study, (RSP 3.5) and provide a series of accompanying animations to visually illustrate radio tagged shad movement in relationship to generation. The 2010 animations have been provided and reviewed. The 2012 animations are currently in production and will be submitted with the 2012 Upstream Fish Passage Effectiveness Study Report. The purpose of this document is to describe, summarize, and simplify the interpretation of the 2010 animations for all stakeholders.

## 2.0 METHODS

To organize the 2010 radio-telemetry data, the overall data base was separated into several charts or spread sheets. The first “cut” of the data separated American shad that entered the EFL from shad that were present in the tailrace but never entered the EFL. American shad that entered the EFL were then placed into 3 categorical charts: Successful EFL Entry and Passage, Successful Entry without Passage, and Successful versus Unsuccessful Passage during a four day period. These charts document EFL operating conditions during recorded shad detection times (Appendix [A-1](#), [A-2](#), and [A-3](#)). Using these charts, the actual foray data for successful entry/passage at the EFL was divided into 3 specific categories: 1) shad forays into the EFL resulting in successful passage, 2) forays into the EFL without passage prior to successful passage, and 3) forays into the EFL by shad that never successfully passed upstream. The individual foray data was then compared to the flow bin and turbine scenario that these shad encountered as they entered various sections of the tailrace; see figure below.

American shad detected in the designated Tailrace area tend to move in and out of several sections of the tailrace as they search for an upstream passage route. To address this issue, a series of zones within the tailrace were created based on antenna locations and detection zones. A basic schematic of the tailrace zones is shown below.



Each radio-tagged American shad foray within the tailrace was inspected for location and movement patterns. A panel of 5 personnel, (2 from Gomez and Sullivan; 3 from Normandeau Associates), reviewed

the forays and recorded comments regarding fish movements and turbine discharge scenarios (Appendix [A-4](#), [A-5](#), and [A-6](#)). If warranted, these comments may provide a means to further “slice” the telemetry data if obvious trends do not appear when comparing foray times and locations to station discharges (flow bins) and specific turbine operating scenarios.

American shad detected in the tailrace but did not enter the EFL were divided into 2 broad categories: 1) shad that made only a single foray into the tailrace after initial tagging, and 2) shad that made multiple forays into the tailrace after initial tagging. Separating the fish in this manner enabled us to check for any gross differences in turbine generation or EFL operating scheme that may explain why some shad only entered the tailrace one time compared to those entering on several occasions. It also provided the opportunity to compare those tailrace conditions and detection times with those shad that successfully entered the EFL.

### **3.0 RESULTS**

#### **3.1 Radio-tagged Shad Entering EFL**

During the 2010 Upstream Fish Passage Efficiency Study, a total of 89 radio-tagged American shad were detected in the tailrace, of which 65 entered the EFL (65 of 89 = 73%). A total of 40 of the 65 American shad that entered the EFL successfully passed upstream (40 of 65 = 61.5%). Twenty-three of the 40 American shad (57.5%) passed during periods of low generation, (2 or 3 Francis turbines operating) ([Table 3.1-1](#)). Based on the flow bins developed for the Conowingo RSP 3.6 Report ([Table 3.1-2](#)), the discharge of 2 Francis turbines ranges between 7,500 to 17,999 cfs with 3 Francis turbines discharging 18,000 to 27,999 cfs. An additional 4 shad (10%) passed during operation of 4 Francis and 1 Kaplan turbine (flow bin range of 28,000 to 35,999 cfs). Nearly 68% of successful shad passage (27 of 40 shad) occurred during discharges less than 36,000 cfs.

The remaining 13 American shad (32.5%) successfully passed by the EFL when 4 to 7 Francis turbines in conjunction with 1 to 4 Kaplan turbines were operating, (Flow bin ranges: 45,000 to 54,999 cfs, 55,000 to 65,999 cfs, and 66,000 to 80,000 cfs). Five of these 13 shad (38%) passed after 1400 hrs on 7 May with 6 Francis and 3 Kaplan turbines operating ([Table 3.1-1](#)).

Twenty-five of the 65 American shad that entered the EFL did not pass upstream (25 of 65 = 38.5%). These 25 shad made a total of 41 forays into the EFL ([Table 3.1-3](#)). Eighteen forays (43.9%) occurred with 2 or 3 Francis turbines operating (Flow bin ranges of 7,500 to 17,999 cfs and 18,000 to 27,999 cfs). Four forays (9.8%) occurred when 4 Francis units solely were operating (Flow bin range of 18,000 to 27,999 cfs). The remaining 19 forays (46.3%) occurred with 4 to 7 Francis units in combination with 1 to 4 Kaplan turbines. Nine of these 19 forays (47%) occurred during the operation of 4 Francis and 1 Kaplan turbine.

Overall, the 65 tagged shad that entered the EFL made a total of 82 forays (successful and unsuccessful combined). A total of 59 of the 82 EFL forays (72%) occurred during station discharges of 36,000 cfs or less.

Seventeen shad made a single unsuccessful foray inside the EFL ([Table 3.1-4](#)), while 7 shad made multiple unsuccessful forays into the EFL ranging from 2 to 9 forays, ([Table 3.1-5](#)). Nine of the 17 shad (53%) making single unsuccessful forays were inside the EFL when one or more lift cycles were conducted. Six of the 24 multiple forays (25%) occurred during a lift cycle.

[Appendix Table 3](#) describes the period 7 to 12 May, 2010 in which a total of 29 tagged shad passed or failed to pass under similar EFL operating conditions. During this period, twenty-three radio tagged shad

successfully passed while 6 tagged shad failed to pass. One fish, 54-208 passed twice during this time. The average foray time of shad that passed was nearly 30 minutes. The average time of the unsuccessful forays was approximately 20 minutes. Of these twenty-three shad that passed, seven (30%) passed when weir gate C was in use. Sixteen fish (70%) passed when weir gate A was in use. For clarity, entrance gate A is used during any combination of Francis turbines on but no Kaplan turbines operating, and entrance gate C is used any time 1 or more Kaplan turbines are operating in combination with any number of Francis turbines. Six of the eight unsuccessful forays occurred when weir gate A was in use (75%). Shad numbered 21-116 and 21-144 both made 2 unsuccessful forays inside the EFL. During five of the eight unsuccessful forays, shad that failed to pass were present inside the EFL when a lift cycle was conducted (62.5%).

### **3.2 Successful Passage Forays of Radio-tagged Shad prior to EFL Entry**

The forays of American shad that resulted in successful passage in 2010 were compared to station discharges as shad entered various sections of the tailrace prior to EFL entry ([Tables 3.2-1](#) and [3.2-2](#)). Entry into all 3 sections of the tailrace occurred most frequently (57% to 63%) with 2 or 3 Francis turbines operating (Flow bin 1). In 2010, the turbine scenarios of 2 or 3 Francis turbines and no operation of any Kaplan turbines occurred 35.5% of the time during EFL operations ([Table 3.2-3](#)). Flow bins 1, 2, and 3 (flows ranging from 7,500 to 35,999 cfs) accounted for 67% to 73% of shad entry into each tailrace zone, ([Table 3.2-1](#)). Flow bins 6 and 7 (flows ranging from 55,000 to 80,000 cfs) accounted for 23% of shad entering zones E or F (lower tailrace) and the EFL aerial detection zone. Shad detections during discharges of 36,000 to 54,999 cfs (Flow bins 4 and 5) in each tailrace zone ranged from 7.6% to 15.7%.

### **3.3 Unsuccessful Forays of Radio-tagged Shad Prior to Successful Passage**

Eleven of the 40 radio-tagged shad that successfully passed upstream made unsuccessful forays prior to successful passage (RSP 3.6 Conowingo East Fish Lift Attraction Flows). Four of these 11 shad made multiple forays into the EFL prior to successful passage. Station discharge status described by flow bin and turbines operating when radio-tagged shad entered and exited the tailrace during these 23 unsuccessful forays is presented in [Table 3.3-1](#). Eighteen of the 23 forays (78%) started with shad entering the tailrace during the operation of 2 or 3 Francis turbines only (Flow bin 1) while 9 of the 23 forays (39%) ended with the same station discharge. Only 2 forays (8.6%) began as shad entered the tailrace with station discharges correlated to flow bins 5, 6, and 7, although 8 forays (34.7%) ended with the same discharge bins. Note that although the majority of these forays started during low station discharges, they are, ultimately, unsuccessful forays. The high percentage rate of shad entering the tailrace during low station discharges in 2010 may be due to the fact that turbine scenarios of 2 or 3

Francis turbines and no Kaplan turbines operating occurred 35.5% of the time during EFL operations ([Table 3.2-3](#)).

[Table 3.3-2](#) provides a breakdown of the 23 unsuccessful forays described above. For this overview, 2 specific areas of the tailrace (Upper tailrace: Zones A, B, and C and 75 ft detection zones of EFL aerial antennas) were reviewed. As shown in [Table 3.3-2](#), a substantial number of “sub-forays” occur within each overall foray. As these radio-tagged shad move into the tailrace, the fish begin to search for an upstream passage route. Review of the upper tailrace area generally shows a similar pattern to the overall foray pattern described in [Table 3.3-1](#) in that the number of entries into the upper tailrace (94) is higher during the low generation scenario (Flow bin 1) with fewer exits (77) and fewer entries (22 and 17) but more exits from the upper tailrace (32 and 23) during the 2 highest generation scenarios (Flow bins 6 and 7). However, review of the EFL aerial detections does not show any disparity between the entries into or exits from the small EFL aerial detection zones. It is important to note that several of these “sub-forays” could be made by only a few fish providing a false impression of what is actually happening to most of the fish in these specific tailrace zones. [Table 3.3-3](#) compares 5 radio-tagged shad from each category to illustrate that any foray (successful or unsuccessful) is composed of several movements prior to entrance into the EFL which may not be explained only when compared to the turbine generation scenario.

#### **3.4 Forays into the EFL of Radio-tagged Shad That Failed to Pass Upstream**

The disposition of 24 forays with radio-telemetry detection inside the EFL by shad that ultimately failed to pass upstream is shown in [Table 3.4-1](#). A similar number of entries into (11 of 24, 46%) and exits from (12 out of 24, 50%) the tailrace occurred with lower station discharges (Flow bin 1). The remaining entries into and exits from the tailrace were somewhat evenly distributed across the remaining flow bins excepting Flow bin 5 which had no documented entries or exits.

Further review of the “sub-forays” within these 24 forays is shown in [Table 3.4-2](#). As noted earlier, low station discharges (Flow bin 1) coincided with the highest number of entrances (75) into the upper tailrace but also accounted for the highest number of exits (53) from the upper tailrace. Flow bins 2 through 7 all recorded a lower number of entries into the upper tailrace and a slightly higher number of exits from the upper tailrace. As noted before, when reviewing the EFL aerial antenna detection zones, the number of entries into and exits out of these zones is nearly identical for each flow bin.

### 3.5 Forays of Radio-tagged Shad in the Tailrace and No EFL Entry

A total of 25 radio-tagged shad entered the tailrace but did not enter the EFL ([Table 3.5-1](#)). These unsuccessful forays were more evenly distributed among 6 of the 7 flow bins (Flow bin 5=0 forays) as 9 (36%) forays were initiated during flow bin 1 discharge conditions and 6 (24%) occurred during flow bin 6 conditions. Flow bins 4 and 7 each had only 1 foray start during their respective discharge ranges although multiple exits from the tailrace occurred during discharges associated with both of these flow bins.

A closer review of the entries into and exits from the upper tailrace reveals 62% of entries into the upper tailrace occurred during station discharges correlated to flow bins 1 and 4, but these same 2 flow bins also accounted for 48% (55 of 114) of exits from the upper tailrace ([Table 3.5-2](#)). Flow bins 5, 6, and 7 accounted for 26% (30 of 114) of entries into the upper tailrace and nearly 36% (41 of 114) of exits from the upper tailrace.

As noted previously, entries and exits into and out of the EFL aerial detection zones were similar in each flow bin.



#### **4.0 SUMMARY**

In 2010, about 60% of the radio-tagged American shad successfully entered the EFL and/or passed upstream during periods of low station discharge ([Table 3.1-1](#)). The initiation of several shad forays (successful and unsuccessful) into the tailrace also coincided with the operation of 2 or 3 Francis units and no Kaplan turbines operating. It has been noted in annual [SRAFRC reports, \(1997 to 2011\)](#), that a period of low natural river flow tends to be more conducive to overall fish passage. In 2010, low natural river flows (particularly in April) resulted in the occurrence of minimum flow generation (2 Francis turbines; 0 Kaplan turbines) nearly 32% of the time during EFL operation.

Review of successful and unsuccessful forays did not reveal trends or differences to help determine why some forays resulted in successful passage and others failed to pass. Appendix Table 3 summarizes radio-tagged shad that were detected inside the EFL on the same day during similar time periods, but does not provide any insight as to why all of these shad did not pass upstream since the operating conditions they experienced were the same.

The data from the 2012 radio-telemetry study may provide additional information to improve overall fish passage efficiency. In 2012, we conducted a minimum of 2 lifts per hour, and started daily operations at 0600 hrs on an alternate day basis from April 24 through the end of May to compare with fish passage efforts in 2010. EFL operators also documented the “open” and “closed” times of the crowder doors to provide additional information in that specific area of the EFL. Placement of additional radio-telemetry monitors within the EFL and along the east and west shorelines of the river below Conowingo Dam may provide additional foray information as shad move upriver under various station generation scenarios.

## 5.0 DISCUSSION

It is important to note that although a higher percentage of shad successfully entered and/or passed through the EFL (in 2010) at turbine discharges less than 36,000 cfs, natural river flows, inflows to Conowingo Pond, and power demand determine to what extent the power station can discharge a specific amount of water over a certain period of time. In 2010, natural river flows were relatively low, possibly resulting in a higher occurrence of turbine discharges ranging from 7,500 to 36,000 cfs and the use of entrance gate A more often earlier in the season. Although lower discharges may provide better passage conditions, annual spring river flows vary widely, and the station may not be able to provide those conditions on a regular basis or on short notice. Therefore, it is imperative that we attempt to identify specific turbine combinations with higher discharges that result in adequate shad passage as well as improve conditions within the EFL so as to potentially pass all shad that successfully enter the lift.

Review of the 2010 radio-telemetry data suggests that further study of at least 2 turbine scenarios (4 Francis + 1 Kaplan and 6 Francis + 3 Kaplan) is warranted. Although EFL operators dislike the flow pattern observed in the tailrace during the operation of 4 Francis turbines in conjunction with 1 Kaplan turbine (usually #8 or #9), (formation of large eddy that pushes attraction water from entrance gate C into the spillway immediately downstream of the wing wall), 11 forays (4 successful, 7 unsuccessful) into the EFL occurred during this scenario in 2010. Generally, Kaplan turbines 8 and/or 9 were used more often than turbines 10 and 11 due to mechanical problems in 2010. The 2012 radio-telemetry data may provide additional information as units 10 and 11 were repaired and may have been operated in conjunction with 4 Francis units more often than observed in 2010.

Seven forays, 5 that were successful, occurred during the operation of 6 Francis and 3 Kaplan turbines. On 7 May, EFL operations started with the turbine scenario of 4 Francis turbines and 1 Kaplan turbine operating, resulting in the passage of 383 American shad, (2 were radio-tagged), in 6 hours. At approximately 1400 hrs, generation was switched to 6 Francis units and 3 Kaplan turbines, resulting in the passage of 1,960 American shad, (5 were radio-tagged) over the remaining 6 hours of operation. It is difficult to ascertain if the turbine scenario was solely responsible for the respectable catch, but it warrants further review. Also, on 3 May, EFL operations started with only 2 Francis turbines in operation and resulted in the passage of 482 American shad in 5 hours, (2 were radio-tagged). At 1215 hrs, generation switched to the operation of all 7 Francis turbines plus 3 Kaplan turbines, resulting in the passage of 518 American shad over the remaining 6 hours of operation. It is noted in the EFL operators log that Kaplan unit #11 was operating at a 70% setting instead of the normal operational setting due to a mechanical issue. If one or 2 Kaplan turbines are able to operate at some type of reduced setting without

damaging the turbine, it may be another option to consider during periods of higher river flow when Kaplan turbine operation is necessary, to maximize shad passage.

In addition, this analysis of the radio telemetry data only examined the Conowingo Project flow variable, and did not consider directly the effect of other variables such as water temperature and passage season timing (i.e., early run, peak run, late run, etc.).

**TABLE 3.1-1: TURBINE SCENARIO DURING SUCCESSFUL PASSAGE.**

<b>EFL Successful Passage</b>		
<b>Turbine Scenario</b>	<b>Units On</b>	<b>Number of fish Passed</b>
2;0	2,5	14
3;0	2,5,7	9
3;0	2,5,6	1
4;1	2,5,6,7,8	4
4;3	4,5,6,7,8,9,11	1
6;1	2,3,4,5,6,7,8	1
6;2	1,2,3,4,5,6,8,9	1
6;3	2,3,4,5,6,7,8,9,11	5
6;4	2,3,4,5,6,7,8,9,11	2
7;3	1,2,3,4,5,6,7,8,9,11	1
7;4	1,2,3,4,5,6,7,8,9,10,11	2

**TABLE 3.1-2: FLOW BIN DISCHARGE RANGES.**

#	Range
1	7,500-17,999cfs
2	18,000-27,999cfs
3	28,000-35,999cfs
4	36,000-44,999cfs
5	45,000-54,999cfs
6	55,000-65,999cfs
7	66,000-80,000cfs

**TABLE 3.1-3: TURBINE SCENARIOS DURING UNSUCCESSFUL PASSAGE.**

<b>EFL Unsuccessful Passage</b>		
<b>Turbine Scenario</b>	<b>Units On</b>	<b>Number of forays</b>
2;0	5,7	1
2;0	2,5	13
3;0	2,5,7	4
4;0	2,5,6,7	4
4;1	2,5,6,7,8	8
4;1	4,5,6,7,8	1
4;2	2,5,6,7,8,9	3
6;1	2,3,4,5,6,7,8	2
6;2	2,3,4,5,6,7,8,9	1
6;3	2,3,4,5,6,7,8,9,11	2
7;3	1,2,3,4,5,6,7,8,9,11	2

**TABLE 3.1-4: RADIO TAGGED SHAD THAT MADE A SINGLE UNSUCCESSFUL FORAY INTO THE EFL.**

<b>Unsuccessful Single Foray Fish</b>		
<b>Fish ID</b>	<b>Present inside of EFL during a lift</b>	<b>If present, # of lifts during occupation of the EFL</b>
21-100	yes	2
21-104	no	
21-109	yes	1
21-115	yes	8
21-120	no	
21-129	yes	1
21-156	no	
21-159	no	
54-137	yes	3
54-149	yes	2
54-151	no	
54-156	yes	1
54-178	yes	1
54-186	yes	1
54-209	no	
54-211	no	
54-200-2	no	

**TABLE 3.1-5: RADIO TAGGED SHAD THAT MADE MULTIPLE UNSUCCESSFUL FORAYS INTO THE EFL.**

<b>Unsuccessful Multiple Foray Fish</b>				
<b>Fish ID</b>	<b>Number of Forays Attempted</b>	<b>Foray Number</b>	<b>Present inside of EFL during a lift</b>	<b>If present, # of lifts during occupation of the EFL</b>
21-116	3	1	yes	1
		2	no	
		3	Tour group no lift time	
21-141	2	1	yes	1
		2	no	
21-142	3	1	no	
		2	no	
		3	no	
21-143	2	1	no	
		2	no	
21-144	3	1	yes	1
		2	yes	1
		3	no	
54-167	9	1	yes	1
		2	no	
		3	no	
		4	no	
		5	no	
		6	yes	1
		7	no	
		8	no	
		9	no	
54-176	2	1	no	
		2	no	



**TABLE 3.2-1: STATION DISCHARGES RELATED TO ENTRY OF RADIO-TAGGED AMERICAN SHAD INTO SPECIFIC TAILRACE ZONES DURING SUCCESSFUL PASSAGE FORAYS.**

Flow Bin #*	Turbines on during entry into Zones E or F	# of Forays	Turbines on during entry into Zones A,B, or C	# of Forays	Turbines on during EFL Aerial Detection	# of Forays
1	2,5	9	2,5	17	2,5	13
1	3,5	1	3,5	2	3,5	1
1	5,7	2	5,7	4	5,7	8
1	2,5,6	3	2,5,6	1	2,5,6	1
2	2,3,5,10	1	NA	NA	NA	NA
3	2,5,6,7,8	1	2,5,6,7,8	4	2,5,6,7,8	4
3	1,2,5,7,11	1	NA	NA	NA	NA
4	2,5,6,7,8,9	2	2,5,6,7,8,9	2	2,5,6,7,8,9	1
4	NA	NA	3,4,5,6,7,8	2	NA	NA
5	NA	NA	1-6,8,9	1	1-6,8,9	1
5	NA	NA	1,2,4,5,7,8,9,10	1	NA	NA
5	NA	NA	NA	NA	4-7,8,9,11	1
5	NA	NA	NA	NA	2-7,8	1
6	2-6,8-11	1	NA	NA	2-6,8-11	1
6	1-7,8,9,11	1	1-7,8,9,11	1	1-7,8,9,11	1
6	NA	NA	NA	NA	2-7,8,9,11	5
7	2-7, 8-11	2	2-7,8-11	1	2-7,8-11	1
7	1-7,8-11	2	1-7,8-11	2	1-7,8-11	1
<b>Total forays/ group</b>		<b>26</b>		<b>38</b>		<b>40</b>

**TABLE 3.2-2: ENTRY OF RADIO-TAGGED SHAD INTO 3 SPECIFIC TAILRACE ZONES AS COMPARED TO FLOW BINS.**

<b>Flow Bin #</b>	<b>% of Forays into Zones E or F</b>	<b>% of Forays into Zones, A,B,C</b>	<b>% EFL Aerial Dectection</b>
1	57.6	63.0	57.5
2	3.8	0.0	0.0
3	7.6	10.5	10.0
4	7.6	10.5	2.5
5	0.0	5.2	7.5
6	7.6	2.6	17.5
7	15.3	7.8	5.0

**TABLE 3.2-3: TURBINE GENERATION SCENARIOS AND PERCENT OCCURRENCE DURING CONOWINGO EAST FISH LIFT OPERATIONS IN 2010.**

<u>No. Francis turbines</u>	<u>No. Kaplan Turbines</u>	<u>% Occurrence during Lift Operations</u>
2	0	31.9%
3	0	3.6%
3	1	2.1%
4	0	7.4%
4	1	7.7%
4	2	15.9%
4	3	1.7%
5	0	0.1%
5	1	0.2%
5	4	0.6%
6	1	5.0%
6	2	2.1%
6	3	5.6%
6	4	4.3%
7	3	7.1%
7	4	4.7%

**TABLE 3.3-1: UNSUCCESSFUL FORAYS BY RADIO-TAGGED SHAD PRIOR TO SUCCESSFUL PASSAGE THROUGH EFL.**

Flow Bin #	Entered Tailrace		Exited Tailrace	
	Turbines Operating	# of Forays	Turbines Operating	# of Forays
1	2,5	8	2,5	3
1	5,7	9	5,7	5
1	3,5	1	3,5	0
1	2,5,6	0	2,5,6	1
<b>Total Forays</b>		<b>18</b>		<b>9</b>
2	4,5,6,7	0	4,5,6,7	1
<b>Total Forays</b>		<b>0</b>		<b>1</b>
3	3,4,5,6,7	1	3,4,5,6,7	1
3	4,5,6,7,8	1	4,5,6,7,8	0
3	1,2,5,7,11	0	1,2,5,7,11	1
3	2,3,5,7,11	0	2,3,5,7,11	1
<b>Total Forays</b>		<b>2</b>		<b>3</b>
4	2,5,6,7,8,9	1	2,5,6,7,8,9	1
4	4,5,6,7,8,9	0	4,5,6,7,8,9	1
<b>Total Forays</b>		<b>1</b>		<b>2</b>
5	2,3,5,6,8,9,11	1	2,3,5,6,8,9,11	1
5	1,2,3,4,5,6,8,9	1	1,2,3,4,5,6,8,9	1
5	1,2,3,4,5,6,7,8,9,11	0	1,2,3,4,5,6,7,8,9,11	2
<b>Total Forays</b>		<b>2</b>		<b>4</b>
6	2,3,4,5,6,8,9,10,11	0	2,3,4,5,6,8,9,10,11	1
6	2,3,4,5,6,7,8,10,11	0	2,3,4,5,6,7,8,10,11	1
6	1,2,3,4,5,6,7,8,9,11	0	1,2,3,4,5,6,7,8,9,11	1
<b>Total Forays</b>		<b>0</b>		<b>3</b>
7	2,3,4,5,6,7,8,9,10,11	0	2,3,4,5,6,7,8,9,10,11	1
<b>Total Forays</b>		<b>0</b>		<b>1</b>
<b>Overall Total Forays</b>		<b>23</b>		<b>23</b>

**TABLE 3.3-2: BREAKDOWN OF UNSUCCESSFUL FORAYS PRIOR TO SUCCESSFUL PASSAGE THROUGH EFL.**

Entered Upper Tailrace			Exited Upper Tailrace		Entered EFL Aerial			Exited EFL Aerial	
Flow Bin #	Turbines Operating	Number of Forays	Turbines Operating	Number of Forays	Flow Bin #	Turbines Operating	Number of Forays	Turbines Operating	Number of Forays
1	2,5	60	2,5	46	1	2,5	72	2,5	72
1	3,5	8	3,5	6	1	5,7	4	5,7	5
1	4,5	2	4,5	1	1	2,3,5	3	2,3,5	3
1	5,6	2	5,6	2	1	2,5,6	6	2,5,6	6
1	5,7	20	5,7	15	1	2,5,9	4	2,5,9	4
1	6,7	0	6,7	1	<b>Total Forays</b>		<b>89</b>		<b>90</b>
1	2,5,6	2	2,5,6	4	2	2,5,6,7	2	2,5,6,7	1
1	2,5,7	0	2,5,7	2	2	2,3,5,10	7	2,3,5,10	7
<b>Total Forays</b>		<b>94</b>		<b>77</b>	<b>Total Forays</b>		<b>9</b>		<b>8</b>
2	2,4,5,7	14	2,4,5,7	15	3	1,2,5,7,11	1	1,2,5,7,11	1
2	4,5,6,7	5	4,5,6,7	8	3	2,5,6,7,8	9	2,5,6,7,8	10
<b>Total Forays</b>		<b>19</b>		<b>23</b>	3	3,4,5,6,7	4	3,4,5,6,7	4
3	2,5,6,7,8	6	2,5,6,7,8	4	3	4,5,6,7,8	3	4,5,6,7,8	3
3	4,5,6,7,8	3	4,5,6,7,8	3	3	2,3,4,5,6,7	2	2,3,4,5,6,7	2
3	2,3,4,5,6,7	3	2,3,4,5,6,7	5	<b>Total Forays</b>		<b>19</b>		<b>20</b>
<b>Total Forays</b>		<b>12</b>		<b>12</b>	4	1,2,5,9,10,11	4	1,2,5,9,10,11	4
4	2,5,6,7,8,9	13	2,5,6,7,8,9	14	4	2,5,6,7,8,11	0	2,5,6,7,8,11	1
4	4,5,6,7,8,9	10	4,5,6,7,8,9	6	4	2,5,6,7,8,9	20	2,5,6,7,8,9	20
4	1,2,5,9,10,11	1	1,2,5,9,10,11	0	4	3,4,5,6,7,8	2	3,4,5,6,7,8	1
4	2,3,4,5,6,7,8	11	2,3,4,5,6,7,8	11	4	2,3,4,5,6,7,8	6	2,3,4,5,6,7,8	5
<b>Total Forays</b>		<b>35</b>		<b>31</b>	<b>Total Forays</b>		<b>32</b>		<b>31</b>
5	3,4,6,7,8,9,11	3	3,4,6,7,8,9,11	3	5	1,2,3,4,5,6,8,9	3	1,2,3,4,5,6,8,9	3
5	1,2,3,4,5,6,8,9	2	1,2,3,4,5,6,8,9	0	5	1,2,4,5,7,8,9,10	1	1,2,4,5,7,8,9,10	1
5	2,3,4,5,6,7,8,9	2	2,3,4,5,6,7,8,9	5	<b>Total Forays</b>		<b>4</b>		<b>4</b>
<b>Total Forays</b>		<b>7</b>		<b>8</b>	6	2,3,4,5,6,7,8,9,11	16	2,3,4,5,6,7,8,9,11	16
6	2,3,4,5,6,7,8,9	1	2,3,4,5,6,7,8,9	3	6	2,3,4,5,6,8,9,10,11	3	2,3,4,5,6,8,9,10,11	3
6	2,3,4,5,6,7,8,9,10	4	2,3,4,5,6,7,8,9,10	5	6	1,2,3,4,5,6,7,8,9,11	12	1,2,3,4,5,6,7,8,9,11	11
6	2,3,4,5,6,7,8,9,11	6	2,3,4,5,6,7,8,9,11	7	6	1,2,3,4,5,6,7,9,10,11	2	1,2,3,4,5,6,7,9,10,11	2
6	1,2,3,4,5,6,7,8,9,11	8	1,2,3,4,5,6,7,8,9,11	14	<b>Total Forays</b>		<b>33</b>		<b>32</b>
6	1,2,3,4,5,6,7,9,10,11	3	1,2,3,4,5,6,7,9,10,11	3	7	2,3,4,5,6,7,8,9,10,11	6	2,3,4,5,6,7,8,9,10,11	7
<b>Total Forays</b>		<b>22</b>		<b>32</b>	7	1,2,3,4,5,6,7,8,9,10,11	5	1,2,3,4,5,6,7,8,9,10,11	5
7	1,2,3,4,5,6,7,8,9,11	2	1,2,3,4,5,6,7,8,9,11	2	<b>Total Forays</b>		<b>11</b>		<b>12</b>
7	2,3,4,5,6,7,8,9,10,11	11	2,3,4,5,6,7,8,9,10,11	14					
7	1,2,3,4,5,6,7,8,9,10,11	4	1,2,3,4,5,6,7,8,9,10,11	7					
<b>Total Forays</b>		<b>17</b>		<b>23</b>					
<b>Overall Total Forays</b>		<b>206</b>		<b>206</b>	<b>Overall Total Forays</b>		<b>197</b>		<b>197</b>

**TABLE 3.3-3: COMPARISON OF SHAD FORAYS BY MOVEMENT CLASSIFICATION.**

Fish ID	Movement Classification	Known Foray Counts		
		Lower Tailrace	Upper Tailrace	EFL Aerial
21-116	EFL without Passage	1	9	14
21-120	EFL without Passage	1	1	4
21-129	EFL without Passage	1	12	8
21-141	EFL without Passage	1	7	19
21-142	EFL without Passage	0	7	46
21-112	Passage	1	9	4
21-113	Passage	3	22	10
21-114	Passage	1	4	3
21-119	Passage	0	7	5
21-121	Passage	0	6	4
21-101	Tailrace without EFL	0	2	1
21-102	Tailrace without EFL	0	5	1
21-105	Tailrace without EFL	3	7	2
21-110	Tailrace without EFL	0	3	0
21-111	Tailrace without EFL	4	21	6

**TABLE 3.4-1: FORAYS INTO THE EFL BY RADIO-TAGGED SHAD THAT FAILED TO PASS UPSTREAM.**

Flow Bin Number	Entered Tailrace	# of Forays	Exited Tailrace	# of Forays
1	2,5	6	2,5	6
1	4,5	1	4,5	0
1	5,7	4	5,7	5
1	2,5,6	0	2,5,6	1
<b>Total Forays</b>		<b>11</b>		<b>12</b>
2	2,5,6,7	1	2,5,6,7	2
2	2,3,5,10	1	2,3,5,10	1
<b>Total Forays</b>		<b>2</b>		<b>3</b>
3	2,5,6,7,8	1	2,5,6,7,8	0
3	3,4,5,6,7	1	3,4,5,6,7	0
3	4,5,6,7,8	1	4,5,6,7,8	0
3	2,3,5,7,11	1	2,3,5,7,11	2
<b>Total Forays</b>		<b>4</b>		<b>2</b>
4	2,5,6,7,8,9	1	2,5,6,7,8,9	2
4	4,5,6,7,8,9	1	4,5,6,7,8,9	1
4	1,2,5,9,10,11	1	1,2,5,9,10,11	1
<b>Total Forays</b>		<b>3</b>		<b>4</b>
5	NA			
<b>Total Forays</b>	NA			
6	2,3,4,5,6,7,8,9,11	3	2,3,4,5,6,7,8,9,11	2
6	1,2,3,4,5,6,7,8,9,11	1	1,2,3,4,5,6,7,8,9,11	0
<b>Total Forays</b>		<b>4</b>		<b>2</b>
7	2,3,4,5,6,7,8,9,10,11	0	2,3,4,5,6,7,8,9,10,11	1
<b>Total Forays</b>		<b>0</b>		<b>1</b>
<b>Overall Total Forays</b>		<b>24</b>		<b>24</b>

**TABLE 3.4-2: BREAKDOWN OF FORAYS INTO THE EFL BY RADIO-TAGGED SHAD THAT FAILED TO PASS UPSTREAM.**

Flow Bin Number	Entered Upper Tailrace	# of Forays	Exited Upper Tailrace	# of Forays	Flow Bin Number	Entered Aerial Zone	# of Forays	Exited Aerial Zone	Number of Forays
1	2,5	59	2,5	32	1	2,5	95	2,5	93
1	3,5	1	3,5	1	1	5,6	1	5,6	1
1	4,5	2	4,5	3	1	5,7	1	5,7	1
1	5,7	11	5,7	11	1	6,7	1	6,7	1
1	2,3,5	1	2,3,5	1	1	2,5,6	5	2,5,6	5
1	2,5,6	0	2,5,6	4	1	2,5,7	5	2,5,7	5
1	2,5,9	1	2,5,9	1					
<b>Total Forays</b>		<b>75</b>		<b>53</b>	<b>Total Forays</b>		<b>108</b>		<b>106</b>
2	2,3,5	0	2,3,5	1	2	2,5,6,7	3	2,4,5,7	2
2	2,5,6,7	3	2,5,6,7	1	2	2,5,7,8	0	2,5,7,8	1
2	4,5,6,7	1	4,5,6,7	1	2	2,4,5,6,7	1	2,4,5,6,7	1
2	2,3,5,10	1	2,3,5,10	3					
<b>Total Forays</b>		<b>5</b>		<b>6</b>	<b>Total Forays</b>		<b>4</b>		<b>4</b>
3	3,4,9,11	0	3,4,9,11	2	3	2,5,6,7,8	13	2,5,6,7,8	12
3	3,4,5,6,7	2	3,4,5,6,7	2					
3	4,5,6,7,8	2	4,5,6,7,8	2	3	4,5,6,7,8	0	4,5,6,7,8	1
3	2,5,6,7,8	8	2,5,6,7,8	7					
3	1,5,7,9,11	3	1,5,7,9,11	3	3	2,3,4,5,6,7	8	2,3,4,5,6,7	8
3	2,3,4,5,6,7	1	2,3,4,5,6,7	3					
3	2,3,5,7,11	0	2,3,5,7,11	1					
3	2,5,6,7,8,9	0	2,5,6,7,8,9	2					
<b>Total Forays</b>		<b>16</b>		<b>22</b>	<b>Total Forays</b>		<b>21</b>		<b>21</b>
4	2,5,6,7,8,9	7	2,5,6,7,8,9	9	4	2,4,5,6,7,8	4	2,4,5,6,7,8	4
4	2,3,4,5,9,11	0	2,5,6,7,8,11	3	4	2,5,6,7,8,11	2	2,5,6,7,8,11	2
4	3,4,5,6,7,8	3	3,4,5,6,7,8	2	4	2,5,6,7,8,9	23	2,5,6,7,8,9	24
4	4,5,6,7,8,9	8	4,5,6,7,8,9	4	4	4,5,6,7,8,9	1	4,5,6,7,8,9	1
4	1,2,5,9,10,11	0	1,2,5,9,10,11	5	4	2,3,4,5,6,7,8	5	2,3,4,5,6,7,8	5
4	2,3,4,5,6,7,8	10	2,3,4,5,6,7,8	6					
4	4,5,6,7,8,9,11	0	4,5,6,7,8,9,11	2					
<b>Total Forays</b>		<b>28</b>		<b>31</b>	<b>Total Forays</b>		<b>35</b>		<b>36</b>
5	2,3,4,5,6,7,8	0	2,3,4,5,6,7,8	2	5	3,4,6,7,8,9,11	4	3,4,6,7,8,9,11	4
5	4,5,6,7,8,9,11	1	4,5,6,7,8,9,11	1	5	1,2,3,4,5,6,8,9	1	1,2,3,4,5,6,8,9	1
5	1,2,3,4,5,6,8,9	0	1,2,3,4,5,6,8,9	1	5	2,3,4,5,6,7,8,11	1	2,3,4,5,6,7,8,11	1
5					5	2,3,4,5,6,7,8,9	2	2,3,4,5,6,7,8,9	2
5					5	2,4,5,6,7,8,9,11	2	2,4,5,6,7,8,9,11	1
<b>Total Forays</b>		<b>1</b>		<b>2</b>	<b>Total Forays</b>		<b>10</b>		<b>9</b>
6	2,3,4,5,6,7,8,9,11	4	2,3,4,5,6,7,8,9,11	5	6	2,3,4,5,6,7,8,9,11	19	2,3,4,5,6,7,8,9,11	21
6	1,2,3,4,5,6,7,9,10,11	6	1,2,3,4,5,6,7,9,10,11	8	6	1,2,3,4,5,6,7,8,9,10	1	1,2,3,4,5,6,7,8,9,10	1
6					6	1,2,3,4,5,6,7,8,9,11	10	1,2,3,4,5,6,7,8,9,11	10
6					6	2,3,4,5,6,7,8,9,10,11	0	2,3,4,5,6,7,8,9,10,11	1
<b>Total Forays</b>		<b>10</b>		<b>13</b>	<b>Total Forays</b>		<b>30</b>		<b>33</b>
7	2,3,4,5,6,7,8,9,11	0	2,3,4,5,6,7,8,9,11	1	7	2,3,4,5,6,7,8,9,10,11	10	2,3,4,5,6,7,8,9,10,11	10
7	2,3,4,5,6,7,8,9,10,11	3	2,3,4,5,6,7,8,9,10,11	7	7	1,2,3,4,5,6,7,8,9,10,11	25	1,2,3,4,5,6,7,8,9,10,11	24
7	1,2,3,4,5,6,7,8,9,10,11	9	1,2,3,4,5,6,7,8,9,10,11	10					
<b>Total Forays</b>		<b>12</b>		<b>18</b>	<b>Total Forays</b>		<b>35</b>		<b>34</b>
<b>Overall Total Forays</b>		<b>147</b>		<b>147</b>	<b>Overall Total Forays</b>		<b>243</b>		<b>243</b>



**TABLE 3.5-1: FORAYS OF RADIO-TAGGED SHAD IN THE CONOWINGO TAILRACE WITHOUT EFL ENTRY.**

Flow Bin Number	Entered Tailrace	# of Forays	Exited Tailrace	# of Forays
1	2,5	3	2,5	4
1	5,6	1	5,6	0
1	5,7	5	5,7	3
1	2,5,7	0	2,5,7	1
<b>Total Forays</b>		<b>9</b>		<b>8</b>
2	2,5,6,7	2	2,5,6,7	0
2	4,5,6,7	2	4,5,6,7	0
<b>Total Forays</b>		<b>4</b>		<b>0</b>
3	2,5,6,7,8	1	2,5,6,7,8	0
3	4,5,6,7,8	1	4,5,6,7,8	1
3	2,3,4,5,6,7	2	2,3,4,5,6,7	1
<b>Total Forays</b>		<b>4</b>		<b>2</b>
4	2,5,6,7,8,9	1	2,5,6,7,8,9	2
4	4,5,6,7,8,9	0	4,5,6,7,8,9	2
<b>Total Forays</b>		<b>1</b>		<b>4</b>
5	NA		NA	
<b>Total Forays</b>		<b>0</b>		<b>0</b>
6	2,3,4,5,6,7,8,9,11	2	2,3,4,5,6,7,8,9,11	3
6	1,2,3,4,5,6,7,8,9,11	3	1,2,3,4,5,6,7,8,9,11	2
6	1,2,3,4,5,6,7,9,10,11	1	1,2,3,4,5,6,7,9,10,11	0
<b>Total Forays</b>		<b>6</b>		<b>5</b>
7	2,3,4,5,6,7,8,9,10,11	1	2,3,4,5,6,7,8,9,10,11	5
7	1,2,3,4,5,6,7,8,9,10,11	0	1,2,3,4,5,6,7,8,9,10,11	1
<b>Total Forays</b>		<b>1</b>		<b>6</b>
<b>Overall Total Forays</b>		<b>25</b>		<b>25</b>

**TABLE 3.5-2: BREAKDOWN OF FORAYS INTO THE CONOWINGO TAILRACE WITHOUT EFL ENTRY.**

Flow Bin Number	Entered Upper Tailrace	# of Forays	Exited Upper Tailrace	# of Forays	Flow Bin Number	Entered Aerial Zone	# of Forays	Exited Aerial Zone	# of Forays
1	2,5	29	2,5	14	1	2,5	8	2,5	8
1	3,5	1	3,5	1	1	3,5	1	3,5	1
1	4,5	2	4,5	1	1	4,5	1	4,5	1
1	5,6	2	5,6	2	1	2,5,7	3	2,5,7	3
1	5,7	14	5,7	10	1	2,5,7	3	2,5,7	3
1	2,5,6	0	2,5,6	1	1	2,5,7	3	2,5,7	3
1	2,5,7	0	2,5,7	1	1	2,5,9	0	2,5,9	1
1	2,5,9	0	2,5,9	1	1	2,5,9	0	2,5,9	1
<b>Total Forays</b>		<b>48</b>		<b>31</b>	<b>Total Forays</b>		<b>13</b>		<b>13</b>
2	2,3,4,5	0	2,3,4,5	1	2	4,5,6,7	1	4,5,6,7	1
2	2,4,5,7	2	2,4,5,7	1	2	4,5,6,7	1	4,5,6,7	1
2	2,5,6,7	0	2,5,6,7	1	2	4,5,6,7	1	4,5,6,7	1
2	4,5,6,7	4	4,5,6,7	6	2	4,5,6,7	1	4,5,6,7	1
<b>Total Forays</b>		<b>6</b>		<b>9</b>	<b>Total Forays</b>		<b>1</b>		<b>1</b>
3	4,5,6,7	1	4,5,6,7	1	3	2,5,6,7,8	3	2,5,6,7,8	5
3	2,5,6,7,8	2	2,5,6,7,8	3	3	4,5,6,7,8	1	4,5,6,7,8	1
3	3,4,5,6,7	1	3,4,5,6,7	1	3	2,3,4,5,6,7	1	2,3,4,5,6,7	1
3	4,5,6,7,8	1	4,5,6,7,8	2	3	2,3,4,5,6,7	1	2,3,4,5,6,7	1
3	2,3,4,5,6,7	2	2,3,4,5,6,7	2	3	2,3,4,5,6,7	1	2,3,4,5,6,7	1
<b>Total Forays</b>		<b>7</b>		<b>9</b>	<b>Total Forays</b>		<b>5</b>		<b>7</b>
4	2,4,5,6,7,8	3	2,4,5,6,7,8	1	4	2,5,6,7,8,9	6	2,5,6,7,8,9	4
4	2,5,6,7,8,9	3	2,5,6,7,8,9	5	4	1,2,5,9,10,11	1	1,2,5,9,10,11	1
4	3,4,5,6,7,8	1	3,4,5,6,7,8	0	4	1,2,5,9,10,11	1	1,2,5,9,10,11	1
4	4,5,6,7,8,9	11	4,5,6,7,8,9	13	4	2,3,4,5,6,7,8	2	2,3,4,5,6,7,8	1
4	1,2,5,9,10,11	0	1,2,5,9,10,11	1	4	2,3,4,5,6,7,8	2	2,3,4,5,6,7,8	1
4	2,3,4,5,6,7,8	5	2,3,4,5,6,7,8	4	4	2,3,4,5,6,7,8	2	2,3,4,5,6,7,8	1
<b>Total Forays</b>		<b>23</b>		<b>24</b>	<b>Total Forays</b>		<b>9</b>		<b>6</b>
5	3,4,6,7,8,9,11	1	3,4,6,7,8,9,11	0	5	1,2,3,4,5,6,8,9	1	1,2,3,4,5,6,8,9	1
5	4,5,6,7,8,9,11	0	4,5,6,7,8,9,11	1	5	1,2,3,4,5,6,8,9	1	1,2,3,4,5,6,8,9	1
5	2,3,4,5,6,7,8,9	1	2,3,4,5,6,7,8,9	0	5	2,3,4,5,6,7,8,9	1	2,3,4,5,6,7,8,9	1
5	1,2,3,4,5,6,8,9	1	1,2,3,4,5,6,8,9	2	5	2,3,4,5,6,7,8,9	1	2,3,4,5,6,7,8,9	1
5	2,3,4,5,6,7,8,9	0	2,3,4,5,6,7,8,9	2	5	2,3,4,5,6,7,8,9	1	2,3,4,5,6,7,8,9	1
<b>Total Forays</b>		<b>3</b>		<b>5</b>	<b>Total Forays</b>		<b>2</b>		<b>2</b>
6	2,3,4,5,6,7,8,9,11	10	2,3,4,5,6,7,8,9,11	13	6	2,3,4,5,6,7,8,9,11	1	2,3,4,5,6,7,8,9,11	1
6	1,2,3,4,5,6,7,8,9,10	0	1,2,3,4,5,6,7,8,9,10	1	6	1,2,3,4,5,6,7,9,10,11	3	1,2,3,4,5,6,7,9,10,11	3
6	1,2,3,4,5,6,7,8,9,11	6	1,2,3,4,5,6,7,8,9,11	5	6	1,2,3,4,5,6,7,9,10,11	3	1,2,3,4,5,6,7,9,10,11	3
6	1,2,3,4,5,6,7,9,10,11	2	1,2,3,4,5,6,7,9,10,11	2	6	1,2,3,4,5,6,7,9,10,11	3	1,2,3,4,5,6,7,9,10,11	3
<b>Total Forays</b>		<b>18</b>		<b>21</b>	<b>Total Forays</b>		<b>4</b>		<b>4</b>
7	2,3,4,5,6,7,8,9,10,11	4	2,3,4,5,6,7,8,9,10,11	9	7	2,3,4,5,6,7,8,9,10,11	3	2,3,4,5,6,7,8,9,10,11	4
7	1,2,3,4,5,6,7,8,9,10,11	5	1,2,3,4,5,6,7,8,9,10,11	6	7	1,2,3,4,5,6,7,8,9,10,11	3	1,2,3,4,5,6,7,8,9,10,11	3
<b>Total Forays</b>		<b>9</b>		<b>15</b>	<b>Total Forays</b>		<b>6</b>		<b>7</b>
<b>Overall Total Forays</b>		<b>114</b>		<b>114</b>	<b>Overall Total Forays</b>		<b>40</b>		<b>40</b>

## **REFERENCES**

Conowingo RSP 3.5 Upstream Fish Passage Effectiveness Study 2011.

Updated Study Report Conowingo East Fish Lift Attraction Flows – Addendum – Statistical Analysis of Turbine Operation and East Fish Lift Catch RSP 36 Jan 2012.

1997-2011, Susquehanna River Anadromous Fish Restoration Cooperation, Annual Reports.

## **APPENDICES**

**APPENDIX A-1, A-2, and A-3: 2010 CONO EFL TELEMETRY SHAD CHARTS.**

Fish ID	Date	EFL Entry hh:mm:ss	Last Lower Dection hh:mm:ss	Last Lower Dection Location	Exit Trough Time hh:mm:ss	Foray Duration Time hh:mm:ss	Weir Gate Entered	Weir Gate Percent Open Setting	Lift Time hh:mm	Passage (Y/N)	Entrance Weir Gate Velocity (fps)	Tailwater Elevation	Water Temperature (Daily Average)	Hourly Gizzard Shad Passage	Hourly Am. Shad Passage	Lift Operation Status
54-201	4/30/2010	9:14:05	9:52:19	"A" Gate Crowder Dropper	10:12:00	0:38:14	C	45	10:00	Y	3.60	18.79	60.8	1,670	38	Y
54-197	5/3/2010	8:11:13	8:43:46	"C" Gate Entrance Dropper	10:20:17	0:32:33	A	97	08:55 or 09:36	Y	4.70	14.40	63.5	1,200	148	Y
54-204	5/3/2010	8:21:30	8:40:12	"A" Gate Crowder Dropper	10:13:20	0:18:42	A	97	08:55 or 09:35	Y	4.70	14.40	63.5	1,200	148	Y
54-202	5/5/2010	14:12:25	14:14:03	"A" Gate Crowder Dropper	15:30:06	0:01:38	C	48	14:40 or 15:15	Y	3.50	20.39	66.3	1,900	39	Y
54-203	5/6/2010	9:27:31	10:08:11	<b>"C" Gate Entrance Dropper</b>	11:33:42	0:40:40	A	85	10:40	Y	4.00	15.45	66.5	600	131	Y
21-127	5/7/2010	11:57:50	12:00:51	"A" Gate Crowder Dropper	14:20:56	0:03:01	C	65	12:15	Y	4.50-4.30	17.87	70	1,836	144	Y
21-135	5/7/2010	12:05:39	12:14:30	"A" Gate Crowder Dropper	12:46:56	0:08:51	C	65	12:15	Y	4.30	17.87	70	2,054	79	Y
54-198	5/7/2010	15:46:21	15:53:45	"A" Gate Crowder Dropper	16:39:46	0:07:24	C	48	16:15	Y	3.80	19.81	70	2,305	368	Y
21-119	5/7/2010	16:15:34	17:04:30	<b>"A" Gate Entrance Dropper</b>	18:13:15	0:48:56	C	48	17:20	Y	3.80	19.70	70	2,392	459	Y
54-207	5/7/2010	16:42:31	16:52:57	"A" Gate Crowder Dropper	17:58:54	0:10:26	C	48	17:20	Y	3.80	19.70	70	3,309	500	Y
21-121	5/7/2010	17:34:15	17:38:18	"A" Gate Crowder Dropper	18:38:16	0:04:03	C	48	17:50	Y	3.80	19.61	70	2,392	459	Y
54-199	5/7/2010	18:10:22	18:10:51	"A" Gate Crowder Dropper	18:46:28	0:00:29	C	48	18:20	Y	3.60	19.55	70	2,392	459	Y
21-112	5/8/2010	8:31:22	8:37:50	"A" Gate Crowder Dropper	8:54:43	0:06:28	A	85	8:40	Y	4.10	14.45	70.7	672	233	Y
21-132	5/8/2010	9:28:41	10:09:40	"A" Gate Crowder Dropper	10:46:00	0:40:59	A	85	10:15	Y	4.40	14.46	70.7	834	677	Y
21-114	5/8/2010	10:30:03	10:53:15	"A" Gate Crowder Dropper	11:29:21	0:23:12	A	85	11:00	Y	4.70	14.47	70.7	1,877	586	Y
21-124	5/8/2010	10:45:22	11:12:17	"A" Gate Crowder Dropper	12:48:36	0:26:55	A	85	11:45	Y	4.70-4.50	14.47	70.7	1,801	134	Y
21-122	5/8/2010	10:46:35	10:56:55	"A" Gate Crowder Dropper	11:30:20	0:10:20	A	85	11:00	Y	4.70-4.50	14.47	70.7	1,877	586	Y
54-208	5/11/2010	13:52:40	14:42:55	"A" Gate Crowder Dropper	15:25:25	0:50:15	A	82	15:00	Y	4.40	15.51	67.1	214	97	Y
54-191	5/11/2010	16:12:34	17:49:25	"A" Gate Crowder Dropper	18:08:09	1:36:51	A	88	18:00	Y	4.30-4.50	15.12	67.1	41	61	Y
54-158	5/12/2010	10:13:46	10:26:10	<b>"C" Gate Entrance Dropper</b>	12:35:47	0:12:24	A	80	11:30	Y	4.00	18.44	65.7	800	400	Y
54-168	5/12/2010	10:39:03	12:11:00	"A" Gate Crowder Dropper	12:42:20	1:31:57	A	80	12:15	Y	4.00	16.59	65.7	800	400	Y
21-154	5/12/2010	10:55:18	11:46:18	"A" Gate Crowder Dropper	12:31:41	0:51:00	A	80	12:15	Y	4.00	16.49	65.7	800	400	Y
21-113	5/12/2010	13:08:06	13:18:32	"A" Gate Crowder Dropper	14:09:31	0:10:26	A	80	13:45	Y	4.50-4.30	16.70	65.7	900	203	Y
21-174	5/12/2010	13:57:50	14:08:15	"A" Gate Crowder Dropper	15:06:18	0:10:25	A	80	14:38	Y	4.30	16.75	65.7	500	256	Y
21-146	5/12/2010	15:16:18	15:40:13	"A" Gate Crowder Dropper	16:31:10	0:23:55	A	87	16:00	Y	4.40	16.80	65.7	150	217	Y
54-208* passed twice	5/12/2010	15:17:10	17:13:49	"A" Gate Crowder Dropper	18:12:07	1:56:39	A	87	17:30	Y	5.0-4.9	16.82	65.7	75	182	Y
54-210	5/12/2010	15:41:01	15:48:47	<b>"C" Gate Entrance Dropper</b>	17:25:44	0:07:46	A	87	16:00	Y	4.40	16.80	65.7	800	312	Y
21-170	5/12/2010	17:11:00	17:17:23	"A" Gate Crowder Dropper	17:51:05	0:06:23	A	87	17:30	Y	4.90	16.07	65.7	800	312	Y
54-138	5/15/2010	11:29:20	12:10:07	<b>"A" Gate Entrance Dropper</b>	12:22:22	0:40:47	C	60	12:10	Y	4	18.44	64.4	819	64	Y
21-149	5/17/2010	12:39:00	12:45:41	<b>"A" Gate Entrance Dropper</b>	13:40:11	0:06:41	C	45	12:50	Y	3.50	20.94	63.5	2,558	121	Y
54-160	5/20/2010	16:54:03	17:10:53	"A" Gate Crowder Dropper	17:36:33	0:16:50	A	90	17:15	Y	4.30	16.50	65.7	200	74	Y
54-164	5/21/2010	14:46:09	14:59:22	<b>"A" Gate Entrance Dropper</b>	15:45:33	0:13:13	C	38	15:05	Y	3.30	20.40	66.8	1,528	48	Y
21-169	5/22/2010	8:54:27	9:03:46	<b>"C" Gate Entrance Dropper</b>	9:25:15	0:09:19	A	92	9:10	Y	4.80-4.70	15.07	67.1	222	32	Y
54-140	5/22/2010	14:27:46	14:58:03	"A" Gate Crowder Dropper	16:00:39	0:30:17	C	60	15:30	Y	4.40	18.99	67.1	772	12	Y
54-169	5/23/2010	14:36:53	14:59:07	"A" Gate Crowder Dropper	16:07:50	0:22:14	C	70	15:00	Y	4.40	17.54	67.5	660	57	Y
21-123	5/23/2010	14:53:40	14:55:42	"A" Gate Crowder Dropper	15:10:14	0:02:02	C	70	15:00	Y	4.40	17.54	67.5	420	37	Y
54-142	5/24/2010	9:30:53	9:35:38	"A" Gate Crowder Dropper	10:35:58	0:04:45	A	100	10:00	Y	5.50-5.60	15.76	68	500	76	Y
54-159	5/24/2010	9:35:33	9:44:37	"A" Gate Crowder Dropper	10:29:00	0:09:04	A	100	10:00	Y	5.60	15.76	68	500	76	Y
21-171	5/24/2010	9:38:18	10:55:53	"A" Gate Crowder Dropper	11:55:31	1:17:35	A	100	11:00	Y	5.60-5.50	15.77	68	300	49	Y
54-194	5/2/2010-5/3/2010	18:18:34	18:25:37	"A" Gate Crowder Dropper	16:13:01	0:07:03	C	47	18:40	Y	3.50	20.41	63.5	3,300	69	Y
21-158	5/21/2010-5/22/2010	16:45:50	16:55:24	<b>"A" Gate Entrance Dropper</b>	8:22:53	0:09:34	C	38	17:20	Y	3.40	20.90	67.1	633	22	Y
54-200-1	5/2/2010	17:16:53	17:29:23		NA	0:12:30	C	47	17:55	ied in Trough	3.50	20.41	63.5	1120	246	Y

Fish ID	Number of Forays Attempted	Foray Number	Date	EFL Entry hh:mm:ss	EFL Entry Detection Location	Last Lower Detection hh:mm:ss	Last Lower Detection Location	Foray Duration hh:mm:ss	Weir Gate Entered	Weir Gate Percent Open Setting	Possible Lift Time hh:mm	Passage (Y/N)	Entrance Weir Gate Velocity (fps)	Tailwater Elevation	Water Temperature (Daily Average)	Hourly Am. Shad Passage	Hourly Gizzard Shad Passage	Lift Operation Status
21-100	1	1	5/4/2010	11:43:47	"A" Gate Entrance Dropper	13:19:06	"A" Gate Crowder Dropper	01:35:19	A	78	1220 or 1255	N	4.0-3.5	16.91-20.45	65.7	46	2945	Y
21-104	1	1	4/24/2010	15:19:21	"A" Gate Entrance Dropper	15:19:42	"A" Gate Crowder Dropper	00:00:21	A	86	16:00	N	3.9	15.17	63	478	836	Y
21-109	1	1	5/8/2010	15:25:06	"A" Gate Entrance Dropper	15:40:31	"A" Gate Entrance Dropper	00:15:25	C	50	15:30	N	4	17.95	70.7	20	2837	Y
21-115	1	1	5/15/2010	8:42:00	"A" Gate Crowder Dropper	13:03:43	"C" Gate Entrance Dropper	04:21:43	C	60-55	8:45-1300(8 lifts)	N	4.0-3.8	18.42	64.4	48	632	Y
21-116	3	1	5/7/2010	13:58:43	"A" Gate Crowder Dropper	14:19:54	"A" Gate Entrance Dropper	00:21:11	C	65-48	14:15	N	4.40-3.80	17.89	70	144	1836	Y
		2	5/10/2010	13:11:09	"A" Gate Entrance Dropper	13:13:21	"A" Gate Entrance Dropper	00:02:12	A	85	14:00	N	3.9	16.3	67.1	79	33	Y
		3	5/12/2010	10:31:37	"A" Gate Entrance Dropper	10:35:47	"A" Gate Entrance Dropper	00:04:10	A	80	Tour No Time	N	4	16.49	65.7	60	1400	Y
21-120	1	1	5/5/2010	15:34:06	"A" Gate Entrance Dropper	15:36:32	"A" Gate Crowder Dropper	00:02:26	C	48	16:00	N	3.4	20.42	66.3	39	1900	Y
21-129	1	1	5/9/2010	12:04:17	"C" Gate Upstream Dropper	13:32:03	"A" Gate Crowder Dropper	01:27:46	C	60	12:55	N	3.8-4.3	18.7	68.2	73	478	Y
21-141	2	1	5/20/2010	11:49:03	"A" Gate Crowder Dropper	12:23:50	"A" Gate Crowder Dropper	00:34:47	C	55	12:15	N	3.7-3.8	18.52	65.7	3	1800	Y
		2	5/23/2010	8:26:46	"A" Gate Entrance Dropper	8:27:15	"A" Gate Entrance Dropper	00:00:29	A	100	9:00	N	5.7	14.5	67.5	83	870	Y
21-142	3	1	5/13/2010	12:06:37	"A" Gate Entrance Dropper	12:28:06	"A" Gate Entrance Dropper	00:21:29	A	90	12:45	N	4.7-4.8	14.54	65.3	84	5	Y
		2	5/25/2010	15:59:33	"C" Gate Entrance Dropper	16:11:55	"A" Gate Entrance Dropper	00:12:22	C	55	16:30	N	4.8	19.72	70.3	28	1342	Y
		3	5/31/2010	12:20:22	"A" Gate Entrance Dropper	12:32:55	"A" Gate Entrance Dropper	00:12:33	A	100	13:00	N	5.1-5.2	14.44	78.8	46	35	Y
21-143	2	1	5/12/2010	11:14:04	"A" Gate Entrance Dropper	11:23:17	"A" Gate Entrance Dropper	00:09:13	A	80	11:30	N	4	16.12	65.7	34	100	Y
		2	5/19/2010	12:40:00	"A" Gate Entrance Dropper	12:40:27	"A" Gate Entrance Dropper	00:00:27	A	83	13:10	N	4.4	16.86	64.3	23	558	Y
21-144	3	1	5/12/2010	14:24:15	"A" Gate Crowder Dropper	14:52:22	"A" Gate Crowder Dropper	00:28:07	A	80	14:38 or 15:15	N	4.5	16.77	65.7	203	900	Y
		2	5/12/2010	16:38:08	"A" Gate Entrance Dropper	16:54:42	"A" Gate Crowder Dropper	00:16:34	A	87	16:50	N	5	16.23	65.7	217	150	Y
		3	5/18/2010	10:14:15	"A" Gate Entrance Dropper	10:57:43	"A" Gate Crowder Dropper	00:43:28	A	82	11:20	N	4.1	15.44	63.3	0	6	Y
21-156	1	1	5/11/2010	12:20:06	"A" Gate Entrance Dropper	12:29:03	"A" Gate Crowder Dropper	00:08:57	A	82	12:50	N	4.4	15.5	67.1	495	695	Y
21-159	1	1	5/26/2010	11:41:02	"C" Gate Entrance Dropper	12:00:54	"A" Gate Crowder Dropper	00:19:52	C	70	12:15	N	4.5	17.48	73	50	931	Y
54-137	1	1	5/21/2010	9:10:50	"C" Gate Upstream Dropper	12:00:40	"A" Gate Crowder Dropper	02:49:50	A/C	92-60	9:55to11:20(3 lifts)	N	4.9-4.6	15.07-19.94	66.8			Y
54-149	1	1	5/26/2010	12:10:53	"A" Gate Crowder Dropper	14:24:11	"A" Gate Crowder Dropper	02:13:18	C	70-55	12:15 or 13:20	N	4.6-4.0	17.48-19.30	73	18	1291	Y
54-151	1	1	5/16/2010	15:46:54	"A" Gate Crowder Dropper	16:14:09	"A" Gate Crowder Dropper	00:27:15	C	65	16:30	N	3.9	18.5	62.6	11	810	Y
54-156	1	1	5/29/2010	14:34:23	"C" Gate Entrance Dropper	15:18:26	"C" Gate Entrance Dropper	00:44:03	C	80	15:10	N	4.1	17.46	75.2	7	187	Y
54-167	9	1	5/23/2010	7:22:37	"A" Gate Entrance Dropper	8:09:13	"A" Gate Entrance Dropper	00:46:36	A	100	8:05	N	5.7	14.49	67.5	83	870	Y
		2	5/23/2010	15:21:25	"A" Gate Crowder Dropper	15:41:31	"A" Gate Crowder Dropper	00:20:06	C	70	16:00	N	4.4	17.55	67.5	37	420	Y
		3	5/25/2010	14:35:28	"A" Gate Crowder Dropper	14:46:53	"C" Gate Entrance Dropper	00:11:25	C	55	15:00	N	4.4-4.5	20.2	70.3	19	1096	Y
		4	5/28/2010	14:05:46	"C" Gate Entrance Dropper	14:14:09	"A" Gate Crowder Dropper	00:08:23	C	80	14:25	N	5.1	17.5	73.1	6	150	Y
		5	5/28/2010	15:47:39	"C" Gate Entrance Dropper	16:15:37	"C" Gate Entrance Dropper	00:27:58	C	60	16:30	N	5.0-4.6	18.8	73.1	8	35	Y
		6	5/29/2010	13:47:42	"C" Gate Entrance Dropper	14:03:48	"C" Gate Entrance Dropper	00:16:06	C	80	14:00	N	4.1	16.92	75.2	2	25	Y
		7	5/31/2010	8:05:56	"A" Gate Entrance Dropper	8:09:06	"A" Gate Entrance Dropper	00:03:10	A	100	9:00	N	5.2	14.38	78.8	19	0	Y
		8	6/1/2010	11:32:26	"A" Gate Entrance Dropper	11:35:12	"A" Gate Crowder Dropper	00:02:46	A	100	12:00	N	4.9	13.86	79.3	0	100	Y
		9	6/1/2010	14:15:39	"C" Gate Entrance Dropper	14:18:53	"C" Gate Entrance Dropper	00:03:14	C	45	15:00	N	4	19.58	79.3	5	30	Y
54-176	2	1	5/4/2010	10:02:40	"A" Gate Entrance Dropper	10:22:15	"A" Gate Crowder Dropper	00:19:35	A	78	10:25	N	4.4	16.88	65.7	230	2446	Y
		2	5/14/2010	11:16:33	"C" Gate Entrance Dropper	11:30:32	"A" Gate Crowder Dropper	00:13:59	C	73	11:35	N	2.90-3.80	19.82	67.1	7	2450	Y
54-178	1	1	5/8/2010	9:21:56	"A" Gate Crowder Dropper	9:41:58	"A" Gate Entrance Dropper	00:20:02	A	85	9:30	N	4.4	14.46	70.7	376	683	Y
54-186	1	1	5/24/2010	10:34:45	"A" Gate Entrance Dropper	11:00:45	"A" Gate Crowder Dropper	00:26:00	A	100	11:00	N	5.6	15.77	68	76	500	Y
54-209	1 Entrance Only	1	5/13/2010	15:42:00	"A" Gate Entrance Dropper	15:42:05	"A" Gate Entrance Dropper	00:00:05	A	96	15:45	N	4.9	14.53	65.3	161	100	Y
54-211	1 Entrance Only	1	5/22/2010	8:25:37	"A" Gate Entrance Dropper	8:25:42	"A" Gate Entrance Dropper	00:00:05	A	85	9:10	N	4.8	15.02	67.1	22	633	Y
54-200-2	1	1	5/21/2010	11:27:50	"A" Gate Crowder Dropper	11:36:00	"A" Gate Crowder Dropper	0:08:10	C	60	12:05	N	4.5	17.93	66.8	108	930	Y

Fish ID	Date	EFL Entry hh:mm:ss	Last Lower Detection hh:mm:ss	Last Lower Detection Location	Exit Trough Time hh:mm:ss	Foray Duration hh:mm:ss	Weir Gate Entered	Weir Gate Percent Open Setting	Lift Time hh:mm	Passage (Y/N)	Entrance Weir Gate Velocity (fps)	Tailwater Elevation	Water Temperature (Daily Average)	Hourly Gizzard Shad Passage	Hourly Am. Shad Passage	Lift Operation Status
21-127	5/7/2010	11:57:50	12:00:51	"A" Gate Crowder Dropper	14:20:56	0:03:01	C	65	12:15	Y	4.50-4.30	17.87	70	1,836	144	Y
21-135	5/7/2010	12:05:39	12:14:30	"A" Gate Crowder Dropper	12:46:56	0:08:51	C	65	12:15	Y	4.30	17.87	70	2,054	79	Y
21-116	5/7/2010	13:58:43	14:19:54	"A" Gate Crowder Dropper	NA	00:21:11	C	65-48	14:15	N	4.40-3.80	17.89	70	1836	144	Y
54-198	5/7/2010	15:46:21	15:53:45	"A" Gate Crowder Dropper	16:39:46	0:07:24	C	48	16:15	Y	3.80	19.81	70	2,305	368	Y
21-119	5/7/2010	16:15:34	17:04:30	"A" Gate Entrance Dropper	18:13:15	0:48:56	C	48	17:20	Y	3.80	19.70	70	2,392	459	Y
54-207	5/7/2010	16:42:31	16:52:57	"A" Gate Crowder Dropper	17:58:54	0:10:26	C	48	17:20	Y	3.80	19.70	70	3,309	500	Y
21-121	5/7/2010	17:34:15	17:38:18	"A" Gate Crowder Dropper	18:38:16	0:04:03	C	48	17:50	Y	3.80	19.61	70	2,392	459	Y
54-199	5/7/2010	18:10:22	18:10:51	"A" Gate Crowder Dropper	18:46:28	0:00:29	C	48	18:20	Y	3.60	19.55	70	2,392	459	Y
21-112	5/8/2010	8:31:22	8:37:50	"A" Gate Crowder Dropper	8:54:43	0:06:28	A	85	8:40	Y	4.10	14.45	70.7	672	233	Y
54-178	5/8/2010	9:21:56	9:41:58	"A" Gate Crowder Dropper	NA	00:20:02	A	85	9:30 or 10:15	N	4.4	14.46	70.7	683	376	Y
21-132	5/8/2010	9:28:41	10:09:40	"A" Gate Crowder Dropper	10:46:00	0:40:59	A	85	10:15	Y	4.40	14.46	70.7	834	677	Y
21-114	5/8/2010	10:30:03	10:53:15	"A" Gate Crowder Dropper	11:29:21	0:23:12	A	85	11:00	Y	4.70	14.47	70.7	1,877	586	Y
21-124	5/8/2010	10:45:22	11:12:17	"A" Gate Crowder Dropper	12:48:36	0:26:55	A	85	11:45	Y	4.70-4.50	14.47	70.7	1,801	134	Y
21-122	5/8/2010	10:46:35	10:56:55	"A" Gate Crowder Dropper	11:30:20	0:10:20	A	85	11:00	Y	4.70-4.50	14.47	70.7	1,877	586	Y
21-109	5/8/2010	15:25:06	15:40:31	"A" Gate Entrance Dropper	NA	00:15:25	C	50	15:30	N	4	17.95	70.7	2837	20	Y
21-156	5/11/2010	12:20:06	12:29:03	"A" Gate Entrance Dropper	NA	00:08:57	A	82	12:50	N	4.4	15.5	67.1	695	495	Y
54-208	5/11/2010	13:52:40	14:42:55	"A" Gate Crowder Dropper	15:25:25	0:50:15	A	82	15:00	Y	4.40	15.51	67.1	214	97	Y
54-191	5/11/2010	16:12:34	17:49:25	"A" Gate Crowder Dropper	18:08:09	1:36:51	A	82	18:00	Y	4.30-4.50	15.12	67.1	41	61	Y
54-158	5/12/2010	10:13:46	10:26:10	"C" Gate Entrance Dropper	12:35:47	0:12:24	A	80	11:30	Y	4.00	18.44	65.7	800	400	Y
21-116	5/12/2010	10:31:37	10:35:47	"A" Gate Entrance Dropper	NA	0:04:10	A	80	NA	N	4.00	16.49	65.7	1,400	60	Y
54-168	5/12/2010	10:39:03	12:11:00	"A" Gate Crowder Dropper	12:42:20	1:31:57	A	80	12:15	Y	4.00	16.59	65.7	800	400	Y
21-154	5/12/2010	10:55:18	11:46:18	"A" Gate Crowder Dropper	12:31:41	0:51:00	A	80	12:15	Y	4.00	16.49	65.7	800	400	Y
21-143	5/12/2010	11:14:04	11:23:17	"A" Gate Entrance Dropper	NA	0:09:13	A	80	11:30	N	4.00	16.12	65.7	100	34	Y
21-113	5/12/2010	13:08:06	13:18:32	"A" Gate Crowder Dropper	14:09:31	0:10:26	A	80	13:45	Y	4.50-4.30	16.70	65.7	900	203	Y
21-174	5/12/2010	13:57:50	14:08:15	"A" Gate Crowder Dropper	15:06:18	0:10:25	A	80	14:38	Y	4.30	16.75	65.7	500	256	Y
21-144	5/12/2010	14:24:15	14:52:22	"A" Gate Crowder Dropper	NA	0:28:07	A	80	14:38	N	4.50	16.77	65.7	900	203	Y
21-146	5/12/2010	15:16:18	15:40:13	"A" Gate Crowder Dropper	16:31:10	0:23:55	A	87	16:00	Y	4.40	16.80	65.7	150	217	Y
54-208* passed twice	5/12/2010	15:17:10	17:13:49	"A" Gate Crowder Dropper	18:12:07	1:56:39	A	87	17:30	Y	5.0-4.9	16.82	65.7	75	182	Y
54-210	5/12/2010	15:41:01	15:48:47	"C" Gate Entrance Dropper	17:25:44	0:07:46	A	87	16:00	Y	4.40	16.80	65.7	800	312	Y
21-144	5/12/2010	16:28:08	16:54:42	"A" Gate Entrance Dropper	NA	0:16:34	A	87	16:50	N	5.00	16.23	65.7	150	217	Y
21-170	5/12/2010	17:11:00	17:17:23	"A" Gate Crowder Dropper	17:51:05	0:06:23	A	87	17:30	Y	4.90	16.07	65.7	800	312	Y

Blue = RT Am. Shad that did not pass under similar conditions as RT Am. Shad that did pass. 21-116 and 21-144 was unsuccessful twice. 54-208 was successful twice.



**APPENDIX A-4: 2010 CONOWINGO TAILRACE ZONES.**

Fish ID	Start Date	Start Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)		
21-112 (A1)	22-Apr-10	11:44:00	Conowingo Tailrace	Release - Downstream of "C" Gate		40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C				4	4,5,6,7,8,9			58.1	
21-112 (A1)	26-Apr-10	23:06:17	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	11300	0	0	0	5240	0	6060	0	0	0	0	0	None	A	down	stay		1	5,7		LR = Lower River	60.9	
	26-Apr-10	23:30:00			E	11300	0	0	0	5240	0	6060	0	0	0	0	0	None	A				1	5,7		LR	60.9	
21-112 (A1)	27-Apr-10	0:00:54	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A				1	5,7			60.6	
21-112 (A1)	27-Apr-10	0:06:14	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A		up		1	5,7		1	Move up, no change in generation	60.6
	27-Apr-10	0:30:00			E	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A		down		1	5,7		LR	60.6	
21-112 (A1)	27-Apr-10	0:58:30	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A		up		1	5,7		2	Move down, no change in generation	60.6
21-112 (A1)	27-Apr-10	1:13:43	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A		down		1	5,7		LR	60.6	
	27-Apr-10	1:30:00			E	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A				1	5,7		LR	60.6	
	27-Apr-10	2:30:00			E	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A				1	5,7		LR	60.6	
	27-Apr-10	3:30:00			E	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A				1	5,7		LR	60.6	
21-112 (A1)	27-Apr-10	3:33:26	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A				1	5,7		LR	60.6	
	27-Apr-10	4:30:00			E	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A				1	5,7		LR	60.6	
21-112 (A1)	27-Apr-10	4:45:22	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A		up		1	5,7			Move up, no change in generation	60.6
	27-Apr-10	5:30:00			B	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A				1	5,7			60.6	
21-112 (A1)	27-Apr-10	6:10:33	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A				1	5,7		1		60.6
21-112 (A1)	27-Apr-10	6:24:06	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A		down		1	5,7			Move down, no change in generation	60.6
	27-Apr-10	6:30:00			A/B/C	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A				1	5,7		3	Move up, no change in generation	60.6
	27-Apr-10	7:30:00			E	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A				1	5,7		LR	60.6	
	27-Apr-10	8:30:00			E	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A				1	5,7		LR	60.6	
	27-Apr-10	9:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	stay		2	4,5,6,7			Change in generation, no movement	60.6
	27-Apr-10	10:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				2	4,5,6,7			LR	60.6
	27-Apr-10	11:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				2	4,5,6,7			LR	60.6
	27-Apr-10	12:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				2	4,5,6,7			LR	60.6
	27-Apr-10	13:30:00				11150	0	0	0	5180	5970	0	0	0	0	0	0	None	A	down	stay		1	5,6			LR	60.6
	27-Apr-10	14:30:00			E	11150	0	0	0	5180	5970	0	0	0	0	0	0	None	A				1	5,6			LR	60.6
	27-Apr-10	15:30:00			E	11150	0	0	0	5180	5970	0	0	0	0	0	0	None	A				1	5,6			LR	60.6
	27-Apr-10	16:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay		6	2,3,4,5,6,7,8,9,11			LR	60.6
	27-Apr-10	17:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11			LR	60.6
	27-Apr-10	18:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11			LR	60.6
	27-Apr-10	19:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11			LR	60.6
21-112 (A1)	27-Apr-10	19:57:00	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11			LR	60.6
21-112 (A1)	27-Apr-10	20:14:36	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		up		6	2,3,4,5,6,7,8,9,11			Moves up about four hours after more generators start	60.6
	27-Apr-10	20:30:00			A	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11			LR	60.6
21-112 (A1)	27-Apr-10	20:50:30	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11		2	Moves down without a change in generation	60.6
21-112 (A1)	27-Apr-10	21:00:42	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		down		6	2,3,4,5,6,7,8,9,11			LR	60.6
	27-Apr-10	21:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11			LR	60.6
	27-Apr-10	22:30:00			E	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A	down	stay		1	4,5			LR	60.6
	27-Apr-10	23:30:00				11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A				1	4,5			LR	60.6
	28-Apr-10	0:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				1	4,5			LR	58.7
	28-Apr-10	1:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				1	4,5			LR	58.7
	28-Apr-10	2:30:00			E/F	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				1	4,5			LR	58.7
	28-Apr-10	3:30:00			E/F	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				1	4,5			LR	58.7
	28-Apr-10	4:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				1	4,5			LR	58.7
	28-Apr-10	5:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				1	4,5			LR	58.7
	28-Apr-10	6:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				1	4,5			LR	58.7
	28-Apr-10	7:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				1	4,5			LR	58.7
	28-Apr-10	8:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				1	4,5			LR	58.7
	28-Apr-10	9:30:00			E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	up	stay		2	4,5,6,7			LR	58.7
21-112 (A1)	28-Apr-10	10:16:19	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		4	4,5,6,7,8,9			LR	58.7
	28-Apr-10	10:30:00			E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9			LR	5

Fish ID	Start Date	Start Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	02-May-10	19:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11	LR		62.5
21-112 (A1)	02-May-10	19:43:33	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11	LR		62.5
21-112 (A1)	02-May-10	21:25:45	Lapidum (West Shore) (Near-Field)	Start Lower River		64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11	LR		62.5
21-112 (A1)	04-May-10	13:57:30	Lapidum (West Shore) (Near-Field)	End Lower River		68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11	LR		68.1
21-112 (A1)	04-May-10	18:50:06	Rowland Island West (Near-Field)	Start Tailrace Detection 3	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	LR		68.1
	04-May-10	19:30:00			E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	LR		68.1
	04-May-10	20:30:00			E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	LR		68.1
	04-May-10	21:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	LR		68.1
	04-May-10	22:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	LR		68.1
	04-May-10	23:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		12,5,			68.1	
	05-May-10	0:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
	05-May-10	1:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
	05-May-10	2:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
	05-May-10	3:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
21-112 (A1)	05-May-10	4:03:09	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
21-112 (A1)	05-May-10	4:06:41	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		up		12,5,			69.2	
	05-May-10	4:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,		Move up five hours after reduced generators	69.2	
	05-May-10	5:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
	05-May-10	6:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
	05-May-10	7:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
	05-May-10	8:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
	05-May-10	9:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
21-112 (A1)	05-May-10	9:47:17	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,		3 Move down, no change in generators	69.2	
21-112 (A1)	05-May-10	9:48:09	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		down		12,5,			69.2	
	05-May-10	10:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
21-112 (A1)	05-May-10	10:45:09	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				12,5,			69.2	
21-112 (A1)	05-May-10	11:08:28	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		up		12,5,		Move up prior to change in generators	69.2	
	05-May-10	11:30:00			B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,11		69.2	
	05-May-10	12:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		69.2	
	05-May-10	13:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		69.2	
	05-May-10	14:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		69.2	
	05-May-10	15:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		69.2	
	05-May-10	16:30:00			A	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		69.2	
	05-May-10	17:30:00			A/B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		69.2	
21-112 (A1)	05-May-10	17:59:44	"A" Gate Aerial	Start EFL Aerial Detection	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		69.2	
21-112 (A1)	05-May-10	18:00:17	"A" Gate Aerial	End EFL Aerial Detection	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		69.2	
	05-May-10	18:30:00			B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		69.2	
21-112 (A1)	05-May-10	18:45:09	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		3 Move down, no change in generators	69.2
21-112 (A1)	05-May-10	18:52:50	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		down		6	1,2,3,4,5,6,7,8,9,11	LR		69.2
21-112 (A1)	05-May-10	19:11:56	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	LR		69.2
	05-May-10	19:30:00			E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	LR		69.2
	05-May-10	20:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	LR		69.2
	05-May-10	21:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	LR		69.2
	05-May-10	22:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	LR		69.2
	05-May-10	23:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	LR		69.2
21-112 (A1)	06-May-10	0:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		13,5,			69.5	
	06-May-10	1:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				13,5,			69.5	
	06-May-10	2:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				13,5,			69.5	
	06-May-10	3:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				13,5,			69.5	
21-112 (A1)	06-May-10	4:19:24	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A		up		13,5,		Move up about five hours after reduced generation	69.5	
	06-May-10	4:																									

Fish ID	Start Date	Start Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	07-May-10	2:30:00			E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,	LR		69.4
	07-May-10	3:30:00			E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,	LR		69.4
	07-May-10	4:30:00			E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,	LR		69.4
21-112 (A1)	07-May-10	5:02:54	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,	LR		69.4
21-112 (A1)	07-May-10	5:18:09	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A		up		2	2,4,5,7,		Move up, five hours after change	69.4
	07-May-10	5:30:00			A/B/E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,			69.4
21-112 (A1)	07-May-10	5:50:28	"A" Gate Aerial	Start EFL Aerial Detection	C	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,			69.4
21-112 (A1)	07-May-10	5:55:47	"A" Gate Aerial	End EFL Aerial Detection	C	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,			69.4
	07-May-10	6:30:00			A/B/C	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,			69.4
	07-May-10	7:30:00			A/B/C	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,			69.4
	07-May-10	8:30:00			A/B/C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C	up	stay		4	2,4,5,6,7,8,			69.4
	07-May-10	9:30:00			A/B/C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,			69.4
	07-May-10	10:30:00			A/B/C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,			69.4
	07-May-10	11:30:00			A/B/C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,			69.4
	07-May-10	12:30:00			A/B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	13:30:00			A/B/C	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay		5	2,4,5,6,7,8,9,11			69.4
	07-May-10	14:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	15:30:00			A/B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	16:30:00			A/B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-112 (A1)	07-May-10	17:13:13	"C" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	17:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-112 (A1)	07-May-10	17:42:48	"C" Gate Aerial	End EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	18:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-112 (A1)	07-May-10	19:23:07	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 9)	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11	3		69.4
21-112 (A1)	07-May-10	19:28:04	Rowland Island West (Near-Field)	Transition Downstream 9 (Upper Tailrace to Tailrace)	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C		down		6	2,3,4,5,6,7,8,9,11		Move down, doesn't seem to respond to generation change	69.4
	07-May-10	19:30:00			B/C/E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11		move up, no generation change	69.4
	07-May-10	20:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	21:30:00				34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	None	A	down	stay		3	2,3,4,5,6,7,			69.4
	07-May-10	22:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay		2	2,4,5,7,			69.4
	07-May-10	23:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,			69.4
	08-May-10	0:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		1	2,5,			69.2
	08-May-10	1:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	2:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	3:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	4:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	5:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,		Move down hours after drop in generators	69.2
21-112 (A1)	08-May-10	5:36:54	Rowland Island West (Near-Field)	Transition Upstream 10 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-112 (A1)	08-May-10	5:58:24	Conowingo Tailrace Unit 8 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 10)	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		up		1	2,5,			69.2
	08-May-10	6:30:00			A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	7:30:00			A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-112 (A1)	08-May-10	8:21:00	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	8:30:00			A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-112 (A1)	08-May-10	8:31:22	"A" Gate Entrance Dropper	Start EFL	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-112 (A1)	08-May-10	8:37:50	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-112 (A1)	08-May-10	8:53:33	Conowingo Fishway Exit Trough	Passage		9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,	3	moved between 3 zones and passed; no change in gen	69.2





Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	29-Apr-10	18:30:00			C	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	19:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	20:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	21:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	22:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	23:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		1	5,7,			56.8
	30-Apr-10	0:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,			57.1
	30-Apr-10	1:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,			57.1
	30-Apr-10	2:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,			57.1
	30-Apr-10	3:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,			57.1
	30-Apr-10	4:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,			57.1
	30-Apr-10	5:30:00			A/B/C	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,	Still in UT		57.1
	30-Apr-10	6:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		5	4,5,6,7,8,9,11			57.1
	30-Apr-10	7:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1
	30-Apr-10	8:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1
	30-Apr-10	9:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1
	30-Apr-10	10:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1
	30-Apr-10	11:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1
	30-Apr-10	12:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	13:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
21-113 (A1)	30-Apr-10	14:19:27	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	14:30:00			B/C	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	15:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	16:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	17:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	18:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	19:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	20:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	21:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	22:30:00				9970	0	4940	0	0	5030	0	0	0	0	0	0	None	A	down	stay		1	2,5,			57.1
	30-Apr-10	23:30:00				9970	0	4940	0	0	5030	0	0	0	0	0	0	None	A				1	2,5,	3		57.1
21-113 (A1)	01-May-10	0:22:15	Rowland Island East (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	F	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A		spillway		1	2,5,	Move down shortly after generation change		59.1
21-113 (A1)	01-May-10	0:30:01	Rowland Island East (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	F	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A		spillway		1	2,5,	LR		59.1
	01-May-10	1:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A		spillway		1	2,5,	LR		59.1
21-113 (A1)	01-May-10	2:00:23	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A		up		1	2,5,	Move up, few generators		59.1
	01-May-10	2:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,			59.1
	01-May-10	3:30:00			A/B/C	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,			59.1
	01-May-10	4:30:00			A/B/C	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,			59.1
	01-May-10	5:30:00			A/B/C	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,			59.1
21-113 (A1)	01-May-10	6:17:22	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,	3		59.1
21-113 (A1)	01-May-10	7:20:58	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C	up	down		4	2,5,6,7,8,9,	Move down, possibly due to lower generation		59.1
21-113 (A1)	01-May-10	7:30:12	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C				4	2,5,6,7,8,9,	LR		59.1
21-113 (A1)	01-May-10	NA	NA	Start Upper Tailrace Detection (Start UT Foray 6)		0												None	A						LR		59.1
21-113 (A1)	01-May-10	17:23:25	"A" Gate Aerial	Start EFL Aerial Detection	C	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C	up	up		7	2,3,4,5,6,7,8,9,10,11	Move up, more generators on		59.1
21-113 (A1)	01-May-10	17:24:14	"C" Gate Aerial	End EFL Aerial Detection	C	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1
	01-May-10	17:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1
	01-May-10	18:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1
	01-May-10	19:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1
21-113 (A1)	01-May-10	NA	NA	End Upper Tailrace Detection (End UT Foray 6)		0												None	A						1		59.1
21-113 (A1)	01-May-10	20:11:37	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C		down		7	2,3,4,5,6,7,8,9,10,11	Move down after many generators on		59.1
21-113 (A1)	01-May-10	20:13:19	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	68870	0	4600	6																		

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)		
	05-May-10	6:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A			1	2,5			69.2	
21-113 (A1)	05-May-10	6:37:00	Rowland Island West (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A		down		1	2,5		Move down, no gen change	69.2
	05-May-10	7:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A				1	2,5		LR	69.2
21-113 (A1)	05-May-10	7:53:33	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A				1	2,5		LR	69.2
21-113 (A1)	05-May-10	8:27:14	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	A	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A		up		1	2,5		Move up, no gen change	69.2
	05-May-10	8:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A				1	2,5			69.2
	05-May-10	9:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A				1	2,5			69.2
21-113 (A1)	05-May-10	9:48:31	"A" Gate Aerial	Start EFL Aerial Detection	C	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A				1	2,5			69.2
21-113 (A1)	05-May-10	9:50:35	"A" Gate Aerial	End EFL Aerial Detection	C	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A				1	2,5			69.2
	05-May-10	10:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A				1	2,5			69.2
	05-May-10	11:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,11			69.2	
	05-May-10	12:30:00			B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2	
	05-May-10	13:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2	
	05-May-10	14:30:00			A/B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2	
	05-May-10	15:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2	
21-113 (A1)	05-May-10	16:28:29	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 9)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	3		69.2	
21-113 (A1)	05-May-10	NA	NA	Transition Downstream 9 (Upper Tailrace to Tailrace)		0													None	A							69.2	
21-113 (A1)	05-May-10	NA	NA	End Tailrace Detection 3		0													None	A							69.2	
21-113 (A1)	05-May-10	22:08:37	Lapidum (West Shore) (Near-Field)	Start Lower River		63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2	
21-113 (A1)	06-May-10	7:34:20	Lapidum (West Shore) (Near-Field)	End Lower River		10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A	down	stay		1	3,5			69.5
21-113 (A1)	06-May-10	13:12:14	Rowland Island West (Near-Field)	Start Tailrace Detection 4	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A		down		1	3,5		Move down may be delayed response to generators turning on	69.5
21-113 (A1)	06-May-10	13:21:15	Rowland Island West (Near-Field)	Transition Upstream 10 (Tailrace to Upper Tailrace)	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	13:30:00			E	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A				1	3,5		LR	69.5
	06-May-10	14:30:00				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay		6	2,3,4,5,6,7,8,9,11		LR	69.5	
21-113 (A1)	06-May-10	14:49:06	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 10)	B	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C		up		6	2,3,4,5,6,7,8,9,11		Move up after many generators off, may not be a response to generators coming back on	69.5	
	06-May-10	15:30:00				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C				6	2,3,4,5,6,7,8,9,11			69.5	
	06-May-10	16:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11			69.5	
	06-May-10	17:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5	
	06-May-10	18:30:00			B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5	
	06-May-10	19:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5	
	06-May-10	20:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5	
	06-May-10	21:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5	
	06-May-10	22:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A	down	stay		1	3,5			69.5
21-113 (A1)	06-May-10	22:51:35	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 10)	B	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	23:00:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A				1	3,5			69.5
	07-May-10	0:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A	up	stay		2	2,4,5,7			69.4
	07-May-10	1:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7			69.4
	07-May-10	2:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7			69.4
	07-May-10	3:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7	1	moved into zone B during a variety of flows; moved out at 22K	69.4
21-113 (A1)	07-May-10	3:49:37	Rowland Island West (Near-Field)	Transition Downstream 10 (Upper Tailrace to Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A		down		2	2,4,5,7		Move down after more generators off	69.4
21-113 (A1)	07-May-10	3:53:16	Rowland Island West (Near-Field)	Transition Upstream 11 (Tailrace to Upper Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7		LR	69.4
	07-May-10	4:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7		LR	69.4
21-113 (A1)	07-May-10	4:53:43	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 11)	B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A		up		2	2,4,5,7		Move up, no change in gen	69.4
	07-May-10	5:30:00			A/B/C	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7			69.4
	07-May-10	6:30:00			A/B/C	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7			69.4
	07-May-10	7:30:00			A/B/C	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7			69.4
21-113 (A1)	07-May-10	7:37:31	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 11)	B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7	3		69.4
21-113 (A1)	07-May-10	7:41:27	Rowland Island West (Near-Field)	Transition Downstream 11 (Upper Tailrace to Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A		down		2	2,4,5,7		Move down, no gen change	69.4
21-113 (A1)	07-May-10	8:20:46	Rowland Island West (Near-Field)	Transition Upstream 12 (Tailrace to Upper Tailrace)	E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	0	None	C	up	stay		4	2,4,5,6,7,8		LR	69.4
21-113 (A1)	07-May-10	8:25:23	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 12)	B	3748																						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)		
	08-May-10	2:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5		LR	69.2	
	08-May-10	3:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5		LR	69.2	
	08-May-10	4:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5		LR	69.2	
21-113 (A1)	08-May-10	5:27:37	Rowland Island West (Near-Field)	Transition Upstream 15 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5		LR	69.2	
	08-May-10	5:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5		LR	69.2	
21-113 (A1)	08-May-10	5:35:18	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 15)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A	up		1	2,5		Move up, few gen on	69.2	
21-113 (A1)	08-May-10	6:13:36	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 15)	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5		2	69.2	
21-113 (A1)	08-May-10	6:25:57	Rowland Island West (Near-Field)	Transition Downstream 15 (Upper Tailrace to Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A	down		1	2,5		Move down, no gen change	69.2	
21-113 (A1)	08-May-10	6:27:00	Rowland Island East (Near-Field)	Transition Upstream 16 (Tailrace to Upper Tailrace)	F	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A	spillway		1	2,5		LR	69.2	
	08-May-10	6:30:00			A/B/C/E/F	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5		LR	69.2	
21-113 (A1)	08-May-10	6:42:02	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 16)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A	up		1	2,5		Move up, no gen change	69.2	
	08-May-10	7:30:00			A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5			69.2	
21-113 (A1)	08-May-10	7:34:22	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 16)	A	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5		2	69.2	
21-113 (A1)	08-May-10	7:36:39	Rowland Island West (Near-Field)	Transition Downstream 16 (Upper Tailrace to Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A	down		1	2,5		Move down, no gen change	69.2	
21-113 (A1)	08-May-10	7:58:03	Rowland Island West (Near-Field)	Transition Upstream 17 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5		LR	69.2	
21-113 (A1)	08-May-10	8:16:14	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 17)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A	up		1	2,5		Move up, no gen change	69.2	
	08-May-10	8:30:00			B	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5			69.2	
21-113 (A1)	08-May-10	10:00:48	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 17)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5		1	69.2	
21-113 (A1)	08-May-10	10:13:49	Rowland Island West (Near-Field)	Transition Downstream 17 (Upper Tailrace to Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A	down		1	2,5		Move down, no gen change	69.2	
	08-May-10	10:30:00			B/E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5		LR	69.2	
21-113 (A1)	08-May-10	11:27:33	Rowland Island West (Near-Field)	Transition Upstream 18 (Tailrace to Upper Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C	up	stay	4	2,5,6,7,8,9		LR	69.2
	08-May-10	11:30:00			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9		LR	69.2
21-113 (A1)	08-May-10	11:50:14	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 18)	A	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C	up		4	2,5,6,7,8,9		Move up, increased gen	69.2
21-113 (A1)	08-May-10	12:26:14	"C" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
	08-May-10	12:30:00			C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
21-113 (A1)	08-May-10	12:39:28	"A" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
	08-May-10	13:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
	08-May-10	14:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
	08-May-10	15:30:00			A	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
21-113 (A1)	08-May-10	16:02:00	Conowingo Tailrace Units 1-7 Master	End Upper Tailrace Detection (End UT Foray 18)		39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
	08-May-10	16:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9		2	69.2
21-113 (A1)	08-May-10	17:22:03	Rowland Island West (Near-Field)	Transition Downstream 18 (Upper Tailrace to Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C	down		4	2,5,6,7,8,9		Move down, no gen change, possible delayed response	69.2
21-113 (A1)	08-May-10	17:28:15	Rowland Island West (Near-Field)	Transition Upstream 19 (Tailrace to Upper Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9		LR	69.2
	08-May-10	17:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9		LR	69.2
21-113 (A1)	08-May-10	17:50:12	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 19)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C	up		4	2,5,6,7,8,9		Move up, no gen change	69.2
21-113 (A1)	08-May-10	18:23:43	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 19)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
	08-May-10	18:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9		1	69.2
21-113 (A1)	08-May-10	18:56:38	Rowland Island West (Near-Field)	Transition Downstream 19 (Upper Tailrace to Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C	down		4	2,5,6,7,8,9		Move down, no gen change	69.2
21-113 (A1)	08-May-10	18:58:21	Rowland Island West (Near-Field)	Transition Upstream 20 (Tailrace to Upper Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9		LR	69.2
21-113 (A1)	08-May-10	19:16:35	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 20)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C	up		4	2,5,6,7,8,9		Move up, no gen change	69.2
	08-May-10	19:30:00			A/B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
21-113 (A1)	08-May-10	19:42:34	"A" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
21-113 (A1)	08-May-10	19:56:39	"A" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
21-113 (A1)	08-May-10	20:03:13	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 20)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
	08-May-10	20:30:00			B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
	08-May-10	21:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9			69.2
	08-May-10	22:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A	down	stay	1	2,5		3	69.2	
21-113 (A1)	08-May-10	22:46:38	Rowland Island East (Near-Field)	Transition Downstream 20 (Upper Tailrace to Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A	down		1	2,5		Move down, after decreased gen	69.2	
	08-May-10	23:30:00				9560	0	4570	0	0																		



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	09-May-10	15:30:00			A/B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
21-113 (A1)	09-May-10	15:47:16	"A" Gate Aerial	Start EFL Aerial Detection	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				3	2,3,4,5,6,7,			67.2
21-113 (A1)	09-May-10	15:52:42	"C" Gate Aerial	End EFL Aerial Detection	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				3	2,3,4,5,6,7,			67.2
21-113 (A1)	09-May-10	16:25:38	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 23)	B	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				3	2,3,4,5,6,7,			67.2
	09-May-10	16:30:00			A/B	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				3	2,3,4,5,6,7,	3		67.2
21-113 (A1)	09-May-10	16:49:04	Rowland Island East (Near-Field)	Transition Downstream 23 (Upper Tailrace to Tailrace)	F	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A		spillway		3	2,3,4,5,6,7,	LR		67.2
	09-May-10	17:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A		spillway		3	2,3,4,5,6,7,	LR		67.2
21-113 (A1)	09-May-10	17:38:00	Rowland Island West (Near-Field)	End Tailrace Detection 4	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A		down		3	2,3,4,5,6,7,	Move down six hours after gen increase		67.2
21-113 (A1)	11-May-10	11:32:03	Lapidum (West Shore) (Near-Field)	Start Lower River		9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,	LR		63.2
21-113 (A1)	11-May-10	21:46:57	Spencer Island West (Near-Field)	End Lower River		50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up	stay		5	2,3,4,5,6,7,8,9,	LR		63.2
21-113 (A1)	12-May-10	3:28:21	Rowland Island West (Near-Field)	Start Tailrace Detection 5	E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	down	stay		1	2,5,	LR		60.2
	12-May-10	3:30:00			E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				1	2,5,	LR		60.2
21-113 (A1)	12-May-10	3:42:09	Rowland Island West (Near-Field)	Transition Upstream 24 (Tailrace to Upper Tailrace)	E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				1	2,5,	LR		60.2
21-113 (A1)	12-May-10	4:03:15	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 24)	B	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A		up		1	2,5,	Move up after decreased gen		60.2
	12-May-10	4:30:00			A/B/C	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				1	2,5,			60.2
	12-May-10	5:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up	stay		4	2,3,4,5,6,7,8,			60.2
	12-May-10	6:30:00				42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,			60.2
	12-May-10	7:30:00			A/C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,			60.2
	12-May-10	8:30:00			A/B/C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,			60.2
	12-May-10	9:30:00			A/B/C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,			60.2
	12-May-10	10:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	down	stay		1	2,5,7,			60.2
21-113 (A1)	12-May-10	11:18:05	"A" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,			60.2
21-113 (A1)	12-May-10	11:22:56	"A" Gate Aerial	End EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,			60.2
	12-May-10	11:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,			60.2
	12-May-10	12:30:00			B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,			60.2
21-113 (A1)	12-May-10	13:06:44	"A" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,			60.2
21-113 (A1)	12-May-10	13:08:06	"A" Gate Entrance Dropper	Start EFL	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,			60.2
21-113 (A1)	12-May-10	13:18:32	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,			60.2
	12-May-10	13:30:00			C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,			60.2
21-113 (A1)	12-May-10	14:08:00	Conowingo Fishway Exit Trough	Passage		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,	3 moved across 3 zones during a few flows; passed at 16K		60.2

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-114 (A1)	22-Apr-10	12:03:00	Conwingo Tailrace	Release - Downstream of "C" Gate		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,			58.1
21-114 (A1)	22-Apr-10	12:10:53	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,			58.1
21-114 (A1)	22-Apr-10	12:11:06	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,			58.1
21-114 (A1)	22-Apr-10	12:30:00			A/B/C/D/	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,			58.1
21-114 (A1)	22-Apr-10	12:38:01	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		up		1 5,7,		Move up, no gen change	58.1
	22-Apr-10	12:30:00			A/B/C/D/	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,	UT/LR		58.1
	22-Apr-10	13:30:00			A/B/C/D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,			58.1
	22-Apr-10	14:30:00			A/B/C/D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,			58.1
	22-Apr-10	15:30:00			A/B/C/D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,			58.1
	22-Apr-10	16:30:00			A/B/C/D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,			58.1
21-114 (A1)	22-Apr-10	17:15:45	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up	stay		6 2,3,4,5,6,7,8,9,11	4		58.1
	22-Apr-10	17:30:00			A/B/C/D	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				6 2,3,4,5,6,7,8,9,11			58.1
21-114 (A1)	22-Apr-10	17:31:56	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C		down		6 2,3,4,5,6,7,8,9,11		Move down after increased gen	58.1
	22-Apr-10	18:30:00			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				6 2,3,4,5,6,7,8,9,11			58.1
	22-Apr-10	19:30:00			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				6 2,3,4,5,6,7,8,9,11			58.1
	22-Apr-10	20:30:00			D/E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				6 2,3,4,5,6,7,8,9,11			58.1
	22-Apr-10	21:30:00				59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				6 2,3,4,5,6,7,8,9,11			58.1
	22-Apr-10	22:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		1 5,7,			58.1
	22-Apr-10	23:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,			58.1
	23-Apr-10	0:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1 5,7,			59.7
	23-Apr-10	1:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1 5,7,			59.7
	23-Apr-10	2:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1 5,7,			59.7
	23-Apr-10	3:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1 5,7,			59.7
	23-Apr-10	4:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1 5,7,			59.7
	23-Apr-10	5:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1 5,7,			59.7
	23-Apr-10	6:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1 5,7,			59.7
	23-Apr-10	7:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		4 4,5,6,7,8,9,			59.7
	23-Apr-10	8:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4 4,5,6,7,8,9,			59.7
	23-Apr-10	9:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4 4,5,6,7,8,9,			59.7
	23-Apr-10	10:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4 4,5,6,7,8,9,			59.7
	23-Apr-10	11:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4 4,5,6,7,8,9,			59.7
	23-Apr-10	12:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4 4,5,6,7,8,9,			59.7
	23-Apr-10	13:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		1 5,7,			59.7
	23-Apr-10	14:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1 5,7,			59.7
	23-Apr-10	15:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1 5,7,			59.7
	23-Apr-10	16:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1 5,7,			59.7
	23-Apr-10	17:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		4 4,5,6,7,8,9,			59.7
	23-Apr-10	18:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4 4,5,6,7,8,9,			59.7
	23-Apr-10	19:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4 4,5,6,7,8,9,			59.7
	23-Apr-10	20:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4 4,5,6,7,8,9,			59.7
	23-Apr-10	21:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4 4,5,6,7,8,9,			59.7
	23-Apr-10	22:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		1 5,7,			59.7
	23-Apr-10	23:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1 5,7,			59.7
	24-Apr-10	0:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	1:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	2:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	3:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	4:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	5:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	6:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	7:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	8:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	9:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	10:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	11:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1 5,7,			60.6
	24-Apr-10	12:30:00				114																				

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	24-Apr-10	21:30:00				23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A				2	4,5,6,7,			60.6
	24-Apr-10	22:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A	down	stay		1	5,7,			60.6
	24-Apr-10	23:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,			60.6
	25-Apr-10	0:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	1:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	2:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	3:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	4:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	5:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	6:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	7:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	8:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	9:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	10:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	11:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	12:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	13:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	14:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	15:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	16:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	25-Apr-10	17:30:00				22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A	up	stay		2	4,5,6,7,			61.0
	25-Apr-10	18:30:00				22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				2	4,5,6,7,			61.0
	25-Apr-10	19:30:00				22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				2	4,5,6,7,			61.0
	25-Apr-10	20:30:00				22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				2	4,5,6,7,			61.0
	25-Apr-10	21:30:00				22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				2	4,5,6,7,			61.0
	25-Apr-10	22:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A	down	stay		1	5,7,			61.0
	25-Apr-10	23:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,			61.0
	26-Apr-10	0:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				1	5,7,			60.9
	26-Apr-10	1:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				1	5,7,			60.9
	26-Apr-10	2:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				1	5,7,			60.9
	26-Apr-10	3:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				1	5,7,			60.9
	26-Apr-10	4:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				1	5,7,			60.9
	26-Apr-10	5:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C	up	stay		4	4,5,6,7,8,9,			60.9
	26-Apr-10	6:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	7:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	8:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	9:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	10:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	11:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	12:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	13:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	14:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	15:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	16:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	17:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	18:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,		Still down, despite multiple gen chnages	60.9
	26-Apr-10	19:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	20:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	21:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,			60.9
	26-Apr-10	22:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A	down	stay		1	5,7,			60.9
	26-Apr-10	23:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				1	5,7,			60.9
	27-Apr-10	0:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1	5,7,			60.6
	27-Apr-10	1:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1	5,7,			60.6
	27-Apr-10	2:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1	5,7,			60.6
	27-Apr-10	3:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1	5,7,			60.6
	27-Apr-10	4:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1	5,7,			60.6
	27-Apr-10	5:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1	5,7,			60.6
	27-Apr-10	6:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1	5,7,			60.6
	27-Apr-10	7:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1	5,7,			60.6
	27-Apr-10	8:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1	5,7,			60.6
	27-Apr-10	9:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	stay		2	4,5,6,7,			60.6
	27-Apr-10	10:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				2	4,5,6,7,			60.6
	27-Apr-10	11:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				2	4,5,6,7,			60.6
	27-Apr-10	12:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				2	4,5,6,7,			60.6

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
	27-Apr-10	13:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A	down	stay	1	5,6,			60.6
21-114 (A1)	27-Apr-10	13:36:28	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A			1	5,6,			60.6
21-114 (A1)	27-Apr-10	14:26:10	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A		up	1	5,6,		Move up, after small gen flux	60.6
	27-Apr-10	14:30:00			A/B	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A			1	5,6,			60.6
21-114 (A1)	27-Apr-10	15:10:46	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A			1	5,6,	2		60.6
21-114 (A1)	27-Apr-10	15:29:49	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A		down	1	5,6,		Move down,no significant changes	60.6
	27-Apr-10	15:30:00			A/B/E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A			1	5,6,			60.6
	27-Apr-10	16:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay	6	2,3,4,5,6,7,8,9,11			60.6
21-114 (A1)	27-Apr-10	16:57:28	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C			6	2,3,4,5,6,7,8,9,11			60.6
21-114 (A1)	27-Apr-10	17:27:00	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		up	6	2,3,4,5,6,7,8,9,11		Move up after increased gen	60.6
	27-Apr-10	17:30:00			B	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C			6	2,3,4,5,6,7,8,9,11			60.6
	27-Apr-10	18:30:00			A/B/C	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C			6	2,3,4,5,6,7,8,9,11			60.6
	27-Apr-10	19:30:00			A/B/E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C			6	2,3,4,5,6,7,8,9,11	UT/LR		60.6
21-114 (A1)	27-Apr-10	20:00:03	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	C	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C			6	2,3,4,5,6,7,8,9,11	3		60.6
21-114 (A1)	27-Apr-10	20:15:53	Rowland Island East (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		down	6	2,3,4,5,6,7,8,9,11		Move down, no gen change	60.6
	27-Apr-10	20:30:00			B/E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C			6	2,3,4,5,6,7,8,9,11			60.6
	27-Apr-10	21:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C			6	2,3,4,5,6,7,8,9,11			60.6
	27-Apr-10	22:30:00				11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A	down	stay	1	4,5,			60.6
	27-Apr-10	23:30:00				11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A			1	4,5,			60.6
	28-Apr-10	0:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A			1	4,5,			58.7
	28-Apr-10	1:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A			1	4,5,			58.7
	28-Apr-10	2:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A			1	4,5,			58.7
	28-Apr-10	3:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A			1	4,5,			58.7
	28-Apr-10	4:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A			1	4,5,			58.7
	28-Apr-10	5:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A			1	4,5,			58.7
21-114 (A1)	28-Apr-10	5:53:37	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A			1	4,5,			58.7
21-114 (A1)	28-Apr-10	6:14:38	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A		up	1	4,5,		Move up after decreased gen	58.7
	28-Apr-10	6:30:00			B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A			1	4,5,			58.7
	28-Apr-10	7:30:00			A/B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A			1	4,5,			58.7
	28-Apr-10	8:30:00			A/B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A			1	4,5,			58.7
	28-Apr-10	9:30:00			A/B	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	up	stay	2	4,5,6,7,			58.7
	28-Apr-10	10:30:00			B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay	4	4,5,6,7,8,9,			58.7
	28-Apr-10	11:30:00			A/B/C	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	12:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	13:30:00			B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	14:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	15:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	16:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	17:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	18:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	19:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	20:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	21:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	22:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	28-Apr-10	23:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
	29-Apr-10	0:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A	down	stay	2	3,5,6,7,			56.8
	29-Apr-10	1:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A			2	3,5,6,7,			56.8
	29-Apr-10	2:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A			2	3,5,6,7,			56.8
	29-Apr-10	3:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay	1	5,7,			56.8
	29-Apr-10	4:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A			1	5,7,			56.8
	29-Apr-10	5:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A			1	5,7,			56.8
	29-Apr-10	6:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A			1	5,7,			56.8
	29-Apr-10	7:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A			1	5,7,			56.8
	29-Apr-10	8:30:00				11260	0	0	0																	

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)		
	29-Apr-10	19:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8	
	29-Apr-10	20:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C					6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	21:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C					6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	22:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C					6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	23:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A	down	stay		1	5,7,			56.8
	30-Apr-10	0:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A				1	5,7,			57.1
	30-Apr-10	1:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A				1	5,7,			57.1
	30-Apr-10	2:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A				1	5,7,			57.1
	30-Apr-10	3:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A				1	5,7,			57.1
	30-Apr-10	4:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A				1	5,7,			57.1
	30-Apr-10	5:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A				1	5,7,			57.1
	30-Apr-10	6:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	7:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	8:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	9:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	10:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	11:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	12:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	13:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	14:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	15:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	16:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	17:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	18:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
21-114 (A1)	30-Apr-10	18:32:58	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	A	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C		up		6	1,2,3,4,5,6,7,8,9,11	3		57.1	
21-114 (A1)	30-Apr-10	18:42:38	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C		down		6	1,2,3,4,5,6,7,8,9,11		Move down after gen increases and decreases	57.1	
	30-Apr-10	19:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	20:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	21:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	22:30:00				9970	0	4940	0	0	5030	0	0	0	0	0	0	0	None	A	down	stay		1	2,5,			57.1
	30-Apr-10	23:30:00				9970	0	4940	0	0	5030	0	0	0	0	0	0	0	None	A				1	2,5,			57.1
	01-May-10	0:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A				1	2,5,			59.1
	01-May-10	1:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A				1	2,5,			59.1
	01-May-10	2:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A				1	2,5,			59.1
	01-May-10	3:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A				1	2,5,			59.1
	01-May-10	4:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A				1	2,5,			59.1
	01-May-10	5:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A				1	2,5,			59.1
	01-May-10	6:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A				1	2,5,			59.1
	01-May-10	7:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C	up	stay		4	2,5,6,7,8,9,			59.1
	01-May-10	8:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C				4	2,5,6,7,8,9,			59.1
	01-May-10	9:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C				4	2,5,6,7,8,9,			59.1
	01-May-10	10:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C				4	2,5,6,7,8,9,			59.1
	01-May-10	11:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C				4	2,5,6,7,8,9,			59.1
	01-May-10	12:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C				4	2,5,6,7,8,9,			59.1
	01-May-10	13:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11			59.1	
	01-May-10	14:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1	
	01-May-10	15:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1	
	01-May-10	16:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1	
	01-May-10	17:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1	
	01-May-10	18:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1	
	01-May-10	19:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1	
	01-May-10	20:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1	
	01-May-10	21:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				7	2,3,4,5,6,7,8,9,10,11			59.1	
	01-May-10	22:30:00				40540	0	4600	6340	6060	0	0	6130	8700	8710	0	0	0	None	C	down	stay		4	2,3,4,7,8,9,			59.1
	01-May-10	23:30:00				10730	0	4600	0	0	0	0	6130	0	0	0	0	0	None	A	down	stay		1	2,7,			59.1
	02-May-10	0:30:00				6430	0	4440	0	0	0	0	1990	0	0	0	0	0	None	A	down	stay		2,7,			62.5	
	02-May-10	1:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	0	None	A	up	stay		1	2,5,			62.5
	02-May-10	2:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	0	None	A				1	2,5,			62.5
	02-May-10	3:30:00																										



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	02-May-10	9:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,			62.5
	02-May-10	10:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C	up	stay		3	2,5,6,7,8,9,			62.5
	02-May-10	11:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				3	2,5,6,7,8,9,			62.5
	02-May-10	12:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				3	2,5,6,7,8,9,			62.5
	02-May-10	13:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				3	2,5,6,7,8,9,			62.5
	02-May-10	14:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C	up	stay		6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	15:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	16:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	17:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	18:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	19:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	20:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	21:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	22:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	23:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	0:30:00				6430	0	4440	0	0	0	0	1990	0	0	0	0	None	A	down	stay		2,7,			62.5	
	02-May-10	1:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A	up	stay		1	2,5,			62.5
	02-May-10	2:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,			62.5
	02-May-10	3:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,			62.5
	02-May-10	4:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,			62.5
	02-May-10	5:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,			62.5
	02-May-10	6:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,			62.5
	02-May-10	7:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,			62.5
	02-May-10	8:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,			62.5
	02-May-10	9:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,			62.5
	02-May-10	10:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C	up	stay		3	2,5,6,7,8,9,			62.5
	02-May-10	11:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				3	2,5,6,7,8,9,			62.5
	02-May-10	12:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				3	2,5,6,7,8,9,			62.5
	02-May-10	13:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				3	2,5,6,7,8,9,			62.5
	02-May-10	14:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	15:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	16:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	17:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	18:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	19:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	20:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	21:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	22:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	23:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11			62.5
	03-May-10	0:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay		1	2,5,			65.5
	03-May-10	1:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,			65.5
	03-May-10	2:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,			65.5
	03-May-10	3:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,			65.5
	03-May-10	4:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,			65.5
	03-May-10	5:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,			65.5
	03-May-10	6:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,			65.5
	03-May-10	7:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,			65.5
	03-May-10	8:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,			65.5
	03-May-10	9:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,			65.5
	03-May-10	10:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,			65.5
21-114 (A1)	03-May-10	11:12:52	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,		Staying down after many gen chnages	65.5
	03-May-10	11:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1	2,5,			65.5
	03-May-10	12:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,11			65.5
	03-May-10	13:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11			65.5
21-114 (A1)	03-May-10	NA	NA	Start Upper Tailrace Detection (Start UT Foray 5)		0												None	A								65.5
21-114 (A1)	03-May-10	14:02:47	"A" Gate Aerial	Start EFL Aerial Detection	C	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C		up		6	1,2,3,4,5,6,7,8,9,11		move up after gen increase	65.5
	03-May-10	14:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11			65.5
	03-May-10	15:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11			65.5
	03-May-10	16:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11			65.5
21-114 (A1)	03-May-10	16:31:26	"C" Gate Aerial	End EFL Aerial Detection	C	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0											

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flo w	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
21-114 (A1)	03-May-10	19:00:06	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11			65.5
21-114 (A1)	03-May-10	22:24:47	Tomes Landing (East Shore) (Near-Field)	Start Lower River		73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C	up	stay		7	1,2,3,4,5,6,7,8,9,10,11			65.5
21-114 (A1)	07-May-10	18:13:43	Spencer Island West (Near-Field)	End Lower River		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay		6	2,3,4,5,6,7,8,9,11			69.4
21-114 (A1)	08-May-10	3:38:13	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		1	2,5,			69.2
	08-May-10	4:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-114 (A1)	08-May-10	5:06:39	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	5:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-114 (A1)	08-May-10	5:30:50	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		up		1	2,5,	move up after gen increase		69.2
	08-May-10	6:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	7:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	8:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-114 (A1)	08-May-10	8:39:00	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-114 (A1)	08-May-10	8:41:16	"A" Gate Aerial	End EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-114 (A1)	08-May-10	8:48:57	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-114 (A1)	08-May-10	8:55:06	"A" Gate Aerial	End EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	9:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-114 (A1)	08-May-10	10:21:55	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	10:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-114 (A1)	08-May-10	10:30:03	"A" Gate Entrance Dropper	Start EFL	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-114 (A1)	08-May-10	10:53:15	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-114 (A1)	08-May-10	11:27:31	Conwingo Fishway Exit Trough	Passage		39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	up	stay		4	2,5,6,7,8,9,	1 moved into zone C; passed at 39K		69.2

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)		
21-119 (A1)	22-Apr-10	13:02:00	Conwingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,				58.1	
21-119 (A1)	27-Apr-10	6:21:27	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1 5,7,			LR = Lower River	60.6	
21-119 (A1)	27-Apr-10	6:21:27	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1 5,7,			LR	60.6	
21-119 (A1)	27-Apr-10	12:55:00	East of Bird Island (Lower Bird Island)	Transition either upstream or downstream		23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	stay		2 4,5,6,7,			LR	60.6	
21-119 (A1)	NA	NA	NA	Start Tailrace Detection 2		0												None	A							LR		
21-119 (A1)	NA	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A								LR	
21-119 (A1)	28-Apr-10	13:02:27	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	up		4 4,5,6,7,8,9,			move up as gen starts to increase	58.7	
	28-Apr-10	13:30:00			B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4 4,5,6,7,8,9,				58.7	
	28-Apr-10	14:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4 4,5,6,7,8,9,				58.7	
	28-Apr-10	15:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4 4,5,6,7,8,9,				58.7	
	28-Apr-10	16:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4 4,5,6,7,8,9,				58.7	
	28-Apr-10	17:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4 4,5,6,7,8,9,				58.7	
	28-Apr-10	18:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4 4,5,6,7,8,9,				58.7	
	28-Apr-10	19:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4 4,5,6,7,8,9,				58.7	
	28-Apr-10	20:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4 4,5,6,7,8,9,				58.7	
	28-Apr-10	21:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4 4,5,6,7,8,9,				58.7	
	28-Apr-10	22:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4 4,5,6,7,8,9,				58.7	
	28-Apr-10	23:00:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4 4,5,6,7,8,9,				58.7	
	29-Apr-10	0:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A	down	stay		2 3,5,6,7,				56.8	
	29-Apr-10	1:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				2 3,5,6,7,				56.8	
	29-Apr-10	2:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				2 3,5,6,7,				56.8	
	29-Apr-10	3:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		1 5,7,				56.8	
	29-Apr-10	4:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1 5,7,				56.8	
	29-Apr-10	5:30:00			B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1 5,7,				56.8	
	29-Apr-10	6:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1 5,7,				56.8	
	29-Apr-10	7:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1 5,7,				56.8	
	29-Apr-10	8:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1 5,7,				56.8	
	29-Apr-10	9:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1 5,7,				56.8	
	29-Apr-10	10:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1 5,7,				56.8	
	29-Apr-10	11:30:00			B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1 5,7,				56.8	
	29-Apr-10	12:30:00			A/B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1 5,7,				56.8	
	29-Apr-10	13:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C	up	stay		6 1,2,3,4,5,6,7,8,9,10,				56.8
	29-Apr-10	14:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6 1,2,3,4,5,6,7,8,9,10,				56.8
	29-Apr-10	15:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6 1,2,3,4,5,6,7,8,9,10,				56.8
	29-Apr-10	16:30:00			A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6 1,2,3,4,5,6,7,8,9,10,				56.8
	29-Apr-10	17:30:00			A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6 1,2,3,4,5,6,7,8,9,10,				56.8
	29-Apr-10	18:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6 1,2,3,4,5,6,7,8,9,10,				56.8
	29-Apr-10	19:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6 1,2,3,4,5,6,7,8,9,10,				56.8
	29-Apr-10	20:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6 1,2,3,4,5,6,7,8,9,10,				56.8
	29-Apr-10	21:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6 1,2,3,4,5,6,7,8,9,10,				56.8
	29-Apr-10	22:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6 1,2,3,4,5,6,7,8,9,10,				56.8
	29-Apr-10	23:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		1 5,7,				56.8	
	30-Apr-10	0:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1 5,7,				57.1	
	30-Apr-10	1:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1 5,7,				57.1	
	30-Apr-10	2:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1 5,7,				57.1	
	30-Apr-10	3:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1 5,7,				57.1	
	30-Apr-10	4:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1 5,7,				57.1	
	30-Apr-10	5:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1 5,7,				57.1	
	30-Apr-10	6:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		5 4,5,6,7,8,9,11				57.1	
	30-Apr-10	7:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5 4,5,6,7,8,9,11				57.1	
	30-Apr-10	8:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5 4,5,6,7,8,9,11				57.1	
	30-Apr-10	9:30:00			A	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5 4,5,6,7,8,9,11				57.1	
	30-Apr-10	10:30:00			A/B	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None										





Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	03-May-10	12:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up	stay	6	1,2,3,4,5,6,7,8,9,11		LR	65.5	
	03-May-10	13:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	65.5
	03-May-10	14:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	65.5
21-119 (A1)	03-May-10	14:51:35	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11		Still down, despite significant gen changes	65.5
21-119 (A1)	NA	NA	NA	Start Upper Tailrace Detection (Start UT Foray 4)		0												None	A							LR	65.5
	03-May-10	15:30				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	65.5
	03-May-10	16:30				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	65.5
	03-May-10	17:30				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	65.5
	03-May-10	18:30				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	65.5
	03-May-10	19:30				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,10,11		LR	65.5	
	03-May-10	20:30				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	65.5
	03-May-10	21:30				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	65.5
	03-May-10	22:30				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	65.5
	03-May-10	23:30				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	65.5
	04-May-10	0:30				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	1:30				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	2:30				34030	0	4770	6120	5920	4820	6150	6250	0	0	0	0	None	A	down	stay	3	2,3,4,5,6,7		LR	68.1	
	04-May-10	3:30				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay	1	2,5		LR	68.1	
21-119 (A1)	04-May-10	3:49:03	"A" Gate Aerial	Start EFL Aerial Detection	C	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	up		1	2,5		Move up after gen decrease	68.1	
21-119 (A1)	04-May-10	3:49:23	"A" Gate Aerial	End EFL Aerial Detection	C	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5			68.1
21-119 (A1)	04-May-10	NA	NA	End Upper Tailrace Detection (End UT Foray 4)		0												None	A						1		68.1
	04-May-10	4:30				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5			68.1
21-119 (A1)	04-May-10	4:29:47	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A		down		1	2,5		Move down, no gen change	68.1
21-119 (A1)	04-May-10	5:25:34	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5			68.1
21-119 (A1)	04-May-10	NA	NA	Start Upper Tailrace Detection (Start UT Foray 5)		0												None	A								68.1
	04-May-10	5:30			E	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5			68.1
	04-May-10	6:30				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5			68.1
	04-May-10	7:30				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5			68.1
	04-May-10	8:30				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A	up	stay	2	2,5,6,7		LR	68.1	
	04-May-10	9:30				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7		LR	68.1
	04-May-10	10:30				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7		LR	68.1
	04-May-10	11:30				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7		LR	68.1
	04-May-10	12:30			E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay	7	2,3,4,5,6,7,8,9,10,11		LR	68.1	
21-119 (A1)	04-May-10	12:34:12	"C" Gate Aerial	Start EFL Aerial Detection	C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up			7	2,3,4,5,6,7,8,9,10,11		Move up after gen increase	68.1
21-119 (A1)	04-May-10	12:34:31	"C" Gate Aerial	End EFL Aerial Detection	C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	13:30:00			B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
21-119 (A1)	04-May-10	13:44:41	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	14:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	2		68.1
21-119 (A1)	04-May-10	14:48:49	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		down		7	2,3,4,5,6,7,8,9,10,11		move down, no gen change	68.1
	04-May-10	15:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	16:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	17:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	18:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	19:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	20:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	21:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	22:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	23:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay	1	2,5		LR	68.1	
	05-May-10	0:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5		LR	69.2
	05-May-10	1:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5		LR	69.2

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	05-May-10	18:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	2		69.2
21-119 (A1)	05-May-10	18:31:15	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		down		6	1,2,3,4,5,6,7,8,9,11		move down, no gen change	69.2
21-119 (A1)	05-May-10	18:46:29	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
21-119 (A1)	05-May-10	18:52:18	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		up		6	1,2,3,4,5,6,7,8,9,11		move up, no gen change	69.2
	05-May-10	19:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
21-119 (A1)	05-May-10	19:46:58	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	2		69.2
21-119 (A1)	05-May-10	19:54:18	Rowland Island West (Near-Field)	Transition Downstream 7 (Upper Tailrace to Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		down		6	1,2,3,4,5,6,7,8,9,11		move down, no gen change	69.2
21-119 (A1)	05-May-10	20:08:09	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	05-May-10	20:30:00			E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	05-May-10	21:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	05-May-10	22:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	05-May-10	23:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	06-May-10	0:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		1	3,5		LR	69.2
	06-May-10	1:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5		LR	69.5
	06-May-10	2:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5		LR	69.5
	06-May-10	3:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5		LR	69.5
	06-May-10	4:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5		LR	69.5
	06-May-10	5:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5		LR	69.5
21-119 (A1)	06-May-10	5:47:35	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	A	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A		up		1	3,5		move up 7 hours after gne decrease	69.5
	06-May-10	6:30:00			A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	7:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	8:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	9:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	10:30:00			A	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	11:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	12:30:00			A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	13:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	14:30:00			B/C	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay		6	2,3,4,5,6,7,8,9,11			69.5
21-119 (A1)	06-May-10	14:53:03	"A" Gate Aerial	Start EFL Aerial Detection	C	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C				6	2,3,4,5,6,7,8,9,11			69.5
21-119 (A1)	06-May-10	14:53:48	"C" Gate Aerial	End EFL Aerial Detection	C	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C				6	2,3,4,5,6,7,8,9,11			69.5
	06-May-10	15:30:00				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C				6	2,3,4,5,6,7,8,9,11			69.5
	06-May-10	16:30:00			A	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	17:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
21-119 (A1)	06-May-10	17:36:00	"A" Gate Aerial	Start EFL Aerial Detection		67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
21-119 (A1)	06-May-10	18:10:39	"A" Gate Aerial	End EFL Aerial Detection	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	19:30:00			C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	20:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
21-119 (A1)	06-May-10	20:32:27	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11	3		69.5
21-119 (A1)	06-May-10	22:26:04	Rowland Island East (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	down		1	3,5		move down as gen decreases	69.5
	06-May-10	22:30:00			E	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5		LR	69.5
21-119 (A1)	06-May-10	22:35:20	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5		LR	69.5
21-119 (A1)	06-May-10	23:23:38	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A		up		1	3,5		move up after decrease	69.5
	06-May-10	23:30:00			B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
21-119 (A1)	06-May-10	23:33:10	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 9)	B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
21-119 (A1)	07-May-10	0:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	up	stay		2	2,4,5,7			69.4
	07-May-10	1:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7			69.4
	07-May-10	2:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7			69.4
	07-May-10	3:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7			69.4
	07-May-10	4:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7			69.4
	07-May-10	5:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A								

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	07-May-10	16:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-119 (A1)	07-May-10	17:04:30	"A" Gate Entrance Dropper	Last EFL Detection before being lifted	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	17:30:00			C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-119 (A1)	07-May-10	18:10:28	Conwingo Fishway Exit Trough	Passage		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11	3 moved through 3 zones; passed at 61K		69.4



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
21-121 (A1)	22-Apr-10	13:11:00	Conwingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A			1	5,7,			58.1	
21-121 (A1)	03-May-10	5:58:25	Rowland Island West (Near-Field)	Start Tailrace Detection 1		8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay	1	2,5,			65.5	
	03-May-10	6:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5,		move down	65.5	
	03-May-10	7:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5,		LR = Lower River	65.5	
	03-May-10	8:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5,		LR	65.5	
	03-May-10	9:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5,		LR	65.5	
	03-May-10	10:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5,		LR	65.5	
	03-May-10	11:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5,		LR	65.5	
	03-May-10	12:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up	stay	6	1,2,3,4,5,6,7,8,9,11			65.5	
	03-May-10	13:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C			6	1,2,3,4,5,6,7,8,9,11			65.5	
	03-May-10	14:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C			6	1,2,3,4,5,6,7,8,9,11			65.5	
	03-May-10	15:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C			6	1,2,3,4,5,6,7,8,9,11			65.5	
	03-May-10	16:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C			6	1,2,3,4,5,6,7,8,9,11			65.5	
	03-May-10	17:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C			6	1,2,3,4,5,6,7,8,9,11			65.5	
	03-May-10	18:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C			6	1,2,3,4,5,6,7,8,9,11			65.5	
21-121 (A1)	03-May-10	18:40:58	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C			6	1,2,3,4,5,6,7,8,9,11		stays down during increase	65.5	
21-121 (A1)	03-May-10	NA	NA	Start Upper Tailrace Detection (Start UT Foray 1)		0												None	A							65.5	
	03-May-10	19:30				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,10,11			65.5	
	03-May-10	20:30				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C			7	1,2,3,4,5,6,7,8,9,10,11			65.5	
21-121 (A1)	03-May-10	20:47:53	"C" Gate Aerial	Start EFL Aerial Detection	C	73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C		up		7	1,2,3,4,5,6,7,8,9,10,11		move up, no gen change	65.5
21-121 (A1)	03-May-10	20:59:14	"C" Gate Aerial	End EFL Aerial Detection	C	73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				7	1,2,3,4,5,6,7,8,9,10,11			65.5
	03-May-10	21:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				7	1,2,3,4,5,6,7,8,9,10,11			65.5
	03-May-10	22:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				7	1,2,3,4,5,6,7,8,9,10,11			65.5
	03-May-10	23:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				7	1,2,3,4,5,6,7,8,9,10,11			65.5
	04-May-10	0:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	1,2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	1:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	1,2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	2:30:00				34030	0	4770	6120	5920	4820	6150	6250	0	0	0	0	None	A	down	stay	3	2,3,4,5,6,7,			68.1	
	04-May-10	3:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay	1	2,5,			68.1	
	04-May-10	4:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			68.1	
	04-May-10	5:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			68.1	
21-121 (A1)	04-May-10	6:05:22	"A" Gate Aerial	Start EFL Aerial Detection	C	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			68.1
	04-May-10	6:30:00			C	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			68.1
	04-May-10	7:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			68.1
21-121 (A1)	04-May-10	8:03:25	"A" Gate Entrance Dropper	Start EFL	C	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			68.1
	04-May-10	8:30:00			C	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A	up	stay	2	2,5,6,7,			68.1	
21-121 (A1)	04-May-10	9:13:10	"A" Gate Crowder Dropper	End EFL	C	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7,			68.1
21-121 (A1)	04-May-10	9:21:23	"A" Gate Aerial	End EFL Aerial Detection	C	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7,			68.1
21-121 (A1)	04-May-10	NA	NA	End Upper Tailrace Detection (End UT Foray 1)		0												None	A							68.1	
	04-May-10	9:30				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7,			68.1
	04-May-10	10:30				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7,			68.1
	04-May-10	11:30				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7,	1		68.1
21-121 (A1)	04-May-10	12:03:08	Rowland Island East (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	down	7	2,3,4,5,6,7,8,9,10,11		move down after gen decreases then increases	68.1	
	04-May-10	12:30:00			E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	13:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	14:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	15:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	16:30:00			E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	17:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
21-121 (A1)	04-May-10	18:13:29	Rowland Island East (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	18:30:00			E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	19:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7				

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
21-121 (A1)	05-May-10	5:44:15	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A		down	1	2,5,		move down, no gen change	69.2
	05-May-10	6:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A			1	2,5,		LR	69.2
	05-May-10	7:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A			1	2,5,		LR	69.2
	05-May-10	8:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A			1	2,5,		LR	69.2
	05-May-10	9:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A			1	2,5,		LR	69.2
	05-May-10	10:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	0	None	A			1	2,5,		LR	69.2
	05-May-10	11:30:00			E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,11		LR	69.2
21-121 (A1)	05-May-10	11:35:06	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	05-May-10	12:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	05-May-10	13:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	05-May-10	14:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	05-May-10	15:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	05-May-10	16:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
21-121 (A1)	05-May-10	17:06:39	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		up		6	1,2,3,4,5,6,7,8,9,11		move up after gen increase	69.2
	05-May-10	17:30:00			B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	18:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	19:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	20:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	21:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	22:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	23:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	06-May-10	0:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A	down	stay	1	3,5,			69.5
	06-May-10	1:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	2:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	3:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	4:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	5:30:00			B	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	6:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	7:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	8:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	9:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	10:30:00			A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	11:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	12:30:00			A	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,			69.5
21-121 (A1)	06-May-10	13:15:44	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	A	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,	3		69.5
21-121 (A1)	06-May-10	13:25:47	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A		down	1	3,5,		move down after decrease in gen	69.5
	06-May-10	13:30:00			A/B/E	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			1	3,5,		LR	69.5
21-121 (A1)	06-May-10	14:11:53	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay		6	2,3,4,5,6,7,8,9,11		LR	69.5
21-121 (A1)	06-May-10	15:00:28	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C		up		6	2,3,4,5,6,7,8,9,11		move up after gen increase	69.5
	06-May-10	15:30:00			A/B	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C				6	2,3,4,5,6,7,8,9,11			69.5
	06-May-10	16:30:00			A/B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11			69.5
21-121 (A1)	06-May-10	17:22:02	"C" Gate Aerial	Start EFL Aerial Detection	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	17:30:00			B/C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
21-121 (A1)	06-May-10	17:31:26	"C" Gate Aerial	End EFL Aerial Detection	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
21-121 (A1)	06-May-10	17:50:16	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	18:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	19:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	20:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	21:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11	3		69.5
21-121 (A1)	06-May-10	22:04:40	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A	down	down	1	3,5,</			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	07-May-10	9:30:00			E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,	LR		69.4
	07-May-10	10:30:00			E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,	LR		69.4
	07-May-10	11:30:00			E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,	LR		69.4
21-121 (A1)	07-May-10	12:25:10	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		6	2,3,4,5,6,7,8,9,11	LR		69.4
	07-May-10	12:30:00			E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11	LR		69.4
21-121 (A1)	07-May-10	12:41:57	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C		up		6	2,3,4,5,6,7,8,9,11		move up after gen increase	69.4
	07-May-10	13:30:00			C	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay		5	2,4,5,6,7,8,9,11			69.4
	07-May-10	14:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	15:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	16:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-121 (A1)	07-May-10	17:23:05	"C" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	17:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-121 (A1)	07-May-10	17:34:15	"A" Gate Crowder Dropper	Start EFL	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-121 (A1)	07-May-10	17:38:18	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	18:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-121 (A1)	07-May-10	18:38:16	Conwingo Fishway Exit Trough	Passage		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11	2 moved between zones B and C; passed at 61K		69.4

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
21-122 (A1)	22-Apr-10	13:20:00	Conwingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1	5,7,			58.1
21-122 (A1)	23-Apr-10	11:06:33	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		4	4,5,6,7,8,9,		stays down after gen increase	59.7
	23-Apr-10	11:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7
	23-Apr-10	12:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7
21-122 (A1)	23-Apr-10	12:33:48	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7
21-122 (A1)	26-Apr-10	15:16:02	Lapidum (West Shore) (Near-Field)	Start Lower River		40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,		LR	60.9
21-122 (A1)	04-May-10	17:47:05	Lapidum (West Shore) (Near-Field)	End Lower River		68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11		LR	68.1
21-122 (A1)	05-May-10	4:06:15	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A	down	stay		1	2,5,		LR	69.2
	05-May-10	4:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5,		LR	69.2
21-122 (A1)	05-May-10	4:42:47	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5,		LR	69.2
21-122 (A1)	05-May-10	5:01:22	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		up		1	2,5,		moves up after gen decrease	69.2
	05-May-10	5:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-122 (A1)	05-May-10	6:00:08	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5,			69.2
	05-May-10	6:30:00			A	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5,	2		69.2
21-122 (A1)	05-May-10	7:02:44	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		down		1	2,5,		move down no gen change	69.2
	05-May-10	7:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5,		LR	69.2
	05-May-10	8:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5,		LR	69.2
	05-May-10	9:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5,		LR	69.2
	05-May-10	10:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5,		LR	69.2
	05-May-10	11:30:00			E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,11		LR	69.2
21-122 (A1)	05-May-10	11:54:57	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	05-May-10	12:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	69.2
21-122 (A1)	05-May-10	12:35:17	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		up		6	1,2,3,4,5,6,7,8,9,11		move up after gen increase	69.2
	05-May-10	13:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	14:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	15:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	16:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	17:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	18:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	19:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	20:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	21:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	22:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	23:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
	06-May-10	0:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		1	3,5,			69.5
	06-May-10	1:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	2:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	3:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	4:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	5:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	6:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	7:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	8:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	9:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	10:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	11:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	12:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,		stays up despite gen changes	69.5
	06-May-10	13:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5,			69.5
	06-May-10	14:30:00				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay		6	2,3,4,5,6,7,8,9,11			69.5
	06-May-10	15:30:00				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C				6	2,3,4,5,6,7,8,9,11			69.5
	06-May-10	16:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11			69.5
21-122 (A1)	06-May-10	17:29:																									



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	07-May-10	3:30:00			E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,		LR	69.4
	07-May-10	4:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,		LR	69.4
21-122 (A1)	07-May-10	4:33:34	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,		LR	69.4
21-122 (A1)	07-May-10	5:24:30	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A		up		2	2,4,5,7,		move up no gen change	69.4
	07-May-10	6:30:00			A	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,			69.4
	07-May-10	7:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,			69.4
21-122 (A1)	07-May-10	8:04:44	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,	2		69.4
21-122 (A1)	07-May-10	8:17:24	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C	up	down		4	2,4,5,6,7,8,		move down as gen increases	69.4
	07-May-10	8:30:00			B/E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,		LR	69.4
21-122 (A1)	07-May-10	8:43:21	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,		LR	69.4
	07-May-10	9:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,		LR	69.4
	07-May-10	10:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,		LR	69.4
21-122 (A1)	07-May-10	11:04:39	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C		up		4	2,4,5,6,7,8,		move up after increase	69.4
	07-May-10	11:30:00			A/C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,			69.4
	07-May-10	12:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	13:30:00			B	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay		5	2,4,5,6,7,8,9,11			69.4
	07-May-10	14:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	15:30:00			A/B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	16:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-122 (A1)	07-May-10	17:21:18	"C" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-122 (A1)	07-May-10	17:21:31	"C" Gate Aerial	End EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	17:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-122 (A1)	07-May-10	18:06:41	"A" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-122 (A1)	07-May-10	18:07:13	"A" Gate Aerial	End EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	18:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	19:30:00			A/B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-122 (A1)	07-May-10	19:51:35	"A" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-122 (A1)	07-May-10	20:06:17	"C" Gate Aerial	End EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
21-122 (A1)	07-May-10	20:10:08	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	20:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	21:30:00				34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	None	A	down	stay		3	2,3,4,5,6,7,			69.4
	07-May-10	22:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay		2	2,4,5,7,			69.4
	07-May-10	23:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				2	2,4,5,7,			69.4
	08-May-10	0:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		1	2,5,			69.2
	08-May-10	1:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	2:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	3:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	4:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	5:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,	3		69.2
21-122 (A1)	08-May-10	5:49:46	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		down		1	2,5,		move down after gen decrease	69.2
	08-May-10	6:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,		LR	69.2
	08-May-10	7:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,		LR	69.2
21-122 (A1)	08-May-10	7:48:03	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,		LR	69.2
21-122 (A1)	08-May-10	8:13:25	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		up		1	2,5,		move up, no gen change	69.2
	08-May-10	8:30:00			B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	9:30:00			A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-122 (A1)	08-May-10	10:16:43	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
	08-May-10	10:30:00			B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-122 (A1)	08-May-10	10:46:35	"A" Gate Entrance Dropper	Start EFL	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-122 (A1)	08-May-10	10:56:55	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				1	2,5,			69.2
21-122 (A1)	08-May-10	11:29:39	Conowingo Fishway Exit Trough	Passage		39450	0	4570	0																		

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-123 (A1)	22-Apr-10	13:21:00	Conowingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A			1	5,7,			58.1
21-123 (A1)	07-May-10	NA	NA	Start Tailrace Detection 1		0												None	A							69.4
21-123 (A1)	07-May-10	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A							69.4
21-123 (A1)	07-May-10	16:30:03	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay	6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	17:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	18:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	19:30:00			A/B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
21-123 (A1)	07-May-10	19:54:07	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	20:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	21:30:00				34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	None	A	down	stay	3	2,3,4,5,6,7,			69.4
	07-May-10	22:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay	2	2,4,5,7,			69.4
	07-May-10	23:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	0:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	1:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	2:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	3:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	4:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	5:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	6:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	7:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	8:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C	up	stay	4	2,4,5,6,7,8,			69.4
	07-May-10	9:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
	07-May-10	10:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
	07-May-10	11:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
	07-May-10	12:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay	6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	13:30:00				54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay	5	2,4,5,6,7,8,9,11			69.4
	07-May-10	14:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay	5	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	15:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	16:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11	still up despite gen changes		69.4
	07-May-10	17:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	18:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	19:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	20:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	21:30:00				34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	None	A	down	stay	3	2,3,4,5,6,7,			69.4
	07-May-10	22:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay	2	2,4,5,7,			69.4
	07-May-10	23:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	08-May-10	0:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay	1	2,5,			69.2
	08-May-10	1:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
	08-May-10	2:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
	08-May-10	3:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
	08-May-10	4:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
	08-May-10	5:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,	3 stays up after gen increase		69.2
21-123 (A1)	08-May-10	5:36:54	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		down	1	2,5,	move down after gen decrease		69.2
21-123 (A1)	08-May-10	5:46:48	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,	LR		69.2
21-123 (A1)	08-May-10	6:04:52	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		up	1	2,5,	move up no gen change		69.2
	08-May-10	6:30:00			A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
21-123 (A1)	08-May-10	7:01:06	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
21-123 (A1)	08-May-10	7:01:13	"A" Gate Aerial	End EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
21-123 (A1)	08-May-10	7:02:56	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
21-123 (A1)	08-May-10	7:03:43	"A" Gate Aerial	End EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
	08-May-10	7:30:00			C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
21-123 (A1)	08-May-10	8:23:56	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
	08-May-10	8:30:00			A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,	3		69.2
21-123 (A1)	08-May-10	8:34:10	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	9560																				

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)		
	08-May-10	13:30:00			C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				4	2,5,6,7,8,9			69.2	
	08-May-10	14:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				4	2,5,6,7,8,9			69.2	
	08-May-10	15:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				4	2,5,6,7,8,9			69.2	
	08-May-10	16:30:00			A/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				4	2,5,6,7,8,9			69.2	
21-123 (A1)	08-May-10	16:53:43	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				4	2,5,6,7,8,9	3		69.2	
21-123 (A1)	08-May-10	17:15:26	Rowland Island East (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C		down		4	2,5,6,7,8,9		move down, no gen change	69.2	
	08-May-10	17:30:00			E/F	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				4	2,5,6,7,8,9		LR	69.2	
	08-May-10	18:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				4	2,5,6,7,8,9		LR	69.2	
21-123 (A1)	08-May-10	19:24:53	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				4	2,5,6,7,8,9		LR	69.2	
21-123 (A1)	09-May-10	1:33:02	Tomes Landing (East Shore) (Near-Field)	Start Lower River		8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A	down	stay	1	2,5			LR	67.2	
21-123 (A1)	14-May-10	5:47:50	Lapidum (West Shore) (Near-Field)	End Lower River		72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,10,11			LR	58.4	
21-123 (A1)	14-May-10	16:38:06	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			LR	58.4
21-123 (A1)	14-May-10	17:51:21	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			LR	58.4
21-123 (A1)	14-May-10	17:52:48	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C		up		7	1,2,3,4,5,6,7,8,9,10,11		move up after gen increase	58.4	
	14-May-10	17:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			58.4	
21-123 (A1)	14-May-10	18:40:42	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			58.4	
21-123 (A1)	NA	NA	NA	Transition Downstream 5 (Upper Tailrace to Tailrace)		0												None	A									
21-123 (A1)	NA	NA	NA	End Tailrace Detection 2		0												None	A									
21-123 (A1)	15-May-10	0:51:55	Spencer Island West (Near-Field)	Start Lower River		9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A	down	stay	1	2,5				60.4	
21-123 (A1)	15-May-10	1:04:46	Spencer Island West (Near-Field)	End Lower River		9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5			60.4	
	15-May-10	1:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5			60.4	
	15-May-10	2:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5			60.4	
	15-May-10	3:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5	2		60.4	
21-123 (A1)	15-May-10	3:55:20	Rowland Island West (Near-Field)	Start Tailrace Detection 3	E	9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A		down		1	2,5		move down after gen decrease	60.4	
21-123 (A1)	15-May-10	3:55:20	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5			LR	60.4
	15-May-10	4:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5			LR	60.4
21-123 (A1)	15-May-10	5:16:02	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	A	9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A		up		1	2,5		move up, no gen change	60.4	
	15-May-10	5:30:00			A/B	9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5			60.4	
	15-May-10	6:30:00			A/B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	up	stay	3	2,3,4,5,6,7			60.4		
	15-May-10	7:30:00			A/B	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7			60.4	
	15-May-10	8:30:00			A/B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7			60.4	
	15-May-10	9:30:00			A/B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7		lateral movement around gen increase	60.4	
	15-May-10	10:30:00			A/B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7			60.4	
21-123 (A1)	15-May-10	11:06:19	"C" Gate Aerial	Start EFL Aerial Detection	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7			60.4	
21-123 (A1)	15-May-10	11:21:56	"C" Gate Upstream Dropper	Start EFL	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7			60.4	
	15-May-10	11:30:00			B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7			60.4	
	15-May-10	12:30:00			C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7			60.4	
21-123 (A1)	15-May-10	12:56:57	"A" Gate Crowder Dropper	End EFL	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7			60.4	
21-123 (A1)	15-May-10	13:06:22	"C" Gate Aerial	End EFL Aerial Detection	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7			60.4	
	15-May-10	13:30:00			A/B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7			60.4	
	15-May-10	14:30:00			B/C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C	up	stay	6	1,2,3,4,5,6,7,9,10,11			60.4		
21-123 (A1)	15-May-10	15:22:19	"C" Gate Aerial	Start EFL Aerial Detection	C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11			60.4	
	15-May-10	15:30:00			C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11			60.4	
21-123 (A1)	15-May-10	15:35:49	"C" Gate Aerial	End EFL Aerial Detection	C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11			60.4	
	15-May-10	16:30:00			A/B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11			60.4	
	15-May-10	17:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11			60.4	
21-123 (A1)	15-May-10	18:27:11	"C" Gate Aerial	Start EFL Aerial Detection	C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11			60.4	
21-123 (A1)	15-May-10	18:27:29	"C" Gate Aerial	End EFL Aerial Detection	C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11			60.4	
	15-May-10	18:30:00			A/B/C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11			60.4	
21-123 (A1)	15-May-10	19:19:28	Conow																									



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-123 (A1)	20-May-10	17:46:06	"A" Gate Entrance Dropper	Start EFL	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6,			62.5
21-123 (A1)	20-May-10	18:04:36	"A" Gate Entrance Dropper	End EFL	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6,			62.5
21-123 (A1)	20-May-10	NA	NA	End EFL Aerial Detection		0												None	A							62.5
	20-May-10	18:30			C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6,			62.5
21-123 (A1)	20-May-10	18:49:10	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	A	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6,			62.5
21-123 (A1)	20-May-10	NA	NA	Transition Downstream 7 (Upper Tailrace to Tailrace)		0												None	A							62.5
21-123 (A1)	20-May-10	NA	NA	End Tailrace Detection 4		0												None	A							62.5
21-123 (A1)	20-May-10	20:44:14	Lapidum (West Shore) (Near-Field)	Start Lower River		64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay	6	1,2,3,4,5,6,7,8,9,11			62.5
21-123 (A1)	22-May-10	2:56:53	Lapidum (West Shore) (Near-Field)	End Lower River		9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A	down	stay	1	2,5,	3		65.4
21-123 (A1)	22-May-10	14:20:10	Rowland Island West (Near-Field)	Start Tailrace Detection 5	E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C	up	down	5	1,2,3,4,5,6,8,9,		move down as gen increases	65.4
21-123 (A1)	22-May-10	14:30:10	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,		LR	65.4
21-123 (A1)	22-May-10	14:47:11	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	B	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C		up	5	1,2,3,4,5,6,8,9,		move up no gen change	65.4
	22-May-10	15:30:00			B/C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,			65.4
	22-May-10	16:30:00			A/B/C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,			65.4
21-123 (A1)	22-May-10	16:43:50	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,	3		65.4
21-123 (A1)	22-May-10	17:01:46	Rowland Island West (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C		down	5	1,2,3,4,5,6,8,9,		move down no gen change	65.4
	22-May-10	17:30:00			E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,		LR	65.4
21-123 (A1)	22-May-10	18:07:00	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,		LR	65.4
	22-May-10	18:30:00			E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,		LR	65.4
21-123 (A1)	22-May-10	18:42:53	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	B	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C		up	5	1,2,3,4,5,6,8,9,		move up no gen change	65.4
	22-May-10	19:30:00			B/C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,			65.4
21-123 (A1)	22-May-10	19:44:22	"C" Gate Aerial	Start EFL Aerial Detection	C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,			65.4
21-123 (A1)	22-May-10	19:51:00	"C" Gate Aerial	End EFL Aerial Detection	C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,			65.4
21-123 (A1)	22-May-10	20:17:13	Conowingo Tailrace Units 1-7 Master	End Upper Tailrace Detection (End UT Foray 9)		50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,	2		65.4
21-123 (A1)	22-May-10	20:26:33	Rowland Island West (Near-Field)	Transition Downstream 9 (Upper Tailrace to Tailrace)	E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C		down	5	1,2,3,4,5,6,8,9,		move down no gen change	65.4
21-123 (A1)	22-May-10	20:26:33	Rowland Island West (Near-Field)	End Tailrace Detection 5	E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C			5	1,2,3,4,5,6,8,9,		LR	65.4
21-123 (A1)	23-May-10	1:41:37	Lapidum (West Shore) (Near-Field)	Start Lower River		9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	67.9
21-123 (A1)	23-May-10	2:22:21	Lapidum (West Shore) (Near-Field)	End Lower River		9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A			1	2,5,		LR	67.9
21-123 (A1)	23-May-10	NA	NA	Start Tailrace Detection 6		0												None	A						LR	67.9
21-123 (A1)	23-May-10	NA	NA	Transition Upstream 10 (Tailrace to Upper Tailrace)		0												None	A						LR	67.9
21-123 (A1)	23-May-10	10:53:26	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 10)	B	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C	up	up	4	2,5,6,7,8,9,		move up after gen decrease	67.9
	22-May-10	11:30:00			A/B/C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A	down	stay	1	2,5,			65.4
	22-May-10	12:30:00			A/B/C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C	up	stay	5	1,2,3,4,5,6,8,9,			65.4
21-123 (A1)	23-May-10	13:18:26	"A" Gate Aerial	Start EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C	down	stay	3	2,5,6,7,8,			67.9
21-123 (A1)	23-May-10	13:22:36	"C" Gate Aerial	End EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9
	22-May-10	13:30:00			A/B/C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C	up	stay	5	1,2,3,4,5,6,8,9,			65.4
21-123 (A1)	23-May-10	13:31:45	"C" Gate Aerial	Start EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9
21-123 (A1)	23-May-10	13:32:29	"C" Gate Aerial	End EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9
21-123 (A1)	23-May-10	13:35:22	"C" Gate Aerial	Start EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9
21-123 (A1)	23-May-10	13:49:02	"C" Gate Aerial	End EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9
21-123 (A1)	23-May-10	14:11:08	"C" Gate Aerial	Start EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9
21-123 (A1)	23-May-10	14:13:55	"C" Gate Aerial	End EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9
	22-May-10	14:30:00			B/C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C	up	stay	5	1,2,3,4,5,6,8,9,			65.4
21-123 (A1)	23-May-10	14:39:29	"A" Gate Aerial	Start EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9
21-123 (A1)	23-May-10	14:53:40	"A" Gate Crowder Dropper	Start EFL	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9
21-123 (A1)	23-May-10	14:55:42	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9
21-123 (A1)	23-May-10	15:10:14	Conwingo Fishway Exit Trough	Passage		30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,	3	moved between 3 zones during a variety of flows; passed at 30K	67.9

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-124 (A1)	22-Apr-10	13:26:00	Conwingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A			1	5,7,			58.1
21-124 (A1)	30-Apr-10	22:42:50	Rowland Island East (Near-Field)	Start Tailrace Detection 1	E	9970	0	4940	0	0	5030	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	57.1
	30-Apr-10	23:30:00			E	9970	0	4940	0	0	5030	0	0	0	0	0	0	None	A			1	2,5,		LR	57.1
21-124 (A1)	01-May-10	0:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5,		LR	59.1
	01-May-10	1:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5,		LR	59.1
	01-May-10	2:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5,		LR	59.1
	01-May-10	3:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5,		LR	59.1
	01-May-10	4:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5,		LR	59.1
	01-May-10	5:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5,		LR	59.1
	01-May-10	6:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5,		LR	59.1
	01-May-10	7:30:00			E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C	up	stay	4	2,5,6,7,8,9,		LR	59.1
	01-May-10	8:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C			4	2,5,6,7,8,9,		LR	59.1
	01-May-10	9:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C			4	2,5,6,7,8,9,		LR	59.1
	01-May-10	10:30:00			E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C			4	2,5,6,7,8,9,		stays down despite gen changes	59.1
	01-May-10	11:30:00			E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C			4	2,5,6,7,8,9,		LR	59.1
	01-May-10	12:30:00			E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C			4	2,5,6,7,8,9,		LR	59.1
21-124 (A1)	01-May-10	12:03:27	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C			4	2,5,6,7,8,9,		LR	59.1
21-124 (A1)	04-May-10	7:07:46	Lapidum (West Shore) (Near-Field)	Start Lower River		9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	68.1
21-124 (A1)	05-May-10	8:19:38	Tomes Landing (East Shore) (Near-Field)	End Lower River		9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,		LR	69.2
21-124 (A1)	07-May-10	23:06:08	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	up	stay	2	2,4,5,7,		LR	69.4
21-124 (A1)	07-May-10	23:26:55	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
	07-May-10	23:30:00			E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
21-124 (A1)	07-May-10	23:49:13	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A		up	2	2,4,5,7,		move up after gen decrease	69.4
21-124 (A1)	08-May-10	0:30:00			A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay	1	2,5,			69.2
	08-May-10	1:30:00			B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
	08-May-10	2:30:00			A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
	08-May-10	3:30:00			A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
	08-May-10	4:30:00			B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
	08-May-10	5:30:00			A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
21-124 (A1)	08-May-10	5:59:32	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,		3	69.2
21-124 (A1)	08-May-10	6:11:25	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		down	1	2,5,		move down after gen decrease	69.2
	08-May-10	6:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,		LR	69.2
	08-May-10	7:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,		LR	69.2
	08-May-10	8:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,		LR	69.2
21-124 (A1)	08-May-10	9:27:44	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,		LR	69.2
21-124 (A1)	08-May-10	9:28:15	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		up	1	2,5,		move up no gen change	69.2
	08-May-10	9:30:00			B/E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
21-124 (A1)	08-May-10	10:15:12	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
21-124 (A1)	08-May-10	10:24:08	"A" Gate Aerial	End EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
	08-May-10	10:30:00			A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
21-124 (A1)	08-May-10	10:34:44	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
21-124 (A1)	08-May-10	10:45:22	"A" Gate Entrance Dropper	Start EFL	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2
21-124 (A1)	08-May-10	11:12:17	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	up	stay	4	2,5,6,7,8,9,			69.2
	08-May-10	11:30:00			C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	12:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
21-124 (A1)	08-May-10	12:42:53	Conwingo Fishway Exit Trough	Passage		39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,		3 moved through 3 zones at min gen; passed at 39K	69.2

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)		
21-127 (A1)	22-Apr-10	13:34:00	Conwingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A			1	5,7,		LR	58.1		
21-127 (A1)	23-Apr-10	15:52:01	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,		LR	59.7		
21-127 (A1)	23-Apr-10	16:17:10	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,		LR	59.7		
21-127 (A1)	23-Apr-10	16:27:40	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A		up	1	5,7,		1	move up no gen change	59.7	
	23-Apr-10	16:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A		down	1	5,7,			move down no gen change	59.7	
21-127 (A1)	23-Apr-10	16:35:14	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A		up	1	5,7,		1	move up no gen change	59.7	
21-127 (A1)	23-Apr-10	16:48:02	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A		down	1	5,7,			move down no gen change	59.7	
	23-Apr-10	17:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C		up	stay	4	4,5,6,7,8,9,		LR	59.7	
	23-Apr-10	18:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7	
21-127 (A1)	23-Apr-10	18:33:39	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7	
21-127 (A1)	23-Apr-10	20:38:39	Spencer Island West (Near-Field)	Start Lower River		40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7	
21-127 (A1)	26-Apr-10	15:08:55	Spencer Island West (Near-Field)	End Lower River		40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9,		LR	60.9	
21-127 (A1)	27-Apr-10	7:49:11	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		down	stay	1	5,7,		LR	60.6	
	27-Apr-10	8:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1	5,7,		LR	60.6	
	27-Apr-10	9:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A		up	stay	2	4,5,6,7,		LR	60.6	
	27-Apr-10	10:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				2	4,5,6,7,		LR	60.6	
	27-Apr-10	11:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				2	4,5,6,7,		LR	60.6	
	27-Apr-10	12:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				2	4,5,6,7,			stays down after gen increase and decrease	60.6
	27-Apr-10	13:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A		down	stay	1	5,6,		LR	60.6	
	27-Apr-10	14:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				1	5,6,		LR	60.6	
	27-Apr-10	15:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				1	5,6,		LR	60.6	
	27-Apr-10	16:30:00			B/E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		up	stay	6	2,3,4,5,6,7,8,9,11		LR	60.6	
	27-Apr-10	17:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11		LR	60.6	
21-127 (A1)	27-Apr-10	17:48:15	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11		LR	60.6	
21-127 (A1)	27-Apr-10	18:19:14	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C			up	6	2,3,4,5,6,7,8,9,11			move up after gen increase	60.6
	27-Apr-10	18:30:00			A/B	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11				60.6
21-127 (A1)	27-Apr-10	18:44:55	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11		2		60.6
21-127 (A1)	27-Apr-10	18:53:00	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C			down	6	2,3,4,5,6,7,8,9,11			move down no gen change	60.6
21-127 (A1)	27-Apr-10	19:07:45	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11		LR	60.6	
21-127 (A1)	27-Apr-10	20:58:51	Spencer Island West (Near-Field)	Start Lower River		59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11		LR	60.6	
21-127 (A1)	30-Apr-10	9:09:11	Spencer Island East (Near-Field)	End Lower River		49120	0	0	0	0	5030	5640	6180	8690	8770	0	9000	None	C		down	stay	5	4,5,6,7,8,9,11		LR	57.1	
21-127 (A1)	02-May-10	6:24:35	Rowland Island West (Near-Field)	Start Tailrace Detection 3	E	9170	0	4440	0	0	4730	0	0	0	0	0	0	0	None	A		down	stay	1	2,5,		LR	62.5
	02-May-10	6:30:00			E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,		LR	62.5	
	02-May-10	7:30:00			E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,		LR	62.5	
	02-May-10	8:30:00			E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,		LR	62.5	
	02-May-10	9:30:00			E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,		LR	62.5	
	02-May-10	10:30:00			E	34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C		up	stay	3	2,5,6,7,8,9,		LR	62.5	
	02-May-10	11:30:00			E	34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				3	2,5,6,7,8,9,		LR	62.5	
	02-May-10	12:30:00			E	34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				3	2,5,6,7,8,9,		LR	62.5	
	02-May-10	13:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				3	2,5,6,7,8,9,		LR	62.5	
	02-May-10	14:30:00			E	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C		up	stay	6	2,3,4,5,6,7,8,9,10,11		LR	62.5	
	02-May-10	15:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11		LR	62.5	
21-127 (A1)	02-May-10	16:28:09	Rowland Island West (Near-Field)	End Tailrace Detection 3	E	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11		LR	62.5	
21-127 (A1)	02-May-10	19:22:27	Lapidum (West Shore) (Near-Field)	Start Lower River		64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				6	2,3,4,5,6,7,8,9,10,11		LR	62.5	
21-127 (A1)	03-May-10	9:05:09	Lapidum (West Shore) (Near-Field)	End Lower River		8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A		down	stay	1	2,5,		LR	65.5	
21-127 (A1)	03-May-10	17:22:56	Rowland Island West (Near-Field)	Start Tailrace Detection 4	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C		up	stay	6	1,2,3,4,5,6,7,8,9,11		LR	65.5	
	03-May-10	17:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	65.5	
	03-May-10	18:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	65.5	
	03-May-10	19:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C		up	stay	7	1,2,3,4,5,6,7,8,9,10,11			stays down despite gen changes	65.5

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)		
	04-May-10	14:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1	
	04-May-10	15:30:00			A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	16:30:00			A/B/C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	17:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					7	2,3,4,5,6,7,8,9,10,11	some lateral movement		68.1
	04-May-10	18:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					7	2,3,4,5,6,7,8,9,10,11			68.1
21-127 (A1)	04-May-10	19:27:34	"C" Gate Aerial	Start EFL Aerial Detection	C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	19:30:00			C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					7	2,3,4,5,6,7,8,9,10,11			68.1
21-127 (A1)	04-May-10	19:39:44	"A" Gate Aerial	End EFL Aerial Detection	C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					7	2,3,4,5,6,7,8,9,10,11			68.1
21-127 (A1)	04-May-10	20:22:06	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					7	2,3,4,5,6,7,8,9,10,11	3		68.1
21-127 (A1)	04-May-10	20:28:06	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		down			7	2,3,4,5,6,7,8,9,10,11	move down no gen change		68.1
	04-May-10	20:30:00			A/B/E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					7	2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	21:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					7	2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	22:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					7	2,3,4,5,6,7,8,9,10,11		LR	68.1
	04-May-10	23:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay			1	2,5		LR	68.1
	05-May-10	0:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5		LR	69.2
	05-May-10	1:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5		LR	69.2
	05-May-10	2:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5		LR	69.2
	05-May-10	3:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5		LR	69.2
	05-May-10	4:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5	no movement after gen decrease		69.2
	05-May-10	5:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5		LR	69.2
	05-May-10	6:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5		LR	69.2
	05-May-10	7:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5		LR	69.2
	05-May-10	8:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5		LR	69.2
21-127 (A1)	05-May-10	9:15:22	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5		LR	69.2
21-127 (A1)	05-May-10	9:16:15	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		up			1	2,5	move up, no gen change		69.2
	05-May-10	9:30:00			A/B/E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5			69.2
	05-May-10	10:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					1	2,5			69.2
	05-May-10	11:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	12:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11	3 moved between zones during 2 flows; moved down at 64K		69.2
	05-May-10	13:30:00			E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11	move down briefly after gen increase		69.2
	05-May-10	14:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11	back up no gen change		69.2
	05-May-10	15:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	16:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	17:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	18:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11			69.2
21-127 (A1)	05-May-10	18:56:11	"C" Gate Aerial	Start EFL Aerial Detection	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11			69.2
21-127 (A1)	05-May-10	19:06:42	"C" Gate Aerial	End EFL Aerial Detection	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	19:30:00			C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	20:30:00			A/B/E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	21:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	22:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	23:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C					6	1,2,3,4,5,6,7,8,9,11			69.2
	06-May-10	0:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay			1	3,5			69.5
	06-May-10	1:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	2:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	3:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	4:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	5:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	6:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	7:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	8:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	9:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	10:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	11:30:00			A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	12:30:00			B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	13:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					1	3,5			69.5
	06-May-10	14:30:00			A/B	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay			6	2,3,4,5,6,7,8,9,11	lateral movement and gen changes but still in UT		69.5
	06-May-10	15:30:00																										



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-127 (A1)	06-May-10	20:07:27	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C		down	7	2,3,4,5,6,7,8,9,10,11		move down 6 hours after gen increase	69.5
	06-May-10	20:30:00			B/E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11		LR	69.5
	06-May-10	21:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11		LR	69.5
	06-May-10	22:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay	1	3,5,		LR	69.5
	06-May-10	23:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,		LR	69.5
	07-May-10	0:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	up	stay	2	2,4,5,7,		LR	69.4
	07-May-10	1:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
	07-May-10	2:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
	07-May-10	3:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
	07-May-10	4:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
	07-May-10	5:30:00			E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
21-127 (A1)	07-May-10	5:43:32	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
21-127 (A1)	07-May-10	5:49:27	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A		up	2	2,4,5,7,		move up after gen decrease	69.4
	07-May-10	6:30:00			A	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	7:30:00			A/B/C	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	8:30:00			A/B	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C	up	stay	4	2,4,5,6,7,8,			69.4
	07-May-10	9:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
	07-May-10	10:30:00			A/B	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
	07-May-10	11:30:00			B/C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
21-127 (A1)	07-May-10	11:51:14	"C" Gate Aerial	Start EFL Aerial Detection	C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
21-127 (A1)	07-May-10	11:57:50	"A" Gate Crowder Dropper	Start EFL	C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
21-127 (A1)	07-May-10	12:00:51	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
	07-May-10	12:30:00			C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay	6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	13:30:00				54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay	5	2,4,5,6,7,8,9,11			69.4
21-127 (A1)	07-May-10	14:20:56	Conwingo Fishway Exit Trough	Passage		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay	6	2,3,4,5,6,7,8,9,11	3	moved through 3 zones; passed at 61K	69.4



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
21-132 (A1)	28-Apr-10	11:35:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7
21-132 (A1)	07-May-10	13:06:01	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay	5	2,4,5,6,7,8,9,11	LR		69.4	
21-132 (A1)	07-May-10	13:24:31	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C			5	2,4,5,6,7,8,9,11	LR		69.4	
	07-May-10	13:30:00			E	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C			5	2,4,5,6,7,8,9,11	LR		69.4	
21-132 (A1)	07-May-10	13:38:18	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C		up		5	2,4,5,6,7,8,9,11	move up prior to gen increase		69.4
	07-May-10	14:30:00			A/B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay	6	2,3,4,5,6,7,8,9,11			69.4	
	07-May-10	15:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
	07-May-10	16:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
	07-May-10	17:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
21-132 (A1)	07-May-10	18:20:42	"A" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
21-132 (A1)	07-May-10	18:21:54	"C" Gate Aerial	End EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
	07-May-10	18:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
21-132 (A1)	07-May-10	18:38:22	"C" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
21-132 (A1)	07-May-10	18:49:40	"A" Gate Crowder Dropper	Start EFL	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
21-132 (A1)	07-May-10	18:51:01	"A" Gate Crowder Dropper	End EFL	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
21-132 (A1)	07-May-10	18:54:43	"C" Gate Aerial	End EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
	07-May-10	19:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
	07-May-10	20:30:00			B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4	
	07-May-10	21:30:00				34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	None	A	down	stay	3	2,3,4,5,6,7,			69.4	
	07-May-10	22:30:00			B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay	2	2,4,5,7,			69.4	
	07-May-10	23:30:00			B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,	some lateral movement and gen changes but no movement from UT		69.4	
	08-May-10	0:30:00			B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay	1	2,5,			69.2	
	08-May-10	1:30:00			B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	2:30:00			B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	3:30:00			B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	4:30:00			B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	5:30:00			A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
21-132 (A1)	08-May-10	6:22:00	"C" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
21-132 (A1)	08-May-10	6:27:22	"A" Gate Aerial	End EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	6:30:00			A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	7:30:00			A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	8:30:00			A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
21-132 (A1)	08-May-10	8:57:33	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
21-132 (A1)	08-May-10	9:11:58	"A" Gate Aerial	End EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
21-132 (A1)	08-May-10	9:19:12	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
21-132 (A1)	08-May-10	9:28:41	"A" Gate Entrance Dropper	Start EFL	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	9:30:00			C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
21-132 (A1)	08-May-10	10:09:40	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	10:30:00			C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,			69.2	
21-132 (A1)	08-May-10	10:45:39	Conwingo Fishway Exit Trough	Passage		9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,	3 searched 3 zones during various flows; passed at min gen		69.2	

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
21-135 (A1)	22-Apr-10	12:56:00	Conowingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1	5,7,			58.1
21-135 (A1)	02-May-10	6:10:55	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A	down	stay		1	2,5,		LR	62.5
	02-May-10	6:30:00			E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,		LR	62.5
	02-May-10	7:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,		LR	62.5
	02-May-10	8:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,		LR	62.5
	02-May-10	9:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				1	2,5,		LR	62.5
	02-May-10	10:30:00			E	34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C	up	stay		3	2,5,6,7,8,9,		LR	62.5
21-135 (A1)	02-May-10	10:46:32	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				3	2,5,6,7,8,9,		LR	62.5
21-135 (A1)	02-May-10	NA	NA	Start Upper Tailrace Detection (Start UT Foray 1)		0												None	A							LR	62.5
21-135 (A1)	02-May-10	18:10:08	"C" Gate Aerial	Start EFL Aerial Detection	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C	up	up	6	2,3,4,5,6,7,8,9,10,11		move up after gen increase	62.5	
21-135 (A1)	02-May-10	18:14:09	"A" Gate Crowder Dropper	Start EFL	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5	
	02-May-10	18:30:00			C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5	
21-135 (A1)	02-May-10	18:33:43	"C" Gate Entrance Dropper	End EFL	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5	
21-135 (A1)	02-May-10	18:36:00	"C" Gate Aerial	End EFL Aerial Detection	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5	
21-135 (A1)	02-May-10	NA	NA	End Upper Tailrace Detection (End UT Foray 1)		0												None	A							62.5	
21-135 (A1)	02-May-10	NA	NA	Transition Downstream 1 (Upper Tailrace to Tailrace)		0												None	A							62.5	
21-135 (A1)	02-May-10	NA	NA	End Tailrace Detection 1		0												None	A							62.5	
21-135 (A1)	02-May-10	22:22:27	Tomes Landing (East Shore) (Near-Field)	Start Lower River		64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5	
21-135 (A1)	03-May-10	4:26:00	Lapidum (West Shore) (Near-Field)	End Lower River		8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay	1	2,5,			65.5	
21-135 (A1)	04-May-10	17:03:03	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	down	7	2,3,4,5,6,7,8,9,10,11		move down afte gen decrease	68.1	
21-135 (A1)	04-May-10	17:11:43	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11		LR	68.1	
	04-May-10	17:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11		LR	68.1	
21-135 (A1)	04-May-10	17:43:35	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		up		7	2,3,4,5,6,7,8,9,10,11	1	move up after gen increase	68.1
	04-May-10	18:30:00			E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		down		7	2,3,4,5,6,7,8,9,10,11		move down, no gen change	68.1
21-135 (A1)	04-May-10	18:39:37	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		up		7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	19:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	20:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	21:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	22:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	23:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		1	2,5,			68.1
	04-May-10	0:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay		7	1,2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	1:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	1,2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	2:30:00				34030	0	4770	6120	5920	4820	6150	6250	0	0	0	0	None	A	down	stay		3	2,3,4,5,6,7,			68.1
	04-May-10	3:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		1	2,5,			68.1
	04-May-10	4:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			68.1
	04-May-10	5:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			68.1
	04-May-10	6:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			68.1
	04-May-10	7:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			68.1
	04-May-10	8:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A	up	stay		2	2,5,6,7,			68.1
	04-May-10	9:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7,			68.1
	04-May-10	10:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7,			68.1
	04-May-10	11:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7,			68.1
	04-May-10	12:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	13:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	14:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	15:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	16:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	17:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	18:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	19:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	20:30:00				68780	0	4770																			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
	05-May-10	11:30:00			B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay	6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	12:30:00			B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	13:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	14:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
21-135 (A1)	05-May-10	14:36:19	"C" Gate Aerial	Start EFL Aerial Detection	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
21-135 (A1)	05-May-10	14:36:58	"C" Gate Aerial	End EFL Aerial Detection	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
21-135 (A1)	05-May-10	15:21:28	"C" Gate Aerial	Start EFL Aerial Detection	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
21-135 (A1)	05-May-10	15:23:16	"C" Gate Aerial	End EFL Aerial Detection	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	15:30:00			B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11		gen changes, lateral movement, stays in UT	69.2
	05-May-10	16:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	17:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	18:30:00			B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	19:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	20:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	21:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	22:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	23:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	06-May-10	0:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay	1	3,5,			69.5
	06-May-10	1:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	2:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	3:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	4:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	5:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	6:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	7:30:00			B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	8:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	9:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	10:30:00			A	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	11:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	12:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
21-135 (A1)	06-May-10	13:17:05	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,		3	69.5
21-135 (A1)	06-May-10	13:25:21	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A		down	1	3,5,		move down after gen decrease	69.5
	06-May-10	13:30:00			B/C/E	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,		LR	69.5
21-135 (A1)	06-May-10	14:30:50	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay	6	2,3,4,5,6,7,8,9,11		LR	69.5
21-135 (A1)	06-May-10	14:40:53	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C		up	6	2,3,4,5,6,7,8,9,11		move up after gen increase	69.5
	06-May-10	15:30:00			A/B	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C			6	2,3,4,5,6,7,8,9,11			69.5
	06-May-10	16:30:00			A	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	stay	7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	17:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	18:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	19:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11			69.5
21-135 (A1)	06-May-10	20:03:42	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11		3	69.5
21-135 (A1)	06-May-10	20:13:29	Rowland Island East (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C		down	7	2,3,4,5,6,7,8,9,10,11		move down, no gen change	69.5
	06-May-10	20:30:00			C/E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11		LR	69.5
	06-May-10	21:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11		LR	69.5
	06-May-10	22:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay	1	3,5,		LR	69.5
	06-May-10	23:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,		LR	69.5
21-135 (A1)	07-May-10	0:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay	2	2,4,5,7,		LR	69.4
	07-May-10	1:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
	07-May-10	2:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
	07-May-10	3:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
	07-May-10	4:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,		LR	69.4
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Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-146 (A1)	10-May-10	12:36:00	Conowingo Tailrace	Release - Off of "A" Gate discharge		21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A			2	2,5,6,7,			64.5
21-146 (A1)	10-May-10	17:13:48	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	64.5
	10-May-10	17:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	64.5
	10-May-10	18:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	stay	4	2,5,6,7,8,9,		LR	64.5
	10-May-10	19:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C			4	2,5,6,7,8,9,		LR	64.5
	10-May-10	20:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C			4	2,5,6,7,8,9,		LR	64.5
	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C			4	2,5,6,7,8,9,		LR	64.5
	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	64.5
	10-May-10	23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	64.5
	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	2:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	4:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	5:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	6:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	stay	4	2,5,6,7,8,9,		LR	63.2
21-146 (A1)	11-May-10	7:17:28	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C			4	2,5,6,7,8,9,		LR	63.2
		7:30:00				0												None	A						LR	
21-146 (A1)	11-May-10	7:42:31	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C		up	4	2,5,6,7,8,9,		move up after gen increase	63.2
21-146 (A1)	11-May-10	7:49:14	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	C	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C			4	2,5,6,7,8,9,	2		63.2
21-146 (A1)	11-May-10	8:03:32	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C		down	4	2,5,6,7,8,9,		move down, no gen change	63.2
21-146 (A1)	11-May-10	8:07:50	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C			4	2,5,6,7,8,9,		LR	63.2
	11-May-10	8:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C			4	2,5,6,7,8,9,		LR	63.2
21-146 (A1)	11-May-10	8:39:35	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C		up	4	2,5,6,7,8,9,		move up no gen change	63.2
	11-May-10	9:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C			4	2,5,6,7,8,9,			63.2
	11-May-10	10:30:00				A/B	9570	0	4710	0	0	4860	0	0	0	0	0	None	A	down	stay	1	2,5,			63.2
	11-May-10	11:30:00				A/B	9570	0	4710	0	0	4860	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	12:30:00				A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	13:30:00				A/B	9570	0	4710	0	0	4860	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	14:30:00				A/B	9570	0	4710	0	0	4860	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	15:30:00				A/B	9570	0	4710	0	0	4860	0	0	0	0	0	None	A			1	2,5,			63.2
21-146 (A1)	11-May-10	15:37:26	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		lateral movement in UT	63.2
21-146 (A1)	11-May-10	15:47:33	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	16:30:00				A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	None	A			1	2,5,			63.2
21-146 (A1)	11-May-10	16:51:12	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
21-146 (A1)	11-May-10	17:26:10	"C" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	17:30:00				B/C	9570	0	4710	0	0	4860	0	0	0	0	0	None	A			1	2,5,			63.2
21-146 (A1)	11-May-10	17:38:37	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	A	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,	3		63.2
21-146 (A1)	11-May-10	17:44:07	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down	1	2,5,		move down nine hours after gen decrease	63.2
	11-May-10	18:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up	stay	5	2,3,4,5,6,7,8,9,		LR	63.2
	11-May-10	19:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C			5	2,3,4,5,6,7,8,9,		LR	63.2
21-146 (A1)	11-May-10	20:30:00	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C			5	2,3,4,5,6,7,8,9,		LR	63.2
	11-May-10	21:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C			5	2,3,4,5,6,7,8,9,		LR	63.2
	11-May-10	22:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay	1	2,5,			63.2
	11-May-10	23:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
	12-May-10	0:30:00				18480	0	4930	0	0	4940	0	0	0	0	8610	0	None	C	up	stay	2	2,5,10,			60.2
	12-May-10	1:30:00				13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C	down	stay	1	5,10,			60.2
	12-May-10	2:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	down	stay	1	2,5,			60.2
	12-May-10	3:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A			1	2,5,			60.2
	12-May-10	4:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A			1	2,5,			60.2
	12-May-10	5:30:00				42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up	stay	4	2,3,4,5,6,7,8,		LR	60.2
21-146 (A1)	12-May-10	6:24:48	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C		up	4	2,3,4,5,6,7,8,		move up after gen increase	60.2
	12-May-10	6:30:00				42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
21-146 (A1)	12-May-10	7:30:16	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0										



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-146 (A1)	12-May-10	12:34:23	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,		LR	60.2
21-146 (A1)	12-May-10	12:48:57	Conowingo Tailrace Unit 8 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A		up	1	2,5,7,		move up no gen change	60.2
	12-May-10	13:30:00			A/B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
21-146 (A1)	12-May-10	14:00:00	"C" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
21-146 (A1)	12-May-10	14:00:52	"C" Gate Aerial	End EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	14:30:00			B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
21-146 (A1)	12-May-10	15:13:51	"A" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,		lateral movement in UT	60.2
21-146 (A1)	12-May-10	15:16:18	"A" Gate Entrance Dropper	Start EFL	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	15:30:00			A/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
21-146 (A1)	12-May-10	15:40:13	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
21-146 (A1)	12-May-10	16:29:49	Conwingo Fishway Exit Trough	Passage		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,	3	moved between 3 zones and passed; no gen change	60.2

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
21-149 (A1)	10-May-10	12:34:00	Conowingo Tailrace	Release - Off of "A" Gate discharge		21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				2	2,5,6,7,			64.5
21-149 (A1)	10-May-10	15:20:07	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,	LR		64.5
21-149 (A1)	12-May-10	7:01:15	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up	stay		4	2,3,4,5,6,7,8,	LR		60.2
	12-May-10	7:30:00			E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,	LR		60.2
21-149 (A1)	12-May-10	7:46:50	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C		up		4	2,3,4,5,6,7,8,	move up after gen increase		60.2
21-149 (A1)	12-May-10	7:56:56	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,	2		60.2
21-149 (A1)	12-May-10	8:04:06	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C		down		4	2,3,4,5,6,7,8,	move down, no gen change		60.2
	12-May-10	8:30:00			E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,	LR		60.2
21-149 (A1)	12-May-10	8:51:13	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,	LR		60.2
	12-May-10	9:30:00				42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,	LR		60.2
21-149 (A1)	12-May-10	9:31:48	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C		up		4	2,3,4,5,6,7,8,	move up just prior to gen decrease		60.2
21-149 (A1)	12-May-10	9:39:21	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,			60.2
	12-May-10	10:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	down	stay		1	2,5,7,			60.2
	12-May-10	11:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,	2		60.2
21-149 (A1)	12-May-10	11:32:24	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A		down		1	2,5,7,	move down after gen decrease		60.2
21-149 (A1)	12-May-10	17:59:06	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,	LR		60.2
21-149 (A1)	12-May-10	21:12:26	Spencer Island West (Near-Field)	Start Lower River		74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C	up	stay		7	1,2,3,4,5,6,7,8,9,10,11	LR		60.2
21-149 (A1)	14-May-10	8:35:11	Spencer Island West (Near-Field)	End Lower River		72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	down	stay		7	1,2,3,4,5,6,7,8,9,10,11	LR		58.4
21-149 (A1)	14-May-10	NA	NA	Start Tailrace Detection 2		0												None	A						LR		58.4
21-149 (A1)	14-May-10	NA	NA	Transition Upstream 3 (Tailrace to Upper Tailrace)		0												None	A						LR		58.4
21-149 (A1)	14-May-10	12:46:48	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C	down	up		3	4,5,6,7,8,	move up after gen increase		58.4
	14-May-10	13:30:00			A	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay		7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	14:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	15:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	16:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	17:30:00			A/B/E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	18:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	19:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	20:30:00			B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	21:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	22:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	23:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A	down	stay		1	2,5,			58.4
	15-May-10	0:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5,			60.4
	15-May-10	1:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5,			60.4
	15-May-10	2:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5,			60.4
	15-May-10	3:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5,			60.4
	15-May-10	4:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5,			60.4
	15-May-10	5:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				1	2,5,			60.4
	15-May-10	6:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	up	stay		3	2,3,4,5,6,7,			60.4
	15-May-10	7:30:00			A	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7,			60.4
	15-May-10	8:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7,			60.4
	15-May-10	9:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7,			60.4
	15-May-10	10:30:00			A	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7,			60.4
	15-May-10	11:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7,			60.4
	15-May-10	12:30:00			A	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7,			60.4
	15-May-10	13:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				3	2,3,4,5,6,7,			60.4
	15-May-10	14:30:00			A/B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C	up	stay		6	1,2,3,4,5,6,7,9,10,11	little lateral movement in UT, gen changes		60.4
	15-May-10	15:30:00			A/B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11			60.4
	15-May-10	16:30:00			A/B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11			60.4
	15-May-10	17:30:00				63930	5240	4550	5960	5850	4850	5590	5930														

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
	16-May-10	8:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				4	2,3,4,5,6,7,8,			63.6
	16-May-10	9:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				4	2,3,4,5,6,7,8,			63.6
21-149 (A1)	16-May-10	10:30:39	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				4	2,3,4,5,6,7,8,	3		63.6
21-149 (A1)	16-May-10	10:33:03	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		down		4	2,3,4,5,6,7,8,		move down after multiple gen changes	63.6
21-149 (A1)	16-May-10	10:33:03	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				4	2,3,4,5,6,7,8,		LR	63.6
21-149 (A1)	16-May-10	13:18:07	Spencer Island West (Near-Field)	Start Lower River	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				4	2,3,4,5,6,7,8,		LR	63.6
21-149 (A1)	16-May-10	17:09:44	Spencer Island West (Near-Field)	End Lower River	E	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C	down	stay		7	1,2,3,4,5,6,7,8,9,10,11		LR	63.6
21-149 (A1)	16-May-10	20:28:57	Rowland Island West (Near-Field)	End Tailrace Detection 3	E	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	63.6
21-149 (A1)	16-May-10	21:00:58	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	63.6
21-149 (A1)	16-May-10	21:03:06	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C		up		7	1,2,3,4,5,6,7,8,9,10,11		move up after gen increase	63.6
21-149 (A1)	16-May-10	21:14:10	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A	down	stay		3	2,3,4,5,6,7,	1		63.6
21-149 (A1)	16-May-10	21:21:45	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A		down		3	2,3,4,5,6,7,		move down as gen decreases	63.6
	16-May-10	21:30:00			A/B/E	32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A				3	2,3,4,5,6,7,		LR	63.6
	16-May-10	22:30:00			E	32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A				3	2,3,4,5,6,7,		LR	63.6
21-149 (A1)	16-May-10	23:07:23	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A				3	2,3,4,5,6,7,		LR	63.6
	16-May-10	23:30:00			E	4780	0	0	0	0	4780	0	0	0	0	0	0	None	A	down	stay		5,			LR	63.6
	17-May-10	0:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A	up	stay		1	2,5,		LR	64.7
	17-May-10	1:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				1	2,5,		LR	64.7
	17-May-10	2:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				1	2,5,		LR	64.7
	17-May-10	3:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				1	2,5,		LR	64.7
	17-May-10	4:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				1	2,5,		LR	64.7
	17-May-10	5:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				1	2,5,		LR	64.7
21-149 (A1)	17-May-10	5:44:56	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				1	2,5,		move up after gen decrease	64.7
	17-May-10	6:30:00			A/B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	up	stay		4	2,3,4,5,6,7,8,			64.7
	17-May-10	7:30:00			A/B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				4	2,3,4,5,6,7,8,			64.7
	17-May-10	8:30:00			A/B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				4	2,3,4,5,6,7,8,			64.7
	17-May-10	9:30:00			A/B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				4	2,3,4,5,6,7,8,		lateral movement in UT	64.7
	17-May-10	10:30:00			A/B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				4	2,3,4,5,6,7,8,			64.7
	17-May-10	11:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11			64.7
21-149 (A1)	17-May-10	12:21:15	"C" Gate Aerial	Start EFL Aerial Detection	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.7
	17-May-10	12:30:00			C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.7
21-149 (A1)	17-May-10	12:39:00	"A" Gate Crowder Dropper	Start EFL	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.7
21-149 (A1)	17-May-10	12:45:41	"A" Gate Entrance Dropper	Last EFL Detection before being lifted	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.7
	17-May-10	13:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.7
21-149 (A1)	17-May-10	13:39:17	Conwingo Fishway Exit Trough	Passage		69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11	3	moved through 3 zones; passed at 69K	64.7

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
21-154 (A1)	10-May-10	17:14:00	Conwingo Tailrace	Release - Between Units 3 & 5		9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5
21-154 (A1)	10-May-10	18:10:04	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	stay		4	2,5,6,7,8,9,		LR	64.5
	10-May-10	18:30:00			E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,		LR	64.5
	10-May-10	19:30:00			E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,		LR	64.5
	10-May-10	20:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,		LR	64.5
	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,		LR	64.5
	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,		LR	64.5
	10-May-10	23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	64.5
	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		no movement despite gen changes	63.2
	11-May-10	2:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	4:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	5:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	6:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	stay		4	2,5,6,7,8,9,		LR	63.2
	11-May-10	7:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,		LR	63.2
21-154 (A1)	11-May-10	8:00:04	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,		LR	63.2
	11-May-10	8:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,		LR	63.2
21-154 (A1)	11-May-10	8:31:20	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C		up		4	2,5,6,7,8,9,		move up after gen increase	63.2
21-154 (A1)	11-May-10	8:59:05	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,	1		63.2
21-154 (A1)	11-May-10	9:22:32	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C		down		4	2,5,6,7,8,9,		move down no gen change	63.2
	11-May-10	9:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,		LR	63.2
	11-May-10	10:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,		LR	63.2
	11-May-10	11:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	12:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	13:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	14:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	15:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	16:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	17:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	18:30:00			E	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up	stay		5	2,3,4,5,6,7,8,9,		LR	63.2
	11-May-10	19:30:00			E/F	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				5	2,3,4,5,6,7,8,9,		LR	63.2
21-154 (A1)	11-May-10	19:58:06	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				5	2,3,4,5,6,7,8,9,		LR	63.2
21-154 (A1)	11-May-10	19:58:50	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C		up		5	2,3,4,5,6,7,8,9,		move up after gen increase	63.2
	11-May-10	20:30:00			A/B/C	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				5	2,3,4,5,6,7,8,9,			63.2
	11-May-10	21:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				5	2,3,4,5,6,7,8,9,			63.2
	11-May-10	22:30:00			B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,			63.2
21-154 (A1)	11-May-10	22:54:16	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	A	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	3		63.2
21-154 (A1)	11-May-10	23:14:27	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down		1	2,5,		move down after gen decrease	63.2
	11-May-10	23:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	12-May-10	0:30:00			E	18480	0	4930	0	0	4940	0	0	0	0	8610	0	None	C	up	stay		2	2,5,10,		LR	60.2
21-154 (A1)	12-May-10	1:23:17	Rowland Island East (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C	down	stay		1	5,10,		LR	60.2
	12-May-10	1:30:00			E	13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C				1	5,10,		LR	60.2
21-154 (A1)	12-May-10	1:47:28	Conowingo Tailrace Unit 8 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	C	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	down	up		1	2,5,		move up after decrease in gen	60.2
	12-May-10	2:30:00			A/B	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				1	2,5,			60.2
21-154 (A1)	12-May-10	2:56:52	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				1	2,5,	3		60.2
21-154 (A1)	12-May-10	3:05:45	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A		down		1	2,5,		move down no gen change	60.2
	12-May-10	3:30:00			E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				1	2,5,		LR	60.2
	12-May-10	4:30:00			E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				1	2,5,		LR	60.2
	12-May-10	5:30:00			E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up	stay		4	2,3,4,5,6,7,8,		LR	60.2
21-154 (A1)	12-May-10	5:31:18	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,		LR	60.2
21-154 (A1)	12-May-10	6:15:05	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C</								



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-154 (A1)	12-May-10	10:55:18	"A" Gate Entrance Dropper	Start EFL	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	11:30:00			C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
21-154 (A1)	12-May-10	11:46:18	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	12:30:00			C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
21-154 (A1)	12-May-10	12:31:08	Conwingo Fishway Exit Trough	Passage		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,	1	moved ito zone C and passed; no gen change	60.2

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)	
21-158 (A1)	12-May-10	11:40:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,			60.2
21-158 (A1)	NA	NA	NA	Start Tailrace Detection 1		0												None	A								
21-158 (A1)	NA	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A								
21-158 (A1)	20-May-10	6:16:26	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A	down	stay		1	2,5,			62.5
	20-May-10	6:30:00			A/B/C	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,			62.5
	20-May-10	7:30:00			A/B/C	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,	lateral movement in UT		62.5
	20-May-10	8:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C	up	stay		4	2,5,6,7,8,9,			62.5
	20-May-10	9:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9,			62.5
	20-May-10	10:30:00			B/C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9,			62.5
	20-May-10	11:30:00			B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9,			62.5
	20-May-10	12:30:00			A/B/C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9,			62.5
	20-May-10	13:30:00			E	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	down		6	1,2,3,4,5,6,7,8,9,11	3 moved through 3 zones; moved out at 65K		62.5
	20-May-10	14:30:00				64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				6	1,2,3,4,5,6,7,8,9,11			62.5
	20-May-10	15:30:00			A/B/C	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C	down	up		4	2,5,6,7,8,11	move up after gen decrease		62.5
21-158 (A1)	20-May-10	16:19:44	"A" Gate Aerial	Start EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A	down	stay		1	2,5,6,			62.5
	20-May-10	16:30:00			A/B/C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1	2,5,6,			62.5
21-158 (A1)	20-May-10	16:38:56	"A" Gate Entrance Dropper	Start EFL	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1	2,5,6,			62.5
21-158 (A1)	20-May-10	16:45:07	"A" Gate Entrance Dropper	End EFL	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1	2,5,6,			62.5
21-158 (A1)	20-May-10	16:47:04	"A" Gate Aerial	End EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1	2,5,6,			62.5
21-158 (A1)	20-May-10	16:58:33	Conowingo Tailrace Unit 10 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1	2,5,6,	3		62.5
21-158 (A1)	20-May-10	17:21:51	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A		down		1	2,5,6,		move down no gen change	62.5
	20-May-10	17:30:00			E	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1	2,5,6,	LR		62.5
	20-May-10	18:30:00			E	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1	2,5,6,	LR		62.5
	20-May-10	19:30:00			E	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,11			62.5
	20-May-10	20:30:00			E	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				6	1,2,3,4,5,6,7,8,9,11			62.5
	20-May-10	21:30:00			E	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				6	1,2,3,4,5,6,7,8,9,11			62.5
	20-May-10	22:30:00			E	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A	down	stay		1	2,5,	gen changes, no movement		62.5
	20-May-10	23:30:00			E	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,	LR		62.5
	21-May-10	0:30:00			E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,	LR		63.5
	21-May-10	1:30:00			E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,	LR		63.5
	21-May-10	2:30:00			E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,	LR		63.5
	21-May-10	3:30:00			E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,	LR		63.5
	21-May-10	4:30:00			E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,	LR		63.5
21-158 (A1)	21-May-10	5:03:26	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,	LR		63.5
21-158 (A1)	21-May-10	5:18:49	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A		up		1	2,5,	move up after gen decrease		63.5
	21-May-10	5:30:00			A/B/C/E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,			63.5
	21-May-10	6:30:00			A/B/C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,	lateral movement		63.5
	21-May-10	7:30:00			A/B/C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,			63.5
21-158 (A1)	21-May-10	7:47:46	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,	3		63.5
	21-May-10	8:30:00			E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A		down		1	2,5,	move down no gen change		63.5
	21-May-10	9:30:00				39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C	up	stay		4	2,5,6,7,8,9,	LR		63.5
21-158 (A1)	21-May-10	9:40:57	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,	LR		63.5
21-158 (A1)	21-May-10	10:21:19	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,	LR		63.5
	21-May-10	10:30:00			E	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,	LR		63.5
21-158 (A1)	21-May-10	10:39:51	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C		up		4	2,5,6,7,8,9,		move up after gen increase	63.5
21-158 (A1)	21-May-10	11:15:57	"A" Gate Aerial	Start EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,			63.5
	21-May-10	11:30:00			A/B/C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,			63.5
21-158 (A1)	21-May-10	11:38:24	"A" Gate Aerial	End EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,			63.5
21-158 (A1)	21-May-10	12:24:37	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,	3		63.5
21-158 (A1)	21-May-10	12:28:29	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C		down		4	2,5,6,7,8,9,		move down no gen change	63.5
	21-May-10	12:30:00			A/B/E	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,	LR		63.5
	21-May-10	13:30:00				39000	0	4620	0	0	4780	5940	6090	8710													

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
	22-May-10	1:30:00			D	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A		spillway	1,2,5,				65.4
	22-May-10	2:30:00			B/D	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A		spillway	1,2,5,				65.4
	22-May-10	3:30:00			D	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A		spillway	1,2,5,				65.4
	22-May-10	4:30:00			D	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A		spillway	1,2,5,				65.4
	22-May-10	5:30:00			B/D	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A		spillway	1,2,5,				65.4
	22-May-10	6:30:00			D	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A		spillway	1,2,5,				65.4
	22-May-10	7:30:00			B/D	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A		spillway	1,2,5,				65.4
21-158 (A1)	22-May-10	8:22:39	Conwingo Fishway Exit Trough	Passage		9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A		spillway	1,2,5,		4	moved through all zones; passed at min gen	65.4

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-169 (A1)	12-May-10	11:40:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1,2,5,7,			60.2
21-169 (A1)	20-May-10	0:01:15	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A	down	stay		1,2,5,		LR	62.5
	20-May-10	1:30:00			E	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1,2,5,		LR	62.5
	20-May-10	2:30:00			E	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1,2,5,		LR	62.5
21-169 (A1)	20-May-10	2:47:16	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1,2,5,		LR	62.5
21-169 (A1)	20-May-10	3:10:55	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		up		1,2,5,		move up no gen changes	62.5
	20-May-10	3:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1,2,5,			62.5
	20-May-10	4:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1,2,5,			62.5
	20-May-10	5:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1,2,5,			62.5
	20-May-10	6:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1,2,5,			62.5
	20-May-10	7:30:00			A/B/C	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1,2,5,			62.5
	20-May-10	8:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C	up	stay		4,2,5,6,7,8,9,		lateral movment in UT	62.5
21-169 (A1)	20-May-10	8:47:15	"A" Gate Aerial	Start EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,			62.5
21-169 (A1)	20-May-10	8:55:52	"A" Gate Aerial	End EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,			62.5
21-169 (A1)	20-May-10	9:27:48	"A" Gate Aerial	Start EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,			62.5
	20-May-10	9:30:00			B/C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,			62.5
21-169 (A1)	20-May-10	9:32:44	"A" Gate Aerial	End EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,			62.5
	20-May-10	10:30:00			A/B/C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,			62.5
21-169 (A1)	20-May-10	10:51:50	"A" Gate Aerial	Start EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,			62.5
21-169 (A1)	20-May-10	11:00:44	"A" Gate Aerial	End EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,			62.5
	20-May-10	11:30:00			B/C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,		lateral movement in UT	62.5
21-169 (A1)	20-May-10	12:06:00	"A" Gate Aerial	Start EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,			62.5
21-169 (A1)	20-May-10	12:14:25	"A" Gate Aerial	End EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,			62.5
	20-May-10	12:30:00			B/C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4,2,5,6,7,8,9,			62.5
	20-May-10	13:30:00			B	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay		6,1,2,3,4,5,6,7,8,9,11			62.5
	20-May-10	14:30:00			A/B/C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				6,1,2,3,4,5,6,7,8,9,11			62.5
	20-May-10	15:30:00			A/B/C	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C	down	stay		4,2,5,6,7,8,11			62.5
21-169 (A1)	20-May-10	16:01:10	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A	down	stay		1,2,5,6,			62.5
	20-May-10	16:30:00			A	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1,2,5,6,			62.5
	20-May-10	17:30:00				15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1,2,5,6,		3	62.5
21-169 (A1)	20-May-10	17:36:37	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A		down		1,2,5,6,		move down after gen decrease	62.5
21-169 (A1)	20-May-10	17:48:15	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1,2,5,6,		LR	62.5
21-169 (A1)	20-May-10	18:17:45	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A		up		1,2,5,6,		move up no gen change	62.5
	20-May-10	18:30:00			B	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1,2,5,6,			62.5
21-169 (A1)	20-May-10	18:57:45	"C" Gate Aerial	Start EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1,2,5,6,			62.5
21-169 (A1)	20-May-10	19:02:39	"C" Gate Aerial	End EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1,2,5,6,			62.5
21-169 (A1)	20-May-10	19:11:56	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1,2,5,6,		2	62.5
21-169 (A1)	20-May-10	19:16:38	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A		down		1,2,5,6,		move down no gen changes	62.5
21-169 (A1)	20-May-10	19:16:38	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1,2,5,6,		LR	62.5
21-169 (A1)	20-May-10	20:39:14	Lapidum (West Shore) (Near-Field)	Start Lower River		64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay		6,1,2,3,4,5,6,7,8,9,11		LR	62.5
21-169 (A1)	21-May-10	13:48:32	Tomes Landing (East Shore) (Near-Field)	End Lower River		39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C	down	stay		4,2,5,6,7,8,9,		LR	63.5
21-169 (A1)	21-May-10	17:47:38	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C	up	stay		7,1,2,3,4,5,6,7,8,9,10,11		LR	63.5
21-169 (A1)	21-May-10	18:44:03	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7,1,2,3,4,5,6,7,8,9,10,11		LR	63.5
	21-May-10	18:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7,1,2,3,4,5,6,7,8,9,10,11		LR	63.5
21-169 (A1)	21-May-10	19:14:50	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C		up		7,1,2,3,4,5,6,7,8,9,10,11		move up after gen increase	63.5
	21-May-10	19:30:00			B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7,1,2,3,4,5,6,7,8,9,10,11			63.5
21-169 (A1)	21-May-10	20:22:42	"C" Gate Aerial	Start EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7,1,2,3,4,5,6,7,8,9,10,11			63.5
	21-May-10	20:30:00			B/C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7,1,2,3,4,5,6,7,8,9,10,11			63.5
21-169 (A1)	21-May-10	20:38:47	"A" Gate Aerial	End EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7,1,2,3,4,5,6,7,8,9,10,11			63.5
21-169 (A1)	21-May-10	20:41:20	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7,1,2,3,4,			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
	22-May-10	5:30:00			A/B/C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,		some lateral movement in UT	65.4
21-169 (A1)	22-May-10	6:09:49	"C" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,			65.4
21-169 (A1)	22-May-10	6:10:20	"C" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,			65.4
	22-May-10	6:30:00			A/B/C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,			65.4
21-169 (A1)	22-May-10	6:46:21	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,	3		65.4
21-169 (A1)	22-May-10	6:47:51	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A		down	1	2,5,		move down no gen change	65.4
21-169 (A1)	22-May-10	7:24:16	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,		LR	65.4
	22-May-10	7:30:00			E	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,		LR	65.4
21-169 (A1)	22-May-10	8:00:20	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	A	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A		up	1	2,5,		move up no gen change	65.4
	22-May-10	8:30:00			A/B/C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,			65.4
21-169 (A1)	22-May-10	8:53:36	"A" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,			65.4
21-169 (A1)	22-May-10	8:54:27	"A" Gate Crowder Dropper	Start EFL	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,			65.4
21-169 (A1)	22-May-10	9:03:46	"C" Gate Entrance Dropper	Last EFL Detection before being lifted	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,			65.4
21-169 (A1)	22-May-10	9:23:00	Conwingo Fishway Exit Trough	Passage		9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A			1	2,5,	3	moved through 3 zones and passed at min gen	65.4

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-170 (A1)	10-May-10	15:05:00	Conwingo Tailrace	Release - Between Units 3 & 5		9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			64.5
21-170 (A1)	12-May-10	13:40:42	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	up	stay	1	2,5,7,		LR	60.2
21-170 (A1)	12-May-10	13:45:37	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,		LR	60.2
21-170 (A1)	12-May-10	14:17:15	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A		up	1	2,5,7,		move up no gen change	60.2
	12-May-10	14:30:00			B	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	15:30:00			A/B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	16:30:00			B	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
21-170 (A1)	12-May-10	17:02:54	"A" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,		lateral movement in UT	60.2
21-170 (A1)	12-May-10	17:11:00	"A" Gate Entrance Dropper	Start EFL	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
21-170 (A1)	12-May-10	17:17:23	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	17:30:00			B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
21-170 (A1)	12-May-10	17:49:48	Conwingo Fishway Exit Trough	Passage		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,	3	moved through 3 zones and passed; no gen change	60.2



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-171 (A1)	12-May-10	11:40:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
21-171 (A1)	23-May-10	NA	NA	Start Tailrace Detection 1		0												None	A							67.9
21-171 (A1)	23-May-10	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A							67.9
21-171 (A1)	23-May-10	17:06:16	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C	up	stay	3	2,5,6,7,8,			67.9
21-171 (A1)	23-May-10	17:07:20	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,	2		67.9
		17:30:00			A/B	0												None	A							67.9
21-171 (A1)	23-May-10	18:15:33	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C	up	down	4	2,5,6,7,8,9,		move down after gen increase	67.9
		18:30:00			E	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,		LR	67.9
		19:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,		LR	67.9
		20:30:00			E	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,		LR	67.9
		21:30:00			E	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,		LR	67.9
		22:30:00			E	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	67.9
	24-May-10	0:30:00			E	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,		gen changes, no movement	69.6
		1:30:00			E	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,		LR	69.6
		2:30:00			E	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,		LR	69.6
21-171 (A1)	24-May-10	3:06:22	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,		LR	69.6
21-171 (A1)	24-May-10	3:28:35	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,		move up after gen decrease	69.6
		3:30:00			B/E	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
		4:30:00			A/B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
		5:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
		6:30:00			A/B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
21-171 (A1)	24-May-10	7:01:41	"A" Gate Aerial	Start EFL Aerial Detection	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
21-171 (A1)	24-May-10	7:03:22	"A" Gate Aerial	End EFL Aerial Detection	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
		7:30:00			A/B/C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
21-171 (A1)	24-May-10	7:55:41	"A" Gate Aerial	Start EFL Aerial Detection	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
21-171 (A1)	24-May-10	8:01:09	"A" Gate Entrance Dropper	Start EFL	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,		lateral movement in UT, no gen changes	69.6
21-171 (A1)	24-May-10	8:06:35	"A" Gate Entrance Dropper	End EFL	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
21-171 (A1)	24-May-10	8:12:04	"A" Gate Aerial	End EFL Aerial Detection	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
		8:30:00			C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
21-171 (A1)	24-May-10	9:29:37	"A" Gate Aerial	Start EFL Aerial Detection	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
		9:30:00			A/B/C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
21-171 (A1)	24-May-10	9:38:18	"A" Gate Entrance Dropper	Start EFL	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
		10:30:00			C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
21-171 (A1)	24-May-10	10:55:53	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
		11:30:00			D	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6
21-171 (A1)	24-May-10	11:55:05	Conwingo Fishway Exit Trough	Passage		9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,	4	moved through 3 zones and passed at min gen	69.6

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S1	Water Temp. (°F)
21-174 (A1)	10-May-10	11:17:00	Conwingo Tailrace	Release - Between Units 7 & 8		21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A			2	2,5,6,7,			64.5
21-174 (A1)	10-May-10	18:05:05	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	stay	4	2,5,6,7,8,9,		LR	64.5
	10-May-10	18:30:00			E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C			4	2,5,6,7,8,9,		LR	64.5
	10-May-10	19:30:00			E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C			4	2,5,6,7,8,9,		LR	64.5
	10-May-10	20:30:00			E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C			4	2,5,6,7,8,9,		LR	64.5
	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C			4	2,5,6,7,8,9,		LR	64.5
	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	64.5
	10-May-10	23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	64.5
	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	2:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		gen changes, no movement	63.2
	11-May-10	4:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	5:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	6:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	stay	4	2,5,6,7,8,9,		LR	63.2
	11-May-10	7:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C			4	2,5,6,7,8,9,		LR	63.2
	11-May-10	8:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C			4	2,5,6,7,8,9,		LR	63.2
	11-May-10	9:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C			4	2,5,6,7,8,9,		LR	63.2
	11-May-10	10:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	63.2
	11-May-10	11:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
21-174 (A1)	11-May-10	12:04:06	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
21-174 (A1)	11-May-10	12:24:03	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up	1	2,5,		move up after gen decrease	63.2
	11-May-10	12:30:00			A/E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	13:30:00			A	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	14:30:00			A/B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	15:30:00			A/B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	16:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	17:30:00			A/B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
21-174 (A1)	11-May-10	18:11:28	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up	stay	5	2,3,4,5,6,7,8,9,	2		63.2
21-174 (A1)	11-May-10	18:13:15	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C		down	5	2,3,4,5,6,7,8,9,		move down after gen increase	63.2
	11-May-10	18:30:00			A/B/E	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C			5	2,3,4,5,6,7,8,9,		LR	63.2
21-174 (A1)	11-May-10	19:10:37	Rowland Island East (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C			5	2,3,4,5,6,7,8,9,		LR	63.2
	11-May-10	19:30:00			E/F	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C			5	2,3,4,5,6,7,8,9,		LR	63.2
	11-May-10	20:30:00			C	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C		up	5	2,3,4,5,6,7,8,9,		move up no gen changes	63.2
	11-May-10	21:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C			5	2,3,4,5,6,7,8,9,			63.2
21-174 (A1)	11-May-10	22:08:16	Conowingo Tailrace Unit 8 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C			5	2,3,4,5,6,7,8,9,			63.2
	11-May-10	22:30:00			B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay	1	2,5,		lateral movement in UT	63.2
	11-May-10	23:30:00			A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
21-174 (A1)	12-May-10	0:10:56	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A			1	2,5,			60.2
	12-May-10	0:30:00			B	18480	0	4930	0	0	4940	0	0	0	0	8610	0	None	C	up	stay	2	2,5,10,	3		60.2
21-174 (A1)	12-May-10	0:33:03	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C	down	down	1	5,10,		move down after gen increase	60.2
	12-May-10	1:30:00			E	13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C			1	5,10,		LR	60.2
21-174 (A1)	12-May-10	2:00:32	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	down	down	1	2,5,		LR	60.2
	12-May-10	2:30:00			E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A			1	2,5,		LR	60.2
21-174 (A1)	12-May-10	2:35:52	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A		up	1	2,5,		move up no gen changes	60.2
	12-May-10	3:30:00			A/B	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A			1	2,5,			60.2
	12-May-10	4:30:00			A/B/C	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A			1	2,5,			60.2
	12-May-10	5:30:00			B/C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up	stay	4	2,3,4,5,6,7,8,		lateral movement in UT	60.2
	12-May-10	6:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
	12-May-10	7:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
	12-May-10	8:30:00			B/C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
	12-May-10	9:30:00			A/B/C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
21-174 (A1)	12-May-10	9:57:45	"A" Gate Aerial	Start EFL Aerial Detection	C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
21-174 (A1)	12-May-10	10:07:00																								



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-138 (A1)	07-May-10	12:05:00	Conwingo Tailrace	Release - Downstream of "C" Gate		43490	0	4570	6010	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,3,4,5,6,7,8,			69.4
54-138 (A1)	08-May-10	11:15:35	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	down	stay	4	2,5,6,7,8,9,	LR		69.2
54-138 (A1)	08-May-10	11:30:05	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,	LR		69.2
	08-May-10	12:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,	LR		69.2
54-138 (A1)	08-May-10	12:31:09	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C		up	4	2,5,6,7,8,9,		move up after gen decrease	69.2
	08-May-10	13:30:00			B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	14:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	15:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	16:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	17:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	18:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	19:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	20:30:00			B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
54-138 (A1)	08-May-10	20:41:06	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	21:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	22:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	up	stay	1	2,5,			69.2
	08-May-10	23:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,	1		69.2
54-138 (A1)	09-May-10	0:11:56	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A		down	1	2,5,		move down after gen decrease	67.2
	09-May-10	0:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
	09-May-10	1:30:00			E/F	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
	09-May-10	2:30:00			E/F	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,		lateral movement	67.2
	09-May-10	3:30:00			E/F	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
	09-May-10	4:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
	09-May-10	5:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
54-138 (A1)	09-May-10	5:51:32	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,			67.2
54-138 (A1)	09-May-10	6:20:25	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A		up	1	2,5,		move up no gen change	67.2
	09-May-10	6:30:00			A/B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,			67.2
	09-May-10	7:30:00			A/B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,			67.2
	09-May-10	8:30:00			A/B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,			67.2
	09-May-10	9:30:00			B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,			67.2
	09-May-10	10:30:00			B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,			67.2
54-138 (A1)	09-May-10	10:51:01	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	2		67.2
54-138 (A1)	09-May-10	11:18:28	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A	up	down	3	2,3,4,5,6,7,		move down as gen increases	67.2
	09-May-10	11:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
	09-May-10	12:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR		67.2
	09-May-10	13:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR		67.2
	09-May-10	14:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR		67.2
	09-May-10	15:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR		67.2
	09-May-10	16:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR		67.2
	09-May-10	17:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR		67.2
	09-May-10	18:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR		67.2
	09-May-10	19:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR		67.2
	09-May-10	20:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR		67.2
	09-May-10	21:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A	down	stay	1	2,5,	LR		67.2
	09-May-10	22:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
	09-May-10	23:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
	10-May-10	0:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		gen decrease, no movement	64.5
	10-May-10	1:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,	LR		64.5
	10-May-10	2:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,	LR		64.5
	10-May-10	3:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,	LR		64.5
	10-May-10	4:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,	LR		64.5
	10-May-10	5:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,	LR		64.5
	10-May-10	6:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C	up	stay	3	2,5,6,7,8,	LR		64.5
	10-May-10	7:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C			3	2,5,6,7,8,	LR		64.5

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,	LR		64.5
	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,	LR		64.5
	10-May-10	23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		64.5
	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2
	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2
	11-May-10	2:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR	no movement despite gen changes	63.2
	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2
	11-May-10	4:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2
	11-May-10	5:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2
	11-May-10	6:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	stay		4	2,5,6,7,8,9,	LR		63.2
	11-May-10	7:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,	LR		63.2
	11-May-10	8:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,	LR		63.2
	11-May-10	9:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,	LR		63.2
54-138 (A1)	11-May-10	9:47:57	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,	LR		63.2
	11-May-10					9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,	LR		63.2
54-138 (A1)	11-May-10	10:30:00	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up		1	2,5,		move up after gen decrease	63.2
54-138 (A1)	11-May-10	11:11:56	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			63.2
	11-May-10	11:30:00			B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	1		63.2
54-138 (A1)	11-May-10	11:39:28	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down		1	2,5,		move down no gen change	63.2
	11-May-10	12:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2
	11-May-10	13:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2
	11-May-10	14:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2
	11-May-10	15:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2
	11-May-10	16:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2
54-138 (A1)	11-May-10	16:59:40	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2
54-138 (A1)	11-May-10	17:08:54	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up		1	2,5,		move up no gen change	63.2
	11-May-10	17:30:00			B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			63.2
54-138 (A1)	11-May-10	17:36:09	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			63.2
54-138 (A1)	11-May-10	17:36:29	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			63.2
	11-May-10	18:30:00			A/B	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up	stay		5	2,3,4,5,6,7,8,9,			63.2
	11-May-10	19:30:00			B	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				5	2,3,4,5,6,7,8,9,			63.2
54-138 (A1)	11-May-10	20:19:33	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				5	2,3,4,5,6,7,8,9,			63.2
	11-May-10	20:30:00			B	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				5	2,3,4,5,6,7,8,9,			63.2
	11-May-10	21:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				5	2,3,4,5,6,7,8,9,			63.2
	11-May-10	22:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,			63.2
	11-May-10	23:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	3		63.2
54-138 (A1)	11-May-10	23:39:18	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down		1	2,5,		move down after gen increase and decrease	63.2
	12-May-10	0:30:00			E	18480	0	4930	0	0	4940	0	0	0	0	8610	0	None	C	up	stay		2	2,5,10,	LR		60.2
	12-May-10	1:30:00				13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C	down	stay		1	5,10,	LR		60.2
	12-May-10	2:30:00			E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	down	stay		1	2,5,	LR		60.2
	12-May-10	3:30:00			E/F	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				1	2,5,	LR		60.2
	12-May-10	4:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				1	2,5,	LR		60.2
	12-May-10	5:30:00			E/F	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up	stay		4	2,3,4,5,6,7,8,	LR		60.2
54-138 (A1)	12-May-10	5:53:55	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,	LR		60.2
54-138 (A1)	12-May-10	6:17:43	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C		up		4	2,3,4,5,6,7,8,		move up after gen increase	60.2
	12-May-10	6:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,			60.2
	12-May-10	7:30:00			B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,			60.2
	12-May-10	8:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,			60.2
	12-May-10	9:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				4	2,3,4,5,6,7,8,			60.2
	12-May-10	10:30:00			B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	down	stay		1	2,5,7,		lateral movement in UT	60.2
	12-May-10	11:30:00			A/B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,			60.2
	12-May-10	12:30:00			A/B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				1	2,5,7,			60.2
54-138 (A1)	12-May-10	13:27:24	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	A	16000	0	4930	0	0	4940	0	6130														

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
	13-May-10	2:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay	1	2,5,		gen decrease no movement	58.8
	13-May-10	3:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,		LR	58.8
	13-May-10	4:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,		LR	58.8
54-138 (A1)	13-May-10	5:13:57	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,		LR	58.8
	13-May-10	5:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,		LR	58.8
54-138 (A1)	13-May-10	5:41:30	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	A	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		up	1	2,5,		move up four after gen decrease	58.8
	13-May-10	6:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
	13-May-10	7:30:00			B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
	13-May-10	8:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
	13-May-10	9:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
	13-May-10	10:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
	13-May-10	11:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,		lateral movement in UT	58.8
	13-May-10	12:30:00			A/B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
	13-May-10	13:30:00			B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
	13-May-10	14:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
	13-May-10	15:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
	13-May-10	16:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
54-138 (A1)	13-May-10	16:50:51	"A" Gate Aerial	Start EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
54-138 (A1)	13-May-10	16:56:06	"A" Gate Aerial	End EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,			58.8
	13-May-10	17:30:00			A/B	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C	up	stay	6	1,2,3,4,5,6,7,8,9,11			58.8
	13-May-10	18:30:00			B/C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C			6	1,2,3,4,5,6,7,8,9,11			58.8
54-138 (A1)	13-May-10	18:43:26	"C" Gate Aerial	Start EFL Aerial Detection	C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C			6	1,2,3,4,5,6,7,8,9,11			58.8
54-138 (A1)	13-May-10	18:43:58	"C" Gate Aerial	End EFL Aerial Detection	C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C			6	1,2,3,4,5,6,7,8,9,11			58.8
	13-May-10	19:30:00			A/B/C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C			6	1,2,3,4,5,6,7,8,9,11			58.8
54-138 (A1)	13-May-10	19:46:13	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C			6	1,2,3,4,5,6,7,8,9,11		3	58.8
54-138 (A1)	13-May-10	20:00:39	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C		down	6	1,2,3,4,5,6,7,8,9,11		move down after gen increase	58.8
	13-May-10	20:30:00			E	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C			6	1,2,3,4,5,6,7,8,9,11		LR	58.8
	13-May-10	21:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	58.8
	13-May-10	22:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,		LR	58.8
	13-May-10	23:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,		LR	58.8
	13-May-10	0:30:00				41450	0	3970	6180	5980	4550	5830	6160	8780	0	0	0	None	C	up	stay	4	2,3,4,5,6,7,8,		LR	58.8
	13-May-10	1:30:00				41450	0	3970	6180	5980	4550	5830	6160	8780	0	0	0	None	C			4	2,3,4,5,6,7,8,		LR	58.8
	13-May-10	2:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	58.8
	13-May-10	3:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A			1	2,5,		LR	58.8
54-138 (A1)	14-May-10	4:07:46	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A			1	2,5,		LR	58.4
	14-May-10	4:30:00			E	9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A			1	2,5,		LR	58.4
	14-May-10	5:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,10,11		LR	58.4
54-138 (A1)	14-May-10	6:03:16	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C		up	7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	6:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		move up after gen increase	58.4
54-138 (A1)	14-May-10	6:32:50	"C" Gate Aerial	Start EFL Aerial Detection	C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11			58.4
54-138 (A1)	14-May-10	6:33:10	"C" Gate Aerial	End EFL Aerial Detection	C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	7:30:00			B/C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	8:30:00			B/C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11			58.4
54-138 (A1)	14-May-10	8:34:25	"C" Gate Aerial	Start EFL Aerial Detection	C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11			58.4
54-138 (A1)	14-May-10	9:08:53	"C" Gate Aerial	End EFL Aerial Detection	C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	9:30:00			B/C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	10:30:00			B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	11:30:00				30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C	down	stay	3	4,5,6,7,8,		lateral movement in UT	58.4
	14-May-10	12:30:00				30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C			3	4,5,6,7,8,			58.4
	14-May-10	13:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	14:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11			58.4
	14-May-10	15:30:00				72680	5190	4430	5990	5830	4850															

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-138 (A1)	15-May-10	6:37:05	"C" Gate Aerial	Start EFL Aerial Detection	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,			60.4
54-138 (A1)	15-May-10	6:39:28	"C" Gate Aerial	End EFL Aerial Detection	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,			60.4
	15-May-10	7:30:00			B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,			60.4
	15-May-10	8:30:00			A/B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,			60.4
	15-May-10	9:30:00			B	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,	lateral movement in UT		60.4
	15-May-10	10:30:00			B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,			60.4
54-138 (A1)	15-May-10	11:22:41	"C" Gate Aerial	Start EFL Aerial Detection	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,			60.4
54-138 (A1)	15-May-10	11:29:20	"A" Gate Crowder Dropper	Start EFL	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,			60.4
	15-May-10	11:30:00			A/B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,			60.4
54-138 (A1)	15-May-10	12:10:07	"A" Gate Entrance Dropper	Last EFL Detection before being lifted	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,			60.4
54-138 (A1)	15-May-10	12:22:02	Conwingo Fishway Exit Trough	Passage		32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,	3	moved through 3 zones and passed at 33K	60.4



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-140 (A1)	07-May-10	12:55:00	Conowingo Tailrace	Release - Downstream of "C" Gate		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11		69.4	
54-140 (A1)	NA	NA	NA	Start Tailrace Detection 1		0												None	A							69.4	
54-140 (A1)	NA	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A							69.4	
54-140 (A1)	19-May-10	4:12:22	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4	
	19-May-10	4:30:00			A/B	0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4	
	19-May-10	5:30:00			B	0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4	
	19-May-10	6:30:00			B	0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4	
	19-May-10	7:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4	
	19-May-10	8:30:00				11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A	down	stay		1	6,7,		63.4	
	19-May-10	9:30:00				11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				1	6,7,		63.4	
	19-May-10	10:30:00			A/B/C	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				1	6,7,		63.4	
	19-May-10	11:30:00			B	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				1	6,7,		63.4	
54-140 (A1)	19-May-10	11:33:01	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	C	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A						3	Fish searched; likely no change in generation	63.4
	19-May-10	12:30:00				11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				1	6,7,		63.4	
54-140 (A1)	19-May-10	12:46:03	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A		down		1	6,7,	LR	63.4	
54-140 (A1)	19-May-10	13:08:51	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C	up	stay		5	3,4,6,7,8,9,11	LR	63.4	
	19-May-10	13:30:00			E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	LR	63.4	
54-140 (A1)	19-May-10	14:28:28	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C		up		5	3,4,6,7,8,9,11		63.4	
	19-May-10	14:30:00			A	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
	19-May-10	15:30:00			A/B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	2	Fish generally stayed in zone A; generation increased when in lower river (LR), brought fish up?	63.4
	19-May-10	16:30:00			E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C		down		5	3,4,6,7,8,9,11	LR	63.4	
	19-May-10	17:30:00			B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C		up		5	3,4,6,7,8,9,11		63.4	
54-140 (A1)	19-May-10	17:49:41	"A" Gate Aerial	Start EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
54-140 (A1)	19-May-10	17:51:49	"A" Gate Aerial	End EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
54-140 (A1)	19-May-10	18:06:19	"C" Gate Aerial	Start EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
54-140 (A1)	19-May-10	18:16:30	"C" Gate Aerial	End EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
	19-May-10	18:30:00			B/C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
54-140 (A1)	19-May-10	18:33:26	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	2	moved between B and C; no change in generation	63.4
54-140 (A1)	19-May-10	18:57:32	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C		down		5	3,4,6,7,8,9,11	LR	63.4	
	19-May-10	18:30:00			B/C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C		up		5	3,4,6,7,8,9,11	1	snuck and back down quickly; no change in generation	63.4
	19-May-10	19:30:00			E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C		down		5	3,4,6,7,8,9,11	LR	63.4	
	19-May-10	20:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	LR	63.4	
	19-May-10	21:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4	
	19-May-10	22:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4	
	19-May-10	23:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4	
	20-May-10	0:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A	down	stay		1	2,5,	LR	62.5	
	20-May-10	1:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,	LR	62.5	
	20-May-10	2:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,	LR	62.5	
	20-May-10	3:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,	LR	62.5	
	20-May-10	4:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,	LR	62.5	
54-140 (A1)	20-May-10	4:55:03	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,	LR	62.5	
54-140 (A1)	20-May-10	5:10:42	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		up		1	2,5,		62.5	
	20-May-10	5:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,		62.5	
	20-May-10	6:30:00			B/C	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,		62.5	
	20-May-10	7:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,		62.5	
	20-May-10	8:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C	up	stay		4	2,5,6,7,8,9,		62.5	
	20-May-10	9:30:00			B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9,		62.5	
	20-May-10	10:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9,		62.5	
54-140 (A1)	20-May-10	11:23:34	"A" Gate Aerial	Start EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9,		62.5	
54-140 (A1)	20-May-10	11:26:20	"A" Gate Aerial	End EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9,		62.5	
	20-May-10	11:30:00			B/C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9,		62.5	
	20-May-10	12:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9,		62.5	
	20-May-10	13:30:00				64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,11		62.5	
54-140 (A1)	20-May-10	14:20:43	"C" Gate Aerial	Start EFL Aerial Detection	C	64530	5490	4530																			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
	21-May-10	9:30:00			E	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C	up	down	4	2,5,6,7,8,9	LR		63.5	
	21-May-10	10:30:00			B/C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C		up		4	2,5,6,7,8,9		63.5	
54-140 (A1)	21-May-10	10:33:03	"A" Gate Aerial	Start EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9		63.5	
54-140 (A1)	21-May-10	11:04:00	"A" Gate Aerial	End EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9		63.5	
	21-May-10	11:30:00			A/B/C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9		63.5	
54-140 (A1)	21-May-10	11:48:14	"A" Gate Aerial	Start EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9		63.5	
	21-May-10	12:30:00			B/C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9		63.5	
54-140 (A1)	21-May-10	12:55:18	"C" Gate Aerial	End EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9		63.5	
	21-May-10	13:30:00			B	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9		63.5	
	21-May-10	14:30:00			A/B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,10,11		63.5		
54-140 (A1)	21-May-10	14:50:02	"C" Gate Aerial	Start EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11		63.5	
54-140 (A1)	21-May-10	15:27:05	"C" Gate Aerial	End EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11		63.5	
	21-May-10	15:30:00			B/C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11		63.5	
	21-May-10	16:30:00			A/B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11		63.5	
	21-May-10	17:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11		63.5	
	21-May-10	18:30:00			B/C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11		63.5	
54-140 (A1)	21-May-10	18:49:14	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11	3	search pattern when at 40K; increase in flow to 74K seems to slowly drive the fish down stream	63.5
54-140 (A1)	21-May-10	19:06:15	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C		down		7	1,2,3,4,5,6,7,8,9,10,11	LR	63.5	
	21-May-10	19:30:00			E	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11	LR	63.5	
	21-May-10	20:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11	LR	63.5	
	21-May-10	21:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11	LR	63.5	
	21-May-10	22:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A	down	stay		1,2,5		LR	63.5	
	21-May-10	23:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1,2,5		LR	63.5	
54-140 (A1)	22-May-10	0:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5		LR	65.4	
	22-May-10	1:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5		LR	65.4	
	22-May-10	2:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5		LR	65.4	
54-140 (A1)	22-May-10	3:16:32	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5		LR	65.4	
	22-May-10	3:30:00			E	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5		LR	65.4	
54-140 (A1)	22-May-10	4:00:57	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A		up		1,2,5			65.4	
	22-May-10	4:30:00			B	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	5:30:00			A/B	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-140 (A1)	22-May-10	6:07:39	"C" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-140 (A1)	22-May-10	6:07:46	"C" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	6:30:00			B/C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	7:30:00			B	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	8:30:00			A/B	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	9:30:00			B	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-140 (A1)	22-May-10	10:06:20	"A" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-140 (A1)	22-May-10	10:16:50	"A" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	10:30:00			B/C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-140 (A1)	22-May-10	10:31:31	"C" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-140 (A1)	22-May-10	10:33:09	"C" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	11:30:00			C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-140 (A1)	22-May-10	11:42:16	"A" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-140 (A1)	22-May-10	11:55:03	"C" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	12:30:00			C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C	up	stay		5	1,2,3,4,5,6,8,9		65.4	
	22-May-10	13:30:00			B	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9		65.4	
54-140 (A1)	22-May-10	13:46:44	"A" Gate Aerial	Start EFL Aerial Detection	C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9		65.4	
54-140 (A1)	22-May-10	14:00:09	"A" Gate Aerial	End EFL Aerial Detection	C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9		65.4	
54-140 (A1)	22-May-10	14:10:41	"A" Gate Aerial	Start EFL Aerial Detection	C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9		65.4	
54-140 (A1)	22-May-10	14:27:46	"A" Gate Crowder Dropper	Start EFL	C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9		65.4	
	22-May-10	14:30:00																									

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-142 (A1)	18-May-10	NA	NA	Transition Upstream 7 (Tailrace to Upper Tailrace)														None								64.5
54-142 (A1)	18-May-10	19:12:45	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11		64.5
	18-May-10	19:30:00			A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11		64.5
54-142 (A1)	18-May-10	20:03:19	"C" Gate Aerial	Start EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11		64.5
54-142 (A1)	18-May-10	20:03:39	"C" Gate Aerial	End EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11		64.5
54-142 (A1)	18-May-10	20:04:36	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11		64.5
	18-May-10	20:30:00			B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11		64.5
	18-May-10	21:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11		64.5
	18-May-10	22:30:00				29580	0	4380	0	0	4720	5890	6060	8530	0	0	0	None	C	down	stay		3	2,5,6,7,8,		64.5
	18-May-10	23:30:00				29580	0	4380	0	0	4720	5890	6060	8530	0	0	0	None	C				3	2,5,6,7,8,		64.5
	19-May-10	0:30:00				20100	0	0	0	0	0	6010	5940	8150	0	0	0	None	C	down	stay		2	6,7,8,	3 search pattern until gen dropped to 20K, then fish dropped downstream	63.4
54-142 (A1)	19-May-10	0:46:36	Rowland Island West (Near-Field)	Transition Downstream 7 (Upper Tailrace to Tailrace)	E	20100	0	0	0	0	0	6010	5940	8150	0	0	0	None	C		down		2	6,7,8,	LR	63.4
	19-May-10	1:30:00			E	0	0	0	0	0	0	0	0	0	0	0	0	None	A						LR	63.4
	19-May-10	2:30:00			E	0	0	0	0	0	0	0	0	0	0	0	0	None	A						LR	63.4
	19-May-10	3:30:00			E	0	0	0	0	0	0	0	0	0	0	0	0	None	A						LR	63.4
54-142 (A1)	19-May-10	4:04:58	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	0	0	0	0	0	0	0	0	0	0	0	0	None	A						LR	63.4
	19-May-10	4:30:00			E	0	0	0	0	0	0	0	0	0	0	0	0	None	A						LR	63.4
	19-May-10	5:30:00			B	0	0	0	0	0	0	0	0	0	0	0	0	None	A		up					63.4
54-142 (A1)	19-May-10	5:38:05	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	B	0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4
	19-May-10	6:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4
	19-May-10	7:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4
	19-May-10	8:30:00			A/B/C	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A	down	stay		1	6,7,		63.4
	19-May-10	9:30:00				11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				1	6,7,		63.4
	19-May-10	10:30:00				11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				1	6,7,		63.4
	19-May-10	11:30:00			A/B/C	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				1	6,7,		63.4
	19-May-10	12:30:00			B	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				1	6,7,		63.4
	19-May-10	13:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C	up	stay		5	3,4,6,7,8,9,11		63.4
	19-May-10	14:30:00			A/B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4
54-142 (A1)	19-May-10	14:45:39	"C" Gate Aerial	Start EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4
	19-May-10	15:30:00			C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4
	19-May-10	16:30:00			C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4
54-142 (A1)	19-May-10	17:06:21	"C" Gate Aerial	End EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4
54-142 (A1)	19-May-10	17:10:49	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4
	19-May-10	17:30:00			C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	3 searched a little but dropped back when gen came up to 48K	63.4
54-142 (A1)	19-May-10	17:59:57	Rowland Island West (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C		down		5	3,4,6,7,8,9,11	LR	63.4
54-142 (A1)	19-May-10	18:10:46	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	LR	63.4
	19-May-10	18:30:00			E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	LR	63.4
	19-May-10	19:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	LR	63.4
54-142 (A1)	19-May-10	20:03:11	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	A	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C		up		5	3,4,6,7,8,9,11		63.4
	19-May-10	20:30:00			A/B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4
54-142 (A1)	19-May-10	20:51:25	"C" Gate Aerial	Start EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4
54-142 (A1)	19-May-10	20:52:40	"C" Gate Aerial	End EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4
54-142 (A1)	19-May-10	21:08:03	"A" Gate Aerial	Start EFL Aerial Detection	C	0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4
54-142 (A1)	19-May-10	21:08:30	"A" Gate Aerial	End EFL Aerial Detection	C	0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4
54-142 (A1)	19-May-10	21:13:50	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 9)	C	0	0	0	0	0	0	0	0	0	0	0	0	None	A						3 came back to upper tailrace with no change in gen (still 48K)	63.4
54-142 (A1)	19-May-10	21:29:31	Rowland Island West (Near-Field)	Transition Downstream 9 (Upper Tailrace to Tailrace)	E	0	0	0	0	0	0	0	0	0	0	0	0	None	A						LR	63.4
	19-May-10	21:30:00			B/C	0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4
	19-May-10	22:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4
	19-May-10	23:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A							63.4
	20-May-10	0:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A	down	stay		1	2,5,	2 fish left as gen came down to minimum	62.5
	20-May-10	1:30:00			E	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		down		1	2,5,	LR	62.5
54-142 (A1)	20-May-10	1:33:30	Rowland Island West (Near-Field)	Transition Upstream 10 (Tailrace to Upper Tailrace)	E	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				1	2,5,	LR	62.5
	20-May-10	2:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		</					

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-142 (A1)	20-May-10	14:52:42	"C" Gate Aerial	Start EFL Aerial Detection	C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				6	1,2,3,4,5,6,7,8,9,11			62.5
54-142 (A1)	20-May-10	14:52:49	"C" Gate Aerial	End EFL Aerial Detection	C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				6	1,2,3,4,5,6,7,8,9,11			62.5
54-142 (A1)	20-May-10	NA	NA	End Upper Tailrace Detection (End UT Foray 11)																					3 fish came back up but dropped down again when gen came up to 64K	62.5	
54-142 (A1)	20-May-10	15:20:29	Rowland Island West (Near-Field)	Transition Downstream 11 (Upper Tailrace to Tailrace)	E	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C	down	down	4	2,5,6,7,8,11		LR	62.5	
	20-May-10	15:30:00			E	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C			4	2,5,6,7,8,11		LR	62.5	
	20-May-10	16:30:00				15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A	down	stay	1	2,5,6,		LR	62.5	
	20-May-10	17:30:00				15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6,		LR	62.5	
54-142 (A1)	20-May-10	18:07:37	Rowland Island West (Near-Field)	Transition Upstream 12 (Tailrace to Upper Tailrace)	E	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6,		LR	62.5	
	20-May-10	18:30:00			E	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6,		LR	62.5	
54-142 (A1)	20-May-10	18:50:05	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 12)	B	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A		up	1	2,5,6,			62.5	
54-142 (A1)	20-May-10	19:17:45	"C" Gate Aerial	Start EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6,			62.5	
54-142 (A1)	20-May-10	19:27:52	"C" Gate Aerial	End EFL Aerial Detection	C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay	6	1,2,3,4,5,6,7,8,9,11			62.5	
54-142 (A1)	20-May-10	19:30:23	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 12)	B	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C			6	1,2,3,4,5,6,7,8,9,11			62.5	
54-142 (A1)	20-May-10	NA	NA	Transition Downstream 12 (Upper Tailrace to Tailrace)																						62.5	
54-142 (A1)	20-May-10	NA	NA	End Tailrace Detection 4																						62.5	
54-142 (A1)	20-May-10	21:22:39	Lapidum (West Shore) (Near-Field)	Start Lower River		64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C			6	1,2,3,4,5,6,7,8,9,11			62.5	
54-142 (A1)	20-May-10	21:26:14	Lapidum (West Shore) (Near-Field)	End Lower River		64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C			6	1,2,3,4,5,6,7,8,9,11			62.5	
54-142 (A1)	NA	NA	NA	Start Tailrace Detection 5																							
54-142 (A1)	NA	NA	NA	Transition Upstream 13 (Tailrace to Upper Tailrace)																							
54-142 (A1)	23-May-10	14:28:50	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 13)	A	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C	down	stay	3	2,5,6,7,8,			67.9	
	23-May-10	14:30:00			A/B	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9	
54-142 (A1)	23-May-10	14:37:46	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 13)	B	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,		3 fish searched and left as gen went up and then down again	67.9	
54-142 (A1)	23-May-10	15:14:13	Rowland Island West (Near-Field)	Transition Downstream 13 (Upper Tailrace to Tailrace)	E	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C		down	3	2,5,6,7,8,		LR	67.9	
	23-May-10	15:30:00			E	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,		LR	67.9	
54-142 (A1)	23-May-10	16:13:23	Rowland Island West (Near-Field)	Transition Upstream 14 (Tailrace to Upper Tailrace)	E	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,		LR	67.9	
	23-May-10	16:30:00				30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,		LR	67.9	
54-142 (A1)	23-May-10	17:04:13	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 14)	B	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C		up	3	2,5,6,7,8,			67.9	
	23-May-10	17:30:00			A/B	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C			3	2,5,6,7,8,			67.9	
54-142 (A1)	23-May-10	18:12:00	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 14)	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C	up	stay	4	2,5,6,7,8,9,			67.9	
	23-May-10	18:30:00			B/C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,		3 crossed the dam toward the FL, but dropped neck as gen went to 39K	67.9	
54-142 (A1)	23-May-10	18:41:00	Rowland Island West (Near-Field)	Transition Downstream 14 (Upper Tailrace to Tailrace)	E	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C		down	4	2,5,6,7,8,9,		LR	67.9	
54-142 (A1)	23-May-10	19:06:11	Rowland Island West (Near-Field)	Transition Upstream 15 (Tailrace to Upper Tailrace)	E	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,		LR	67.9	
	23-May-10	19:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,		LR	67.9	
54-142 (A1)	23-May-10	20:23:08	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 15)	B	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C		up	4	2,5,6,7,8,9,			67.9	
	23-May-10	20:30:00			B/C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,			67.9	
54-142 (A1)	23-May-10	20:49:00	"A" Gate Aerial	Start EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,			67.9	
54-142 (A1)	23-May-10	20:52:46	"C" Gate Aerial	End EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,			67.9	
54-142 (A1)	23-May-10	20:55:19	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 15)	B	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,		2 searched and dropped back with no change in gen	67.9	
54-142 (A1)	23-May-10	21:09:50	Rowland Island West (Near-Field)	Transition Downstream 15 (Upper Tailrace to Tailrace)	E	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C		down	4	2,5,6,7,8,9,		LR	67.9	
	23-May-10	21:30:00			E	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C			4	2,5,6,7,8,9,		LR	67.9	
54-142 (A1)	23-May-10	22:27:00	Rowland Island West (Near-Field)	Transition Upstream 16 (Tailrace to Upper Tailrace)	E	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	67.9	
	23-May-10	22:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A			1	2,5,		LR	67.9	
	23-May-10	23:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A			1	2,5,		LR	67.9	
54-142 (A1)	23-May-10	23:52:57	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 16)	B	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A		up	1	2,5,			67.9	
	24-May-10	0:30:00			B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6	
	24-May-10	1:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6	
	24-May-10	2:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6	
	24-May-10	3:30:00			A/B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6	
	24-May-10	4:30:00			B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6	
	24-May-10	5:30:00			B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6	
	24-May-10	6:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,			69.6	
	24-May-10	7:30:00			B	9430	0	4610	0	0	4820	0	0	0													



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-158 (A1)	07-May-10	14:03:00	Conowingo Tailrace	Release - Downstream of "C" Gate		54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C				5	2,4,5,6,7,8,9,11			69.4
54-158 (A1)	10-May-10	18:59:52	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	down	stay	4	2,5,6,7,8,9		LR	64.5	
54-158 (A1)	10-May-10	19:05:53	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9		LR	64.5
54-158 (A1)	10-May-10	19:21:34	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C		up		4	2,5,6,7,8,9			64.5
54-158 (A1)	10-May-10	19:30:00			A/B	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9			64.5
54-158 (A1)	10-May-10	20:19:56	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9	2	moved up when gen went down to 39K, but then moved downstream	64.5
54-158 (A1)	10-May-10	20:29:49	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C		down		4	2,5,6,7,8,9		LR	64.5
	10-May-10	20:30:00			A/B	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9			64.5
	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9			64.5
	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5			64.5
	10-May-10	23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			64.5
	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			64.5
	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
	11-May-10	2:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5	2	fish moved up with no change in gen, but moved downstream when gen went to min flow	63.2
	11-May-10	4:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down		1	2,5		LR	63.2
54-158 (A1)	11-May-10	4:57:42	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	5:29:22	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up		1	2,5			63.2
	11-May-10	5:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
	11-May-10	6:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	stay	4	2,5,6,7,8,9			63.2	
	11-May-10	7:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9			63.2
	11-May-10	8:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9			63.2
	11-May-10	9:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9			63.2
54-158 (A1)	11-May-10	10:26:42	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5			63.2
54-158 (A1)	11-May-10	10:26:49	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
	11-May-10	10:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	10:58:09	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	10:59:15	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	11:20:06	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
	11-May-10	11:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	11:32:03	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
	11-May-10	12:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	12:57:09	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	12:59:07	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	13:00:31	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	13:05:50	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	13:08:23	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	13:09:47	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	13:28:44	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
	11-May-10	13:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	13:31:31	"C" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
	11-May-10	14:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	14:53:22	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	15:04:00	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
	11-May-10	15:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	15:55:31	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	16:03:44	"A" Gate Aerial	End EFL Aerial Detection	A	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	16:29:48	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
	11-May-10	16:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	16:31:14	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5			63.2
54-158 (A1)	11-May-10	16:37:47	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5	3	fish moved up at min flow and seemed to be moved toward FL when gen went to 39K; stayed mainly in zone C when gen went back to min flow; eventually moved downstream	63.2
54-158 (A1)	11-May-10	17:03:47	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down		1	2,5		LR	63.2</

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-159 (A1)	12-May-10	11:40:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		16000	0	4930	0	0	4940	0	6130	0	0	0	0	0	None	A			1	2,5,7,			60.2
54-159 (A1)	18-May-10	NA	NA	Start Tailrace Detection 1		0												None	A							64.5	
54-159 (A1)	18-May-10	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)	A	0												None	A							64.5	
54-159 (A1)	18-May-10	19:23:13	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C	up	stay		7	1,2,3,4,5,6,7,8,9,10,11		64.5	
	18-May-10	19:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11		64.5	
	18-May-10	20:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11		64.5	
	18-May-10	21:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11		64.5	
	18-May-10	22:30:00				29580	0	4380	0	0	4720	5890	6060	8530	0	0	0	0	None	C	down	stay		3	2,5,6,7,8,		64.5
	18-May-10	23:30:00				29580	0	4380	0	0	4720	5890	6060	8530	0	0	0	0	None	C				3	2,5,6,7,8,		64.5
	19-May-10	0:30:00				20100	0	0	0	0	0	6010	5940	8150	0	0	0	0	None	C	down	stay		2	6,7,8,		64.5
	19-May-10	1:30:00				0	0	0	0	0	0	0	0	0	0	0	0	0	None	A						63.4	
	19-May-10	2:30:00				0	0	0	0	0	0	0	0	0	0	0	0	0	None	A						63.4	
	19-May-10	3:30:00				0	0	0	0	0	0	0	0	0	0	0	0	0	None	A						63.4	
	19-May-10	4:30:00				0	0	0	0	0	0	0	0	0	0	0	0	0	None	A						63.4	
	19-May-10	5:30:00				0	0	0	0	0	0	0	0	0	0	0	0	0	None	A						63.4	
	19-May-10	6:30:00			A/B	0	0	0	0	0	0	0	0	0	0	0	0	0	None	A						63.4	
	19-May-10	7:30:00			A/B	0	0	0	0	0	0	0	0	0	0	0	0	0	None	A						63.4	
	19-May-10	7:30:00			A/B/C	0	0	0	0	0	0	0	0	0	0	0	0	0	None	A						63.4	
	19-May-10	8:30:00			A/B	11950	0	0	0	0	0	6010	5940	0	0	0	0	0	None	A	down	stay		1	6,7,		63.4
	19-May-10	9:30:00			A/B	11950	0	0	0	0	0	6010	5940	0	0	0	0	0	None	A						63.4	
	19-May-10	10:30:00			A/B	11950	0	0	0	0	0	6010	5940	0	0	0	0	0	None	A						63.4	
	19-May-10	11:30:00			A/B	11950	0	0	0	0	0	6010	5940	0	0	0	0	0	None	A						63.4	
	19-May-10	12:30:00			C	11950	0	0	0	0	0	6010	5940	0	0	0	0	0	None	A						63.4	
54-159 (A1)	19-May-10	13:02:56	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	E	11950	0	0	0	0	0	6010	5940	0	0	0	0	0	None	A		down				3 fish searched as gen went for 74K to 12K, then dropped downstream	63.4
54-159 (A1)	19-May-10	13:14:26	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	A/B/E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C	up	up		5	3,4,6,7,8,9,11	LR	63.4	
	19-May-10	13:30:00			E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C		down		5	3,4,6,7,8,9,11	LR	63.4	
54-159 (A1)	19-May-10	14:25:13	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)		48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	LR	63.4	
	19-May-10	14:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	LR	63.4	
	19-May-10	15:30:00			B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C		up		5	3,4,6,7,8,9,11		63.4	
54-159 (A1)	19-May-10	16:12:42	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A/B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
	19-May-10	16:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
	19-May-10	17:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
	19-May-10	18:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
	19-May-10	19:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
	19-May-10	20:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11		63.4	
	19-May-10	21:30:00				0	0	0	0	0	0	0	0	0	0	0	0	0	None	A						63.4	
	19-May-10	22:30:00				0	0	0	0	0	0	0	0	0	0	0	0	0	None	A						63.4	
	19-May-10	23:30:00				0	0	0	0	0	0	0	0	0	0	0	0	0	None	A						63.4	
	20-May-10	0:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	0	None	A	down	stay		1	2,5,		62.5
	20-May-10	1:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	0	None	A						62.5	
	20-May-10	2:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	0	None	A						62.5	
	20-May-10	3:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	0	None	A						62.5	
	20-May-10	4:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	0	None	A						62.5	
	20-May-10	5:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	0	None	A						62.5	
	20-May-10	6:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	0	None	A						62.5	
	20-May-10	7:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	0	None	A						62.5	
	20-May-10	8:30:00			C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	0	None	C	up	stay		4	2,5,6,7,8,9,		62.5
54-159 (A1)	20-May-10	8:46:12	"A" Gate Aerial	Start EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	0	None	C				4	2,5,6,7,8,9,		62.5
54-159 (A1)	20-May-10	8:51:42	"A" Gate Aerial	End EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	0	None	C				4	2,5,6,7,8,9,		62.5
	20-May-10	9:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	0	None	C				4	2,5,6,7,8,9,		62.5
	20-May-10	10:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	0	None	C				4	2,5,6,7,8,9,		62.5
	20-May-10	11:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	0	None	C				4	2,5,6,7,8,9,		62.5
	20-May-10	12:30:00			B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	0	None	C				4	2,5,6,7,8,9,		62.5
54-159 (A1)	20-May-10	13:05:13	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)		59040	0	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay		6	2,3,4,5,6,7,8,9,11	3 fish moved back up with no change in gen and searched as gen went from 48K to 9K to 38K; fish moved downstream when gen went to 59K	62.5	
	20-May-10	13:30:00			E	64530																					

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)		
	21-May-10	12:30:00			C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	0	None	C				4,2,5,6,7,8,9			63.5	
54-159 (A1)	21-May-10	12:33:20	"A" Gate Aerial	End EFL Aerial Detection	A/B/C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	0	None	C				4,2,5,6,7,8,9			63.5	
	21-May-10	13:30:00			A/B	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	0	None	C				4,2,5,6,7,8,9			63.5	
	21-May-10	14:30:00			A	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C	up	stay		7	1,2,3,4,5,6,7,8,9,10,11			63.5	
54-159 (A1)	21-May-10	15:25:00	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	A/B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11	3	Fish searched amidst several changes in gen both up and down; finally moved downstream when gen went to 74K	63.5	
	21-May-10	15:30:00			A	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11			63.5	
	21-May-10	16:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11			63.5	
	21-May-10	17:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11			63.5	
	21-May-10	18:30:00			E	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C		down		7	1,2,3,4,5,6,7,8,9,10,11		LR	63.5	
54-159 (A1)	21-May-10	18:42:39	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	63.5	
54-159 (A1)	21-May-10	18:53:03	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)		74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	63.5	
	21-May-10	19:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	63.5	
	21-May-10	20:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	63.5	
	21-May-10	21:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				7	1,2,3,4,5,6,7,8,9,10,11		LR	63.5	
	21-May-10	22:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	0	None	A	down	stay		1,2,5		LR	63.5	
	21-May-10	23:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	0	None	A				1,2,5		LR	63.5	
	22-May-10	0:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5		LR	65.4	
	22-May-10	1:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5		LR	65.4	
	22-May-10	2:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5		LR	65.4	
	22-May-10	3:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5		LR	65.4	
	22-May-10	4:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5		LR	65.4	
	22-May-10	5:30:00			B	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A		up		1,2,5			65.4	
54-159 (A1)	22-May-10	5:50:12	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A/B	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	6:30:00			A/B	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	7:30:00			A/B/C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	8:30:00			C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-159 (A1)	22-May-10	8:44:53	"A" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-159 (A1)	22-May-10	8:51:26	"A" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-159 (A1)	22-May-10	9:05:10	"A" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-159 (A1)	22-May-10	9:25:41	"A" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	9:30:00			C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-159 (A1)	22-May-10	10:01:19	"A" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-159 (A1)	22-May-10	10:02:38	"A" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	10:30:00			C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-159 (A1)	22-May-10	11:00:31	"A" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-159 (A1)	22-May-10	11:09:36	"C" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	11:30:00			C	9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
54-159 (A1)	22-May-10	12:22:37	"A" Gate Aerial	Start EFL Aerial Detection	C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	0	0	None	C	up	stay	5	1,2,3,4,5,6,8,9			65.4
	22-May-10	12:30:00			C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	0	0	None	C			5	1,2,3,4,5,6,8,9			65.4
54-159 (A1)	22-May-10	13:16:57	"A" Gate Aerial	End EFL Aerial Detection	C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	0	0	None	C			5	1,2,3,4,5,6,8,9			65.4
	22-May-10	13:30:00			A/B	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	0	0	None	C			5	1,2,3,4,5,6,8,9			65.4
	22-May-10	14:30:00			A/B	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	0	0	None	C			5	1,2,3,4,5,6,8,9			65.4
	22-May-10	15:30:00			A	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	0	0	None	C			5	1,2,3,4,5,6,8,9			65.4
	22-May-10	16:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	0	0	None	C			5	1,2,3,4,5,6,8,9			65.4
	22-May-10	17:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	0	0	None	C			5	1,2,3,4,5,6,8,9			65.4
	22-May-10	18:30:00			A/B/C	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	0	0	None	C			5	1,2,3,4,5,6,8,9			65.4
	22-May-10	19:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	0	0	None	C			5	1,2,3,4,5,6,8,9			65.4
	22-May-10	20:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	0	0	None	C			5	1,2,3,4,5,6,8,9			65.4
	22-May-10	21:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A	down	stay		1,2,5			65.4	
	22-May-10	22:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	0	None	A				1,2,5			65.4	
	22-May-10	23:30:00																										

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
	23-May-10	17:30:00				30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				3	2,5,6,7,8,			67.9
	23-May-10	18:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C	up	stay		4	2,5,6,7,8,9,			67.9
	23-May-10	19:30:00			C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				4	2,5,6,7,8,9,			67.9
54-159 (A1)	23-May-10	20:02:12	"A" Gate Aerial	Start EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				4	2,5,6,7,8,9,			67.9
54-159 (A1)	23-May-10	20:02:51	"A" Gate Aerial	End EFL Aerial Detection	B/C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				4	2,5,6,7,8,9,			67.9
	23-May-10	20:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				4	2,5,6,7,8,9,			67.9
	23-May-10	21:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				4	2,5,6,7,8,9,			67.9
	23-May-10	22:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A	down	stay		1	2,5,			67.9
	23-May-10	23:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				1	2,5,			67.9
	24-May-10	0:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
	24-May-10	1:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
	24-May-10	2:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
	24-May-10	3:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
	24-May-10	4:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
	24-May-10	5:30:00			A/B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
	24-May-10	6:30:00			A/B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
	24-May-10	7:30:00			A/B/C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
	24-May-10	8:30:00			C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
54-159 (A1)	24-May-10	8:34:01	"A" Gate Aerial	Start EFL Aerial Detection	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
54-159 (A1)	24-May-10	8:39:11	"A" Gate Aerial	End EFL Aerial Detection	A/B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
	24-May-10	9:30:00			C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
54-159 (A1)	24-May-10	9:32:20	"A" Gate Aerial	Start EFL Aerial Detection	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
54-159 (A1)	24-May-10	9:35:33	"A" Gate Entrance Dropper	Start EFL	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
54-159 (A1)	24-May-10	9:44:37	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	D	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,			69.6
54-159 (A1)	24-May-10	10:24:00	Conowingo Fishway Exit Trough	Passage		9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				1	2,5,	4 fish searched all zones amidst several changes in gen both up and down; final gen was min	69.6	



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)			
54-160 (A1)	07-May-10	13:33:00	Conowingo Tailrace	Release - Downstream of "C" Gate		54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C				5	2,4,5,6,7,8,9,11			69.4		
54-160 (A1)	14-May-10	NA	NA	Start Tailrace Detection 1		0												None	A							58.4			
54-160 (A1)	14-May-10	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A							58.4			
54-160 (A1)	14-May-10	9:02:00	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay		7	1,2,3,4,5,6,7,8,9,10,11		58.4			
54-160 (A1)	14-May-10	9:30:33	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C						2	fish moved out when gen went to 73K	58.4		
54-160 (A1)	14-May-10	10:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11		58.4			
54-160 (A1)	14-May-10	10:37:23	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C		down		7	1,2,3,4,5,6,7,8,9,10,11	LR	58.4			
54-160 (A1)	14-May-10	10:53:00	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11	LR	58.4			
	14-May-10	11:30:00				30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C	down	stay		3	4,5,6,7,8	LR	58.4			
	14-May-10	12:30:00				30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C							LR	58.4		
54-160 (A1)	14-May-10	12:31:00	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C								58.4		
	14-May-10	13:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	up		7	1,2,3,4,5,6,7,8,9,10,11		58.4			
	14-May-10	14:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11		58.4			
	14-May-10	15:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11		58.4			
	14-May-10	16:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11		58.4			
54-160 (A1)	14-May-10	17:07:18	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C								58.4		
54-160 (A1)	14-May-10	17:21:29	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C		down		7	1,2,3,4,5,6,7,8,9,10,11	LR	58.4			
	14-May-10	17:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11	LR	58.4			
	14-May-10	18:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11	LR	58.4			
	14-May-10	19:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11	LR	58.4			
	14-May-10	20:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11	LR	58.4			
	14-May-10	21:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11	LR	58.4			
	14-May-10	22:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				7	1,2,3,4,5,6,7,8,9,10,11	LR	58.4			
	14-May-10	23:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	0	None	A	down	stay		1	2,5	LR	58.4		
	15-May-10	0:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	0	None	A							LR	60.4	
	15-May-10	1:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	0	None	A							LR	60.4	
	15-May-10	2:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	0	None	A							LR	60.4	
	15-May-10	3:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	0	None	A							LR	60.4	
	15-May-10	4:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	0	None	A							LR	60.4	
	15-May-10	5:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	0	None	A							LR	60.4	
	15-May-10	6:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A	up	stay		3	2,3,4,5,6,7	LR	60.4		
	15-May-10	7:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A							LR	60.4	
	15-May-10	8:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A							LR	60.4	
	15-May-10	9:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A							LR	60.4	
54-160 (A1)	15-May-10	10:20:15	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A		down		3	2,3,4,5,6,7	LR	60.4		
	15-May-10	10:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A							LR	60.4	
54-160 (A1)	15-May-10	10:32:49	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A		up		3	2,3,4,5,6,7		60.4		
54-160 (A1)	15-May-10	11:03:19	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A								60.4	
	15-May-10	11:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A							1	fish moved out with no change in gen	60.4
54-160 (A1)	15-May-10	12:30:16	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A		down		3	2,3,4,5,6,7	LR	60.4		
	15-May-10	13:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A							LR	60.4	
54-160 (A1)	15-May-10	14:00:39	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C	up	stay		6	1,2,3,4,5,6,7,9,10,11	LR	60.4			
	15-May-10	14:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11	LR	60.4			
	15-May-10	15:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11	LR	60.4			
54-160 (A1)	15-May-10	15:59:46	Conowingo Tailrace Units 1-7 Master	Start Upper Tailrace Detection (Start UT Foray 4)	A/B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C		up		6	1,2,3,4,5,6,7,9,10,11		60.4			
	15-May-10	16:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11		60.4			
54-160 (A1)	15-May-10	17:19:32	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	A	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				6	1,2,3,4,5,6,7,9,10,11	2	fish moved up with increase in gen to 63K, but moved out shortly	60.4		
54-160 (A1)	15-May-10	17:27:47	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C		down		6	1,2,3,4,5,6,7,9,10,11	LR	60.4			
	15-May-10	17:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C										

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	Flow Meters											Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
							1	2	3	4	5	6	7	8	9	10	11										
	16-May-10	19:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C			7	1,2,3,4,5,6,7,8,9,10,11		LR		63.6
	16-May-10	20:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C			7	1,2,3,4,5,6,7,8,9,10,11		LR		63.6
	16-May-10	21:30:00			E	32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A	down	stay	3	2,3,4,5,6,7		LR		63.6
54-160 (A1)	16-May-10	21:39:58	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A			3	2,3,4,5,6,7		LR		63.6
	16-May-10	22:30:00				32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A			3	2,3,4,5,6,7		LR		63.6
	16-May-10	23:30:00				4780	0	0	0	0	4780	0	0	0	0	0	0	None	A	down	stay	5			LR		63.6
	17-May-10	0:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A	up	stay	1	2,5		LR		64.7
	17-May-10	1:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A			1	2,5		LR		64.7
	17-May-10	2:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A			1	2,5		LR		64.7
	17-May-10	3:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A			1	2,5		LR		64.7
	17-May-10	4:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A			1	2,5		LR		64.7
	17-May-10	5:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A			1	2,5		LR		64.7
	17-May-10	6:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	up	stay	4	2,3,4,5,6,7,8		LR		64.7
54-160 (A1)	17-May-10	6:37:55	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C		up	4	2,3,4,5,6,7,8				64.7
54-160 (A1)	17-May-10	7:09:22	"A" Gate Aerial	Start EFL Aerial Detection	C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8				64.7
54-160 (A1)	17-May-10	7:09:29	"A" Gate Aerial	End EFL Aerial Detection	C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8				64.7
	17-May-10	7:30:00			B/C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8				64.7
	17-May-10	8:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8				64.7
	17-May-10	9:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8				64.7
	17-May-10	10:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8				64.7
	17-May-10	11:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11				64.7
	17-May-10	12:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C	up	stay	7	2,3,4,5,6,7,8,9,10,11				64.7
	17-May-10	13:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11				64.7
	17-May-10	14:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11				64.7
	17-May-10	15:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11				64.7
	17-May-10	16:30:00			B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11				64.7
	17-May-10	17:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11				64.7
	17-May-10	18:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11				64.7
	17-May-10	19:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11				64.7
	17-May-10	20:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11				64.7
	17-May-10	21:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	down	stay	4	2,3,4,5,6,7,8				64.7
	17-May-10	22:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8				64.7
	17-May-10	23:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8				64.7
	18-May-10	0:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C			4	2,3,4,5,6,7,8				64.5
	18-May-10	1:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C			4	2,3,4,5,6,7,8				64.5
	18-May-10	2:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C			4	2,3,4,5,6,7,8				64.5
	18-May-10	3:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A	down	stay	1	2,5				64.5
	18-May-10	4:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A			1	2,5				64.5
	18-May-10	5:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A			1	2,5				64.5
	18-May-10	6:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A			1	2,5				64.5
	18-May-10	7:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A			1	2,5				64.5
	18-May-10	8:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A			1	2,5				64.5
	18-May-10	9:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A			1	2,5				64.5
	18-May-10	10:30:00			A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A			1	2,5				64.5
	18-May-10	11:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A			1	2,5				64.5
	18-May-10	12:30:00			A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A			1	2,5				64.5
	18-May-10	13:30:00			A/B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,10,11				64.5
	18-May-10	14:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C			7	1,2,3,4,5,6,7,8,9,10,11				64.5
	18-May-10	15:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C			7	1,2,3,4,5,6,7,8,9,10,11				64.5
	18-May-10	16:30:00			A/B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C			7	1,2,3,4,5,6,7,8,9,10,11				64.5
54-160 (A1)	18-May-10	16:47:00	"C" Gate Aerial	Start EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C			7	1,2,3,4,5,6				

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-160 (A1)	19-May-10	19:27:30	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 10)	B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11			63.4
	19-May-10	19:30:00			A/B/C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	3 fish searched as gen went from 12K to 48K, but moved downstream	63.4	
54-160 (A1)	19-May-10	19:39:08	Rowland Island West (Near-Field)	Transition Downstream 10 (Upper Tailrace to Tailrace)	E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C		down		5	3,4,6,7,8,9,11	LR	63.4	
	19-May-10	20:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				5	3,4,6,7,8,9,11	LR	63.4	
	19-May-10	21:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A						LR	63.4	
54-160 (A1)	19-May-10	21:40:49	Conowingo East Spillway Corner (Near-Field)		D	0	0	0	0	0	0	0	0	0	0	0	0	None	A		spillway					63.4	
	19-May-10	22:30:00			D	0	0	0	0	0	0	0	0	0	0	0	0	None	A		spillway					63.4	
54-160 (A1)	19-May-10	23:13:21	Conowingo East Spillway Corner (Near-Field)		D	0	0	0	0	0	0	0	0	0	0	0	0	None	A		spillway					63.4	
	20-May-10	0:30:00			D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A	down	spillway	1	2,5			62.5	
54-160 (A1)	20-May-10	0:44:01	Conowingo East Spillway Corner (Near-Field)		D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
	20-May-10	1:30:00			D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
	20-May-10	2:30:00			D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
	20-May-10	3:30:00			D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
54-160 (A1)	20-May-10	4:19:16	Conowingo East Spillway Corner (Near-Field)		D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
	20-May-10	4:30:00			D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
54-160 (A1)	20-May-10	5:19:48	Conowingo East Spillway Corner (Near-Field)		D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
	20-May-10	5:30:00			D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
54-160 (A1)	20-May-10	6:20:24	Conowingo East Spillway Corner (Near-Field)		D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
	20-May-10	6:30:00			D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
	20-May-10	7:30:00			D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
54-160 (A1)	20-May-10	8:05:23	Conowingo East Spillway Corner (Near-Field)		D	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		spillway	1	2,5			62.5	
	20-May-10	8:30:00			D	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C	up	spillway	4	2,5,6,7,8,9			62.5	
54-160 (A1)	20-May-10	8:48:21	Conowingo East Spillway Corner (Near-Field)		D	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C		spillway	4	2,5,6,7,8,9			62.5	
	20-May-10	9:30:00			D	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C		spillway	4	2,5,6,7,8,9			62.5	
54-160 (A1)	20-May-10	9:33:07	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 11)	B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C		up		4	2,5,6,7,8,9			62.5
	20-May-10	10:30:00			B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9			62.5
	20-May-10	11:30:00			A	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9			62.5
	20-May-10	12:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				4	2,5,6,7,8,9			62.5
	20-May-10	13:30:00				64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay	6	1,2,3,4,5,6,7,8,9,11			62.5	
54-160 (A1)	20-May-10	14:20:19	"C" Gate Aerial	Start EFL Aerial Detection	C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				6	1,2,3,4,5,6,7,8,9,11			62.5
54-160 (A1)	20-May-10	14:24:11	"C" Gate Aerial	End EFL Aerial Detection	C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				6	1,2,3,4,5,6,7,8,9,11			62.5
	20-May-10	14:30:00			C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				6	1,2,3,4,5,6,7,8,9,11			62.5
	20-May-10	15:30:00			B/C	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C	down	stay	4	2,5,6,7,8,11			62.5	
54-160 (A1)	20-May-10	16:11:01	"A" Gate Aerial	Start EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A	down	stay	1	2,5,6			62.5	
54-160 (A1)	20-May-10	16:21:47	"A" Gate Aerial	End EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1	2,5,6			62.5
	20-May-10	16:30:00			B/C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1	2,5,6			62.5
54-160 (A1)	20-May-10	16:51:18	"A" Gate Entrance Dropper	Start EFL Aerial Detection	C	24170	0	4530	0	0	4750	6140	0	0	0	8750	0	None	C	up	stay	2	2,5,6,10			62.5	
54-160 (A1)	20-May-10	16:54:03	"A" Gate Entrance Dropper	Start EFL	C	24170	0	4530	0	0	4750	6140	0	0	0	8750	0	None	C				2	2,5,6,10			62.5
54-160 (A1)	20-May-10	17:10:53	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A	down	stay	1	2,5,6			62.5	
	20-May-10	17:30:00			B/C/D	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1	2,5,6			62.5
54-160 (A1)	20-May-10	17:36:33	Conowingo Fishway Exit Trough	Passage	D	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				1	2,5,6	4 fish first detected in spillway, then moved across the dam and back to the spillway during various flows; max gen was 64K	62.5	



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-164 (A1)	07-May-10	13:28:00	Conowingo Tailrace	Release - Downstream of "C" Gate		54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C				5	2,4,5,6,7,8,9,11		69.4
54-164 (A1)	NA	NA	NA	Start Tailrace Detection 1		0												None	A							
54-164 (A1)	NA	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A							
54-164 (A1)	14-May-10	15:05:41	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,10,11		58.4	
	14-May-10	15:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		58.4	
	14-May-10	16:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		58.4	
	14-May-10	17:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		58.4	
	14-May-10	18:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		58.4	
54-164 (A1)	14-May-10	18:53:24	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		58.4	
54-164 (A1)	14-May-10	NA	NA	Transition Downstream 1 (Upper Tailrace to Tailrace)		0												None	A							58.4
54-164 (A1)	14-May-10	NA	NA	End Tailrace Detection 1		0												None	A							58.4
54-164 (A1)	14-May-10	20:34:53	Spencer Island West (Near-Field)	Start Lower River		72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		58.4	
54-164 (A1)	15-May-10	7:23:32	Spencer Island West (Near-Field)	End Lower River		32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	stay	3	2,3,4,5,6,7,		60.4	
54-164 (A1)	15-May-10	NA	NA	Start Tailrace Detection 2		0												None	A							60.4
54-164 (A1)	15-May-10	NA	NA	Transition Upstream 2 (Tailrace to Upper Tailrace)		0												None	A							60.4
54-164 (A1)	15-May-10	16:13:00	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C	up	stay	6	1,2,3,4,5,6,7,9,10,11		60.4	
	15-May-10	16:30:00			A/B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C			6	1,2,3,4,5,6,7,9,10,11		60.4	
	15-May-10	17:30:00			A/B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C			6	1,2,3,4,5,6,7,9,10,11		60.4	
	15-May-10	18:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C			6	1,2,3,4,5,6,7,9,10,11		60.4	
54-164 (A1)	15-May-10	19:12:56	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C			6	1,2,3,4,5,6,7,9,10,11	3	searched as flows went up and down; eventually left TR	60.4
54-164 (A1)	15-May-10	19:18:12	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C			6	1,2,3,4,5,6,7,9,10,11	LR	60.4	
	15-May-10	19:30:00			A/B/C/E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C			6	1,2,3,4,5,6,7,9,10,11	LR	60.4	
	15-May-10	20:30:00			E	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	down	3	2,3,4,5,6,7,	LR	60.4	
	15-May-10	21:30:00			E	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR	60.4	
	15-May-10	22:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR	60.4	
	15-May-10	23:30:00			E	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	stay	3	2,3,4,5,6,7,	LR	60.4	
54-164 (A1)	16-May-10	0:16:38	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A			1	5,7,	LR	60.4	
	16-May-10	0:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A			1	5,7,	LR	63.6	
	16-May-10	1:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A			1	5,7,	LR	63.6	
54-164 (A1)	16-May-10	1:51:47	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A		up	1	5,7,		63.6	
	16-May-10	2:30:00			A/B/C	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A			1	5,7,		63.6	
	16-May-10	3:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A			1	5,7,		63.6	
	16-May-10	4:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A			1	5,7,		63.6	
	16-May-10	5:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	up	stay	4	2,3,4,5,6,7,8,		63.6	
	16-May-10	6:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,		63.6	
54-164 (A1)	16-May-10	6:53:44	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	3	moved up when gen went to 10K, but moved back when flows when to 42K	63.6
54-164 (A1)	16-May-10	6:54:54	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		down	4	2,3,4,5,6,7,8,	LR	63.6	
	16-May-10	7:30:00			C/E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	LR	63.6	
54-164 (A1)	16-May-10	8:29:05	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	LR	63.6	
	16-May-10	8:30:00			E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	LR	63.6	
	16-May-10	9:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	LR	63.6	
54-164 (A1)	16-May-10	10:08:51	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		up	4	2,3,4,5,6,7,8,		63.6	
	16-May-10	10:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,		63.6	
54-164 (A1)	16-May-10	10:52:08	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	2	moved up briefly and left TR	63.6
54-164 (A1)	16-May-10	11:02:15	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		down	4	2,3,4,5,6,7,8,	LR	63.6	
	16-May-10	11:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	LR	63.6	
	16-May-10	12:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	LR	63.6	
	16-May-10	13:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	LR	63.6	
	16-May-10	14:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	LR	63.6	
	16-May-10	15:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	LR	63.6	
	16-May-10	16:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	LR	63.6	
	16-May-10	17:30:00				74200	5320	5020	6070	5860	4780</															

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-164 (A1)	17-May-10	15:12:38	"C" Gate Entrance Dropper	Start EFL	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.6
54-164 (A1)	17-May-10	15:14:21	"C" Gate Entrance Dropper	End EFL	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.6
54-164 (A1)	17-May-10	NA	NA	End EFL Aerial Detection														None	A								64.6
	17-May-10	15:30			C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.6
	17-May-10	16:30			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.6
	17-May-10	17:30				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.6
	17-May-10	18:30				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.6
	17-May-10	19:30				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.6
	17-May-10	20:30				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			64.6
	17-May-10	21:30				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	down	stay		4	2,3,4,5,6,7,8			64.6
	17-May-10	22:30				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				4	2,3,4,5,6,7,8			64.6
	17-May-10	23:30				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				4	2,3,4,5,6,7,8			64.6
	18-May-10	0:30				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C				4	2,3,4,5,6,7,8			64.5
	18-May-10	1:30				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C				4	2,3,4,5,6,7,8			64.5
	18-May-10	2:30				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C				4	2,3,4,5,6,7,8			64.5
	18-May-10	3:30				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A	down	stay		1	2,5			64.5
	18-May-10	4:30				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				1	2,5			64.5
	18-May-10	5:30				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				1	2,5			64.5
	18-May-10	6:30				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				1	2,5			64.5
	18-May-10	7:30				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				1	2,5			64.5
	18-May-10	8:30				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				1	2,5			64.5
	18-May-10	9:30				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				1	2,5			64.5
	18-May-10	10:30				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				1	2,5			64.5
	18-May-10	11:30				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				1	2,5			64.5
	18-May-10	12:30				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				1	2,5			64.5
	18-May-10	13:30				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C	up	stay		7	1,2,3,4,5,6,7,8,9,10,11			64.5
	18-May-10	14:30			A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
54-164 (A1)	18-May-10	14:57:50	"C" Gate Aerial	Start EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
54-164 (A1)	18-May-10	15:00:06	"A" Gate Entrance Dropper	Start EFL	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
54-164 (A1)	18-May-10	15:27:06	"A" Gate Crowder Dropper	End EFL	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
	18-May-10	15:30:00			C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
54-164 (A1)	18-May-10	15:56:26	"C" Gate Aerial	End EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
	18-May-10	16:30:00			B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
	18-May-10	17:30:00			A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
	18-May-10	18:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
	18-May-10	19:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
	18-May-10	20:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
	18-May-10	21:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				7	1,2,3,4,5,6,7,8,9,10,11			64.5
	18-May-10	22:30:00				29580	0	4380	0	0	4720	5890	6060	8530	0	0	0	None	C	down	stay		3	2,5,6,7,8			64.5
	18-May-10	23:30:00				29580	0	4380	0	0	4720	5890	6060	8530	0	0	0	None	C				3	2,5,6,7,8			64.5
	19-May-10	0:30:00				20100	0	0	0	0	0	6010	5940	8150	0	0	0	None	C				2	6,7,8			63.4
	19-May-10	1:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A								63.4
	19-May-10	2:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A								63.4
	19-May-10	3:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A								63.4
	19-May-10	4:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A								63.4
	19-May-10	5:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A								63.4
	19-May-10	6:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A								63.4
	19-May-10	7:30:00			B	0	0	0	0	0	0	0	0	0	0	0	0	None	A								63.4
	19-May-10	8:30:00				11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A	down	stay		1	6,7			63.4
	19-May-10	9:30:00			A/B	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				1	6,7			63.4
	19-May-10	10:30:00			B/C	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				1	6,7			63.4
	19-May-10	11:30:00				11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				1	6,7			63.4
	19-May-10	12:30:00				11950	0	0	0	0</																	

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
	20-May-10	9:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C			4	2,5,6,7,8,9	LR		62.5
54-164 (A1)	20-May-10	9:40:06	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C		up	4	2,5,6,7,8,9			62.5
	20-May-10	10:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C			4	2,5,6,7,8,9			62.5
54-164 (A1)	20-May-10	10:34:50	"C" Gate Aerial	Start EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C			4	2,5,6,7,8,9			62.5
54-164 (A1)	20-May-10	10:39:21	"A" Gate Crowder Dropper	Start EFL	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C			4	2,5,6,7,8,9			62.5
54-164 (A1)	20-May-10	11:00:56	"A" Gate Crowder Dropper	End EFL	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C			4	2,5,6,7,8,9			62.5
54-164 (A1)	20-May-10	11:07:44	"C" Gate Aerial	End EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C			4	2,5,6,7,8,9			62.5
	20-May-10	11:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C			4	2,5,6,7,8,9			62.5
54-164 (A1)	20-May-10	11:42:36	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C			4	2,5,6,7,8,9			62.5
	20-May-10	12:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C			4	2,5,6,7,8,9	2 moved up when gen went to 39K; stayed near FL and went downstream		62.5
54-164 (A1)	20-May-10	13:30:50	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	down	6	1,2,3,4,5,6,7,8,9,11	LR		62.5
	20-May-10	14:30:00				64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C			6	1,2,3,4,5,6,7,8,9,11	LR		62.5
54-164 (A1)	20-May-10	15:08:05	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C	down	stay	4	2,5,6,7,8,11	LR		62.5
	20-May-10	15:30:00				38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C			4	2,5,6,7,8,11	LR		62.5
54-164 (A1)	20-May-10	16:05:47	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A	down	up	1	2,5,6			62.5
	20-May-10	16:30:00			A/B/C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6			62.5
54-164 (A1)	20-May-10	16:43:50	"A" Gate Aerial	Start EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6			62.5
54-164 (A1)	20-May-10	16:44:10	"A" Gate Aerial	End EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6			62.5
	20-May-10	17:30:00				15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6			62.5
	20-May-10	18:30:00				15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A			1	2,5,6			62.5
	20-May-10	19:30:00				64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay	6	1,2,3,4,5,6,7,8,9,11			62.5
	20-May-10	20:30:00				64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C			6	1,2,3,4,5,6,7,8,9,11			62.5
	20-May-10	21:30:00				64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C			6	1,2,3,4,5,6,7,8,9,11			62.5
	20-May-10	22:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A	down	stay	1	2,5			62.5
	20-May-10	23:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A			1	2,5			62.5
	21-May-10	0:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A			1	2,5			63.5
	21-May-10	1:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A			1	2,5			63.5
	21-May-10	2:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A			1	2,5			63.5
	21-May-10	3:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A			1	2,5			63.5
	21-May-10	4:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A			1	2,5			63.5
	21-May-10	5:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A			1	2,5			63.5
	21-May-10	6:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A			1	2,5			63.5
	21-May-10	7:30:00			A/B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A			1	2,5			63.5
	21-May-10	8:30:00			A/B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A			1	2,5			63.5
	21-May-10	9:30:00			A/B	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C	up	stay	4	2,5,6,7,8,9			63.5
	21-May-10	10:30:00			C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C			4	2,5,6,7,8,9			63.5
	21-May-10	11:30:00				39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C			4	2,5,6,7,8,9			63.5
	21-May-10	12:30:00				39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C			4	2,5,6,7,8,9			63.5
54-164 (A1)	21-May-10	13:25:47	"A" Gate Aerial	Start EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C			4	2,5,6,7,8,9			63.5
	21-May-10	13:30:00			B/C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C			4	2,5,6,7,8,9			63.5
	21-May-10	14:30:00			C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,10,11			63.5
54-164 (A1)	21-May-10	14:46:09	"A" Gate Crowder Dropper	Start EFL	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C			7	1,2,3,4,5,6,7,8,9,10,11			63.5
54-164 (A1)	21-May-10	14:59:22	"A" Gate Entrance Dropper	Last EFL Detection before being lifted	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C			7	1,2,3,4,5,6,7,8,9,10,11			63.5
54-164 (A1)	21-May-10	15:45:19	Conowingo Fishway Exit Trough	Passage	D	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C			7	1,2,3,4,5,6,7,8,9,10,11	4 moved up when gen went to 15K; searched as flows went up and down and eventually passed		63.5

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-168 (A1)	07-May-10	10:15:00	Conowingo Tailrace	Release - Between Units 3 & 5		37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
		10:30:00				0												None	A							
54-168 (A1)	11-May-10	10:59:17	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	63.2
54-168 (A1)	11-May-10	11:08:51	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	11:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
54-168 (A1)	11-May-10	12:04:41	Conowingo Tailrace Unit 8 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up	1	2,5,			63.2
54-168 (A1)	11-May-10	12:23:41	"A" Gate Aerial	Start EFL Aerial Detection	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	12:30:00			B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
54-168 (A1)	11-May-10	12:48:45	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	13:30:00			B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
54-168 (A1)	11-May-10	14:11:14	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
54-168 (A1)	11-May-10	14:14:00	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
	11-May-10	14:30:00			A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
54-168 (A1)	11-May-10	14:32:24	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,	3 searched during min gen		63.2
54-168 (A1)	11-May-10	14:40:51	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down	1	2,5,		LR	63.2
	11-May-10	15:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	16:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	17:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	11-May-10	18:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up	stay	5	2,3,4,5,6,7,8,9,		LR	63.2
	11-May-10	19:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C			5	2,3,4,5,6,7,8,9,		LR	63.2
	11-May-10	20:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C			5	2,3,4,5,6,7,8,9,		LR	63.2
	11-May-10	21:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C			5	2,3,4,5,6,7,8,9,		LR	63.2
	11-May-10	22:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	63.2
	11-May-10	23:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	63.2
	12-May-10	0:30:00			E	18480	0	4930	0	0	4940	0	0	0	0	8610	0	None	C	up	stay	2	2,5,10,		LR	60.2
	12-May-10	1:30:00			E	13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C	down	stay	1	5,10,		LR	60.2
	12-May-10	2:30:00			E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	up	stay	1	2,5,		LR	60.2
54-168 (A1)	12-May-10	3:20:32	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A			1	2,5,		LR	60.2
	12-May-10	3:30:00			E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A			1	2,5,		LR	60.2
54-168 (A1)	12-May-10	3:48:55	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A		up	1	2,5,			60.2
	12-May-10	4:30:00			A/B	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A			1	2,5,			60.2
54-168 (A1)	12-May-10	5:09:36	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up		4	2,3,4,5,6,7,8,	2 moved up at min gen; moved down when gen went to 43K		60.2
54-168 (A1)	12-May-10	5:14:04	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C		down	4	2,3,4,5,6,7,8,		LR	60.2
	12-May-10	5:30:00			B/E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,		LR	60.2
54-168 (A1)	12-May-10	5:41:06	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,		LR	60.2
54-168 (A1)	12-May-10	6:28:38	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C		up	4	2,3,4,5,6,7,8,			60.2
	12-May-10	6:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
	12-May-10	7:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
	12-May-10	8:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
54-168 (A1)	12-May-10	8:37:46	"A" Gate Aerial	Start EFL Aerial Detection	C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
54-168 (A1)	12-May-10	8:38:21	"A" Gate Aerial	End EFL Aerial Detection	C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
	12-May-10	9:30:00			B/C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C			4	2,3,4,5,6,7,8,			60.2
	12-May-10	10:30:00			A/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	down	stay	1	2,5,7,			60.2
54-168 (A1)	12-May-10	10:32:15	"A" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
54-168 (A1)	12-May-10	10:39:03	"A" Gate Entrance Dropper	Start EFL	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	11:30:00			C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
54-168 (A1)	12-May-10	12:11:00	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	12:30:00			C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
54-168 (A1)	12-May-10	12:40:22	Conowingo Fishway Exit Trough	Passage	D	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,	4 moved up when gen was 43K; briefly searched and eventually passed		60.2



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-169 (A1)	07-May-10	10:33:00	Conowingo Tailrace	Release - Between Units 3 & 5		37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				4	2,4,5,6,7,8,		69.4
54-169 (A1)	NA	NA	NA	Start Tailrace Detection 1		0												None	A							
54-169 (A1)	NA	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A							
54-169 (A1)	14-May-10	3:27:19	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A	up	stay	1	2,5,		58.4	
	14-May-10	3:30:00			B	9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A			1	2,5,		58.4	
	14-May-10	4:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A			1	2,5,		58.4	
	14-May-10	5:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,10,11		58.4	
	14-May-10	6:30:00			B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		58.4	
	14-May-10	7:30:00			B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		58.4	
	14-May-10	8:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		58.4	
	14-May-10	9:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		58.4	
	14-May-10	10:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C			7	1,2,3,4,5,6,7,8,9,10,11		58.4	
54-169 (A1)	16-May-10	11:13:36	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	down	stay	4	2,3,4,5,6,7,8,	3	moved up at min gen; searched at 74K and moved down at 42K	63.6
54-169 (A1)	16-May-10	11:19:10	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		down	4	2,3,4,5,6,7,8,		LR	63.6
54-169 (A1)	16-May-10	11:30:54	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,		LR	63.6
	16-May-10	12:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,		LR	63.6
54-169 (A1)	16-May-10	13:22:48	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		up	4	2,3,4,5,6,7,8,		63.6	
	16-May-10	13:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,		63.6	
	16-May-10	14:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,		63.6	
54-169 (A1)	16-May-10	15:27:22	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,	2	briefly searched and left; no gen changed	63.6
54-169 (A1)	16-May-10	15:28:17	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		down	4	2,3,4,5,6,7,8,		LR	63.6
	16-May-10	15:30:00			B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		up	4	2,3,4,5,6,7,8,		63.6	
	16-May-10	16:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			4	2,3,4,5,6,7,8,		63.6	
	16-May-10	17:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,10,11	1	moved up then down when gen went to 74K	63.6
54-169 (A1)	16-May-10	18:23:31	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C		down	7	1,2,3,4,5,6,7,8,9,10,11		LR	63.6
	16-May-10	18:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C			7	1,2,3,4,5,6,7,8,9,10,11		LR	63.6
	16-May-10	19:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C			7	1,2,3,4,5,6,7,8,9,10,11		LR	63.6
	16-May-10	20:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C			7	1,2,3,4,5,6,7,8,9,10,11		LR	63.6
	16-May-10	21:30:00				32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A	down	stay	3	2,3,4,5,6,7,		LR	63.6
	16-May-10	22:30:00				32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A			3	2,3,4,5,6,7,		LR	63.6
	16-May-10	23:30:00				4780	0	0	0	0	4780	0	0	0	0	0	0	None	A	down	stay		5,		LR	63.6
	17-May-10	0:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A	up	stay	1	2,5,		LR	64.7
	17-May-10	1:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A			1	2,5,		LR	64.7
	17-May-10	2:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A			1	2,5,		LR	64.7
	17-May-10	3:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A			1	2,5,		LR	64.7
	17-May-10	4:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A			1	2,5,		LR	64.7
	17-May-10	5:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A			1	2,5,		LR	64.7
54-169 (A1)	17-May-10	6:30:31	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	up	up	4	2,3,4,5,6,7,8,		64.7	
54-169 (A1)	17-May-10	7:22:53	"A" Gate Aerial	Start EFL Aerial Detection	C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8,		64.7	
54-169 (A1)	17-May-10	7:23:41	"A" Gate Aerial	End EFL Aerial Detection	C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8,		64.7	
	17-May-10	7:30:00			C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8,		64.7	
54-169 (A1)	17-May-10	8:20:19	"A" Gate Aerial	Start EFL Aerial Detection	C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8,		64.7	
	17-May-10	8:30:00			B/C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8,		64.7	
54-169 (A1)	17-May-10	8:41:37	"A" Gate Aerial	End EFL Aerial Detection	C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8,		64.7	
	17-May-10	9:30:00			B/C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8,		64.7	
	17-May-10	10:30:00			B/C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C			4	2,3,4,5,6,7,8,		64.7	
	17-May-10	11:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C	up	stay	7	2,3,4,5,6,7,8,9,10,11		64.7	
54-169 (A1)	17-May-10	11:50:06	"C" Gate Aerial	Start EFL Aerial Detection	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11		64.7	
	17-May-10	12:30:00			C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11		64.7	
54-169 (A1)	17-May-10	13:17:31	"A" Gate Crowder Dropper	Start EFL	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			7	2,3,4,5,6,7,8,9,10,11		64.7	
	17-May-10	13:30:00			C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None								

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
	21-May-10	7:30:00			A/B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,			63.5
	21-May-10	8:30:00			A/B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,			63.5
54-169 (A1)	21-May-10	8:57:02	"A" Gate Aerial	Start EFL Aerial Detection	C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,			63.5
54-169 (A1)	21-May-10	8:57:34	"A" Gate Entrance Dropper	Start EFL	C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				1	2,5,			63.5
	21-May-10	9:30:00			C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C	up	stay		4	2,5,6,7,8,9,			63.5
	21-May-10	10:30:00			C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,			63.5
54-169 (A1)	21-May-10	11:12:03	"A" Gate Crowder Dropper	End EFL	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,			63.5
54-169 (A1)	21-May-10	11:16:47	"C" Gate Aerial	End EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,			63.5
	21-May-10	11:30:00			C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,			63.5
	21-May-10	12:30:00				39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,			63.5
	21-May-10	13:30:00				39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				4	2,5,6,7,8,9,			63.5
	21-May-10	14:30:00			B/C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C	up	stay		7	1,2,3,4,5,6,7,8,9,10,11			63.5
54-169 (A1)	22-May-10	15:01:54	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	A	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C	down	stay		5	1,2,3,4,5,6,8,9,			65.4
	22-May-10	15:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9,	3 searched during multiple flows and moved downstream		65.4
54-169 (A1)	22-May-10	15:49:56	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C		down		5	1,2,3,4,5,6,8,9,	LR		65.4
	22-May-10	16:30:00			E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9,	LR		65.4
54-169 (A1)	22-May-10	16:35:34	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9,	LR		65.4
	22-May-10	17:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9,	LR		65.4
54-169 (A1)	22-May-10	17:49:55	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C		up		5	1,2,3,4,5,6,8,9,			65.4
	22-May-10	18:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9,			65.4
	22-May-10	19:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9,			65.4
	22-May-10	20:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				5	1,2,3,4,5,6,8,9,			65.4
	22-May-10	21:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A	down	stay		1	2,5,			65.4
	22-May-10	22:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1	2,5,			65.4
	22-May-10	23:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				1	2,5,			65.4
	23-May-10	0:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				1	2,5,			67.9
	23-May-10	1:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				1	2,5,			67.9
	23-May-10	2:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				1	2,5,			67.9
	23-May-10	3:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				1	2,5,			67.9
	23-May-10	4:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				1	2,5,			67.9
	23-May-10	5:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				1	2,5,			67.9
	23-May-10	6:30:00			A/B	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				1	2,5,			67.9
	23-May-10	7:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				1	2,5,			67.9
	23-May-10	8:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				1	2,5,			67.9
	23-May-10	9:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				1	2,5,			67.9
	23-May-10	10:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C	up	stay		4	2,5,6,7,8,9,			67.9
	23-May-10	11:30:00			A/B	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				4	2,5,6,7,8,9,			67.9
	23-May-10	12:30:00			A/B	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				4	2,5,6,7,8,9,			67.9
	23-May-10	13:30:00			A/B	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				3	2,5,6,7,8,			67.9
54-169 (A1)	23-May-10	13:49:31	"A" Gate Aerial	Start EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				3	2,5,6,7,8,			67.9
54-169 (A1)	23-May-10	13:50:26	"A" Gate Aerial	End EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				3	2,5,6,7,8,			67.9
54-169 (A1)	23-May-10	14:01:58	"A" Gate Aerial	Start EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				3	2,5,6,7,8,			67.9
	23-May-10	14:30:00			C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				3	2,5,6,7,8,			67.9
54-169 (A1)	23-May-10	14:36:53	"A" Gate Crowder Dropper	Start EFL	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				3	2,5,6,7,8,			67.9
54-169 (A1)	23-May-10	14:59:07	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				3	2,5,6,7,8,			67.9
	23-May-10	15:30:00				30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				3	2,5,6,7,8,			67.9
54-169 (A1)	23-May-10	16:07:31	Conowingo Fishway Exit Trough	Passage	D	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C		spillway		3	2,5,6,7,8,	4 searched during multiple flows and passed		67.9



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-191 (A1)	20-Apr-10	10:24:00	Conowingo Tailrace	Release - Downstream of "C" Gate		31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C			3	4,5,6,7,8,			58.4
54-191 (A1)	08-May-10	16:04:40	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	up	stay	4	2,5,6,7,8,9,	LR		69.2
54-191 (A1)	08-May-10	16:09:42	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,	LR		69.2
	08-May-10	16:30:00			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,	LR		69.2
54-191 (A1)	08-May-10	16:44:12	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C		up	4	2,5,6,7,8,9,			69.2
	08-May-10	17:30:00			A/B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	18:30:00			A/B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	19:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
54-191 (A1)	08-May-10	20:10:10	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	20:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	21:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	22:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay	1	2,5,	3 searched; went downstream at min gen		69.2
54-191 (A1)	08-May-10	22:35:22	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		down	1	2,5,	LR		69.2
	08-May-10	23:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A			1	2,5,	LR		69.2
	09-May-10	0:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
	09-May-10	1:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
	09-May-10	2:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
	09-May-10	3:30:00			E/F	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
	09-May-10	4:30:00			E/F	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
54-191 (A1)	09-May-10	4:34:16	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
54-191 (A1)	09-May-10	5:11:12	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A		up	1	2,5,			67.2
	09-May-10	5:30:00			A/B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,			67.2
54-191 (A1)	09-May-10	6:01:05	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	2 moved up briefly and back downstream; no change in gen		67.2
54-191 (A1)	09-May-10	6:15:48	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A		down	1	2,5,	LR		67.2
	09-May-10	6:30:00			B/E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
54-191 (A1)	09-May-10	6:56:50	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
54-191 (A1)	09-May-10	7:22:56	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A		up	1	2,5,			67.2
	09-May-10	7:30:00			A/B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,			67.2
54-191 (A1)	09-May-10	7:50:53	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	C	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	3 moved up briefly and back downstream; no change in gen		67.2
54-191 (A1)	09-May-10	8:06:00	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A		down	1	2,5,	LR		67.2
	09-May-10	8:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
	09-May-10	9:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
54-191 (A1)	09-May-10	9:50:27	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,	LR		67.2
54-191 (A1)	09-May-10	10:07:39	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A		up	1	2,5,			67.2
	09-May-10	10:30:00			A/B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A			1	2,5,			67.2
	09-May-10	11:30:00			B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A	up	stay	3	2,3,4,5,6,7,			67.2
	09-May-10	12:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
	09-May-10	13:30:00			A/B	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
54-191 (A1)	09-May-10	14:27:50	"A" Gate Aerial	Start EFL Aerial Detection	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
54-191 (A1)	09-May-10	14:29:47	"A" Gate Aerial	End EFL Aerial Detection	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
	09-May-10	14:30:00			C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
	09-May-10	15:30:00			A/B	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
	09-May-10	16:30:00			A/B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
54-191 (A1)	09-May-10	16:40:00	"A" Gate Aerial	Start EFL Aerial Detection	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
54-191 (A1)	09-May-10	16:40:07	"A" Gate Aerial	End EFL Aerial Detection	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
	09-May-10	17:30:00			B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
	09-May-10	18:30:00			B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
	09-May-10	19:30:00			A/B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,			67.2
54-191 (A1)	09-May-10	19:42:00	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,	3 searched and moved downstream		67.2
54-191 (A1)	09-May-10	19:57:43	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A		down	3	2,3,4,5,6,7,	LR		67.2
	09-May-10	20:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A			3	2,3,4,5,6,7,	LR		67.2
	09-May-10	21:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A	down	stay	1	2,5,	LR		67.2
	09-May-10	22:30:00																								

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-191 (A1)	10-May-10	11:31:56	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A			2	2,5,6,7,	3	searched briefly; moved downstream when gen dropped from 30K to 22K	64.5	
54-191 (A1)	10-May-10	11:51:46	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A	down		2	2,5,6,7,		LR	64.5	
	10-May-10	12:30:00			E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A			2	2,5,6,7,		LR	64.5	
	10-May-10	13:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,		LR	64.5
54-191 (A1)	10-May-10	13:34:20	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,		LR	64.5	
54-191 (A1)	10-May-10	14:04:28	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A		up		1	2,5,			64.5
	10-May-10	14:30:00			A/B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5
	10-May-10	15:30:00			A/B/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5
54-191 (A1)	10-May-10	15:44:37	"A" Gate Aerial	Start EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5
54-191 (A1)	10-May-10	15:54:36	"A" Gate Aerial	End EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5
	10-May-10	16:30:00			A/B/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5
54-191 (A1)	10-May-10	17:20:32	"A" Gate Aerial	Start EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5
54-191 (A1)	10-May-10	17:26:16	"A" Gate Aerial	End EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5
	10-May-10	17:30:00			C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5
54-191 (A1)	10-May-10	17:47:39	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	3	searched and moved downstream; no change in gen	64.5
54-191 (A1)	10-May-10	17:56:12	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A		down		1	2,5,		LR	64.5
54-191 (A1)	10-May-10	18:11:35	Rowland Island East (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	F	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	spillway		4	2,5,6,7,8,9,		LR	64.5
	10-May-10	18:30:00			B/C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C		up		4	2,5,6,7,8,9,			64.5
54-191 (A1)	10-May-10	19:04:10	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,			64.5
54-191 (A1)	10-May-10	19:13:28	"C" Gate Aerial	Start EFL Aerial Detection	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,			64.5
54-191 (A1)	10-May-10	19:19:09	"A" Gate Aerial	End EFL Aerial Detection	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,			64.5
	10-May-10	19:30:00			B/C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,			64.5
54-191 (A1)	10-May-10	20:25:22	"A" Gate Aerial	Start EFL Aerial Detection	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,			64.5
54-191 (A1)	10-May-10	20:30:06	"C" Gate Aerial	End EFL Aerial Detection	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,			64.5
54-191 (A1)	10-May-10	20:33:56	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	B	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,	2	searched and moved downstream; no change in gen	64.5
54-191 (A1)	10-May-10	20:56:21	Rowland Island West (Near-Field)	Transition Downstream 7 (Upper Tailrace to Tailrace)	E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C		down		4	2,5,6,7,8,9,		LR	64.5
	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				4	2,5,6,7,8,9,		LR	64.5
	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,		LR	64.5
	10-May-10	23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	64.5
	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
54-191 (A1)	11-May-10	1:09:44	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
	11-May-10	2:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
54-191 (A1)	11-May-10	2:31:13	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up		1	2,5,			63.2
54-191 (A1)	11-May-10	3:29:09	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			63.2
	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	1	moved up briefly and back downstream; no change in gen	63.2
54-191 (A1)	11-May-10	3:37:42	Rowland Island West (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down		1	2,5,		LR	63.2
54-191 (A1)	11-May-10	3:54:58	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
54-191 (A1)	11-May-10	4:16:20	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up		1	2,5,			63.2
54-191 (A1)	11-May-10	4:24:27	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 9)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			63.2
	11-May-10	4:30:00			B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	1	moved up briefly and back downstream; no change in gen	63.2
54-191 (A1)	11-May-10	5:10:20	Rowland Island West (Near-Field)	Transition Downstream 9 (Upper Tailrace to Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
54-191 (A1)	11-May-10	5:17:26	Rowland Island West (Near-Field)	Transition Upstream 10 (Tailrace to Upper Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,		LR	63.2
54-191 (A1)	11-May-10	5:22:17	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 10)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up		1	2,5,			63.2
	11-May-10	5:30:00			B/E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			63.2
	11-May-10	6:30:00			A/B/C	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	stay		4	2,5,6,7,8,9,			63.2
	11-May-10	7:30:00			A/B/C	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,			63.2
	11-May-10	8:30:00			A/B/C	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,			63.2
54-191 (A1)	11-May-10	8:39:26	"A" Gate Aerial	Start EFL Aerial Detection	C	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,			63.2
54-191 (A1)	11-May-10	9:01:22	"C" Gate Aerial	End EFL Aerial Detection	C	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				4	2,5,6,7,8,9,			63.2
	11-May-10	9:30:00			B	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C								

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
	11-May-10	17:30:00			C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
54-191 (A1)	11-May-10	17:49:25	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A			1	2,5,			63.2
54-191 (A1)	11-May-10	18:07:42	Conowingo Fishway Exit Trough	Passage	D	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up	stay	5	2,3,4,5,6,7,8,9,	4	searched and passed when gen went to 50K	63.2

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)		
54-194 (A1)	20-Apr-10	13:09:00	Conowingo Tailrace	Release - Between Units 5 & 7		10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A			1	5,7,			58.4		
54-194 (A1)	24-Apr-10	1:26:21	Rowland Island East (Near-Field)	Start Tailrace Detection 1	F	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A	up	spwillway	1	5,7,		LR	60.6		
54-194 (A1)	24-Apr-10	1:27:17	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		down		1	5,7,		LR	60.6	
	24-Apr-10	1:30:00			E/F	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		LR	60.6		
54-194 (A1)	24-Apr-10	2:05:23	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		up		1	5,7,		LR	60.6	
	24-Apr-10	2:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6		
	24-Apr-10	3:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6		
	24-Apr-10	4:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6		
	24-Apr-10	5:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6		
54-194 (A1)	24-Apr-10	6:22:09	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6		
	24-Apr-10	6:30:00			B/C	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		2	moved up briefly and back out; no change in gen	60.6	
54-194 (A1)	24-Apr-10	6:33:40	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		down		1	5,7,		LR	60.6	
	24-Apr-10	7:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		LR	60.6		
	24-Apr-10	8:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		LR	60.6		
	24-Apr-10	9:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		LR	60.6		
	24-Apr-10	10:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		LR	60.6		
	24-Apr-10	11:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		LR	60.6		
	24-Apr-10	12:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		LR	60.6		
	24-Apr-10	13:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		LR	60.6		
54-194 (A1)	24-Apr-10	13:47:43	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		LR	60.6		
54-194 (A1)	24-Apr-10	14:09:16	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		up		1	5,7,			60.6	
	24-Apr-10	14:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6		
	24-Apr-10	15:30:00			A/B/C	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6		
	24-Apr-10	16:30:00			A/B/C	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6		
54-194 (A1)	24-Apr-10	16:58:48	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		3	moved up briefly and back out; no change in gen	60.6	
54-194 (A1)	24-Apr-10	17:09:27	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		down		1	5,7,		LR	60.6	
	24-Apr-10	17:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		LR	60.6		
54-194 (A1)	24-Apr-10	18:17:04	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		LR	60.6		
54-194 (A1)	24-Apr-10	18:21:32	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		up		1	5,7,		LR	60.6	
	24-Apr-10	18:30:00			A/B/E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6		
54-194 (A1)	24-Apr-10	19:02:22	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,		1	moved up briefly and back out; no change in gen	60.6	
54-194 (A1)	24-Apr-10	19:15:09	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A	down	down	2	4,5,6,7,		LR	60.6		
54-194 (A1)	24-Apr-10	19:25:04	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A			2	4,5,6,7,		LR	60.6		
54-194 (A1)	24-Apr-10	23:39:33	Spencer Island East (Near-Field)	Start Lower River		11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A	down	stay	1	5,7,		LR	60.6		
54-194 (A1)	30-Apr-10	11:12:36	Spencer Island East (Near-Field)	End Lower River		49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay	5	4,5,6,7,8,9,11		LR	57.1		
54-194 (A1)	30-Apr-10	13:45:00	Near Bird Island	Transition Upstream between Lower River & Tailrace		65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay	6	1,2,3,4,5,6,7,8,9,11		LR	57.1		
54-194 (A1)	30-Apr-10	NA	NA	Start Tailrace Detection 2		0												None	A						LR	57.1		
54-194 (A1)	30-Apr-10	NA	NA	Transition Upstream 4 (Tailrace to Upper Tailrace)		0												None	A						LR	57.1		
54-194 (A1)	30-Apr-10	16:39:37	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C		up		6	1,2,3,4,5,6,7,8,9,11		LR	57.1	
54-194 (A1)	30-Apr-10	17:18:52	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	57.1	
	30-Apr-10	17:30:00			B	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11		2	moved up briefly and back out; no change in gen	57.1
54-194 (A1)	30-Apr-10	18:27:19	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C		down		6	1,2,3,4,5,6,7,8,9,11		LR	57.1	
	30-Apr-10	18:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	57.1	
	30-Apr-10	19:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	57.1	
	30-Apr-10	20:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	57.1	
	30-Apr-10	21:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11		LR	57.1	
	30-Apr-10	22:30:00				9970	0	4940	0	0	5030	0	0	0	0	0	0	None	A	down	stay	1	2,5,		LR	57.1		
	30-Apr-10	23:30:00				9970	0	4940	0	0	5030	0	0	0	0	0	0	None	A			1	2,5,		LR	57.1		
	01-May-10	0:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5,		LR	59.1		
	01-May-10	1:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5,		LR	59.1		
	01-May-10	2:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5,		LR	59.1		
54-194 (A1)	01-May-10	3:03:20	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5,		LR	59.1		
	01-May-10	3:30:00				9380																						



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
	01-May-10	17:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C			7	2,3,4,5,6,7,8,9,10,11			59.1
	01-May-10	18:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C			7	2,3,4,5,6,7,8,9,10,11			59.1
	01-May-10	19:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C			7	2,3,4,5,6,7,8,9,10,11			59.1
	01-May-10	20:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C			7	2,3,4,5,6,7,8,9,10,11			59.1
	01-May-10	21:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C			7	2,3,4,5,6,7,8,9,10,11			59.1
	01-May-10	22:30:00				40540	0	4600	6340	6060	0	0	6130	8700	8710	0	0	None	C	down	stay	4	2,3,4,7,8,9			59.1
	01-May-10	23:30:00				10730	0	4600	0	0	0	0	6130	0	0	0	0	None	A	down	stay	1	2,7			59.1
	02-May-10	0:30:00				6430	0	4440	0	0	0	0	1990	0	0	0	0	None	A	down	stay	1	2,7			62.5
	02-May-10	1:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A	up	stay	1	2,5			62.5
	02-May-10	2:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5			62.5
	02-May-10	3:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5		3 moved up and searched; moved out when gen went to min	62.5
54-194 (A1)	02-May-10	3:42:55	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A		down	1	2,5		LR	62.5
	02-May-10	4:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5		LR	62.5
	02-May-10	5:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5		LR	62.5
	02-May-10	6:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5		LR	62.5
	02-May-10	7:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5		LR	62.5
	02-May-10	8:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5		LR	62.5
	02-May-10	9:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5		LR	62.5
	02-May-10	10:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C	up	stay	3	2,5,6,7,8,9		LR	62.5
	02-May-10	11:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C			3	2,5,6,7,8,9		LR	62.5
	02-May-10	12:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C			3	2,5,6,7,8,9		LR	62.5
	02-May-10	13:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C			3	2,5,6,7,8,9		LR	62.5
	02-May-10	14:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C	up	stay	6	2,3,4,5,6,7,8,9,10,11		LR	62.5
	02-May-10	15:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11		LR	62.5
	02-May-10	16:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11		LR	62.5
	02-May-10	17:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11		LR	62.5
54-194 (A1)	02-May-10	NA	NA	Transition Upstream 7 (Tailrace to Upper Tailrace)		0												None	A						LR	62.5
54-194 (A1)	02-May-10	NA	NA	Start Upper Tailrace Detection (Start UT Foray 7)		0												None	A						LR	62.5
54-194 (A1)	02-May-10	18:12:53	"C" Gate Aerial	Start EFL Aerial Detection	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C		up	6	2,3,4,5,6,7,8,9,10,11			62.5
54-194 (A1)	02-May-10	18:18:34	"A" Gate Crowder Dropper	Start EFL	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5
54-194 (A1)	02-May-10	18:25:37	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	18:30:00			C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	19:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	20:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	21:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	22:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	23:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11			62.5
	03-May-10	0:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay	1	2,5			65.5
	03-May-10	1:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5			65.5
	03-May-10	2:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5			65.5
	03-May-10	3:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5			65.5
	03-May-10	4:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5			65.5
	03-May-10	5:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5			65.5
	03-May-10	6:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5			65.5
	03-May-10	7:30:00			D	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A		spillway	1	2,5			65.5
	03-May-10	8:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A		spillway	1	2,5			65.5
	03-May-10	9:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A		spillway	1	2,5			65.5
	03-May-10	10:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A		spillway	1	2,5			65.5
	03-May-10	11:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A		spillway	1	2,5			65.5
	03-May-10	12:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up	spillway	6	1,2,3,4,5,6,7,8,9,11			65.5
	03-May-10	13:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C		spillway	6	1,2,3,4,5,6,7,8,9,11			65.5
	03-May-10	14:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C		spillway	6	1,2,3,4,5,6,7,8,9,11			65.5
	03-May-10	15:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C		spillway	6	1,2,3,4,5,6,7,8,9,11			65.5
54-194 (A1)	03-May-10	16:11:48	Conowingo Fishway Exit Trough	Passage	D	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C		spillway	6	1,2,3,4,5,6,7,8,9,11		2 moved up to zone C and passed at 64K	65.5





Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-198 (A1)	20-Apr-10	13:36:00	Conowingo Tailrace	Release - Between Units 5 & 7		10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A			1	5,7,			58.4	
54-198 (A1)	20-Apr-10	23:39:02		Start Tailrace Detection 1	E	10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A			1	5,7,		LR	58.4	
	21-Apr-10	0:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A	up	stay	1	5,7,		LR	58.1	
	21-Apr-10	1:30:00			E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
	21-Apr-10	2:30:00			E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
	21-Apr-10	3:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
	21-Apr-10	4:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
	21-Apr-10	5:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
	21-Apr-10	6:30:00			E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
	21-Apr-10	7:30:00			E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
	21-Apr-10	8:30:00			E	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C	up	stay	3	2,5,6,7,8,		LR	58.1
	21-Apr-10	9:30:00			E	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C			3	2,5,6,7,8,		LR	58.1
	21-Apr-10	10:30:00			E	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C			3	2,5,6,7,8,		LR	58.1
	21-Apr-10	11:30:00			E	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C			3	2,5,6,7,8,		LR	58.1
	21-Apr-10	12:30:00			E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A	down	stay	1	2,7,		LR	58.1
	21-Apr-10	13:30:00			E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A			1	2,7,		LR	58.1
	21-Apr-10	14:30:00			E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A			1	2,7,		LR	58.1
	21-Apr-10	15:30:00			E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A			1	2,7,		LR	58.1
	21-Apr-10	16:30:00			E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A			1	2,7,		LR	58.1
	21-Apr-10	17:30:00			E	67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C	up	stay	7	1,2,3,4,5,6,7,8,9,11		LR	58.1	
	21-Apr-10	18:30:00			E	67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C			7	1,2,3,4,5,6,7,8,9,11		LR	58.1	
	21-Apr-10	19:30:00			E	67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C			7	1,2,3,4,5,6,7,8,9,11		LR	58.1	
	21-Apr-10	20:30:00			E	67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C			7	1,2,3,4,5,6,7,8,9,11		LR	58.1	
	21-Apr-10	21:30:00			E	67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C			7	1,2,3,4,5,6,7,8,9,11		LR	58.1	
	21-Apr-10	22:30:00			E	12120	0	0	0	0	5580	0	6540	0	0	0	0	0	None	A	down	stay	1	5,7,		LR	58.1
	21-Apr-10	23:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	0	None	A			1	5,7,		LR	58.1
	22-Apr-10	0:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,		LR	58.1
	22-Apr-10	1:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,		LR	58.1
	22-Apr-10	2:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,		LR	58.1
	22-Apr-10	3:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,		LR	58.1
	22-Apr-10	4:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,		LR	58.1
	22-Apr-10	5:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,		LR	58.1
	22-Apr-10	6:30:00			E	23530	0	0	0	5910	5200	6060	6360	0	0	0	0	0	None	A	up	stay	2	4,5,6,7,		LR	58.1
	22-Apr-10	7:30:00			E	23530	0	0	0	5910	5200	6060	6360	0	0	0	0	0	None	A			2	4,5,6,7,		LR	58.1
	22-Apr-10	8:30:00			E	23530	0	0	0	5910	5200	6060	6360	0	0	0	0	0	None	A			2	4,5,6,7,		LR	58.1
	22-Apr-10	9:30:00			E	23530	0	0	0	5910	5200	6060	6360	0	0	0	0	0	None	A			2	4,5,6,7,		LR	58.1
	22-Apr-10	10:30:00			E	40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	0	None	C	up	stay	4	4,5,6,7,8,9,		LR	58.1
	22-Apr-10	11:30:00			E	40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	0	None	C			4	4,5,6,7,8,9,		LR	58.1
	22-Apr-10	12:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A	down	stay	1	5,7,		LR	58.1
	22-Apr-10	13:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,		LR	58.1
	22-Apr-10	14:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,		LR	58.1
54-198 (A1)	22-Apr-10	14:49:14	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,		LR	58.1
	22-Apr-10	15:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,		LR	58.1
54-198 (A1)	22-Apr-10	16:07:00	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A		up	1	5,7,		LR	58.1
	22-Apr-10	16:30:00			B	11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,		LR	58.1
54-198 (A1)	22-Apr-10	17:05:26	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	0	None	A			1	5,7,	1	moved up briefly and back out; no change in gen	58.1
54-198 (A1)	22-Apr-10	17:15:21	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up			6	2,3,4,5,6,7,8,9,11		LR	58.1
	22-Apr-10	17:30:00			B/E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C			6	2,3,4,5,6,7,8,9,11		LR	58.1	
	22-Apr-10	18:30:00			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C		down		6	2,3,4,5,6,7,8,9,11		LR	58.1
54-198 (A1)	22-Apr-10	18:43:00	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				6	2,3,4,5,6,7,8,9,11		LR	58.1
54-198 (A1)	22-Apr-10	18:58:08	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C		up		6	2,3,4,5,6,7,8,9,11		LR	58.1
	22-Apr-10	19:30:00			A/B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				6	2,3,4,5,6,7,8,9,11		LR	58.1
54-198 (A1)	22-Apr-10	19:33:57	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	59470	0	4930	5980	5910	5200	6060	6360	8680	8												

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)		
	23-Apr-10	11:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9	LR		59.7	
	23-Apr-10	12:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9	LR		59.7	
	23-Apr-10	13:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		1	5,7	LR		59.7	
	23-Apr-10	14:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1	5,7	LR		59.7	
	23-Apr-10	15:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1	5,7	LR		59.7	
	23-Apr-10	16:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1	5,7	LR		59.7	
54-198 (A1)	23-Apr-10	17:04:54	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		4	4,5,6,7,8,9	LR		59.7	
54-198 (A1)	23-Apr-10	19:45:47	Spencer Island West (Near-Field)	Start Lower River		40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9	LR		59.7	
54-198 (A1)	03-May-10	12:43:05	Tomes Landing (East Shore) (Near-Field)	End Lower River		64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up			6	1,2,3,4,5,6,7,8,9,11	LR		65.5	
54-198 (A1)	04-May-10	5:42:46	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		1	2,5	LR		68.1	
	04-May-10	6:30:00			E	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5	LR		68.1	
	04-May-10	7:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1	2,5	LR		68.1	
	04-May-10	8:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A	up	stay		2	2,5,6,7	LR		68.1	
	04-May-10	9:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7	LR		68.1	
	04-May-10	10:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7	LR		68.1	
	04-May-10	11:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2	2,5,6,7	LR		68.1	
54-198 (A1)	04-May-10	12:11:12	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11	LR		68.1	
	04-May-10	12:30:00			E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	LR		68.1	
54-198 (A1)	04-May-10	13:12:38	Conowingo Tailrace Units 1-7 Master	Start Upper Tailrace Detection (Start UT Foray 3)	A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		up		7	2,3,4,5,6,7,8,9,10,11			68.1	
	04-May-10	13:30:00			A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1	
	04-May-10	14:30:00			A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1	
	04-May-10	15:30:00			B/E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1	
	04-May-10	16:30:00			A/B/C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1	
54-198 (A1)	04-May-10	17:28:32	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1	
	04-May-10	17:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	3 searched all zones and moved out; no change in gen		68.1	
54-198 (A1)	04-May-10	17:41:52	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		down		7	2,3,4,5,6,7,8,9,10,11	LR		68.1	
54-198 (A1)	04-May-10	17:42:22	Rowland Island East (Near-Field)	End Tailrace Detection 2	F	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		spillway		7	2,3,4,5,6,7,8,9,10,11	LR		68.1	
54-198 (A1)	04-May-10	19:19:37	Lapidum (West Shore) (Near-Field)	Start Lower River		68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	LR		68.1	
54-198 (A1)	06-May-10	16:33:21	Spencer Island West (Near-Field)	End Lower River		67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11	LR		69.5	
54-198 (A1)	06-May-10	23:15:54	Rowland Island East (Near-Field)	Start Tailrace Detection 3	F	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	spillway		1	3,5	LR		69.5	
54-198 (A1)	06-May-10	23:23:41	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A		down		1	3,5	LR		69.5	
	06-May-10	23:30:00			E/F	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5	LR		69.5	
54-198 (A1)	07-May-10	0:04:05	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A	up	up		2	2,4,5,7			69.4
54-198 (A1)	07-May-10	0:29:13	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7			69.4
	07-May-10	0:30:00			A/B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7			69.4
	07-May-10	1:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7	2 moved up briefly and back out; no change in gen		69.4
54-198 (A1)	07-May-10	2:01:30	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A		down		2	2,4,5,7	LR		69.4
	07-May-10	2:30:00			E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7	LR		69.4
	07-May-10	3:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7	LR		69.4
54-198 (A1)	07-May-10	3:34:35	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7	LR		69.4
54-198 (A1)	07-May-10	3:51:30	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A		up		2	2,4,5,7			69.4
	07-May-10	4:30:00			A/B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7			69.4
	07-May-10	5:30:00			A/B/C	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7			69.4
54-198 (A1)	07-May-10	5:35:30	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7	3 searched all zones and moved out; no change in gen		69.4
54-198 (A1)	07-May-10	5:45:38	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A		down		2	2,4,5,7	LR		69.4
	07-May-10	6:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7	LR		69.4
54-198 (A1)	07-May-10	6:42:52	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A				2	2,4,5,7	LR		69.4
54-198 (A1)	07-May-10	6:58:23	Conowingo Tailrace Unit 8 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	C	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A		up		2	2,4,5,7			69.4
	07-May-10	7:30:00			B/C	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None									

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-199 (A1)	20-Apr-10	13:52:00	Conowingo Tailrace	Release - Between Units 5 & 7		10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A			1	5,7,			58.4
54-199 (A1)	NA	NA	NA	Start Tailrace Detection 1		0												None	A							
54-199 (A1)	NA	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A							
54-199 (A1)	06-May-10	0:53:22	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	1:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	2:30:00			B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	3:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	4:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	5:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	6:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	7:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	8:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	9:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	10:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	11:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	12:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	13:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	14:30:00				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay	6	2,3,4,5,6,7,8,9,11			69.5
54-199 (A1)	06-May-10	14:44:25	"C" Gate Aerial	Start EFL Aerial Detection	C	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C			6	2,3,4,5,6,7,8,9,11			69.5
54-199 (A1)	06-May-10	14:46:34	"A" Gate Aerial	End EFL Aerial Detection	C	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C			6	2,3,4,5,6,7,8,9,11			69.5
	06-May-10	15:30:00				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C			6	2,3,4,5,6,7,8,9,11			69.5
	06-May-10	16:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	stay	7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	17:30:00			A/B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11			69.5
54-199 (A1)	06-May-10	17:50:49	"C" Gate Aerial	Start EFL Aerial Detection	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11			69.5
54-199 (A1)	06-May-10	17:52:31	"A" Gate Aerial	End EFL Aerial Detection	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	18:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11			69.5
54-199 (A1)	06-May-10	19:26:58	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	19:30:00			A/B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11	3 searched all zones; moved out at 68K gen		69.5
54-199 (A1)	06-May-10	19:41:00	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C		down	7	2,3,4,5,6,7,8,9,10,11	LR		69.5
	06-May-10	19:30:00			A/B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C		up	7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	20:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	21:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	22:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay	1	3,5,			69.5
	06-May-10	23:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	07-May-10	0:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	up	stay	2	2,4,5,7,			69.4
	07-May-10	1:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	2:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	3:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	4:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	5:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	6:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	7:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	8:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C	up	stay	4	2,4,5,6,7,8,			69.4
	07-May-10	9:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
	07-May-10	10:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,	2 searched during variety of flows; moved out at 37K		69.4
54-199 (A1)	07-May-10	11:24:22	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C		down	4	2,4,5,6,7,8,	LR		69.4
	07-May-10	11:30:00			E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,	LR		69.4
54-199 (A1)	07-May-10	12:09:09	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	43490	0	4570	6010	5860	5410	6530	6410	8700	0	0	0	None	C	up	up	4	2,3,4,5,6,7,8,			69.4
	07-May-10	12:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay	6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	13:30:00			A/B	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay	5	2,4,5,6,7,8,9,11			69.4
	07-May-10	14:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay	6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	15:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	16:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630											

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)			
54-201 (A1)	20-Apr-10	14:08:00	Conowingo Tailrace	Release - Between Units 5 & 7		10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A			1	5,7,			58.4			
54-201 (A1)	20-Apr-10	17:02:08	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A			1	5,7,		LR	58.4			
	20-Apr-10	17:30:00			E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C	up	stay		3	4,5,6,7,8,		LR	58.4		
	20-Apr-10	18:30:00			E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C				3	4,5,6,7,8,		LR	58.4		
	20-Apr-10	19:30:00			E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C				3	4,5,6,7,8,		LR	58.4		
	20-Apr-10	20:30:00				31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C				3	4,5,6,7,8,		LR	58.4		
	20-Apr-10	21:30:00				31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C				3	4,5,6,7,8,		LR	58.4		
	20-Apr-10	22:30:00				10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A	down	stay		1	5,7,		LR	58.4		
	20-Apr-10	23:30:00				10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				1	5,7,		LR	58.4		
	21-Apr-10	0:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A	up	stay		1	5,7,		LR	58.4		
	21-Apr-10	1:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1	5,7,		LR	58.4		
	21-Apr-10	2:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1	5,7,		LR	58.4		
	21-Apr-10	3:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1	5,7,		LR	58.4		
	21-Apr-10	4:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1	5,7,		LR	58.4		
	21-Apr-10	5:30:00			E/F	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1	5,7,		LR	58.4		
	21-Apr-10	6:30:00			A/B	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		up		1	5,7,		2	moved up briefly and back down; could be anomaly	58.4	
	21-Apr-10	7:30:00			E/F	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		down		1	5,7,		LR	58.4		
	21-Apr-10	8:30:00				32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	None	C	up	stay		3	2,5,6,7,8,		LR	58.4		
	21-Apr-10	9:30:00			E	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	None	C				3	2,5,6,7,8,		LR	58.4		
	21-Apr-10	10:30:00			E	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	None	C				3	2,5,6,7,8,		LR	58.4		
	21-Apr-10	11:30:00				32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	None	C				3	2,5,6,7,8,		LR	58.4		
	21-Apr-10	12:30:00			A/B/C	11730	0	5190	0	0	0	0	6540	0	0	0	0	None	A	down	up		1	2,7,			58.4		
	21-Apr-10	13:30:00			A/B/C/D	11730	0	5190	0	0	0	0	6540	0	0	0	0	None	A				1	2,7,			58.4		
	21-Apr-10	14:30:00			B	11730	0	5190	0	0	0	0	6540	0	0	0	0	None	A				1	2,7,			58.4		
	21-Apr-10	15:30:00			B/C/D	11730	0	5190	0	0	0	0	6540	0	0	0	0	None	A				1	2,7,		4	searched all zones and went downstream: no change in gen	58.4	
	21-Apr-10	16:30:00			E	11730	0	5190	0	0	0	0	6540	0	0	0	0	None	A				1	2,7,		LR	58.4		
	21-Apr-10	17:30:00				67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C	up	down		7	1,2,3,4,5,6,7,8,9,11		LR	58.4		
	21-Apr-10	18:30:00				67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C				7	1,2,3,4,5,6,7,8,9,11		LR	58.4		
	21-Apr-10	19:30:00				67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C				7	1,2,3,4,5,6,7,8,9,11		LR	58.4		
	21-Apr-10	20:30:00				67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C				7	1,2,3,4,5,6,7,8,9,11		LR	58.4		
	21-Apr-10	21:30:00				67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C				7	1,2,3,4,5,6,7,8,9,11		LR	58.4		
	21-Apr-10	22:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A	down	stay		1	5,7,		LR	58.4		
	21-Apr-10	23:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1	5,7,		LR	58.4		
	22-Apr-10	0:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1	5,7,		LR	58.1		
	22-Apr-10	1:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1	5,7,		LR	58.1		
	22-Apr-10	2:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1	5,7,		LR	58.1		
	22-Apr-10	3:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1	5,7,		LR	58.1		
	22-Apr-10	4:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1	5,7,		LR	58.1		
54-201 (A1)	22-Apr-10	5:10:47	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1	5,7,		LR	58.1		
	22-Apr-10	5:30:00			E/F	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1	5,7,		LR	58.1		
54-201 (A1)	22-Apr-10	5:53:31	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		up		1	5,7,			58.1		
54-201 (A1)	22-Apr-10	6:20:38	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	23530	0	0	0	5910	5200	6060	6360	0	0	0	0	0	None	A	up	down		2	4,5,6,7,			58.1	
	22-Apr-10	6:30:00			A/B	23530	0	0	0	0	5910	5200	6060	6360	0	0	0	0	None	A				2	4,5,6,7,		2	moved up briefly and back down; no change in gen	58.1
54-201 (A1)	22-Apr-10	6:45:04	Rowland Island East (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	F	23530	0	0	0	5910	5200	6060	6360	0	0	0	0	0	None	A		spillway		2	4,5,6,7,		LR	58.1	
	22-Apr-10	7:30:00			E	23530	0	0	0	5910	5200	6060	6360	0	0	0	0	0	None	A		down		2	4,5,6,7,		LR	58.1	
	22-Apr-10	8:30:00				23530	0	0	0	5910	5200	6060	6360	0	0	0	0	0	None	A				2	4,5,6,7,		LR	58.1	
	22-Apr-10	9:30:00			E	23530	0	0	0	5910	5200	6060	6360	0	0	0	0	0	None	A				2	4,5,6,7,		LR	58.1	
	22-Apr-10	10:30:00			E	40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	0	None	C	up	stay		4	4,5,6,7,8,9,		LR	58.1	
54-201 (A1)	22-Apr-10	11:17:20	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	0	None	C				4	4,5,6,7,8,9,		LR	58.1	
	22-Apr-10	11:30:00				40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	0	None	C				4	4,5,6,7,8,9,		LR	58.1	
54-201 (A1)	22-Apr-10	11:53:02	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	0	None	C		up		4	4,5,6,7,8,9,			58.1	
	22-Apr-10	12:30:00			A/B/C	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		1	5,7,			58.1		
	22-Apr-10	13:30:00			A/B/C	11560	0	0	0	0	5200	0	6360	0	0	0													



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
	23-Apr-10	6:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,		LR	59.7	
	23-Apr-10	7:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		4	4,5,6,7,8,9,		LR	59.7
	23-Apr-10	8:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7
54-201 (A1)	23-Apr-10	9:24:57	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C		down		4	4,5,6,7,8,9,		LR	59.7
	23-Apr-10	9:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7
54-201 (A1)	23-Apr-10	9:58:04	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C		up		4	4,5,6,7,8,9,			59.7
	23-Apr-10	10:30:00			A/B/C	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,			59.7
54-201 (A1)	23-Apr-10	10:33:09	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,	3	moved up briefly and back down; no change in gen	59.7
54-201 (A1)	23-Apr-10	10:53:27	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C		down		4	4,5,6,7,8,9,		LR	59.7
	23-Apr-10	11:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7
	23-Apr-10	12:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7
	23-Apr-10	13:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		1	5,7,		LR	59.7
	23-Apr-10	14:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1	5,7,		LR	59.7
	23-Apr-10	15:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1	5,7,		LR	59.7
	23-Apr-10	16:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1	5,7,		LR	59.7
	23-Apr-10	17:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		4	4,5,6,7,8,9,		LR	59.7
	23-Apr-10	18:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7
	23-Apr-10	19:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7
	23-Apr-10	20:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7
	23-Apr-10	21:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				4	4,5,6,7,8,9,		LR	59.7
	23-Apr-10	22:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		1	5,7,		LR	59.7
	23-Apr-10	23:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				1	5,7,		LR	59.7
	24-Apr-10	0:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	1:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	2:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	3:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	4:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	5:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
54-201 (A1)	24-Apr-10	5:41:36	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
54-201 (A1)	24-Apr-10	5:49:04	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		up		1	5,7,			60.6
	24-Apr-10	6:30:00			A/B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,			60.6
	24-Apr-10	7:30:00			A/B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,			60.6
54-201 (A1)	24-Apr-10	7:34:14	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,	2	moved up briefly and back down; no change in gen	60.6
54-201 (A1)	24-Apr-10	7:51:06	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		down		1	5,7,		LR	60.6
	24-Apr-10	8:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
54-201 (A1)	24-Apr-10	8:42:11	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	9:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
54-201 (A1)	24-Apr-10	9:56:13	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		up		1	5,7,			60.6
	24-Apr-10	10:30:00			A/B/C	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,			60.6
54-201 (A1)	24-Apr-10	10:50:29	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,	3	searched all zones and went downstream: no change in gen	60.6
54-201 (A1)	24-Apr-10	11:06:08	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		down		1	5,7,		LR	60.6
	24-Apr-10	11:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	12:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	13:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	14:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	15:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	16:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	17:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	18:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	24-Apr-10	19:30:00			E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A	up	stay		2	4,5,6,7,		LR	60.6
	24-Apr-10	20:30:00				23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A				2	4,5,6,7,		LR	60.6
	24-Apr-10	21:30:00				23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A				2	4,5,6,7,		LR	60.6
	24-Apr-10	22:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A	down	stay		1	5,7,		LR	60.6
	24-Apr-10	23:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				1	5,7,		LR	60.6
	25-Apr-10	0:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,		LR	61
	25-Apr-10	1:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,		LR	61
	25-Apr-10	2:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,		LR	61
	25-Apr-10	3:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,		LR	61
	25-Apr-10	4:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,		LR	61
	25-Apr-10	5:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,		LR	61
	25-Apr-10	6:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,		LR	61
	25-Apr-10	7:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				1	5,7,		LR</	

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)		
54-201 (A1)	25-Apr-10	15:31:48	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A			1	5,7,			61		
	25-Apr-10	16:30:00			A/B	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A		up		1	5,7,		61		
54-201 (A1)	25-Apr-10	17:05:27	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A	up	stay		2	4,5,6,7,	2	moved up briefly and back down; no change in gen	61	
54-201 (A1)	25-Apr-10	17:10:07	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A		down		2	4,5,6,7,		LR	61	
	25-Apr-10	17:30:00			E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				2	4,5,6,7,		LR	61	
54-201 (A1)	25-Apr-10	17:33:00	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				2	4,5,6,7,		LR	61	
54-201 (A1)	25-Apr-10	17:59:48	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A		up		2	4,5,6,7,			61	
	25-Apr-10	18:30:00			A/B	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				2	4,5,6,7,			61	
54-201 (A1)	25-Apr-10	18:52:26	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	B	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				2	4,5,6,7,	2	moved up briefly and back down; no change in gen	61	
54-201 (A1)	25-Apr-10	19:07:36	Rowland Island East (Near-Field)	Transition Downstream 7 (Upper Tailrace to Tailrace)	F	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A		spwillway		2	4,5,6,7,		LR	61	
	25-Apr-10	19:30:00			E/F	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A		spwillway		2	4,5,6,7,		LR	61	
	25-Apr-10	20:30:00				22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A		spwillway		2	4,5,6,7,		LR	61	
	25-Apr-10	21:30:00				22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A		spwillway		2	4,5,6,7,		LR	61	
	25-Apr-10	22:30:00				11250	0	0	0	5200	0	6050	0	0	0	0	0	None	A	down	stay		1	5,7,		LR	61	
	25-Apr-10	23:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A		spillway		1	5,7,		LR	61	
	26-Apr-10	0:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A		spillway		1	5,7,		LR	60.9	
	26-Apr-10	1:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A		spillway		1	5,7,		LR	60.9	
	26-Apr-10	2:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A		down		1	5,7,		LR	60.9	
	26-Apr-10	3:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				1	5,7,		LR	60.9	
	26-Apr-10	4:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				1	5,7,		LR	60.9	
	26-Apr-10	5:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C	up		4	4,5,6,7,8,9,		LR	60.9	
54-201 (A1)	26-Apr-10	6:24:10	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,		LR	60.9	
	26-Apr-10	6:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,		LR	60.9	
	26-Apr-10	7:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,		LR	60.9	
54-201 (A1)	26-Apr-10	7:54:51	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C		up		4	4,5,6,7,8,9,		60.9	
	26-Apr-10	8:30:00			B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,		60.9		
	26-Apr-10	9:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,		60.9		
	26-Apr-10	10:30:00			B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,		60.9		
	26-Apr-10	11:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,		60.9		
	26-Apr-10	12:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,		60.9		
	26-Apr-10	13:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,		60.9		
	26-Apr-10	14:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,		60.9		
54-201 (A1)	26-Apr-10	15:09:11	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,		60.9		
	26-Apr-10	15:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,	2	searched and moved to spillway; no change in gen	60.9	
54-201 (A1)	26-Apr-10	16:04:00	Rowland Island East (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	F	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C		spillway		4	4,5,6,7,8,9,		LR	60.9
	26-Apr-10	16:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C		spillway		4	4,5,6,7,8,9,		LR	60.9
	26-Apr-10	17:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C		spillway		4	4,5,6,7,8,9,		LR	60.9
	26-Apr-10	18:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C		spillway		4	4,5,6,7,8,9,		LR	60.9
	26-Apr-10	19:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C		spillway		4	4,5,6,7,8,9,		LR	60.9
	26-Apr-10	20:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C		spillway		4	4,5,6,7,8,9,		LR	60.9
	26-Apr-10	21:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C		spillway		4	4,5,6,7,8,9,		LR	60.9
	26-Apr-10	22:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A	down	spillway		1	5,7,		LR	60.9	
	26-Apr-10	23:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A		spillway		1	5,7,		LR	60.9	
	27-Apr-10	0:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		spillway		1	5,7,		LR	60.6	
	27-Apr-10	1:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		spillway		1	5,7,		LR	60.6	
	27-Apr-10	2:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		spillway		1	5,7,		LR	60.6	
	27-Apr-10	3:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		spillway		1	5,7,		LR	60.6	
	27-Apr-10	4:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		spillway		1	5,7,		LR	60.6	
	27-Apr-10	5:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		spillway		1	5,7,		LR	60.6	
	27-Apr-10	6:30:00			E/F	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		spillway		1	5,7,		LR	60.6	
	27-Apr-10	7:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		down		1	5,7,		LR	60.6	
	27-Apr-10	8:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				1	5,7,		LR	60.6	
54-201 (A1)																												



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
	27-Apr-10	23:30:00				11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A				14,5,			60.6	
	28-Apr-10	0:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				14,5,			58.7	
	28-Apr-10	1:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				14,5,			58.7	
	28-Apr-10	2:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				14,5,			58.7	
	28-Apr-10	3:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				14,5,			58.7	
	28-Apr-10	4:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				14,5,			58.7	
	28-Apr-10	5:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				14,5,			58.7	
	28-Apr-10	6:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				14,5,			58.7	
	28-Apr-10	7:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				14,5,			58.7	
	28-Apr-10	8:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				14,5,			58.7	
	28-Apr-10	9:30:00				22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	up	stay		24,5,6,7,			58.7	
	28-Apr-10	10:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		44,5,6,7,8,9,			58.7	
	28-Apr-10	11:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	12:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	13:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	14:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	15:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	16:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	17:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	18:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	19:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	20:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	21:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	22:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	28-Apr-10	23:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				44,5,6,7,8,9,			58.7	
	29-Apr-10	0:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A	up	stay		23,5,6,7,			56.8	
	29-Apr-10	1:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				23,5,6,7,			56.8	
	29-Apr-10	2:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				23,5,6,7,			56.8	
	29-Apr-10	3:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		15,7,			56.8	
	29-Apr-10	4:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				15,7,			56.8	
	29-Apr-10	5:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				15,7,			56.8	
	29-Apr-10	6:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				15,7,			56.8	
	29-Apr-10	7:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				15,7,			56.8	
	29-Apr-10	8:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				15,7,			56.8	
	29-Apr-10	9:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				15,7,			56.8	
	29-Apr-10	10:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				15,7,			56.8	
	29-Apr-10	11:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				15,7,			56.8	
	29-Apr-10	12:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				15,7,			56.8	
	29-Apr-10	13:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C	up	stay		61,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	14:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				61,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	15:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				61,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	16:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				61,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	17:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				61,2,3,4,5,6,7,8,9,10,			56.8
54-201 (A1)	29-Apr-10	18:09:58	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 10)	A	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				61,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	18:30:00			A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				61,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	19:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				61,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	20:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				61,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	21:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				61,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	22:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				61,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-10	23:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		15,7,			56.8	
	30-Apr-10	0:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				15,7,			57.1	
	30-Apr-10	1:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				15,7,			57.1	
	30-Apr-10	2:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				15,7,			57.1	
	30-Apr-10	3:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				15,7,			57.1	
	30-Apr-10	4:30:00			B	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				15,7,			57.1	
	30-Apr-10	5:30:00			B	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				15,7,			57.1	
	30-Apr-10	6:30:00			A/B	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		54,5,6,7,8,9,11,			57.1	
	30-Apr-10	7:30:00			A/B	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				54,5,6,7,8,9,11,			57.1	
	30-Apr-10	8:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				54,5,6,7,8,9,11,			57.1	
54-201 (A1)	30-Apr-10	9:06:11	"C" Gate Aerial	Start EFL Aerial Detection	C	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				54,5,6,7,8,9,11,			57.1	
54-201 (A1)	30-Apr-10	9:14:05	"C" Gate Entrance Dropper	Start EFL	C	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				54,5,6,7,8,9,11,			57.1	
	30-Apr-10	9:30:00			C	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				54,5,6,7,8,9,11,			57.1	
54-201 (A1)	30-Apr-10	9:52:19	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	49120	0	0	0	5810	5030	5640	6														

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-202 (A1)	20-Apr-10	14:12:00	Conowingo Tailrace	Release - Between Units 5 & 7		10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A			1	5,7			58.4
54-202 (A1)	01-May-10	20:10:40	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C	up	stay	7	2,3,4,5,6,7,8,9,10,11	LR		59.1
	01-May-10	20:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C			7	2,3,4,5,6,7,8,9,10,11	LR		59.1
	01-May-10	21:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C			7	2,3,4,5,6,7,8,9,10,11	LR		59.1
	01-May-10	22:30:00				40540	0	4600	6340	6060	0	0	6130	8700	8710	0	0	None	C	down	stay	4	2,3,4,7,8,9	LR		59.1
	01-May-10	23:30:00				10730	0	4600	0	0	0	0	6130	0	0	0	0	None	A	down	stay	1	2,7	LR		59.1
	01-May-10	0:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A			1	2,5	LR		59.1
	02-May-10	1:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5	LR		62.5
	02-May-10	2:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5	LR		62.5
	02-May-10	3:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5	LR		62.5
	02-May-10	4:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5	LR		62.5
	02-May-10	5:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5	LR		62.5
	02-May-10	6:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5	LR		62.5
	02-May-10	7:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5	LR		62.5
	02-May-10	8:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5	LR		62.5
	02-May-10	9:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A			1	2,5	LR		62.5
	02-May-10	10:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C	up	stay	3	2,5,6,7,8,9	LR		62.5
54-202 (A1)	02-May-10	10:32:18	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C			3	2,5,6,7,8,9	LR		62.5
	02-May-10	11:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C			3	2,5,6,7,8,9	LR		62.5
	02-May-10	12:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C			3	2,5,6,7,8,9	LR		62.5
	02-May-10	13:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C			3	2,5,6,7,8,9	LR		62.5
	02-May-10	14:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C	up	stay	6	2,3,4,5,6,7,8,9,10,11	LR		62.5
	02-May-10	15:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11	LR		62.5
	02-May-10	16:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11	LR		62.5
	02-May-10	17:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11	LR		62.5
54-202 (A1)	02-May-10	NA	NA	Start Upper Tailrace Detection (Start UT Foray 1)														None	A						LR	62.5
54-202 (A1)	02-May-10	18:14:52	"C" Gate Aerial	Start EFL Aerial Detection	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C		up		6	2,3,4,5,6,7,8,9,10,11		62.5
54-202 (A1)	02-May-10	18:20:00	"A" Gate Crowder Dropper	Start EFL	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11		62.5	
	02-May-10	18:30:00			C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11		62.5	
54-202 (A1)	02-May-10	18:41:22	"A" Gate Crowder Dropper	End EFL	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11		62.5	
54-202 (A1)	02-May-10	19:24:04	"C" Gate Entrance Dropper	Start EFL	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11		62.5	
54-202 (A1)	02-May-10	19:24:28	"C" Gate Entrance Dropper	End EFL	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11		62.5	
54-202 (A1)	02-May-10	19:25:26	"C" Gate Aerial	End EFL Aerial Detection	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11		62.5	
	02-May-10	19:30:00			C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11		62.5	
	02-May-10	20:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11		62.5	
54-202 (A1)	02-May-10	NA	NA	End Upper Tailrace Detection (End UT Foray 1)														None	A						1 entered 1 zone and moved out; no change in gen	62.5
54-202 (A1)	02-May-10	20:32:00	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C		down		6	2,3,4,5,6,7,8,9,10,11	LR	62.5
	02-May-10	21:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11	LR		62.5
	02-May-10	22:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11	LR		62.5
	02-May-10	23:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C			6	2,3,4,5,6,7,8,9,10,11	LR		62.5
	03-May-10	0:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay	1	2,5	LR		65.5
	03-May-10	1:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5	LR		65.5
	03-May-10	2:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5	LR		65.5
	03-May-10	3:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5	LR		65.5
	03-May-10	4:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5	LR		65.5
	03-May-10	5:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5	LR		65.5
	03-May-10	6:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5	LR		65.5
	03-May-10	7:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5	LR		65.5
	03-May-10	8:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5	LR		65.5
	03-May-10	9:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5	LR		65.5
	03-May-10	10:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5	LR		65.5
	03-May-10	11:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A			1	2,5	LR		65.5
	03-May-10	12:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
	04-May-10	7:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A			1	2,5,		LR	68.1
	04-May-10	8:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A	up	stay	2	2,5,6,7,		LR	68.1
	04-May-10	9:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A			2	2,5,6,7,		LR	68.1
	04-May-10	10:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A			2	2,5,6,7,		LR	68.1
	04-May-10	11:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A			2	2,5,6,7,		LR	68.1
	04-May-10	12:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay	7	2,3,4,5,6,7,8,9,10,11		LR	68.1
54-202 (A1)	04-May-10	12:37:00	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		up	7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	13:30:00			A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	14:30:00			A/B/C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	15:30:00			A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	16:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	17:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	18:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	19:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	20:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	21:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
54-202 (A1)	04-May-10	22:12:28	"C" Gate Aerial	Start EFL Aerial Detection	C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
54-202 (A1)	04-May-10	22:15:33	"C" Gate Aerial	End EFL Aerial Detection	C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	22:30:00			A/B/C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C			7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	23:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay	1	2,5,			68.1
	05-May-10	0:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,			69.2
	05-May-10	1:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,			69.2
	05-May-10	2:30:00			B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,			69.2
	05-May-10	3:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,			69.2
	05-May-10	4:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,			69.2
	05-May-10	5:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,			69.2
	05-May-10	6:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,			69.2
	05-May-10	7:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,			69.2
	05-May-10	8:30:00			B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,			69.2
	05-May-10	9:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,			69.2
54-202 (A1)	05-May-10	9:53:58	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,			69.2
	05-May-10	10:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A			1	2,5,	3 searched all zones during a variety of flows; moved out at min gen		69.2
54-202 (A1)	05-May-10	10:45:29	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		down	1	2,5,		LR	69.2
	05-May-10	11:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay	6	1,2,3,4,5,6,7,8,9,11		LR	69.2
54-202 (A1)	05-May-10	12:17:29	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11		LR	69.2
	05-May-10	12:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11		LR	69.2
54-202 (A1)	05-May-10	12:44:36	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		up	6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	13:30:00			B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
54-202 (A1)	05-May-10	13:53:17	"C" Gate Aerial	Start EFL Aerial Detection	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
54-202 (A1)	05-May-10	14:12:25	"A" Gate Crowder Dropper	Start EFL	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
54-202 (A1)	5-May-10	14:14:03	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	14:30:00			C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C			6	1,2,3,4,5,6,7,8,9,11			69.2
54-202 (A1)	05-May-10	15:30:00	Conowingo Fishway Exit Trough	Passage	D	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		spillway	6	1,2,3,4,5,6,7,8,9,11	3 searched 3 zones and passed; no change in gen		69.2

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-203 (A1)	20-Apr-10	14:16:00	Conowingo Tailrace	Release - Between Units 5 & 7		10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A		stay	1	5,7,			58.4	
54-203 (A1)	20-Apr-10	17:17:44	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C	up	stay	3	4,5,6,7,8,		LR	58.4	
	20-Apr-10	17:30:00			D/E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C			3	4,5,6,7,8,		LR	58.4	
	20-Apr-10	18:30:00			E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C			3	4,5,6,7,8,			58.4	
54-203 (A1)	20-Apr-10	19:14:37	Conowingo East Spillway Corner (Near-Field)		D	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,			58.4	
54-203 (A1)	20-Apr-10	19:37:30	Conowingo East Spillway Corner (Near-Field)		D	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,		1	moved to spillway; no change in gen	58.4
54-203 (A1)	20-Apr-10	19:43:36	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,		LR	58.4	
54-203 (A1)	20-Apr-10	19:58:58	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,		LR	58.4	
54-203 (A1)	20-Apr-10	19:59:28	Conowingo East Spillway Corner (Near-Field)		D	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,			58.4	
54-203 (A1)	20-Apr-10	20:00:35	Conowingo East Spillway Corner (Near-Field)		D	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,			58.4	
54-203 (A1)	20-Apr-10	20:00:57	Conowingo East Spillway Corner (Near-Field)		D	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,			58.4	
54-203 (A1)	20-Apr-10	20:29:01	Conowingo East Spillway Corner (Near-Field)		D	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,		1	moved to spillway; no change in gen	58.4
54-203 (A1)	20-Apr-10	20:29:25	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		down	3	4,5,6,7,8,		LR	58.4	
	20-Apr-10	20:30:00			D/E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C			3	4,5,6,7,8,			58.4	
	20-Apr-10	21:30:00			D	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,		1	moved to spillway; no change in gen	58.4
54-203 (A1)	20-Apr-10	21:40:04	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		down	3	4,5,6,7,8,		LR	58.4	
54-203 (A1)	20-Apr-10	21:40:18	Conowingo East Spillway Corner (Near-Field)		D	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,			58.4	
54-203 (A1)	20-Apr-10	21:41:11	Conowingo East Spillway Corner (Near-Field)		D	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,		1	moved to spillway; no change in gen	58.4
54-203 (A1)	20-Apr-10	21:42:42	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		down	3	4,5,6,7,8,		LR	58.4	
54-203 (A1)	20-Apr-10	21:46:30	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C			3	4,5,6,7,8,		LR	58.4	
54-203 (A1)	20-Apr-10	21:46:41	Conowingo East Spillway Corner (Near-Field)		D	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,			58.4	
54-203 (A1)	20-Apr-10	21:55:26	Conowingo East Spillway Corner (Near-Field)		D	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		spillway	3	4,5,6,7,8,		1	moved to spillway; no change in gen	58.4
54-203 (A1)	20-Apr-10	21:56:24	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C		down	3	4,5,6,7,8,		LR	58.4	
	20-Apr-10	22:30:00			D/E	10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A	down	stay	1	5,7,		LR	58.4	
	20-Apr-10	23:30:00			E	10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A			1	5,7,		LR	58.4	
54-203 (A1)	21-Apr-10	0:24:58	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A	up	stay	1	5,7,		LR	58.1	
54-203 (A1)	21-Apr-10	0:24:58	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,			58.1	
54-203 (A1)	21-Apr-10	0:27:24	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,			58.1	
54-203 (A1)	21-Apr-10	0:27:37	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,		1	moved to spillway; no change in gen	58.1
54-203 (A1)	21-Apr-10	0:27:45	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		down	1	5,7,		LR	58.1	
	21-Apr-10	0:30:00			D/E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
54-203 (A1)	21-Apr-10	0:31:28	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
54-203 (A1)	21-Apr-10	0:31:32	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,			58.1	
54-203 (A1)	21-Apr-10	0:34:32	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,			58.1	
54-203 (A1)	21-Apr-10	0:35:00	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,		1	moved to spillway; no change in gen	58.1
54-203 (A1)	21-Apr-10	0:35:11	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		down	1	5,7,		LR	58.1	
54-203 (A1)	21-Apr-10	0:52:04	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
54-203 (A1)	21-Apr-10	0:52:16	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,			58.1	
54-203 (A1)	21-Apr-10	0:54:52	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,		1	moved to spillway; no change in gen	58.1
54-203 (A1)	21-Apr-10	0:55:30	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
54-203 (A1)	21-Apr-10	0:59:09	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
54-203 (A1)	21-Apr-10	0:59:09	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,			58.1	
54-203 (A1)	21-Apr-10	0:59:23	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,			58.1	
54-203 (A1)	21-Apr-10	0:59:56	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,			58.1	
54-203 (A1)	21-Apr-10	1:00:17	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,		1	moved to spillway; no change in gen	58.1
54-203 (A1)	21-Apr-10	1:00:23	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		down	1	5,7,		LR	58.1	
54-203 (A1)	21-Apr-10	1:02:33	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A			1	5,7,		LR	58.1	
54-203 (A1)	21-Apr-10	1:02:52	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,			58.1	
54-203 (A1)	21-Apr-10	1:03:06	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,			58.1	
54-203 (A1)	21-Apr-10	1:06:06	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,		1	moved to spillway; no change in gen	58.1
54-203 (A1)	21-Apr-10	1:07:08																									



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)		
54-203 (A1)	21-Apr-10	6:43:22	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,		1	moved to spillway; no change in gen	58.1	
54-203 (A1)	21-Apr-10	6:43:29	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		down		1	5,7,		LR	58.1	
54-203 (A1)	21-Apr-10	7:29:55	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1	5,7,		LR	58.1	
	21-Apr-10	7:30:00			E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1	5,7,		LR	58.1	
54-203 (A1)	21-Apr-10	7:34:16	Conowingo East Spillway Corner (Near-Field)		D	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A		spillway	1	5,7,				58.1	
54-203 (A1)	21-Apr-10	8:16:00	Conowingo East Spillway Corner (Near-Field)		D	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C	up		3	2,5,6,7,8,		1	moved to spillway;moved out after gen went to 32K	58.1
54-203 (A1)	21-Apr-10	8:19:55	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C		down	3	2,5,6,7,8,		LR	58.1	
	21-Apr-10	8:30:00			D/E	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C			3	2,5,6,7,8,		LR	58.1	
	21-Apr-10	9:30:00				32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C			3	2,5,6,7,8,		LR	58.1	
54-203 (A1)	21-Apr-10	9:57:30	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C			3	2,5,6,7,8,		LR	58.1	
54-203 (A1)	21-Apr-10	10:02:38	Conowingo East Spillway Corner (Near-Field)		D	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C		spillway	3	2,5,6,7,8,				58.1
54-203 (A1)	21-Apr-10	10:29:29	Conowingo East Spillway Corner (Near-Field)		D	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C		spillway	3	2,5,6,7,8,				58.1
54-203 (A1)	21-Apr-10	11:08:31	Conowingo East Spillway Corner (Near-Field)		D	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C		spillway	3	2,5,6,7,8,				58.1
54-203 (A1)	21-Apr-10	11:28:54	Conowingo East Spillway Corner (Near-Field)		D	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C		spillway	3	2,5,6,7,8,				58.1
	21-Apr-10	11:30:00			D	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C		spillway	3	2,5,6,7,8,		1	moved to spillway; no change in gen	58.1
54-203 (A1)	21-Apr-10	11:39:51	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	0	None	C		down	3	2,5,6,7,8,		LR	58.1	
	21-Apr-10	12:30:00			E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A	down	stay	1	2,7,		LR	58.1	
	21-Apr-10	13:30:00			D/E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A			1	2,7,		LR	58.1	
54-203 (A1)	21-Apr-10	14:00:48	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A			1	2,7,		LR	58.1	
54-203 (A1)	21-Apr-10	14:02:34	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,				58.1
54-203 (A1)	21-Apr-10	14:08:51	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,				58.1
54-203 (A1)	21-Apr-10	14:16:14	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,				58.1
54-203 (A1)	21-Apr-10	14:16:28	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,		1	moved to spillway; no change in gen	58.1
54-203 (A1)	21-Apr-10	14:17:06	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		down	1	2,7,		LR	58.1	
54-203 (A1)	21-Apr-10	14:22:09	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A			1	2,7,		LR	58.1	
54-203 (A1)	21-Apr-10	14:22:58	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,				58.1
54-203 (A1)	21-Apr-10	14:33:12	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,				58.1
54-203 (A1)	21-Apr-10	14:42:35	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,		1	moved to spillway; no change in gen	58.1
54-203 (A1)	21-Apr-10	14:43:12	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		down	1	2,7,		LR	58.1	
54-203 (A1)	21-Apr-10	14:52:40	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A			1	2,7,		LR	58.1	
54-203 (A1)	21-Apr-10	14:54:52	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,				58.1
54-203 (A1)	21-Apr-10	14:57:15	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,				58.1
54-203 (A1)	21-Apr-10	14:57:55	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,				58.1
54-203 (A1)	21-Apr-10	14:59:07	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,		1	moved to spillway; no change in gen	58.1
54-203 (A1)	21-Apr-10	15:02:26	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		down	1	2,7,		LR	58.1	
54-203 (A1)	21-Apr-10	15:15:27	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A			1	2,7,		LR	58.1	
54-203 (A1)	21-Apr-10	15:18:35	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,				58.1
54-203 (A1)	21-Apr-10	15:22:53	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,				58.1
54-203 (A1)	21-Apr-10	15:23:00	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,		1	moved to spillway; no change in gen	58.1
54-203 (A1)	21-Apr-10	15:23:56	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		down	1	2,7,		LR	58.1	
54-203 (A1)	21-Apr-10	15:30:40	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A			1	2,7,		LR	58.1	
54-203 (A1)	21-Apr-10	15:30:47	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,				58.1
54-203 (A1)	21-Apr-10	15:41:22	Conowingo East Spillway Corner (Near-Field)		D	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		spillway	1	2,7,		1	moved to spillway; no change in gen	58.1
54-203 (A1)	21-Apr-10	15:43:26	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A		down	1	2,7,		LR	58.1	
	21-Apr-10	16:30:00			D/E	11730	0	5190	0	0	0	0	6540	0	0	0	0	0	None	A			1	2,7,		LR	58.1	
54-203 (A1)	21-Apr-10	17:06:49	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C	up	stay		7	1,2,3,4,5,6,7,8,9,11		LR	58.1	
54-203 (A1)	21-Apr-10	17:06:53	Conowingo East Spillway Corner (Near-Field)		D	67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C		spillway	7	1,2,3,4,5,6,7,8,9,11				58.1	
54-203 (A1)	21-Apr-10	17:12:29	Conowingo East Spillway Corner (Near-Field)		D	67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C		spillway	7	1,2,3,4,5,6,7,8,9,11				58.1	
	21-Apr-10	17:30:00			D/E	67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C									

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
	22-Apr-10	20:30:00			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				6	2,3,4,5,6,7,8,9,11	LR		58.1
	22-Apr-10	21:30:00				59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				6	2,3,4,5,6,7,8,9,11	LR		58.1
	22-Apr-10	22:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay	1	5,7,	LR		58.1	
	22-Apr-10	23:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A			1	5,7,	LR		58.1	
	23-Apr-10	0:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		58.1	
	23-Apr-10	1:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
	23-Apr-10	2:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
	23-Apr-10	3:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
	23-Apr-10	4:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
	23-Apr-10	5:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
54-203 (A1)	23-Apr-10	6:09:36	Rowland Island West (Near-Field)	Transition from Lower Tailrace to Spillway	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
54-203 (A1)	23-Apr-10	6:13:28	Conowingo East Spillway Corner (Near-Field)		D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A		spillway	1	5,7,			59.7	
54-203 (A1)	23-Apr-10	6:13:35	Conowingo East Spillway Corner (Near-Field)		D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A		spillway	1	5,7,			59.7	
54-203 (A1)	23-Apr-10	6:13:55	Conowingo East Spillway Corner (Near-Field)		D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A		spillway	1	5,7,	1	moved to spillway; no change in gen	59.7	
54-203 (A1)	23-Apr-10	6:18:18	Rowland Island West (Near-Field)	Transition from Spillway to Lower Tailrace	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A		down	1	5,7,	LR		59.7	
	23-Apr-10	6:30:00			D/E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
	23-Apr-10	7:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C	up	stay	4	4,5,6,7,8,9,	LR		59.7
	23-Apr-10	8:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
	23-Apr-10	9:30:00			D/E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
	23-Apr-10	10:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
	23-Apr-10	11:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
	23-Apr-10	12:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
	23-Apr-10	13:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay	1	5,7,	LR		59.7	
	23-Apr-10	14:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
	23-Apr-10	15:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
	23-Apr-10	16:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
	23-Apr-10	17:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C	up	stay	4	4,5,6,7,8,9,	LR		59.7
	23-Apr-10	18:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
54-203 (A1)	23-Apr-10	18:56:50	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
54-203 (A1)	23-Apr-10	21:00:26	Spencer Island West (Near-Field)	Start Lower River		40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
54-203 (A1)	26-Apr-10	21:27:47	Spencer Island East (Near-Field)	End Lower River		40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			4	4,5,6,7,8,9,	LR		60.6
54-203 (A1)	27-Apr-10	3:34:29	Rowland Island East (Near-Field)	Start Tailrace Detection 2	F	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A	down	spillway	1	5,7,	LR		60.6	
54-203 (A1)	27-Apr-10	3:37:57	Rowland Island East (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		down	1	5,7,	LR		60.6	
	27-Apr-10	4:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A			1	5,7,	LR		60.6	
54-203 (A1)	27-Apr-10	5:25:39	Conowingo Tailrace Unit 9 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	C	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		up	1	5,7,			60.6	
	27-Apr-10	5:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A			1	5,7,			60.6	
54-203 (A1)	27-Apr-10	6:01:48	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A			1	5,7,	2	moved in 2 zones; no change in gen	60.6	
54-203 (A1)	27-Apr-10	6:30:21	Rowland Island East (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	F	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		spillway	1	5,7,	LR		60.6	
	27-Apr-10	7:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		down	1	5,7,	LR		60.6	
	27-Apr-10	8:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A			1	5,7,	LR		60.6	
	27-Apr-10	9:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	stay	2	4,5,6,7,	LR		60.6	
	27-Apr-10	10:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A			2	4,5,6,7,	LR		60.6	
	27-Apr-10	11:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A			2	4,5,6,7,	LR		60.6	
	27-Apr-10	12:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A			2	4,5,6,7,	LR		60.6	
	27-Apr-10	13:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A	down	stay	1	5,6,	LR		60.6	
	27-Apr-10	14:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A			1	5,6,	LR		60.6	
54-203 (A1)	27-Apr-10	15:27:43	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A			1	5,6,	LR		60.6	
	27-Apr-10	15:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A			1	5,6,	LR		60.6	
54-203 (A1)	27-Apr-10	15:52:44	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A		up	1	5,6,			60.6	
54-203 (A1)	27-Apr-10	16:21:11	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	A	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A			1	5,6,			60.6	
	27-Apr-10	16:30:00			A/B	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay	6	2,3,4,5,6,7,8,9,11	2	moved in 2 zones; no change in gen	60.6	
54-203 (A1)	27-Apr-10	16:32:31	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		down	6	2,3,4,5,6,7,8,9,11	LR		60.6	
54-203 (A1)	27-Apr-10	16:59:51	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C			6					



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)		
54-203 (A1)	28-Apr-10	12:52:21	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C		up		4	4,5,6,7,8,9,			58.7	
	28-Apr-10	13:30:00			A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7	
	28-Apr-10	14:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7	
	28-Apr-10	15:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7	
	28-Apr-10	16:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7	
	28-Apr-10	17:30:00			A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7	
	28-Apr-10	18:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7	
	28-Apr-10	19:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7	
	28-Apr-10	20:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7	
	28-Apr-10	21:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7	
	28-Apr-10	22:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7	
	28-Apr-10	23:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9,			58.7	
	29-Apr-30	0:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A	down	stay		2	3,5,6,7,			56.8	
	29-Apr-30	1:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				2	3,5,6,7,			56.8	
	29-Apr-30	2:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				2	3,5,6,7,			56.8	
	29-Apr-30	3:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		1	5,7,			56.8	
	29-Apr-30	4:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7,			56.8	
	29-Apr-30	5:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7,			56.8	
	29-Apr-30	6:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7,			56.8	
	29-Apr-30	7:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7,			56.8	
	29-Apr-30	8:30:00			A/B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7,			56.8	
	29-Apr-30	9:30:00			B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7,			56.8	
	29-Apr-30	10:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7,			56.8	
	29-Apr-30	11:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7,			56.8	
	29-Apr-30	12:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7,			56.8	
	29-Apr-30	13:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-30	14:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-30	15:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-30	16:30:00			A	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-30	17:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-30	18:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-30	19:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-30	20:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-30	21:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-30	22:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				6	1,2,3,4,5,6,7,8,9,10,			56.8
	29-Apr-30	23:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		1	5,7,			56.8	
	30-Apr-10	0:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,			57.1	
	30-Apr-10	1:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,			57.1	
	30-Apr-10	2:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,			57.1	
	30-Apr-10	3:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,			57.1	
	30-Apr-10	4:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,			57.1	
	30-Apr-10	5:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7,			57.1	
	30-Apr-10	6:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	7:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	8:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	9:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	10:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	11:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1	
	30-Apr-10	12:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	13:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	14:30:00			A	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
	30-Apr-10	15:30:00			A/B	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1	
54-203 (A1)	30-Apr																											

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
	02-May-10	10:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C	up	spillway	3	2,5,6,7,8,9,	LR		62.5
	02-May-10	11:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C		spillway	3	2,5,6,7,8,9,	LR		62.5
	02-May-10	12:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C		spillway		2,5,6,7,8,9,	LR		62.5
	02-May-10	13:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C		spillway		2,5,6,7,8,9,	LR		62.5
	02-May-10	14:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C	up	spillway		2,3,4,5,6,7,8,9,10,11	LR		62.5
	02-May-10					6430	0	4440	0	0	0	0	1990	0	0	0	0	None	A	down	spillway		2,7,	LR		62.5
54-203 (A1)	02-May-10	NA	NA	Start Upper Tailrace Detection (Start UT Foray 5)														None	A		spillway			LR		62.5
54-203 (A1)	02-May-10	16:23:08	"C" Gate Aerial	Start EFL Aerial Detection		64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C	up	spillway		2,3,4,5,6,7,8,9,10,11	LR		62.5
54-203 (A1)	02-May-10	16:23:15	"C" Gate Aerial	End EFL Aerial Detection		64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C		spillway		2,3,4,5,6,7,8,9,10,11	LR		62.5
54-203 (A1)	02-May-10	NA	NA	End Upper Tailrace Detection (End UT Foray 5)														None	A		spillway			LR		62.5
	02-May-10	16:30			C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C		up		2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	17:30				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	18:30				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				2,3,4,5,6,7,8,9,10,11			62.5
	02-May-10	19:30				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				2,3,4,5,6,7,8,9,10,11	1	moved into zone C and back out; no change in gen	62.5
54-203 (A1)	02-May-10	19:40:07	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C		down		2,3,4,5,6,7,8,9,10,11	LR		62.5
	02-May-10	20:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				2,3,4,5,6,7,8,9,10,11	LR		62.5
	02-May-10	21:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				2,3,4,5,6,7,8,9,10,11	LR		62.5
	02-May-10	22:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				2,3,4,5,6,7,8,9,10,11	LR		62.5
	02-May-10	23:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				2,3,4,5,6,7,8,9,10,11	LR		62.5
	03-May-10	0:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay		2,5,	LR		65.5
	03-May-10	1:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				2,5,	LR		65.5
	03-May-10	2:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				2,5,	LR		65.5
	03-May-10	3:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				2,5,	LR		65.5
	03-May-10	4:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				2,5,	LR		65.5
	03-May-10	5:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				2,5,	LR		65.5
	03-May-10	6:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				2,5,	LR		65.5
	03-May-10	7:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				2,5,	LR		65.5
	03-May-10	8:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				2,5,	LR		65.5
	03-May-10	9:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				2,5,	LR		65.5
	03-May-10	10:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				2,5,	LR		65.5
	03-May-10	11:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				2,5,	LR		65.5
	03-May-10	12:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up	stay		1,2,3,4,5,6,7,8,9,11	LR		65.5
	03-May-10	13:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				1,2,3,4,5,6,7,8,9,11	LR		65.5
	03-May-10	14:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				1,2,3,4,5,6,7,8,9,11	LR		65.5
	03-May-10	15:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				1,2,3,4,5,6,7,8,9,11	LR		65.5
	03-May-10	16:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				1,2,3,4,5,6,7,8,9,11	LR		65.5
	03-May-10	17:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				1,2,3,4,5,6,7,8,9,11	LR		65.5
	03-May-10	18:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				1,2,3,4,5,6,7,8,9,11	LR		65.5
	03-May-10	19:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C	up	stay		1,2,3,4,5,6,7,8,9,10,11	LR		65.5
	03-May-10	20:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				1,2,3,4,5,6,7,8,9,10,11	LR		65.5
	03-May-10	21:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				1,2,3,4,5,6,7,8,9,10,11	LR		65.5
	03-May-10	22:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				1,2,3,4,5,6,7,8,9,10,11	LR		65.5
	03-May-10	23:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				1,2,3,4,5,6,7,8,9,10,11	LR		65.5
	04-May-10	0:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				1,2,3,4,5,6,7,8,9,10,11	LR		68.1
	04-May-10	1:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				1,2,3,4,5,6,7,8,9,10,11	LR		68.1
	04-May-10	2:30:00				34030	0	4770	6120	5920	4820	6150	6250	0	0	0	0	None	A	down	stay		2,3,4,5,6,7,	LR		68.1
	04-May-10	3:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		2,5,	LR		68.1
	04-May-10	4:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				2,5,	LR		68.1
	04-May-10	5:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				2,5,	LR		68.1
	04-May-10	6:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				2,5,	LR		68.1
	04-May-10	7:30:00			E	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				2,5,	LR		68.1
	04-May-10	8:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A	up	stay		2,5,6,7,	LR		68.1
54-203 (A1)	04-May-10	9:10:58	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	21990	0	4770	0																	



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-204 (A1)	20-Apr-10	14:20:00	Conowingo Tailrace	Release - Between Units 5 & 7		10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				1 5,7,			58.4
54-204 (A1)	20-Apr-10	15:57:42	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				1 5,7,		LR	58.4
	20-Apr-10	16:30:00				10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				1 5,7,		LR	58.4
	20-Apr-10	17:30:00			E	31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C	up	stay		3 4,5,6,7,8,		LR	58.4
	20-Apr-10	18:30:00				31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C				3 4,5,6,7,8,		LR	58.4
	20-Apr-10	19:30:00				31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C				3 4,5,6,7,8,		LR	58.4
	20-Apr-10	20:30:00				31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C				3 4,5,6,7,8,		LR	58.4
	20-Apr-10	21:30:00				31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C				3 4,5,6,7,8,		LR	58.4
	20-Apr-10	22:30:00				10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A	down	stay		1 5,7,		LR	58.4
	20-Apr-10	23:30:00				10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				1 5,7,		LR	58.4
	21-Apr-10	0:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A	up	stay		1 5,7,		LR	58.1
	21-Apr-10	1:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1 5,7,		LR	58.1
	21-Apr-10	2:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1 5,7,		LR	58.1
	21-Apr-10	3:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1 5,7,		LR	58.1
	21-Apr-10	4:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1 5,7,		LR	58.1
	21-Apr-10	5:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1 5,7,		LR	58.1
	21-Apr-10	6:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1 5,7,		LR	58.1
	21-Apr-10	7:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1 5,7,		LR	58.1
	21-Apr-10	8:30:00				32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	None	C				3 2,5,6,7,8,		LR	58.1
	21-Apr-10	9:30:00				32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	None	C	up	stay		3 2,5,6,7,8,		LR	58.1
	21-Apr-10	10:30:00				32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	None	C				3 2,5,6,7,8,		LR	58.1
	21-Apr-10	11:30:00				32270	0	5190	0	0	5580	6290	6540	8670	0	0	0	None	C				3 2,5,6,7,8,		LR	58.1
	21-Apr-10	12:30:00				11730	0	5190	0	0	0	0	6540	0	0	0	0	None	A	down	stay		1 2,7,		LR	58.1
	21-Apr-10	13:30:00				11730	0	5190	0	0	0	0	6540	0	0	0	0	None	A				1 2,7,		LR	58.1
	21-Apr-10	14:30:00				11730	0	5190	0	0	0	0	6540	0	0	0	0	None	A				1 2,7,		LR	58.1
	21-Apr-10	15:30:00				11730	0	5190	0	0	0	0	6540	0	0	0	0	None	A				1 2,7,		LR	58.1
	21-Apr-10	16:30:00				11730	0	5190	0	0	0	0	6540	0	0	0	0	None	A				1 2,7,		LR	58.1
	21-Apr-10	17:30:00				67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C	up	stay		7 1,2,3,4,5,6,7,8,9,11		LR	58.1
	21-Apr-10	18:30:00				67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C				7 1,2,3,4,5,6,7,8,9,11		LR	58.1
	21-Apr-10	19:30:00				67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C				7 1,2,3,4,5,6,7,8,9,11		LR	58.1
	21-Apr-10	20:30:00				67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C				7 1,2,3,4,5,6,7,8,9,11		LR	58.1
	21-Apr-10	21:30:00				67320	5280	5190	6410	6080	5580	6290	6540	8670	8700	0	8580	None	C				7 1,2,3,4,5,6,7,8,9,11		LR	58.1
	21-Apr-10	22:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A	down	stay		1 5,7,		LR	58.1
	21-Apr-10	23:30:00				12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1 5,7,		LR	58.1
	22-Apr-10	0:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,		LR	58.1
	22-Apr-10	1:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,		LR	58.1
	22-Apr-10	2:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,		LR	58.1
	22-Apr-10	3:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,		LR	58.1
	22-Apr-10	4:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,		LR	58.1
	22-Apr-10	5:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,		LR	58.1
	22-Apr-10	6:30:00				23530	0	0	0	5910	5200	6060	6360	0	0	0	0	None	A	up	stay		2 4,5,6,7,		LR	58.1
	22-Apr-10	7:30:00				23530	0	0	0	5910	5200	6060	6360	0	0	0	0	None	A				2 4,5,6,7,		LR	58.1
	22-Apr-10	8:30:00				23530	0	0	0	5910	5200	6060	6360	0	0	0	0	None	A				2 4,5,6,7,		LR	58.1
	22-Apr-10	9:30:00				23530	0	0	0	5910	5200	6060	6360	0	0	0	0	None	A				2 4,5,6,7,		LR	58.1
	22-Apr-10	10:30:00				40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C	up	stay		4 4,5,6,7,8,9,		LR	58.1
	22-Apr-10	11:30:00				40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C				4 4,5,6,7,8,9,		LR	58.1
	22-Apr-10	12:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		1 5,7,		LR	58.1
	22-Apr-10	13:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,		LR	58.1
54-204 (A1)	22-Apr-10	14:29:24	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,		LR	58.1
	22-Apr-10	14:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,		LR	58.1
54-204 (A1)	22-Apr-10	14:58:25	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		up		1 5,7,			58.1
	22-Apr-10	15:30:00			B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,			58.1
54-204 (A1)	22-Apr-10	16:18:15	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,			58.1
	22-Apr-10	16:30:00			A/B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				1 5,7,	2 moved up briefly and back out; no change in gen		58.1
54-204 (A1)	22-Apr-10	16:43:22	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		down		1 5,7,		LR	58.1
	22-Apr-10	17:30:00																								



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-204 (A1)	23-Apr-10	13:03:28	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay	1	5,7,	1	moved to zone B briefly and back out when gen went down to 11K	59.7	
54-204 (A1)	23-Apr-10	13:14:38	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
	23-Apr-10	13:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
54-204 (A1)	23-Apr-10	14:26:52	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
	23-Apr-10	14:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
54-204 (A1)	23-Apr-10	15:11:56	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A		up	1	5,7,			59.7	
	23-Apr-10	15:30:00			A/B	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,			59.7	
	23-Apr-10	16:30:00			C/D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,			59.7	
	23-Apr-10	17:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C	up	stay	4	4,5,6,7,8,9,			59.7
54-204 (A1)	23-Apr-10	18:21:24	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	4	moved through all zones and out when gen went up to 40K	59.7
	23-Apr-10	18:30:00			B/E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
54-204 (A1)	23-Apr-10	18:43:50	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C		down	4	4,5,6,7,8,9,	LR		59.7
	23-Apr-10	19:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
	23-Apr-10	20:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
	23-Apr-10	21:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	0	None	C			4	4,5,6,7,8,9,	LR		59.7
	23-Apr-10	22:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay	1	5,7,	LR		59.7	
	23-Apr-10	23:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A			1	5,7,	LR		59.7	
	24-Apr-10	0:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	1:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	2:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	3:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	4:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	5:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	6:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	7:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	8:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	9:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
54-204 (A1)	24-Apr-10	9:33:27	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
54-204 (A1)	24-Apr-10	9:46:23	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		up	1	5,7,			60.6	
	24-Apr-10	10:30:00			A/B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6	
	24-Apr-10	11:30:00			A/B/C	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6	
	24-Apr-10	12:30:00			A/B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6	
	24-Apr-10	13:30:00			A/B/C	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6	
54-204 (A1)	24-Apr-10	14:07:16	Conowingo Tailrace Units 1-7 Master	End Upper Tailrace Detection (End UT Foray 4)	A/B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,			60.6	
	24-Apr-10	14:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	3	moved through 3 zones; no change in gen	60.6	
54-204 (A1)	24-Apr-10	14:34:15	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		down	1	5,7,	LR		60.6	
	24-Apr-10	15:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	16:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	17:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	18:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	24-Apr-10	19:30:00			E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A	up	stay	2	4,5,6,7,	LR		60.6	
	24-Apr-10	20:30:00			E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A			2	4,5,6,7,	LR		60.6	
	24-Apr-10	21:30:00			E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A			2	4,5,6,7,	LR		60.6	
	24-Apr-10	22:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A	down	stay	1	5,7,	LR		60.6	
	24-Apr-10	23:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A			1	5,7,	LR		60.6	
	25-Apr-10	0:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A			1	5,7,	LR		61	
	25-Apr-10	1:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A			1	5,7,	LR		61	
	25-Apr-10	2:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A			1	5,7,	LR		61	
	25-Apr-10	3:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A			1	5,7,	LR		61	
	25-Apr-10	4:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A			1	5,7,	LR		61	
	25-Apr-10	5:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A			1	5,7,	LR		61	
	25-Apr-10	6:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A			1	5,7,	LR		61	
	25-Apr-10	7:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A			1	5,7,	LR		61	
	25-Apr-10	8:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A			1	5,7,	LR		61	
	25-Apr-10	9:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A			1	5,7,	LR		61	
	25-Apr-10	10:30:00			E	11250</																					



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-204 (A1)	26-Apr-10	8:12:23	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9	LR		60.9
	26-Apr-10	8:30:00			B/E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9	LR		60.9
54-204 (A1)	26-Apr-10	8:33:42	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		up		4	4,5,6,7,8,9			60.9
	26-Apr-10	9:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9			60.9
	26-Apr-10	10:30:00			B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9			60.9
	26-Apr-10	11:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9			60.9
	26-Apr-10	12:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9			60.9
	26-Apr-10	13:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9			60.9
	26-Apr-10	14:30:00			B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9			60.9
54-204 (A1)	26-Apr-10	15:11:36	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9			60.9
	26-Apr-10	15:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9	3 moved through 3 zones; no change in gen		60.9
54-204 (A1)	26-Apr-10	16:21:16	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		down		4	4,5,6,7,8,9	LR		60.9
	26-Apr-10	16:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9	LR		60.9
	26-Apr-10	17:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9	LR		60.9
54-204 (A1)	26-Apr-10	18:28:02	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9	LR		60.9
	26-Apr-10	18:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9	LR		60.9
54-204 (A1)	26-Apr-10	18:37:18	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	A	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		up		4	4,5,6,7,8,9			60.9
54-204 (A1)	26-Apr-10	19:30:04	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9			60.9
	26-Apr-10	20:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9			60.9
	26-Apr-10	21:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				4	4,5,6,7,8,9			60.9
	26-Apr-10	22:30:00				11300	0	0	0	5240	0	6060	0	0	0	0	0	None	A	down	stay	1	5,7	2 moved through 2 zones and out when gen went to 11K		60.9	
54-204 (A1)	26-Apr-10	22:37:27	Rowland Island East (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	11300	0	0	0	5240	0	6060	0	0	0	0	0	None	A		down		1	5,7	LR		60.9
54-204 (A1)	26-Apr-10	22:41:54	Rowland Island East (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	11300	0	0	0	5240	0	6060	0	0	0	0	0	None	A				1	5,7	LR		60.9
54-204 (A1)	26-Apr-10	23:18:50	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	11300	0	0	0	5240	0	6060	0	0	0	0	0	None	A		up		1	5,7			60.9
	26-Apr-10	23:30:00				11300	0	0	0	5240	0	6060	0	0	0	0	0	None	A			1	5,7			60.9	
	27-Apr-10	0:30:00			B	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A			1	5,7			60.6	
	27-Apr-10	1:30:00			B	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A			1	5,7			60.6	
	27-Apr-10	2:30:00			B	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A			1	5,7			60.6	
	27-Apr-10	3:30:00			B	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A			1	5,7			60.6	
	27-Apr-10	4:30:00			A/B	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A			1	5,7			60.6	
	27-Apr-10	5:30:00			B	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A			1	5,7			60.6	
	27-Apr-10	6:30:00			B	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A			1	5,7			60.6	
	27-Apr-10	7:30:00			A/B/C	11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A			1	5,7			60.6	
	27-Apr-10	8:30:00				11220	0	0	0	5180	0	6040	0	0	0	0	0	None	A			1	5,7			60.6	
	27-Apr-10	9:30:00			A/B	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	stay	2	4,5,6,7			60.6	
	27-Apr-10	10:30:00			A/B	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A			2	4,5,6,7			60.6	
	27-Apr-10	11:30:00			A/B	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A			2	4,5,6,7			60.6	
54-204 (A1)	27-Apr-10	11:38:32	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	A	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A			2	4,5,6,7	3 moved through 3 zones and out when gen went to 23K		60.6	
54-204 (A1)	27-Apr-10	11:49:46	Rowland Island West (Near-Field)	Transition Downstream 7 (Upper Tailrace to Tailrace)	E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A		down		2	4,5,6,7	LR		60.6
	27-Apr-10	12:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A			2	4,5,6,7	LR		60.6	
	27-Apr-10	13:30:00			E	11150	0	0	0	5180	5970	0	0	0	0	0	0	None	A	down	stay	1	5,6	LR		60.6	
	27-Apr-10	14:30:00			E	11150	0	0	0	5180	5970	0	0	0	0	0	0	None	A			1	5,6	LR		60.6	
	27-Apr-10	15:30:00			E	11150	0	0	0	5180	5970	0	0	0	0	0	0	None	A			1	5,6	LR		60.6	
	27-Apr-10	16:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay	6	2,3,4,5,6,7,8,9,11	LR		60.6	
54-204 (A1)	27-Apr-10	17:19:06	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11	LR		60.6
	27-Apr-10	17:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11	LR		60.6
54-204 (A1)	27-Apr-10	18:03:11	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	A	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		up		6	2,3,4,5,6,7,8,9,11			60.6
54-204 (A1)	27-Apr-10	18:29:54	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	A	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11			60.6
	27-Apr-10	18:30:00			A/B	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11	2 moved up briefly and back out; no change in gen		60.6
54-204 (A1)	27-Apr-10	19:16:42	Rowland Island East (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		down		6	2,3,4,5,6,7,8,9,11	LR		60.6
	27-Apr-10	19:30:00			E/F	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				6	2,3,4,5,6,7,8,9,11	LR		60.6

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
	28-Apr-10	20:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9			58.7
	28-Apr-10	21:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9			58.7
	28-Apr-10	22:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9			58.7
	28-Apr-10	23:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9			58.7
	29-Apr-10	0:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A	down	stay		2	3,5,6,7			56.8
	29-Apr-10	1:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				2	3,5,6,7			56.8
	29-Apr-10	2:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				2	3,5,6,7			56.8
	29-Apr-10	3:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		1	5,7			56.8
	29-Apr-10	4:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7			56.8
	29-Apr-10	5:30:00			B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7			56.8
	29-Apr-10	6:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7			56.8
	29-Apr-10	7:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7			56.8
	29-Apr-10	8:30:00			A/B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7			56.8
	29-Apr-10	9:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7			56.8
	29-Apr-10	10:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7			56.8
	29-Apr-10	11:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7			56.8
	29-Apr-10	12:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				1	5,7			56.8
	29-Apr-10	13:30:00			A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C	up	stay	6	1,2,3,4,5,6,7,8,9,10			56.8
	29-Apr-10	14:30:00			A	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C			6	1,2,3,4,5,6,7,8,9,10			56.8
	29-Apr-10	15:30:00			B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C			6	1,2,3,4,5,6,7,8,9,10			56.8
	29-Apr-10	16:30:00			A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C			6	1,2,3,4,5,6,7,8,9,10			56.8
	29-Apr-10	17:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C			6	1,2,3,4,5,6,7,8,9,10			56.8
	29-Apr-10	18:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C			6	1,2,3,4,5,6,7,8,9,10			56.8
	29-Apr-10	19:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C			6	1,2,3,4,5,6,7,8,9,10			56.8
	29-Apr-10	20:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C			6	1,2,3,4,5,6,7,8,9,10			56.8
	29-Apr-10	21:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C			6	1,2,3,4,5,6,7,8,9,10			56.8
	29-Apr-10	22:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C			6	1,2,3,4,5,6,7,8,9,10			56.8
	29-Apr-10	23:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		1	5,7			56.8
	30-Apr-10	0:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7			57.1
	30-Apr-10	1:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7			57.1
	30-Apr-10	2:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7			57.1
	30-Apr-10	3:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7			57.1
	30-Apr-10	4:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7			57.1
	30-Apr-10	5:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				1	5,7			57.1
	30-Apr-10	6:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		5	4,5,6,7,8,9,11			57.1
	30-Apr-10	7:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1
	30-Apr-10	8:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1
	30-Apr-10	9:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1
	30-Apr-10	10:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1
	30-Apr-10	11:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				5	4,5,6,7,8,9,11			57.1
	30-Apr-10	12:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	13:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	14:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11			57.1
	30-Apr-10	15:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				6	1,2,3,4,5,6,7,8,9,11	2 moved in zones A and B through a variety of flows; moved out when gen went to 65K		57.1
54-204 (A1)	30-Apr-10	16:02:55	Conwingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 9)	F	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C		spillway		6	1,2,3,4,5,6,7,8,9,11	LR		57.1
	30-Apr-10	16:30:00			B	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C		up		6	1,2,3,4,5,6,7,8,9,11	1 moved up briefly and back out; no change in gen		57.1
54-204 (A1)	30-Apr-10	16:33:41	Rowland Island East (Near-Field)	Transition Downstream 9 (Upper Tailrace to Tailrace)	F	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C		spillway		6	1,2,3,4,5,6,7,8,9,11	LR		57.1
54-204 (A1)	30-Apr-10	16:33:41	Rowland Island East (Near-Field)	End Tailrace Detection 1	F	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C		spillway		6	1,2,3,4,5,6,7,8,9,11	LR		57.1
	30-Apr-10	17:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C		spillway		6	1,2,3,4,5,6,7,8,9,11	LR		57.1
	30-Apr-10	18:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C		spillway		6	1,2,3,4,5,6,7,8,9,11	LR		57.1
	30-Apr-10	19:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C		spillway		6	1,2,3,4,5,6,7,8,9,11	LR		57.1
	30-Apr-10	20:30:00</																									

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-207 (A1)	20-Apr-10	14:41:00	Conowingo Tailrace	Downstream Units 5 & 7		10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				1 5,7,			58.4
54-207 (A1)	21-Apr-10	1:18:06	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A	up	stay		1 5,7,		LR	58.1
54-207 (A1)	21-Apr-10	1:28:26	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1 5,7,		LR	58.1
54-207 (A1)	21-Apr-10	4:17:42	Spencer Island West (Near-Field)	Start Lower River		12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A				1 5,7,		LR	58.1
54-207 (A1)	03-May-10	7:46:48	Lapidum (West Shore) (Near-Field)	End Lower River		8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay		1 2,5,		LR	65.5
54-207 (A1)	03-May-10	10:35:00	Upstream of Steel Island	Transition Upstream between Lower River & Tailrace		8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				1 2,5,		LR	65.5
54-207 (A1)	04-May-10	7:04:15	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				1 2,5,		LR	68.1
	04-May-10	7:30:00			E	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	up	stay		1 2,5,		LR	68.1
	04-May-10	8:30:00			E	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A	up	stay		2 2,5,6,7,		LR	68.1
	04-May-10	9:30:00			E	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2 2,5,6,7,		LR	68.1
	04-May-10	10:30:00			E	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2 2,5,6,7,		LR	68.1
54-207 (A1)	04-May-10	11:02:07	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2 2,5,6,7,		LR	68.1
	04-May-10	11:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				2 2,5,6,7,		LR	68.1
	04-May-10	12:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay		7 2,3,4,5,6,7,8,9,10,11		LR	68.1
54-207 (A1)	04-May-10	12:37:08	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		up		7 2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	13:30:00			A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7 2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	14:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7 2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	15:30:00			B/C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7 2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	16:30:00			A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7 2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	17:30:00			A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7 2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	18:30:00			B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7 2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	19:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7 2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	20:30:00			A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7 2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	21:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7 2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	22:30:00			B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7 2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	23:30:00			B	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		1 2,5,			68.1
	05-May-10	0:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
	05-May-10	1:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
	05-May-10	2:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
	05-May-10	3:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
	05-May-10	4:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
54-207 (A1)	05-May-10	5:25:47	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
	05-May-10	5:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,	3 moved between 3 zones and moved out at min gen		69.2
54-207 (A1)	05-May-10	5:47:09	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,		LR	69.2
54-207 (A1)	05-May-10	6:02:49	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,		LR	69.2
	05-May-10	6:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,		LR	69.2
54-207 (A1)	05-May-10	7:02:20	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
	05-May-10	7:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
54-207 (A1)	05-May-10	7:50:14	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
	05-May-10	8:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,	3 moved in 3 zones briefly; no change in gen		69.2
54-207 (A1)	05-May-10	9:15:46	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,		LR	69.2
54-207 (A1)	05-May-10	9:25:09	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,		LR	69.2
	05-May-10	9:30:00			B/E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,		LR	69.2
54-207 (A1)	05-May-10	9:35:28	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
	05-May-10	10:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
54-207 (A1)	05-May-10	10:46:47	"A" Gate Aerial	Start EFL Aerial Detection	C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
54-207 (A1)	05-May-10	10:50:18	"A" Gate Aerial	End EFL Aerial Detection	C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
54-207 (A1)	05-May-10	11:09:17	"C" Gate Aerial	Start EFL Aerial Detection	C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1 2,5,			69.2
54-207 (A1)	05-May-10	11:11:22	"C" Gate Aerial	End EFL Aerial Detection	C	37880	5280	4470	5990	5850	4640	5680	5970	0	0	0	0	0	None	A	up	stay		4 1,2,3,4,5,6,7,		69.2
	05-May-10	11:30:00			B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay		6 1,2,3,4,5,6,7,8,9,11			69.2
54-207 (A1)	05-May-10	12:28:53	"C" Gate Aerial	Start EFL Aerial Detection	C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6 1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	12:30:00			C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6 1,2,3,4,5,6,7			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
	06-May-10	19:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11		LR	69.5
54-207 (A1)	06-May-10	19:44:33	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C		up	7	2,3,4,5,6,7,8,9,10,11			69.5
54-207 (A1)	06-May-10	20:24:48	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	20:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11	2	moved in briefly and back out; no change in gen	69.5
54-207 (A1)	06-May-10	20:52:44	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C		down	7	2,3,4,5,6,7,8,9,10,11		LR	69.5
	06-May-10	21:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11		LR	69.5
54-207 (A1)	06-May-10	21:32:47	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C			7	2,3,4,5,6,7,8,9,10,11		LR	69.5
54-207 (A1)	06-May-10	22:15:24	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	up	1	3,5,			69.5
	06-May-10	22:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	06-May-10	23:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A			1	3,5,			69.5
	07-May-10	0:30:00			A/B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	up	stay	2	2,4,5,7,			69.4
	07-May-10	1:30:00			A/B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	2:30:00			A/B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	3:30:00			B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	4:30:00			A/B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	5:30:00			A/B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	6:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	7:30:00			A/B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A			2	2,4,5,7,			69.4
	07-May-10	8:30:00			A/B	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C	up	stay	4	2,4,5,6,7,8,			69.4
	07-May-10	9:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
	07-May-10	10:30:00			A/B	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
	07-May-10	11:30:00				37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C			4	2,4,5,6,7,8,			69.4
	07-May-10	12:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay	6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	13:30:00			A/B	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay	5	2,4,5,6,7,8,9,11			69.4
	07-May-10	14:30:00			B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay	6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	15:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	16:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
54-207 (A1)	07-May-10	16:35:02	"C" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
54-207 (A1)	07-May-10	16:42:31	"A" Gate Entrance Dropper	Start EFL	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
54-207 (A1)	07-May-10	16:52:57	"A" Gate Crowder Dropper	Last EFL Detection before being lifted	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
	07-May-10	17:30:00			C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C			6	2,3,4,5,6,7,8,9,11			69.4
54-207 (A1)	07-May-10	17:58:48	Conwingo Fishway Exit Trough	Passage	D	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C		spillway	6	2,3,4,5,6,7,8,9,11	4	moved through all 4 zones and passed at 61K	69.4



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)	
54-208 (A1)	28-Apr-10	11:35:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				4	4,5,6,7,8,9			58.7
54-208 (A1)	04-May-10	13:21:41	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11	LR		68.1
54-208 (A1)	04-May-10	13:21:41	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	LR		68.1
	04-May-10	13:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	LR		68.1
54-208 (A1)	04-May-10	14:02:40	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		up		7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	14:30:00			A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	15:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	16:30:00			A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
	04-May-10	17:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11			68.1
54-208 (A1)	04-May-10	18:17:12	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	2	moved between zones A and B and then out; no change in gen	68.1
54-208 (A1)	04-May-10	18:25:19	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		down		7	2,3,4,5,6,7,8,9,10,11	LR		68.1
54-208 (A1)	04-May-10	18:25:19	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				7	2,3,4,5,6,7,8,9,10,11	LR		68.1
54-208 (A1)	05-May-10	0:41:22	Tomes Landing (East Shore) (Near-Field)	Start Lower River		9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A	down	stay		1	2,5	LR		69.2
54-208 (A1)	05-May-10	6:00:47	Lapidum (West Shore) (Near-Field)	End Lower River		9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5	LR		69.2
54-208 (A1)	05-May-10	NA	NA	Start Tailrace Detection 2		0												None	A						LR		69.2
54-208 (A1)	05-May-10	NA	NA	Transition Upstream 2 (Tailrace to Upper Tailrace)		0												None	A						LR		69.2
54-208 (A1)	05-May-10	19:49:51	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	up		6	1,2,3,4,5,6,7,8,9,11			69.2
	05-May-10	20:30:00			A	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11			69.2
54-208 (A1)	05-May-10	20:34:48	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	2	moved between zones A and B and then out; no change in gen	69.2
54-208 (A1)	05-May-10	20:45:50	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		down		6	1,2,3,4,5,6,7,8,9,11	LR		69.2
	05-May-10	21:30:00			E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	LR		69.2
	05-May-10	22:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	LR		69.2
	05-May-10	23:30:00			E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	LR		69.2
54-208 (A1)	05-May-10	23:34:09	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				6	1,2,3,4,5,6,7,8,9,11	LR		69.2
	06-May-10	0:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		1	3,5	LR		69.5
	05-May-10	1:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A	down	stay		1	2,5	LR		69.2
	05-May-10	2:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				1	2,5	LR		69.2
54-208 (A1)	06-May-10	4:05:02	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)		10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	up	stay		1	3,5	LR		69.5
	06-May-10	4:30:00			B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A		up		1	3,5			69.5
	06-May-10	5:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	6:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	7:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	8:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	9:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	10:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	11:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
	06-May-10	12:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5			69.5
54-208 (A1)	06-May-10	12:53:44	Conowingo Tailrace Units 1-7 Master	End Upper Tailrace Detection (End UT Foray 3)	A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5	2	moved between zones A and B and then out; no change in gen	69.5
54-208 (A1)	06-May-10	13:18:49	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A		down		1	3,5	LR		69.5
54-208 (A1)	06-May-10	13:20:39	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5	LR		69.5
	06-May-10	13:30:00			E	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				1	3,5	LR		69.5
54-208 (A1)	06-May-10	13:57:34	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A		up		1	3,5			69.5
	06-May-10	14:30:00				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay		6	2,3,4,5,6,7,8,9,11			69.5
	06-May-10	15:30:00			A/C	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C				6	2,3,4,5,6,7,8,9,11			69.5
	06-May-10	16:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	stay		7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	17:30:00			C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	18:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
	06-May-10	19:30:00			A/B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10,11			69.5
54-208 (A1)	06-May-10	20:21:45	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				7	2,3,4,5,6,7,8,9,10			



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)		
54-208 (A1)	07-May-10	16:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4	
54-208 (A1)	07-May-10	17:22:16	"C" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4	
54-208 (A1)	07-May-10	17:28:32	"C" Gate Aerial	End EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4	
	07-May-10	17:30:00			C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4	
	07-May-10	18:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4	
	07-May-10	19:30:00			C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4	
54-208 (A1)	07-May-10	19:35:44	"A" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4	
54-208 (A1)	07-May-10	19:38:16	"A" Gate Aerial	End EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11			69.4	
54-208 (A1)	07-May-10	19:49:36	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11	3 searched through 3 zones during a variety of flows; moved out at 61K		69.4	
54-208 (A1)	07-May-10	20:26:38	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C		down		6	2,3,4,5,6,7,8,9,11	LR		69.4	
	07-May-10	20:30:00			E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				6	2,3,4,5,6,7,8,9,11	LR		69.4	
	07-May-10	21:30:00			E	34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	0	None	A	down	stay	3	2,3,4,5,6,7,	LR		69.4	
	07-May-10	22:30:00			E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A	down	stay	2	2,4,5,7,	LR		69.4	
	07-May-10	23:30:00			E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A			2	2,4,5,7,	LR		69.4	
	08-May-10	0:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A	down	stay	1	2,5,	LR		69.2	
	08-May-10	1:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,	LR		69.2	
	08-May-10	2:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,	LR		69.2	
	08-May-10	3:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,	LR		69.2	
	08-May-10	4:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,	LR		69.2	
54-208 (A1)	08-May-10	5:16:42	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,	LR		69.2	
	08-May-10	5:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,	LR		69.2	
54-208 (A1)	08-May-10	5:55:25	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A		up	1	2,5,			69.2	
54-208 (A1)	08-May-10	6:03:24	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,	1 moved in briefly and out at min gen; no change in gen		69.2	
54-208 (A1)	08-May-10	6:09:56	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A		down	1	2,5,	LR		69.2	
	08-May-10	6:30:00			B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A		up	1	2,5,	1 moved in briefly and out at min gen; no change in gen		69.2	
54-208 (A1)	08-May-10	7:10:40	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A		down	1	2,5,	LR		69.2	
	08-May-10	7:30:00			B/E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,	LR		69.2	
54-208 (A1)	08-May-10	7:32:55	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A		up	1	2,5,			69.2	
	08-May-10	8:30:00			A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	9:30:00			A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,			69.2	
54-208 (A1)	08-May-10	9:32:42	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,			69.2	
54-208 (A1)	08-May-10	9:39:09	"A" Gate Aerial	End EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	10:30:00			B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A			1	2,5,			69.2	
	08-May-10	11:30:00			B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C	up	stay	4	2,5,6,7,8,9,			69.2
	08-May-10	12:30:00			A/B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	13:30:00			B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	14:30:00			A/B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	15:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9,			69.2
54-208 (A1)	08-May-10	15:50:42	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9,	3 moved through 3 zones under 2 flows		69.2
54-208 (A1)	08-May-10	16:10:58	Rowland Island West (Near-Field)	Transition Downstream 7 (Upper Tailrace to Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C		down	4	2,5,6,7,8,9,	LR		69.2
	08-May-10	16:30:00			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9,	LR		69.2
54-208 (A1)	08-May-10	16:48:09	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9,	LR		69.2
	08-May-10	17:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9,	LR		69.2
54-208 (A1)	08-May-10	17:40:20	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C		up	4	2,5,6,7,8,9,			69.2
54-208 (A1)	08-May-10	18:18:46	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9,			69.2
	08-May-10	18:30:00			C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C			4	2,5,6,7,8,9,	2 moved through 2 zones; no change in gen		69.2
54-208 (A1)	08-May-10	18:48:04	Rowland Island East (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	F	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C		spillway	4	2,5,6,7,8,9,	LR		69.2
54-208 (A1)	08-May-10	18:49:18	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	0	None	C		down	4	2,5,6,7,8,9,	LR		69.2
54-208 (A1)	09-May-10	2:23:55	Lapidum (West Shore) (Near-Field)	Start Lower River		8510	0	4030	0	0	4480	0	0	0	0	0	0	0	None	A	down		1	2,5,	LR		67.2	
54-208 (A1)																												

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)		
54-208 (A1)	10-May-10	7:10:49	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 11)	A	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C		up		3	2,5,6,7,8,			64.5	
	10-May-10	7:30:00			A/B	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				3	2,5,6,7,8,			64.5	
	10-May-10	8:30:00			B/C	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				3	2,5,6,7,8,			64.5	
	10-May-10	9:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				3	2,5,6,7,8,			64.5	
	10-May-10	10:30:00			B/C	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A	down	stay		2	2,5,6,7,			64.5	
	10-May-10	11:30:00			A/B/C	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				2	2,5,6,7,			64.5	
54-208 (A1)	10-May-10	12:14:48	"C" Gate Aerial	Start EFL Aerial Detection	C	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				2	2,5,6,7,			64.5	
54-208 (A1)	10-May-10	12:15:14	"C" Gate Aerial	End EFL Aerial Detection	C	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				2	2,5,6,7,			64.5	
	10-May-10	12:30:00			B/C	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				2	2,5,6,7,			64.5	
54-208 (A1)	10-May-10	13:05:41	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 11)	B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,	3	moved through 3 zones; moved out at min gen	64.5	
54-208 (A1)	10-May-10	13:17:06	Rowland Island West (Near-Field)	Transition Downstream 11 (Upper Tailrace to Tailrace)	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A		down		1	2,5,	LR		64.5	
54-208 (A1)	10-May-10	13:24:16	Rowland Island West (Near-Field)	Transition Upstream 12 (Tailrace to Upper Tailrace)	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		64.5	
	10-May-10	13:30:00			B/C/E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	13:49:00	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 12)	B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A		up		1	2,5,			64.5	
	10-May-10	14:30:00			A/B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	15:13:32	"A" Gate Aerial	Start EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	15:16:12	"A" Gate Entrance Dropper	Start EFL	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	15:16:26	"A" Gate Entrance Dropper	End EFL	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	15:23:20	"A" Gate Aerial	End EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
	10-May-10	15:30:00			C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
	10-May-10	16:30:00			A/B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	16:34:22	"A" Gate Aerial	Start EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	16:36:25	"A" Gate Entrance Dropper	Start EFL	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	16:39:47	"A" Gate Entrance Dropper	End EFL	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	16:40:07	"A" Gate Aerial	End EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
	10-May-10	17:30:00			B/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	17:44:32	"A" Gate Aerial	Start EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	17:53:06	"C" Gate Aerial	End EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			64.5	
54-208 (A1)	10-May-10	18:16:08	"C" Gate Aerial	Start EFL Aerial Detection	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C	up	stay		4	2,5,6,7,8,9,			64.5
54-208 (A1)	10-May-10	18:27:00	"C" Gate Aerial	End EFL Aerial Detection	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C				4	2,5,6,7,8,9,			64.5
	10-May-10	18:30:00			C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C				4	2,5,6,7,8,9,			64.5
	10-May-10	19:30:00			B/C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C				4	2,5,6,7,8,9,			64.5
54-208 (A1)	10-May-10	19:37:15	"A" Gate Aerial	Start EFL Aerial Detection	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C				4	2,5,6,7,8,9,			64.5
54-208 (A1)	10-May-10	19:38:22	"A" Gate Aerial	End EFL Aerial Detection	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C				4	2,5,6,7,8,9,			64.5
54-208 (A1)	10-May-10	19:44:40	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 12)	B	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C				4	2,5,6,7,8,9,			64.5
	10-May-10	20:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C				4	2,5,6,7,8,9,	3	moved through 3 zones under 2 flows	64.5
54-208 (A1)	10-May-10	20:53:49	Rowland Island West (Near-Field)	Transition Downstream 12 (Upper Tailrace to Tailrace)	E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C		down		4	2,5,6,7,8,9,	LR		64.5
	10-May-10	21:30:00			E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C				4	2,5,6,7,8,9,	LR		64.5
	10-May-10	22:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		1	2,5,	LR		64.5	
	10-May-10	23:30:00			E/F	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		64.5	
54-208 (A1)	10-May-10	23:36:34	Rowland Island West (Near-Field)	Transition Upstream 13 (Tailrace to Upper Tailrace)	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		64.5	
54-208 (A1)	11-May-10	0:16:11	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 13)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up		1	2,5,			63.2	
	11-May-10	0:30:00			B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			63.2	
54-208 (A1)	11-May-10	1:11:44	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 13)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			63.2	
	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	1	moved in 1 zone at min gen	63.2	
54-208 (A1)	11-May-10	2:19:26	Rowland Island West (Near-Field)	Transition Downstream 13 (Upper Tailrace to Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down		1	2,5,	LR		63.2	
	11-May-10	2:30:00			E/F	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2	
	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2	
54-208 (A1)	11-May-10	3:51:19	Rowland Island West (Near-Field)	Transition Upstream 14 (Tailrace to Upper Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,	LR		63.2	
54-208 (A1)	11-May-10	4:09:16	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 14)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up		1	2,5,			63.2	
	11-May-10	4:30:00			B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				1	2,5,			63.2	
	11-May-10	5:30:00			B/E	9570</																						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Comments: G&S2	Water Temp. (°F)
54-210 (A1)	28-Apr-10	11:35:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C			4	4,5,6,7,8,9,			58.7
54-210 (A1)	12-May-10	NA	NA	Start Tailrace Detection 1		0												None	A							60.2
54-210 (A1)	12-May-10	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A							60.2
54-210 (A1)	12-May-10	10:22:32	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	down	stay	1	2,5,7,			60.2
	12-May-10	10:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	11:30:00			A/B	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	12:30:00			A/B	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	13:30:00			A/B	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	14:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
54-210 (A1)	12-May-10	15:01:47	"A" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
54-210 (A1)	12-May-10	15:06:15	"A" Gate Aerial	End EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	15:30:00			B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
54-210 (A1)	12-May-10	15:40:03	"A" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
54-210 (A1)	12-May-10	15:41:01	"A" Gate Entrance Dropper	Start EFL	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
54-210 (A1)	12-May-10	15:48:47	"C" Gate Entrance Dropper	Last EFL Detection before being lifted	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
	12-May-10	16:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A			1	2,5,7,			60.2
54-210 (A1)	12-May-10	17:25:05	Conwingo Fishway Exit Trough	Passage	D	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A		spillway	1	2,5,7,	4	moved through all zones and passed; no change in gen	60.2

**APPENDIX A-5: 2010 CONOWINGO TAILRACE ZONES.**

Flow Bins (cfs)			
Flow Bin No.#	Low	High	flow coverage
1	7,500	18,000	10,500
2	18,001	28,000	9,999
3	28,001	36,000	7,999
4	36,001	45,000	8,999
5	45,001	55,000	9,999
6	55,001	66,000	10,999
7	66,001	80,000	13,999
8	80,001	100,000	19,999
9	100,001	120,000	19,999



Zone	Description
Zone A	House Units and Units 1-3
Zone B	Units 4-7
Zone C	Kaplans, East Fish Lift
Zone D	Spillway
Zone E	West Side Rowland Island
Zone F	East Side Rowland Island

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-100 (A1)	22-Apr-10	10:36:00	Conowingo Tailrace	Release - Downstream of "C" Gate		40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C										
21-100 (A1)	22-Apr-10	10:53:21	Rowland Island West (Near-Field)	Start Tailrace Detection 1	F	40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C										
21-100 (A1)	22-Apr-10	11:30:00		Rowland Island East & West	F/E	40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C										
21-100 (A1)	22-Apr-10	12:30:00		Rowland Island East & West	F/E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		58.1	1	5,7				
21-100 (A1)	22-Apr-10	12:34:29	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A										
21-100 (A1)	22-Apr-10	12:36:54	Conowingo East Spillway Corner (Near-Field)	Start Spillway/Transition	D/C	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		up		58.1	1	5,7			upstream movement, 1 hr after gen change	
21-100 (A1)	22-Apr-10	13:30:00			A/B/C/D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A										
21-100 (A1)	22-Apr-10	13:59:52	Conowingo East Spillway Corner (Near-Field)	End Spillway/Transition	D/C	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A										
21-100 (A1)	22-Apr-10	14:00:00	Conowingo Tailrace Unit 8 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	C	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A										
21-100 (A1)	22-Apr-10	14:30:00		Upper Tailrace West/Middle/East	A/B/C	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A										
21-100 (A1)	22-Apr-10	15:30:00		Upper Tailrace West/Middle/East	A/B/C	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A										
21-100 (A1)	22-Apr-10	16:13:17	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A										
21-100 (A1)	22-Apr-10	16:17:17	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		down		58.1	1	5,7				
21-100 (A1)	22-Apr-10	16:30:00		Rowland Island West	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A										
21-100 (A1)	22-Apr-10	17:10:20	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up	stay		58.1	6	2,3,4,5,6,7,8,9,11				
21-100 (A1)	22-Apr-10	18:46:03	Spencer Island East (Near-Field)	Start Lower River		59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C										
21-100 (A1)	27-Apr-10	18:18:17	Spencer Island West (Near-Field)	End Lower River		59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C										significant downstream movement 1 hr after cfs went up another 50K
21-100 (A1)	28-Apr-10	4:05:12	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	11000	0	0	0	0	5880	5120	0	0	0	0	0	None	A	down	stay		58.6	1					
21-100 (A1)	28-Apr-10	4:30:00		Rowland Island West	E	11000	0	0	0	0	5880	5120	0	0	0	0	0	None	A										
21-100 (A1)	28-Apr-10	5:20:52	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	11000	0	0	0	0	5880	5120	0	0	0	0	0	None	A										
21-100 (A1)	28-Apr-10	5:30:00		Upper Tailrace Middle	B	11000	0	0	0	0	5880	5120	0	0	0	0	0	None	A										upstream movement w/ no gen change
21-100 (A1)	28-Apr-10	5:49:25	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	11000	0	0	0	0	5880	5120	0	0	0	0	0	None	A		up		58.6	1	4,5				
21-100 (A1)	28-Apr-10	6:30:00		Upper Tailrace Middle	B	11000	0	0	0	0	5880	5120	0	0	0	0	0	None	A										
21-100 (A1)	28-Apr-10	7:30:00		Upper Tailrace West/Middle/East	A/B/C	11000	0	0	0	0	5880	5120	0	0	0	0	0	None	A										
21-100 (A1)	28-Apr-10	8:22:29	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	A	11000	0	0	0	0	5880	5120	0	0	0	0	0	None	A										
21-100 (A1)	28-Apr-10	8:30:00		Transition between Upper Tailrace W. & Rowland Is. W.	Btwn A/E	11000	0	0	0	0	5880	5120	0	0	0	0	0	None	A										
21-100 (A1)	28-Apr-10	9:00:56	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	11000	0	0	0	0	5880	5120	0	0	0	0	0	None	A		down		58.6	1	4,5				
21-100 (A1)	28-Apr-10	9:03:42	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	11000	0	0	0	0	5880	5120	0	0	0	0	0	None	A										
21-100 (A1)	28-Apr-10	9:30:00		Transition between Upper Tailrace W. & Rowland Is. W.	Btwn A/E	22770	0	0	0	0	5880	5120	5750	6020	0	0	0	None	A	up	up		58.6	3	4,5,6,7				
21-100 (A1)	28-Apr-10	10:30:00		Transition between Upper Tailrace W. & Rowland Is. W.	Btwn A/E	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		58.6	4	4,5,6,7,8			gen doubles & upstream movement
21-100 (A1)	28-Apr-10	10:56:38	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	11:30:00		Upper Tailrace West/Middle	A/B	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	12:30:00		Upper Tailrace Middle/East	B/C	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	13:30:00		Upper Tailrace West/Middle	A/B	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	14:30:00		Upper Tailrace West/Middle	A/B	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	15:30:00		Upper Tailrace West/Middle	A/B	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	16:30:00		Upper Tailrace West/Middle/East	A/B/C	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	17:30:00		Upper Tailrace West/Middle	A/B	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	18:28:51	"A" Gate Aerial	Start EFL Aerial Detection	C	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	18:30:00		Upper Tailrace East	C	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	18:46:08	"A" Gate Aerial	End EFL Aerial Detection	C	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	19:30:00		Upper Tailrace West/Middle/East	A/B/C	40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	20:30:00				40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	21:30:00				40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	22:30:00				40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	28-Apr-10	23:30:00				40170	0	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C									
21-100 (A1)	29-Apr-10	0:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A	down	stay		56.8	2	3,5,6,7				
21-100 (A1)	29-Apr-10	1:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A										
21-100 (A1)	29-Apr-10	2:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A										
21-100 (A1)	29-Apr-10	3:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A										

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-100 (A1)	30-Apr-10	8:30:00		Upper Tailrace West/Middle	A/B	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	9:30:00		Upper Tailrace West/Middle/East	A/B/C	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	10:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	11:30:00		Upper Tailrace Middle	B	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	12:30:00		Upper Tailrace Middle	B	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		57.0	6	1,2,3,4,5,6,7,8,9,11				
21-100 (A1)	30-Apr-10	13:30:00		Upper Tailrace Middle	B	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	14:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	15:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	16:30:00		Upper Tailrace West	A	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	17:30:00		Upper Tailrace West/Middle	A/B	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	18:30:00		Upper Tailrace West/Middle	A/B	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	19:02:36	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C									3	
21-100 (A1)	30-Apr-10	19:30:00		Transition between Upper Tailrace Middle & Rowland Is. E.	Btwn B/F	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	20:30:00		Transition between Upper Tailrace Middle & Rowland Is. E.	Btwn B/F	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	21:30:00		Transition between Upper Tailrace Middle & Rowland Is. E.	Btwn B/F	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C										
21-100 (A1)	30-Apr-10	22:30:00		Transition between Upper Tailrace Middle & Rowland Is. E.	Btwn B/F	9970	0	4940	0	0	5030	0	0	0	0	0	0	0	None	A	down	stay		57.0	1	2,5			began to drop back after reduced gen
21-100 (A1)	30-Apr-10	22:59:35	Rowland Island East (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	F	9970	0	4940	0	0	5030	0	0	0	0	0	0	None	A		down		57.0	1	2,5				
21-100 (A1)	30-Apr-10	23:30:00		Rowland Island East & West	F/E	9970	0	4940	0	0	5030	0	0	0	0	0	0	None	A										
21-100 (A1)	01-May-10	0:19:25	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A										
21-100 (A1)	01-May-10	0:27:47	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A		up		59.1	1	2,5				
21-100 (A1)	01-May-10	0:30:00		Rowland Island East & West/Upper Tailrace Middle	F/E/B	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A										
21-100 (A1)	01-May-10	1:15:36	"C" Gate Aerial	Start EFL Aerial Detection	C	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A										
21-100 (A1)	01-May-10	1:30:00		Upper Tailrace West/Middle/East	A/B/C	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A										
21-100 (A1)	01-May-10	1:53:44	"C" Gate Aerial	End EFL Aerial Detection	C	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A										
21-100 (A1)	01-May-10	2:30:00		Upper Tailrace Middle/East	B/C	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A										
21-100 (A1)	01-May-10	3:30:00		Upper Tailrace Middle	B	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A										
21-100 (A1)	01-May-10	4:30:00		Rowland Island West	E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A		down		59.1	1	2,5				
21-100 (A1)	01-May-10	5:30:00		Upper Tailrace Middle	B	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A		up		59.1	1	2,5				
21-100 (A1)	01-May-10	6:30:00		Upper Tailrace West/Middle	A/B	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A										
21-100 (A1)	01-May-10	7:30:00		Upper Tailrace Middle	B	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C	up	stay		59.1	4	2,5,6,7,8,9				
21-100 (A1)	01-May-10	8:30:00		Upper Tailrace Middle	B	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C										
21-100 (A1)	01-May-10	9:30:00		Upper Tailrace West/Middle	A/B	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C										
21-100 (A1)	01-May-10	10:30:00		Upper Tailrace West/Middle	A/B	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C										
21-100 (A1)	01-May-10	11:30:00		Upper Tailrace West/Middle	A/B	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C										
21-100 (A1)	01-May-10	12:30:00		Upper Tailrace West/Middle/East	A/B/C	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C										Stayed in zone A&B for some time
21-100 (A1)	01-May-10	13:30:00		Upper Tailrace West/Middle/East	A/B/C	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C	up	stay		59.1	7	2,3,4,5,6,7,8,9,10,11			Noticing detections in zone C since start of full house(except unit 1)	
21-100 (A1)	01-May-10	14:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C										
21-100 (A1)	01-May-10	15:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C										
21-100 (A1)	01-May-10	16:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C										
21-100 (A1)	01-May-10	16:34:21	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C								3		
21-100 (A1)	01-May-10	17:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C										
21-100 (A1)	01-May-10	18:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C										
21-100 (A1)	01-May-10	19:06:09	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)		68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C										
21-100 (A1)	01-May-10	19:30:00		Rowland Island West	E	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C		down		59.1	7	2,3,4,5,6,7,8,9,10,11				
21-100 (A1)	01-May-10	19:52:58	Rowland Island West (Near-Field)	End Tailrace Detection 2		68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C										
21-100 (A1)	01-May-10	21:34:12	Lapidum (West Shore) (Near-Field)	Start Lower River		68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C										
21-100 (A1)	02-May-10	12:31:44	Lapidum (West Shore) (Near-Field)	End Lower River		34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C	down	stay		62.5	3	2,5,6,7,8,9				
21-100 (A1)	03-May-10	0:43:31	Rowland Island West (Near-Field)	Start Tailrace Detection 3		8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay		65.5	1	2,5			moved up after drop in gen	
21-100 (A1)	03-May-10	1:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A										
21-100 (A1)	03-May-10	2:3																											



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-104 (A1)	22-Apr-10	11:06:00	Conowingo Tailrace	Release - Downstream of "C" Gate		40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C					58.1					
21-104 (A1)	22-Apr-10	11:11:03	Conowingo East Spillway Corner (Near-Field)	Start Spillway/Transition	D/C	40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C					58.1					
21-104 (A1)	22-Apr-10	13:49:15	Conowingo East Spillway Corner (Near-Field)	End Spillway/Transition	D/C	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		58.1	4	5,7				
21-104 (A1)	22-Apr-10	14:25:06	Conowingo Tailrace Unit 3 (Mid-Field)	Start Tailrace Detection 1	A	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-104 (A1)	22-Apr-10	14:25:06	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-104 (A1)	22-Apr-10	14:30:00		Upper Tailrace West/Middle	A/B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-104 (A1)	22-Apr-10	15:30:00		Upper Tailrace Middle	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-104 (A1)	22-Apr-10	16:30:00		Upper Tailrace Middle	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-104 (A1)	22-Apr-10	17:30:00		Upper Tailrace West/Middle	A/B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up	stay		58.1	6	2,3,4,5,6,7,8,9,11			Movement between zones A & B	
21-104 (A1)	22-Apr-10	18:30:00		Upper Tailrace West/Middle	A/B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1						
21-104 (A1)	22-Apr-10	19:30:00		Upper Tailrace Middle	B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1						
21-104 (A1)	22-Apr-10	19:33:41	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1				2		
21-104 (A1)	22-Apr-10	20:30:00				59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1						
21-104 (A1)	22-Apr-10	21:30:00				59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1						
21-104 (A1)	22-Apr-10	22:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		58.1	1	5,7				
21-104 (A1)	22-Apr-10	23:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-104 (A1)	23-Apr-10	0:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-104 (A1)	23-Apr-10	1:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-104 (A1)	23-Apr-10	2:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-104 (A1)	23-Apr-10	3:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-104 (A1)	23-Apr-10	4:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-104 (A1)	23-Apr-10	5:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-104 (A1)	23-Apr-10	6:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-104 (A1)	23-Apr-10	6:44:57	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A		down		59.7	1	5,7				
21-104 (A1)	23-Apr-10	7:30:00		Rowland Island West	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		59.7	4	4,5,6,7,8,9				
21-104 (A1)	23-Apr-10	8:30:00		Rowland Island West	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-104 (A1)	23-Apr-10	9:30:00		Rowland Island West	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-104 (A1)	23-Apr-10	10:30:00		Rowland Island West	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-104 (A1)	23-Apr-10	10:54:41	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-104 (A1)	23-Apr-10	11:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-104 (A1)	23-Apr-10	12:29:42	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C		up		59.7	4	4,5,6,7,8,9				
21-104 (A1)	23-Apr-10	12:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-104 (A1)	23-Apr-10	13:00:54	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7				1		
21-104 (A1)	23-Apr-10	13:12:31	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	down		59.7	1	5,7			Decrease in gen, downstream movement	
21-104 (A1)	23-Apr-10	13:30:00		Upper Tailrace Middle/Rowland Island West	B/E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-104 (A1)	23-Apr-10	14:30:00		Rowland Island West	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-104 (A1)	23-Apr-10	15:30:00		Rowland Island West	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-104 (A1)	23-Apr-10	16:30:00		Rowland Island West	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-104 (A1)	23-Apr-10	17:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		59.7	4	4,5,6,7,8,9			Increase in gen, downstream movement	
21-104 (A1)	23-Apr-10	18:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-104 (A1)	23-Apr-10	19:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-104 (A1)	23-Apr-10	20:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-104 (A1)	23-Apr-10	21:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-104 (A1)	23-Apr-10	22:30:00		Rowland Island West	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		59.7	1	5,7				
21-104 (A1)	23-Apr-10	23:30:00		Rowland Island West	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					decrease in gen, moved upstream	
21-104 (A1)	24-Apr-10	0:30:00		Rowland Island West	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-104 (A1)	24-Apr-10	1:30:00		Spencer Island East		11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-104 (A1)	24-Apr-10	2:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-104 (A1)	24-Apr-10	3:30:00		Rowland Island West	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-104 (A1)	24-Apr-10	4:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-104 (A1)	24-Apr-10	5:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-104 (A1)	24-Apr-10																												



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-104 (A1)	24-Apr-10	18:30:00		Rowland Island West	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-104 (A1)	24-Apr-10	19:30:00				23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A	up	stay		60.6	2	4,5,6,7			increase in gen, movement downstream
21-104 (A1)	24-Apr-10	20:30:00				23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A				60.6					
21-104 (A1)	24-Apr-10	21:30:00				23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A				60.6					
21-104 (A1)	24-Apr-10	22:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A	down	stay		60.6	1	5,7			
21-104 (A1)	24-Apr-10	23:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-104 (A1)	25-Apr-10	0:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	1:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	2:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	3:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	4:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	5:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	6:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	7:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	8:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	9:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	10:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	11:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	12:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	13:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	14:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	15:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	16:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	17:30:00		Rowland Island West	E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A	up	stay		61.0	2	4,5,6,7			
21-104 (A1)	25-Apr-10	18:30:00		Rowland Island West	E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	19:30:00		Rowland Island West	E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	20:30:00		Rowland Island West	E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	21:30:00		Rowland Island West	E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	25-Apr-10	22:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A	down	stay		61.0	1	5,7			
21-104 (A1)	25-Apr-10	23:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-104 (A1)	26-Apr-10	0:30:00		Rowland Island West	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
21-104 (A1)	26-Apr-10	1:30:00		Rowland Island West	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
21-104 (A1)	26-Apr-10	2:30:00		Rowland Island West	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
21-104 (A1)	26-Apr-10	3:30:00		Rowland Island West	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
21-104 (A1)	26-Apr-10	4:30:00		Rowland Island West	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
21-104 (A1)	26-Apr-10	5:30:00		Rowland Island West	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C	up	stay		60.9	4	3,4,5,6,7,8			
21-104 (A1)	26-Apr-10	6:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	7:30:00		Rowland Island West	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	8:30:00		Rowland Island West	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	9:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	10:30:00		Rowland Island West	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	11:30:00		Rowland Island West	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	12:30:00		Rowland Island West	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	12:41:00	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	12:54:16	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		up		60.9	4	3,4,5,6,7,8			upstream movement, but no change in gen
21-104 (A1)	26-Apr-10	13:30:00		Upper Tailrace West/Middle	A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	14:30:00		Upper Tailrace West/Middle/East	A/B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	15:30:00		Upper Tailrace Middle/East	B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	16:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	17:30:00		Upper Tailrace West/Middle/East	A/B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	18:30:00		Upper Tailrace Middle	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-104 (A1)	26-Apr-10	18:52:50	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				3	
21-104 (A1)	26-Apr-10																											

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-104 (A1)	27-Apr-10	9:30:00		Rowland Island West	E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	stay		60.6	2	4,5,6,7			
21-104 (A1)	27-Apr-10	10:30:00		Rowland Island West	E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
21-104 (A1)	27-Apr-10	11:30:00		Rowland Island West	E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
21-104 (A1)	27-Apr-10	12:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
21-104 (A1)	27-Apr-10	13:30:00		Rowland Island West	E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A	down	stay		60.6	1	5,6			
21-104 (A1)	27-Apr-10	14:30:00		Rowland Island West	E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
21-104 (A1)	27-Apr-10	15:30:00		Rowland Island West	E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
21-104 (A1)	27-Apr-10	16:30:00		Rowland Island West	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay		60.6	6	2,3,4,5,6,7,8,9,11			significant increase in gen, next ID is down at Spencer Is.
21-104 (A1)	27-Apr-10	17:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-104 (A1)	27-Apr-10	18:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-104 (A1)	27-Apr-10	19:30:00		Spencer Island East		59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-104 (A1)	27-Apr-10	20:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-104 (A1)	27-Apr-10	21:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-104 (A1)	27-Apr-10	22:30:00		Rowland Island West	E	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A	down	stay		60.6	1	3,4			following decrease in gen, is back up near Rowland Is.
21-104 (A1)	27-Apr-10	23:30:00		Rowland Island West	E	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A				60.6					
21-104 (A1)	28-Apr-10	0:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-104 (A1)	28-Apr-10	1:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-104 (A1)	28-Apr-10	2:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-104 (A1)	28-Apr-10	3:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-104 (A1)	28-Apr-10	4:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-104 (A1)	28-Apr-10	5:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-104 (A1)	28-Apr-10	6:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-104 (A1)	28-Apr-10	7:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-104 (A1)	28-Apr-10	8:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-104 (A1)	28-Apr-10	9:30:00		Rowland Island West	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	up	stay		58.6	2	4,5,6,7			
21-104 (A1)	28-Apr-10	10:30:00		Rowland Island West	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		58.6	4	4,5,6,7,8			
21-104 (A1)	28-Apr-10	10:42:00	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-104 (A1)	28-Apr-10	10:42:00	Rowland Island West (Near-Field)	End Detections	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-109 (A1)	22-Apr-10	11:34:00	Conowingo Tailrace	Release - Downstream of "C" Gate		40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C					58.1					
21-109 (A1)	22-Apr-10	15:09:21	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		58.1	1	5,7				
21-109 (A1)	22-Apr-10	15:30:00		Rowland Island West	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-109 (A1)	22-Apr-10	15:31:57	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-109 (A1)	22-Apr-10	18:29:36	Spencer Island East (Near-Field)	Start Lower River		59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up	stay		58.1	6	2,3,4,5,6,7,8,9			significant increase in gen, downstream movement	
21-109 (A1)	22-Apr-10	18:57:56	Tomes Landing (East Shore) (Near-Field)	End Lower River		59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1						
21-109 (A1)	22-Apr-10	21:47:57	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1						still under increased gen, movement back up
21-109 (A1)	22-Apr-10	22:30:00		Rowland Island West	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay	No data - briefly on collected on 4/25 resumes on 4/27	58.1	1	2,3,4,5,6,7,8,9			decrease in gen, downstream movement	
21-109 (A1)	22-Apr-10	23:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-109 (A1)	23-Apr-10	0:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	23-Apr-10	1:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	23-Apr-10	2:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	23-Apr-10	3:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	23-Apr-10	4:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	23-Apr-10	5:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	23-Apr-10	6:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	23-Apr-10	7:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		59.7	4	4,5,6,7,8,9				
21-109 (A1)	23-Apr-10	8:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-109 (A1)	23-Apr-10	9:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-109 (A1)	23-Apr-10	10:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-109 (A1)	23-Apr-10	11:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-109 (A1)	23-Apr-10	12:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-109 (A1)	23-Apr-10	13:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		59.7	1	5,7				
21-109 (A1)	23-Apr-10	14:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	23-Apr-10	15:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	23-Apr-10	16:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	23-Apr-10	17:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		59.7	4	4,5,6,7,8,9				
21-109 (A1)	23-Apr-10	18:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-109 (A1)	23-Apr-10	19:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-109 (A1)	23-Apr-10	20:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-109 (A1)	23-Apr-10	21:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-109 (A1)	23-Apr-10	22:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		59.7	1	5,7				
21-109 (A1)	23-Apr-10	23:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	24-Apr-10	0:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7						
21-109 (A1)	24-Apr-10	1:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	2:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	3:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	4:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	5:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	6:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	7:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	8:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	9:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	10:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	11:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	12:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	13:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	14:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	15:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	16:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	17:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	18:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6						
21-109 (A1)	24-Apr-10	19:30:00				23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A	up	stay		60.6	2					

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-109 (A1)	26-Apr-10	3:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A					60.9				
21-109 (A1)	26-Apr-10	4:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A					60.9				
21-109 (A1)	26-Apr-10	5:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C	up	stay		60.9	4	4,5,6,7,8,9		
21-109 (A1)	26-Apr-10	6:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	7:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	8:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	9:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	10:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	11:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	12:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	13:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	14:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	15:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	16:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	17:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	18:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	19:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	20:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	21:30:00				40770	0	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				
21-109 (A1)	26-Apr-10	22:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A	down	stay		60.9	1	5,7			
21-109 (A1)	26-Apr-10	23:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
21-109 (A1)	27-Apr-10	0:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-109 (A1)	27-Apr-10	1:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-109 (A1)	27-Apr-10	2:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-109 (A1)	27-Apr-10	3:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-109 (A1)	27-Apr-10	4:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-109 (A1)	27-Apr-10	5:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-109 (A1)	27-Apr-10	6:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-109 (A1)	27-Apr-10	7:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-109 (A1)	27-Apr-10	8:18:15	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-109 (A1)	27-Apr-10	18:34:10	Tomes Landing (East Shore) (Near-Field)	Start Lower River		59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay		60.6	6	2,3,4,5,6,7,8,9,11			
21-109 (A1)	30-Apr-10	17:37:53	Spencer Island West (Near-Field)	End Lower River		56410	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	90	None	C				57.0					Increase in Gen, downstream movement
21-109 (A1)	01-May-10	10:27:42	Rowland Island West (Near-Field)	Start Tailrace Detection 3	E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C	down	stay		59.1	4	2,5,6,7,8,9			
21-109 (A1)	01-May-10	10:30:00		Rowland Island West	E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C				59.1					
21-109 (A1)	01-May-10	11:30:00		Rowland Island West	E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C				59.1					
21-109 (A1)	01-May-10	12:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C				59.1					
21-109 (A1)	01-May-10	13:25:09	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C	up	stay		59.1	7	2,3,4,5,6,7,8,9,10,11			
21-109 (A1)	01-May-10	13:30:00		Rowland Island West	E	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-109 (A1)	01-May-10	14:02:03	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C		up		59.1	7	2,3,4,5,6,7,8,9,10,11			
21-109 (A1)	01-May-10	14:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-109 (A1)	01-May-10	15:30:00		Upper Tailrace West/Middle	A/B	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					Increased Gen, upstream movement (a Foray)
21-109 (A1)	01-May-10	15:33:29	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1				2	
21-109 (A1)	01-May-10	16:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-109 (A1)	01-May-10	17:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-109 (A1)	01-May-10	18:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-109 (A1)	01-May-10	19:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-109 (A1)	01-May-10	20:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-109 (A1)	01-May-10	20:39:06	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)		68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-109 (A1)	01-May-10	21:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-109 (A1)	01-May-10	22:30:00				40540	0	4600	6340	6060	0	0	6130	8700	8710	0	0	None	C	down	stay		59.1	4	2,3,4,7,8,9			
21-109 (A1)	01-May-10	23:30:00				10730	0	4600	0	0	0	6130	0	0	0	0	0	None	A	down	stay		59.1	1	2,7			
21-109 (A1)	02-May-10	0:30:00				6430	0	4440	0	0	0	1990	0	0	0	0	0	None	A	down	stay		62.5	1	2,7			
21-109 (A1)	02-May-10	1:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A	up	stay		62.5	1	2,5			
21-109 (A1)	02-May-10	2:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-109 (A1)	02-May-10	3:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-109 (A1)	02-May-10	4:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-109 (A1)	02-May-10	5:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-109 (A1)	02-May-10	6:30:00		Rowland Island West	E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A		down		62.5	1	2,5			
21-109 (A1)	02-May-10	7:30:00		Rowland Island West	E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-109 (A1)	02-May-10	8:30:00				9170	0	4440	0																			



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-109 (A1)	03-May-10	9:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
21-109 (A1)	03-May-10	10:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
21-109 (A1)	03-May-10	11:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
21-109 (A1)	03-May-10	12:09:09	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	38610	5520	4450	6160	5960	4460	5950	6110	0	0	0	0	None	A	up	stay			65.5	4	1,2,3,4,5,6,7			
21-109 (A1)	03-May-10	12:30:00		Rowland Island West	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up	stay			65.5	6	1,2,3,4,5,6,7,8,9,11			
21-109 (A1)	03-May-10	13:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
21-109 (A1)	03-May-10	14:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
21-109 (A1)	03-May-10	15:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
21-109 (A1)	03-May-10	16:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
21-109 (A1)	03-May-10	17:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
21-109 (A1)	03-May-10	18:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
21-109 (A1)	03-May-10	19:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C	up	stay			65.5	7	1,2,3,4,5,6,7,8,9,10,11			
21-109 (A1)	03-May-10	20:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C					65.5					
21-109 (A1)	03-May-10	21:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C					65.5					
21-109 (A1)	03-May-10	22:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C					65.5					
21-109 (A1)	03-May-10	23:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C					65.5					
21-109 (A1)	04-May-10	0:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	1:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	2:30:00				34030	0	4770	6120	5920	4820	6150	6250	0	0	0	0	None	A	down	stay			68.1	3	2,3,4,5,6,7			
21-109 (A1)	04-May-10	3:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay			68.1	1	2,5			
21-109 (A1)	04-May-10	4:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A					68.1					
21-109 (A1)	04-May-10	5:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A					68.1					
21-109 (A1)	04-May-10	6:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A					68.1					
21-109 (A1)	04-May-10	7:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A					68.1					
21-109 (A1)	04-May-10	8:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A	up	stay			68.1	2	2,5,6,7			
21-109 (A1)	04-May-10	9:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A					68.1					
21-109 (A1)	04-May-10	10:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A					68.1					
21-109 (A1)	04-May-10	11:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A					68.1					
21-109 (A1)	04-May-10	12:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay			68.1	7	2,3,4,5,6,7,8,9,10,11			
21-109 (A1)	04-May-10	12:37:28	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		up			68.1	7	2,3,4,5,6,7,8,9,10,11			High Gen at start of Foray
21-109 (A1)	04-May-10	13:30:00		Upper Tailrace West/Middle	A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	14:30:00		Upper Tailrace West/Middle	A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	15:30:00		Upper Tailrace West/Middle	A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	16:30:00		Upper Tailrace West/Middle	A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	17:30:00		Upper Tailrace West/Middle	A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	18:30:00		Upper Tailrace West/Middle	A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	18:45:42	"C" Gate Aerial	Start EFL Aerial Detection	C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	18:46:25	"C" Gate Aerial	End EFL Aerial Detection	C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	19:03:14	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1				3	
21-109 (A1)	04-May-10	19:13:12	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		down			68.1	7	2,3,4,5,6,7,8,9,10,11			
21-109 (A1)	04-May-10	19:30:00		Upper Tailrace West/Middle/East/ Rowland Island West	A/B/C/E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	19:53:18	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	19:54:28	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		up			68.1	7	2,3,4,5,6,7,8,9,10,11			
21-109 (A1)	04-May-10	19:59:15	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1				2	
21-109 (A1)	04-May-10	20:05:10	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		down			68.1	7	2,3,4,5,6,7,8,9,10,11			
21-109 (A1)	04-May-10	20:30:00		Rowland Island West	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	21:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	22:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C					68.1					
21-109 (A1)	04-May-10	23:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay			68.1	1	2,5			
21-109 (A1)	05-May-10	0:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					69.2					
21-109 (A1)	05-May-10	1:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					69.2					
21-109 (A1)	05-May-10	2:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					69.2					
21-109 (A1)	05-May-10	3:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					69.2					
21-109 (A1)	05-May-10	4:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					69.2					
21-109 (A1)	05-May-10	5:30:00		Rowland Island West	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A					69.2					
21-109 (A1)	05-May-10	6:30:00																											



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-109 (A1)	06-May-10	9:30:00		Upper Tailrace West/Middle/East	A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5				
21-109 (A1)	06-May-10	10:30:00		Upper Tailrace West/Middle	A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5				
21-109 (A1)	06-May-10	11:30:00		Upper Tailrace Middle/East	B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5				
21-109 (A1)	06-May-10	12:30:00		Upper Tailrace West/Middle/East	A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5				
21-109 (A1)	06-May-10	13:30:00		Upper Tailrace West/Middle/East	A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5				
21-109 (A1)	06-May-10	14:26:33	*C* Gate Aerial	Start EFL Aerial Detection	C	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay		69.5	6	2,3,4,5,6,7,8,9,11		regardless of gen change, fish stayed	
21-109 (A1)	06-May-10	14:30:00		Upper Tailrace Middle/East	B/C	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C					69.5				
21-109 (A1)	06-May-10	15:30:00		Upper Tailrace Middle/East	B/C	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C					69.5				
21-109 (A1)	06-May-10	15:30:53	*A* Gate Aerial	End EFL Aerial Detection	C	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C					69.5				
21-109 (A1)	06-May-10	16:30:00		Upper Tailrace Middle/East	B/C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	stay		69.5	7	2,3,4,5,6,7,8,9,10,11			
21-109 (A1)	06-May-10	17:30:00		Upper Tailrace West/Middle/East	A/B/C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C					69.5				
21-109 (A1)	06-May-10	18:30:00		Upper Tailrace West/Middle	A/B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C					69.5				
21-109 (A1)	06-May-10	19:30:00		Upper Tailrace West/Middle	A/B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C					69.5				
21-109 (A1)	06-May-10	20:30:00		Upper Tailrace Middle	B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C					69.5				
21-109 (A1)	06-May-10	21:02:11	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C					69.5			3	
21-109 (A1)	06-May-10	21:30:00		Upper Tailrace Middle	B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C					69.5				
21-109 (A1)	06-May-10	22:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		69.5	1	3,4		decrease in gen, downstream movement	
21-109 (A1)	06-May-10	23:05:23	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A		down		69.5	1	3,4			
21-109 (A1)	06-May-10	23:30:00		Rowland Island West	E	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5				
21-109 (A1)	07-May-10	0:30:00		Rowland Island West	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	up	stay		69.4	2	2,4,5,7		increase in gen, upstream movement	
21-109 (A1)	07-May-10	1:30:00		Rowland Island West	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4				
21-109 (A1)	07-May-10	2:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4				
21-109 (A1)	07-May-10	3:30:00		Rowland Island West	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4				
21-109 (A1)	07-May-10	4:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4				
21-109 (A1)	07-May-10	5:30:00		Rowland Island West	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4				
21-109 (A1)	07-May-10	6:30:00		Rowland Island West	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4				
21-109 (A1)	07-May-10	7:30:00		Rowland Island West	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4				
21-109 (A1)	07-May-10	8:30:00		Rowland Island West	E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C	up	stay		69.4	4	2,4,5,6,7,8			
21-109 (A1)	07-May-10	8:37:37	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C					69.4				
21-109 (A1)	07-May-10	9:24:06	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C		up		69.4	4	2,4,5,6,7,8			
21-109 (A1)	07-May-10	9:30:00		Upper Tailrace Middle	B	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C					69.4				
21-109 (A1)	07-May-10	10:30:00		Upper Tailrace Middle/East	B/C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C					69.4				
21-109 (A1)	07-May-10	11:30:00		Upper Tailrace West/Middle/East	A/B/C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C					69.4				
21-109 (A1)	07-May-10	12:30:00		Upper Tailrace Middle/East	B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		69.4	6	2,3,4,5,6,7,8,9,11			
21-109 (A1)	07-May-10	13:30:00		Upper Tailrace West/Middle/East	A/B/C	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay		69.4	5	2,4,5,6,7,8,9,11			
21-109 (A1)	07-May-10	14:30:00		Upper Tailrace Middle	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		69.4	6	2,3,4,5,6,7,8,9,11			
21-109 (A1)	07-May-10	15:30:00		Upper Tailrace Middle/East	B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4				
21-109 (A1)	07-May-10	16:30:00		Upper Tailrace Middle	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4				
21-109 (A1)	07-May-10	17:30:00		Upper Tailrace Middle/East	B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4				
21-109 (A1)	07-May-10	18:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4				
21-109 (A1)	07-May-10	19:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4				
21-109 (A1)	07-May-10	20:30:00		Upper Tailrace Middle/East	B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4				
21-109 (A1)	07-May-10	21:30:00		Upper Tailrace Middle	B	34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	None	A	down	stay		69.4	3	2,3,4,5,6			
21-109 (A1)	07-May-10	22:30:00		Upper Tailrace West/Middle	A/B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay		69.4	2	2,4,5,7			
21-109 (A1)	07-May-10	23:30:00		Upper Tailrace West/Middle	A/B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4				
21-109 (A1)	08-May-10	0:30:00		Upper Tailrace West/Middle	A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		69.2	1	2,5			
21-109 (A1)	08-May-10	1:30:00		Upper Tailrace West/Middle	A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A					69.2				
21-109 (A1)	08-May-10	2:30:00		Upper Tailrace West/Middle	A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A					69.2				
21-109 (A1)	08-May-10	3:30:00		Upper Tailrace West/Middle	A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A					69.2				
21-109 (A1)	08-May-10	4:30:00		Upper Tailrace West/Middle	A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A					69.2				
21-109 (A1)	08-May-10	5:30:00		Upper Tailrace West/Middle/ Rowlands Island West	A/B/E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A					69.2				
21-109 (A1)	08-May-10	6:30:00		Upper Tailrace Middle/East	B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A					69.2				
21-109 (A1)	08-May-10	7:30:00		Upper Tailrace Middle/East	B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A					69.2				
21-109 (A1)	08-May-10	8:30:00		Upper Tailrace West/Middle/East	A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A					69.2				
21-109 (A1)	08-May-10	9:30:00		Upper Tailrace West/Middle/East	A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A					69.2				
21-109 (A1)	08-May-10	10:30:00		Upper Tailrace West/Middle/East	A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A					69.2				
21-109 (A1)	08-May-10	11:21:28	*C* Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	up	stay		69.2	4	2,5,6,7,8,9			
21-109 (A1																												

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-109 (A1)	09-May-10	7:30:00		Upper Tailrace Middle/East	B/C	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	8:30:00		Upper Tailrace West/Middle/East	A/B/C	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	9:30:00		Upper Tailrace West/Middle/East	A/B/C	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	10:30:00		Upper Tailrace West/Middle/East	A/B/C	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	11:30:00		Upper Tailrace West/Middle/East	A/B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A	up	stay		67.2	3	2,3,4,5,6,7				
21-109 (A1)	09-May-10	12:30:00		Upper Tailrace West/Middle/East	A/B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	13:30:00		Upper Tailrace West/Middle/East	A/B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	14:30:00		Upper Tailrace West/Middle/East	A/B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	15:30:00		Upper Tailrace West/Middle	A/B	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	15:39:56		*A* Gate Aerial	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	15:40:50		*A* Gate Aerial	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	16:19:57		*C* Gate Aerial	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	16:22:56		*A* Gate Aerial	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	16:30:00		Upper Tailrace Middle/East	B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	17:10:41		*A* Gate Aerial	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	17:11:40		*A* Gate Aerial	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	17:30:00		Upper Tailrace West/Middle/East	A/B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	18:30:00		Upper Tailrace Middle/East	B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	19:30:00		Upper Tailrace Middle/East	B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	19:39:11		*C* Gate Aerial	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	19:40:41		*C* Gate Aerial	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	20:30:00		Upper Tailrace Middle/East	B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	21:30:00		Upper Tailrace West/Middle/East	A/B/C	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A	down	stay		67.2	1	2,5				
21-109 (A1)	09-May-10	22:30:00		Upper Tailrace West/Middle/East	A/B/C	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
21-109 (A1)	09-May-10	23:30:00		Upper Tailrace West/Middle	A/B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
21-109 (A1)	10-May-10	0:30:00		Upper Tailrace West/Middle	A/B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	1:30:00		Upper Tailrace West/Middle	A/B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	2:30:00		Upper Tailrace West/Middle	A/B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	3:30:00		Upper Tailrace West/Middle	A/B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	4:30:00		Upper Tailrace West/Middle/East	A/B/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	5:30:00		Upper Tailrace Middle/East	B/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	6:30:00		Upper Tailrace Middle/East	B/C	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C	up	stay		64.5	3	2,5,6,7,8			
21-109 (A1)	10-May-10	7:30:00		Upper Tailrace Middle/East	B/C	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5					
21-109 (A1)	10-May-10	8:30:00		Upper Tailrace Middle/East	B/C	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5					
21-109 (A1)	10-May-10	9:30:00		Upper Tailrace Middle/East	B/C	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5					
21-109 (A1)	10-May-10	10:30:00		Upper Tailrace West/Middle/East	A/B/C	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A	down	stay		64.5	2	2,5,6,7				
21-109 (A1)	10-May-10	11:30:00		Upper Tailrace West/Middle/East	A/B/C	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	12:30:00		Upper Tailrace West/Middle/East	A/B/C	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	13:30:00		Upper Tailrace West/Middle/East	A/B/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5				
21-109 (A1)	10-May-10	14:30:00		Upper Tailrace West/Middle/East	A/B/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	15:30:00		Upper Tailrace Middle	B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	16:30:00		Upper Tailrace West/Middle	A/B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	17:30:00		Upper Tailrace West/Middle	A/B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-109 (A1)	10-May-10	18:30:00		Upper Tailrace West/Middle	A/B	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C	up	stay		64.5	4	2,5,6,7,8,9			More detections happening in zone C
21-109 (A1)	10-May-10	19:14:06		*C* Gate Aerial	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
21-109 (A1)	10-May-10	19:30:00		Upper Tailrace Middle/East	B/C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
21-109 (A1)	10-May-10	19:38:57		*A* Gate Aerial	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
21-109 (A1)	10-May-10	20:30:00		Upper Tailrace East	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
21-109 (A1)	10-May-10	21:30:00		Upper Tailrace East	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
21-109 (A1)	10-May-10	22:30:00		Upper Tailrace East	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5				
21-109 (A1)	10-May-10	23:30:00		Upper Tailrace East	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-109 (A1)	11-May-10	0:30:00		Upper Tailrace Middle/East	B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-109 (A1)	11-May-10	1:30:00		Upper Tailrace West/Middle/East	A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-109 (A1)	11-May-10	2:03:09		Conowingo Tailrace Unit 7 (Mid-Field)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2				3		
21-109 (A1)	11-May-10	2:13:27		Rowland Island West (Near-Field)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down		63.2	1	2,5				
21-109 (A1)	11-May-10	2:26:36		Rowland Island West (Near-Field)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-109 (A1)	11-May-10	4:26:58		Spencer Island West (Near-Field)		9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-109 (A1)	11-May-10	5:00:52		Lapidum (West Shore) (Near-Field)		9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-115 (A1)	22-Apr-10	12:10:00	Conowingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-115 (A1)	22-Apr-10	12:15:26	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-115 (A1)	22-Apr-10	12:16:46	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					Fish spent only 5mins downstream after release. Not similar to others	
21-115 (A1)	22-Apr-10	12:17:43	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		up		58.1	1	5,7				
21-115 (A1)	22-Apr-10	12:18:51	Conowingo Tailrace Unit 5 (Mid-Field)	Start Spillway/Transition	B/D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-115 (A1)	22-Apr-10	12:18:57	Conowingo East Spillway Corner (Near-Field)	Start East Spillway Corner	D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7				
21-115 (A1)	22-Apr-10	12:30:00		spillway	D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7				
21-115 (A1)	22-Apr-10	12:30:21	Conowingo East Spillway Corner (Near-Field)	End East Spillway Corner	D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7				
21-115 (A1)	22-Apr-10	12:32:19	"A" Gate Aerial	End Spillway/Transition	D/C	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-115 (A1)	22-Apr-10	13:03:53	Conowingo Tailrace Units 1-7 Master	End Upper Tailrace Detection (End UT Foray 1)		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-115 (A1)	22-Apr-10	13:30:00	Conowingo Tailrace Units 1-7 Master			11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-115 (A1)	22-Apr-10	14:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-115 (A1)	22-Apr-10	15:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-115 (A1)	22-Apr-10	15:44:12	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		down		58.1	1	5,7				
21-115 (A1)	22-Apr-10	16:00:25	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-115 (A1)	22-Apr-10	19:25:47	Spencer Island West (Near-Field)	Start Lower River		59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up	stay		58.1	6	2,3,4,5,6,7,8,9,11			Increase amounts of gen, upstream movement	
21-115 (A1)	12-May-10	5:39:01	Lapidum (West Shore) (Near-Field)	End Lower River		42770	0	4930	6180	5950	4940	5880	6130	8760	8760	0	0	0	None	C	down	stay	60.2	4	2,3,4,5,6,7,8				
21-115 (A1)	12-May-10	17:38:20	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	down	stay		60.2	1	2,5,7				
21-115 (A1)	12-May-10	18:23:24	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	0	None	C	up	stay	60.2	7	1,2,3,4,5,6,7,8,9,10,11			
21-115 (A1)	12-May-10	18:30:00		Upper Tailrace/Middle / Rowland Island West	B/E	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	0	None	C	up		60.2	7	1,2,3,4,5,6,7,8,9,10,11			
21-115 (A1)	12-May-10	19:18:19	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	0	None	C			60.2					2nd Foray after a significant Gen change
21-115 (A1)	12-May-10	19:30:00		Upper Tailrace West/Middle	A/B	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	0	None	C			60.2					
21-115 (A1)	12-May-10	20:30:00		Upper Tailrace West/Middle	A/B	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	0	None	C			60.2					
21-115 (A1)	12-May-10	20:38:11	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	0	None	C			60.2					
21-115 (A1)	12-May-10	20:48:56	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	0	None	C	down		60.2	7	1,2,3,4,5,6,7,8,9,10,11			
21-115 (A1)	12-May-10	21:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	0	None	C			60.2					
21-115 (A1)	12-May-10	22:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	0	None	C			60.2					
21-115 (A1)	12-May-10	23:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	0	None	C			60.2					
21-115 (A1)	13-May-10	0:30:00				41450	0	3970	6180	5980	4550	5830	6160	8780	0	0	0	None	C	down	stay		58.8	4	2,3,4,5,6,7,8				
21-115 (A1)	13-May-10	1:30:00				41450	0	3970	6180	5980	4550	5830	6160	8780	0	0	0	None	C				58.8						
21-115 (A1)	13-May-10	2:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay		58.8	1	2,3,4,5,6,7,8				
21-115 (A1)	13-May-10	3:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	4:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	5:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	6:30:00	Rowland Island West		E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	7:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	8:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	9:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	9:34:08	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	10:03:40	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		up		58.8	1	2,5				
21-115 (A1)	13-May-10	10:30:00		Upper Tailrace West/Middle	A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	11:30:00		Upper Tailrace West/Middle	A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	12:30:00		Upper Tailrace West/Middle	A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	13:30:00		Upper Tailrace West/Middle/East	A/B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	13:46:45	"C" Gate Aerial	Start EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	13:47:38	"C" Gate Aerial	End EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	14:30:00		Upper Tailrace West/Middle/East	A/B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	15:30:00		Upper Tailrace West/Middle	A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	16:25:09	"A" Gate Aerial	Start EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-115 (A1)	13-May-10	16:30:00		Upper Tailrace Middle/East	B/C	8520																							



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-115 (A1)	14-May-10	20:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-115 (A1)	14-May-10	21:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-115 (A1)	14-May-10	22:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-115 (A1)	14-May-10	23:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A	down	stay		58.4	1	2,5			
21-115 (A1)	15-May-10	0:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	1:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	2:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	3:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	4:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	5:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	6:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	up	stay		60.4	3	2,3,4,5,6,7			
21-115 (A1)	15-May-10	7:30:00		Upper Tailrace West/Middle	A/B	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	8:02:50	C* Gate Aerial	Start EFL Aerial Detection	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	8:30:00		Upper Tailrace Middle/East	B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	8:42:00	A* Gate Crowder Dropper	Start EFL		32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	9:30:00		Upper Tailrace West/East	A/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	10:30:00		Upper Tailrace East	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	11:30:00		Upper Tailrace East	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	12:30:00		Upper Tailrace East	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	13:03:43	C* Gate Entrance Dropper	End EFL		32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	13:07:20	C* Gate Aerial	End EFL Aerial Detection	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	13:30:00		Upper Tailrace East	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	14:30:00		Upper Tailrace Middle	B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C	up	stay		60.4	6	1,2,3,4,5,6,7,9,10,11			
21-115 (A1)	15-May-10	15:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
21-115 (A1)	15-May-10	16:24:16	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4				3	
21-115 (A1)	15-May-10	16:30:00		Upper Tailrace West/Middle/East	A/B/C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
21-115 (A1)	15-May-10	17:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
21-115 (A1)	15-May-10	18:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
21-115 (A1)	15-May-10	19:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
21-115 (A1)	15-May-10	20:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	stay		60.4	3	2,3,4,5,6,7			
21-115 (A1)	15-May-10	21:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	22:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	15-May-10	23:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-115 (A1)	16-May-10	0:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A	down	stay		63.6	1	5,7			
21-115 (A1)	16-May-10	1:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
21-115 (A1)	16-May-10	2:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
21-115 (A1)	16-May-10	3:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
21-115 (A1)	16-May-10	4:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
21-115 (A1)	16-May-10	5:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	up	stay		63.6	4	2,3,4,5,6,7,8			
21-115 (A1)	16-May-10	6:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-115 (A1)	16-May-10	6:54:42	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		down		63.6	4	2,3,4,5,6,7,8			
21-115 (A1)	16-May-10	7:06:43	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-115 (A1)	16-May-10	7:10:50	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		up		63.6	4	2,3,4,5,6,7,8			
21-115 (A1)	16-May-10	7:28:36	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	A	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6				1	
21-115 (A1)	16-May-10	7:30:00		Upper Tailrace West/Middle/ Rowland Island West	A/B/E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-115 (A1)	16-May-10	8:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-115 (A1)	16-May-10	8:48:07	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		down		63.6	4	2,3,4,5,6,7,8			
21-115 (A1)	16-May-10	9:30:00		Rowland Island West	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-115 (A1)	16-May-10	10:30:00		Rowland Island West	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-115 (A1)	16-May-10	11:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-115 (A1)	16-May-10	11:33:53	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-115 (A1)	16-May-10	12:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					Foray 5???
21-115 (A1)	16-May-10	13:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-115 (A1)	16-May-10	13:56:03	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		up		63.6	4	2,3,4,5,6,7,8			
21-115 (A1)	16-May-10	14:30:00		Rowland Island West	A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					Zone E???
21-115 (A1)	16-May-10	14:56:12	Conowingo Tailrace Unit 5 (Mid-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-115 (A1)	16-May-10	16:51:26	Spencer Island West (Near-Field)	Start Lower River		41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-115 (A1)	04-Jun-10	9:51:57	Lapidum (West Shore) (Near-Field)	End Detections																								

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-116 (A1)	22-Apr-10	12:34:00	Conowingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	12:34:00	Conowingo Tailrace Unit 7 (Mid-Field)	Start Tailrace Detection 1	B													None	A				58.1						
21-116 (A1)	22-Apr-10	1:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	2:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	3:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	4:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	5:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	6:30:00				23530	0	0	0	5910	5200	6060	6360	0	0	0	0	None	A	up	stay		58.1	2	4,5,6,7				
21-116 (A1)	22-Apr-10	7:30:00				23530	0	0	0	5910	5200	6060	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	8:30:00				23530	0	0	0	5910	5200	6060	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	9:30:00				23530	0	0	0	5910	5200	6060	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	10:30:00				40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C	up	stay		58.1	4	4,5,6,7,8,9				
21-116 (A1)	22-Apr-10	11:30:00				40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C				58.1						
21-116 (A1)	22-Apr-10	12:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		58.1	1	5,7				
21-116 (A1)	22-Apr-10	13:30:00			B/C	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	13:34:00	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					First 12hrs after release up stream movement	
21-116 (A1)	22-Apr-10	14:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	15:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	16:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1						
21-116 (A1)	22-Apr-10	17:30:00			B/E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up	stay		58.1	6	2,3,4,5,6,7,8,9,11				
21-116 (A1)	22-Apr-10	18:30:00				59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1						
21-116 (A1)	22-Apr-10	19:30:00			B/C/D	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1						
21-116 (A1)	22-Apr-10	20:30:00			A/B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1						
21-116 (A1)	22-Apr-10	20:42:33	Conowingo Tailrace Unit 5 (Mid-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1						
21-116 (A1)	22-Apr-10	20:55:38	Rowland Island West (Near-Field)	End Upper Tailrace Detection (End UT Foray 1)	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C		down		58.1	6	2,3,4,5,6,7,8,9,11	4			
21-116 (A1)	22-Apr-10	21:03:37	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1					Downstream movement followed by increased flows	
21-116 (A1)	22-Apr-10	23:50:23	Spencer Island East (Near-Field)	Start Lower River		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		58.1	1	5,7				
21-116 (A1)	26-Apr-10	7:52:55	Spencer Island East (Near-Field)	End Lower River		40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C	up	stay		60.9	4	4,5,6,7,8,9			
21-116 (A1)	26-Apr-10	13:41:33	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C				60.9					
21-116 (A1)	26-Apr-10	14:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C			60.9						
21-116 (A1)	26-Apr-10	14:40:48	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C				60.9					
21-116 (A1)	26-Apr-10	15:25:04	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C		up		60.9	4	4,5,6,7,8,9			
21-116 (A1)	26-Apr-10	15:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C				60.9					
21-116 (A1)	26-Apr-10	16:30:00			B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C				60.9					
21-116 (A1)	26-Apr-10	17:30:00			B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C				60.9					
21-116 (A1)	26-Apr-10	18:30:00			B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C				60.9					staying in tailrace
21-116 (A1)	26-Apr-10	19:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C				60.9					
21-116 (A1)	26-Apr-10	20:22:53	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C				60.9					
21-116 (A1)	26-Apr-10	20:29:06	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C		down		60.9	4	4,5,6,7,8,9			
21-116 (A1)	26-Apr-10	20:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C		up		60.9	4	4,5,6,7,8,9			
21-116 (A1)	26-Apr-10	21:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	0	None	C				60.9					
21-116 (A1)	26-Apr-10	22:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A	down	down		60.9	1	5,7				
21-116 (A1)	26-Apr-10	23:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9						
21-116 (A1)	27-Apr-10	0:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6						
21-116 (A1)	27-Apr-10	1:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6						
21-116 (A1)	27-Apr-10	2:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6						
21-116 (A1)	27-Apr-10	3:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6						
21-116 (A1)	27-Apr-10	4:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6						
21-116 (A1)	27-Apr-10	5:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6						
21-116 (A1)	27-Apr-10	6:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6						
21-116 (A1)	27-Apr-10	7:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6						



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-116 (A1)	28-Apr-10	7:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-116 (A1)	28-Apr-10	8:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-116 (A1)	28-Apr-10	9:30:00				22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	up	stay		58.6	2	4,5,6,7			
21-116 (A1)	28-Apr-10	10:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		58.6	4	4,5,6,7,8,9			
21-116 (A1)	28-Apr-10	11:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	12:08:19	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C		up		58.6	4	4,5,6,7,8,9			
21-116 (A1)	28-Apr-10	12:30:00			A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	13:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	14:30:00			B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	15:30:00			B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	16:30:00			B/C	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	17:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	18:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	19:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	20:30:00			A	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	21:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	22:30:00			B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	28-Apr-10	23:30:00			B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-116 (A1)	29-Apr-10	0:30:00			B/C	23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A	down	stay		56.8	2	3,5,6,7			
21-116 (A1)	29-Apr-10	1:30:00			B	23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				56.8					
21-116 (A1)	29-Apr-10	2:30:00			B	23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				56.8					
21-116 (A1)	29-Apr-10	3:30:00			A/B/C	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		56.8	1	5,7			
21-116 (A1)	29-Apr-10	4:30:00			A/B/C	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
21-116 (A1)	29-Apr-10	5:30:00			B/C	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
21-116 (A1)	29-Apr-10	6:30:00			A/B/C	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
21-116 (A1)	29-Apr-10	7:30:00			A/B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
21-116 (A1)	29-Apr-10	8:30:00			B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
21-116 (A1)	29-Apr-10	9:30:00			B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
21-116 (A1)	29-Apr-10	10:30:00			B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
21-116 (A1)	29-Apr-10	11:30:00			B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					decrease in Gen, Seems like more activity in middle
21-116 (A1)	29-Apr-10	12:30:00			B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
21-116 (A1)	29-Apr-10	13:30:00			B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C	up	stay		56.8	6	1,2,3,4,5,6,7,8,9,10			
21-116 (A1)	29-Apr-10	14:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-116 (A1)	29-Apr-10	15:30:00			B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-116 (A1)	29-Apr-10	16:30:00			B/C	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-116 (A1)	29-Apr-10	17:30:00			A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-116 (A1)	29-Apr-10	18:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-116 (A1)	29-Apr-10	19:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-116 (A1)	29-Apr-10	20:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-116 (A1)	29-Apr-10	21:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-116 (A1)	29-Apr-10	22:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-116 (A1)	29-Apr-10	23:30:00			B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		56.8	1	5,7			
21-116 (A1)	30-Apr-10	0:30:00			B	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					
21-116 (A1)	30-Apr-10	1:30:00			B/C	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					
21-116 (A1)	30-Apr-10	2:30:00			A/B/C	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					
21-116 (A1)	30-Apr-10	3:30:00			A/B/C	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					Decreased Gen, more of a scattering effect in tail race
21-116 (A1)	30-Apr-10	4:30:00			B/C	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					
21-116 (A1)	30-Apr-10	5:30:00			A/B/C	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					
21-116 (A1)	30-Apr-10	5:49:27	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	40210	0	0	0	5810	5030	5640	6180	8690	8770	0	90	None	C	up	stay		57.0	4	4,5,6,7,8,9	3		
21-116 (A1)	NA	NA	NA	Transition Downstream 4 (Upper Tailrace to Tailrace)														None					57.0					
21-116 (A1)	NA	NA	NA	End Tailrace Detection 2														None					57.0					
21-116 (A1)	30-Apr-10	13:35:00	Bird Island Ledge (just Downstream of Bird Island)	Transition Downstream between Tailrace & Lower River		56410	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	90	None	C	up	stay		57.0	6	1,2,3,4,5,6,7,8,9,11			
21-116 (A1)	30-Apr-10	21:44:50	Tomes Landing (East Shore) (Near-Field)	Start Lower River		56410	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	90	None	C				57.0					
21-116 (A1)	06-May-10	12:26:18	Lapidum (West Shore) (Near-Field)	End Lower River		10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		69.5	1	3,5			
21-116 (A1)	06-May-10	18:19:35	Rowland Island West (Near-Field)	Start Tailrace Detection 3	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	down		69.5	7	2,3,4,5,6,7,8,9,10,11			
21-116 (A1)	06-May-10	18:21:40	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5					
21-116 (A1)	06-May-10	18:30:00			E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5					
21-116 (A1)	06-May-10	18:54:24	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C		up		69.5	7	2,3,4,5,6,7,8,9,10,11			
21-116 (A1)	06-May-10	19:30:00			A/B/C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590											

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-116 (A1)	07-May-10	8:13:28	"A" Gate Aerial	Start EFL Aerial Detection	C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C	up	stay		69.4	4	2,4,5,6,7,8				
21-116 (A1)	07-May-10	8:18:42	"A" Gate Aerial	End EFL Aerial Detection	C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
21-116 (A1)	07-May-10	8:30:00			A/B/C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
21-116 (A1)	07-May-10	8:31:32	"A" Gate Aerial	Start EFL Aerial Detection	C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
21-116 (A1)	07-May-10	8:39:29	"A" Gate Aerial	End EFL Aerial Detection	C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
21-116 (A1)	07-May-10	9:30:00			A/B	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
21-116 (A1)	07-May-10	10:30:00			B/E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
21-116 (A1)	07-May-10	11:30:00			A/B/C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
21-116 (A1)	07-May-10	12:01:56	"A" Gate Aerial	Start EFL Aerial Detection	C	43490	0	4570	6010	5860	5410	6530	6410	8700	0	0	0	None	C	up	stay		69.4	4	2,3,4,5,6,7				
21-116 (A1)	07-May-10	12:05:40	"A" Gate Aerial	End EFL Aerial Detection	C	43490	0	4570	6010	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
21-116 (A1)	07-May-10	12:09:39	"C" Gate Aerial	Start EFL Aerial Detection	C	43490	0	4570	6010	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
21-116 (A1)	07-May-10	12:11:50	"C" Gate Aerial	End EFL Aerial Detection	C	43490	0	4570	6010	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
21-116 (A1)	07-May-10	12:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		69.4	6	2,3,4,5,6,7,8,9,11				
21-116 (A1)	07-May-10	13:20:56	"A" Gate Aerial	Start EFL Aerial Detection	C	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay		69.4	5	2,4,5,6,7,8,9,11				
21-116 (A1)	07-May-10	13:22:06	"A" Gate Aerial	End EFL Aerial Detection	C	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-116 (A1)	07-May-10	13:24:33	"C" Gate Aerial	Start EFL Aerial Detection	C	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-116 (A1)	07-May-10	13:30:00			B/C	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-116 (A1)	07-May-10	13:58:43	"A" Gate Crowder Dropper	Start EFL	C	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-116 (A1)	07-May-10	14:19:54	"A" Gate Entrance Dropper	End EFL	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		69.4	6	2,3,4,5,6,7,8,9,11				
21-116 (A1)	07-May-10	14:21:55	"C" Gate Aerial	End EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-116 (A1)	07-May-10	14:30:00			C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-116 (A1)	07-May-10	15:30:00			B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-116 (A1)	07-May-10	16:30:00			B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-116 (A1)	07-May-10	17:30:00			B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-116 (A1)	07-May-10	18:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-116 (A1)	07-May-10	19:05:05	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	A	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4					3	
21-116 (A1)	07-May-10	19:18:52	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C		down		69.4	6	2,3,4,5,6,7,8,9,11				
21-116 (A1)	07-May-10	19:30:00			A/B/E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C		up		69.4	6	2,3,4,5,6,7,8,9,11				
21-116 (A1)	07-May-10	20:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-116 (A1)	07-May-10	21:30:00				34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	None	A	down	stay		69.4	3	2,3,4,5,6,7				
21-116 (A1)	07-May-10	22:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay		69.4	2	2,4,5,7				
21-116 (A1)	07-May-10	23:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				69.4						
21-116 (A1)	08-May-10	0:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		69.2	1	2,5				
21-116 (A1)	08-May-10	1:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
21-116 (A1)	08-May-10	2:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
21-116 (A1)	08-May-10	3:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
21-116 (A1)	08-May-10	4:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
21-116 (A1)	08-May-10	5:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
21-116 (A1)	08-May-10	6:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		down		69.2	1	2,5				
21-116 (A1)	08-May-10	7:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
21-116 (A1)	08-May-10	8:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
21-116 (A1)	08-May-10	9:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
21-116 (A1)	08-May-10	10:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
21-116 (A1)	08-May-10	11:18:49	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	0	None	C	up	stay		69.2	4	2,5,6,7,8,9			
21-116 (A1)	08-May-10	11:25:16	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	A	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C		up		69.2	4	2,5,6,7,8,9				
21-116 (A1)	08-May-10	11:30:00			A/B/E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
21-116 (A1)	08-May-10	12:30:00			A/B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
21-116 (A1)	08-May-10	13:30:00			B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
21-116 (A1)	08-May-10	14:30:00			A/B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C		</								

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-116 (A1)	09-May-10	15:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-116 (A1)	09-May-10	16:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-116 (A1)	09-May-10	17:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-116 (A1)	09-May-10	18:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-116 (A1)	09-May-10	19:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-116 (A1)	09-May-10	20:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-116 (A1)	09-May-10	21:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A	down	stay		67.2	3	2,5			
21-116 (A1)	09-May-10	22:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-116 (A1)	09-May-10	23:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-116 (A1)	10-May-10	0:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	1:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	2:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	3:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	4:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	5:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	6:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C	up	stay		64.5	3	2,5,6,7,8			
21-116 (A1)	10-May-10	7:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5					
21-116 (A1)	10-May-10	8:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5					
21-116 (A1)	10-May-10	9:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5					
21-116 (A1)	10-May-10	10:30:00				21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A	down	stay		64.5	2	2,5,6,7			
21-116 (A1)	10-May-10	11:30:00			E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	12:03:56	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	12:19:22	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	A	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A		up		64.5	2	2,5,6,7			
21-116 (A1)	10-May-10	12:30:00			A/E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	13:07:29	"A" Gate Aerial	Start EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5,6,7			
21-116 (A1)	10-May-10	13:11:09	"A" Gate Entrance Dropper	Start EFL	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	13:13:21	"A" Gate Entrance Dropper	End EFL	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	13:16:09	"A" Gate Aerial	End EFL Aerial Detection	C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	13:30:00			C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	14:30:00			B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	15:30:00			A/B/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	16:30:00			B/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	17:30:00			A/B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	10-May-10	18:30:00			B/C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	stay		64.5	4	2,5,6,7,8,9			
21-116 (A1)	10-May-10	19:00:09	"A" Gate Aerial	Start EFL Aerial Detection	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-116 (A1)	10-May-10	19:03:22	"A" Gate Aerial	End EFL Aerial Detection	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-116 (A1)	10-May-10	19:30:00			A/B/C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-116 (A1)	10-May-10	20:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-116 (A1)	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-116 (A1)	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5			
21-116 (A1)	10-May-10	23:30:00			B/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-116 (A1)	11-May-10	0:30:00			A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	1:30:00			A/B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	2:30:00			A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	3:30:00			A/B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	4:30:00			A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	5:30:00			A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	6:30:00			A/B	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	stay		63.2	4	2,5,6,7,8,9			
21-116 (A1)	11-May-10	7:30:00			A/B/C	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-116 (A1)	11-May-10	8:30:00			B	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-116 (A1)	11-May-10	9:30:00			B	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-116 (A1)	11-May-10	10:30:00			A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		63.2	1	2,5			
21-116 (A1)	11-May-10	11:30:00			A/B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	12:11:33	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	12:19:15	"A" Gate Entrance Dropper	Single EFL Peek - Don't Count	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	12:24:00	"A" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	12:30:00			C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	12:50:50	"C" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	12:51:45	"C" Gate Aerial	End EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	13:30:00			A/B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-116 (A1)	11-May-10	14:05:05	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-116 (A1)	12-May-10	5:30:00			E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up	stay		60.2	4	2,3,4,5,6,7,8				
21-116 (A1)	12-May-10	6:15:10	Rowland Island West (Near-Field)	Transition Upstream 10 (Tailrace to Upper Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						
21-116 (A1)	12-May-10	6:30:00			A	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C		up		60.2	4	2,3,4,5,6,7,8				
21-116 (A1)	12-May-10	7:12:53	Conowingo Tailrace Units 1-7 Master	Start Upper Tailrace Detection (Start UT Foray 10)	A	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						
21-116 (A1)	12-May-10	7:30:00			A	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						
21-116 (A1)	12-May-10	8:30:00			B/C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					Inceased Gen, More activity in the A zone	
21-116 (A1)	12-May-10	9:30:00			A	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						
21-116 (A1)	12-May-10	10:24:04	"A" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	down	stay		60.2	1	2,5,7				
21-116 (A1)	12-May-10	10:30:00			B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
21-116 (A1)	12-May-10	10:31:37	"A" Gate Entrance Dropper	Start EFL	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
21-116 (A1)	12-May-10	10:35:47	"A" Gate Entrance Dropper	End EFL	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
21-116 (A1)	12-May-10	10:43:18	"C" Gate Aerial	End EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
21-116 (A1)	12-May-10	11:23:26	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 10)	B	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2			3	Was in A gate then backout and dropped downstream		
21-116 (A1)	12-May-10	11:30:00			A/B	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
21-116 (A1)	12-May-10	11:37:21	Rowland Island West (Near-Field)	Transition Downstream 10 (Upper Tailrace to Tailrace)	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A		down		60.2	1	2,5,7				
21-116 (A1)	12-May-10	12:30:00			E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
21-116 (A1)	12-May-10	13:30:00			E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
21-116 (A1)	12-May-10	14:30:00			E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
21-116 (A1)	12-May-10	15:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
21-116 (A1)	12-May-10	16:30:00			E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
21-116 (A1)	12-May-10	17:30:00			E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
21-116 (A1)	12-May-10	17:33:42	Rowland Island West (Near-Field)	End Tailrace Detection 3	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
																													****the bulk of this fishes Foray times are late in the day****



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-129 (A1)	22-Apr-10	13:37:00	Conowingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				56.8					
21-129 (A1)	22-Apr-10	13:37:00	Downstream Units 5 & 7 (Release Area)	Start Tailrace Detection 1		0												None	A				56.8					
21-129 (A1)	22-Apr-10	19:11:54	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up	down		56.8	6	2,3,4,5,6,7,8,9,11			
21-129 (A1)	22-Apr-10	19:30:00			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				56.8					
21-129 (A1)	22-Apr-10	20:30:00			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				56.8					
21-129 (A1)	22-Apr-10	21:30:00			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				56.8					
21-129 (A1)	22-Apr-10	22:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		56.8	1	5,7			Decrease in Gen, Downstream movement
21-129 (A1)	22-Apr-10	23:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				56.8					
21-129 (A1)	23-Apr-10	1:06:39	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	1:21:45	Conowingo East Spillway Corner (Near-Field)	Start Spillway/Transition	D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	1:30:00			E/D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	2:30:00			B/D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	3:30:00			D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	4:30:00			D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	5:30:00			D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	5:39:47	Conowingo East Spillway Corner (Near-Field)	End Spillway/Transition	D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7			1		In spillway, no gen change
21-129 (A1)	23-Apr-10	5:54:23	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	24-Apr-10	2:18:43	Rowland Island West (Near-Field)	Transition Downstream 2 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	2:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	2:46:24	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	3:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	4:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	4:43:38	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6			1		Stay in unit area, no gen change
21-129 (A1)	24-Apr-10	5:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	6:04:53	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	6:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	6:50:54	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	7:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	8:01:04	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					No change in Gen during Foray 2
21-129 (A1)	24-Apr-10	8:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	9:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	9:34:42	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6			1		Stay in unit area, no gen change
21-129 (A1)	24-Apr-10	10:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	11:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	12:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	12:37:05	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	13:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	14:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	15:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	16:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	17:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	18:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	19:30:00			E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A	up	stay		60.6	2	4,5,6,7			
21-129 (A1)	24-Apr-10	20:30:00			E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	21:30:00			E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	22:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A	down	stay		60.6	1	5,7			
21-129 (A1)	24-Apr-10	23:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	25-Apr-10	0:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-129 (A1)	25-Apr-10	1:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-129 (A1)	25-Apr-10	2:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-129 (A1)	25-Apr-10	3:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-129 (A1)	25-Apr-10	4:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-129 (A1)	25-Apr-10	5:30:00			E	11250	0	0	0	0	5200	0	6050	0	0													



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-129 (A1)	26-Apr-10	11:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-129 (A1)	26-Apr-10	12:30:00			B/E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-129 (A1)	26-Apr-10	13:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-129 (A1)	26-Apr-10	14:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-129 (A1)	26-Apr-10	15:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-129 (A1)	26-Apr-10	16:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-129 (A1)	26-Apr-10	17:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-129 (A1)	26-Apr-10	18:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-129 (A1)	26-Apr-10	19:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-129 (A1)	26-Apr-10	20:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-129 (A1)	26-Apr-10	21:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-129 (A1)	26-Apr-10	22:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A	down	stay		60.9	1	5,7			
21-129 (A1)	26-Apr-10	23:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
21-129 (A1)	27-Apr-10	0:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	1:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	2:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	3:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	4:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	5:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	6:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	7:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	8:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	9:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	stay		60.6	2	4,5,6,7			
21-129 (A1)	27-Apr-10	10:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	11:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	12:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	13:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A	down	stay		60.6	1	5,6			
21-129 (A1)	27-Apr-10	14:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	15:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	16:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay		60.6	6	2,3,4,5,6,7,8,9,11			
21-129 (A1)	27-Apr-10	17:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-129 (A1)	27-Apr-10	18:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-129 (A1)	27-Apr-10	19:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-129 (A1)	27-Apr-10	20:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-129 (A1)	27-Apr-10	21:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-129 (A1)	27-Apr-10	22:30:00			E	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A	down	stay		60.6	1	4,5			
21-129 (A1)	27-Apr-10	23:30:00			E	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A				60.6					
21-129 (A1)	28-Apr-10	0:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	1:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	2:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	3:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	4:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	5:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	6:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	6:52:27	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	7:21:24	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	7:30:00			B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	8:30:00			B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	8:40:29	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	9:17:28	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	up	up		58.7	2	4,5,6,7			
21-129 (A1)	28-Apr-10	9:30:00			E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	10:24:16	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	up		58.7	4	4,5,6,7,8,9			
21-129 (A1)	28-Apr-10	10:30:00			E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.7					
21-129 (A1)	28-Apr-10	11:30:00			E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.7					
21-129 (A1)	28-Apr-10	12:12:28	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.7					
21-129 (A1)	28-Apr-10	12:30:00			B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.7					
21-129 (A1)	28-Apr-10	13:30:00			E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.7					
21-129 (A1)	28-Apr-10	14:30:00			E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.7					
21-129 (A1)	28-Apr-10	15:30:00			E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.7					
21-129 (A1)	28-Apr-10	16:30:00			E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.7					
21-129 (A1)	28-Apr-10	17:30:00			E	40170	0	0	0																			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-129 (A1)	29-Apr-10	15:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-129 (A1)	29-Apr-10	16:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-129 (A1)	29-Apr-10	17:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-129 (A1)	29-Apr-10	18:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-129 (A1)	29-Apr-10	19:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-129 (A1)	29-Apr-10	20:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-129 (A1)	29-Apr-10	21:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-129 (A1)	29-Apr-10	22:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
21-129 (A1)	29-Apr-10	23:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A	down	stay		56.8	1	5,7		
21-129 (A1)	30-Apr-10	0:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A			57.1					
21-129 (A1)	30-Apr-10	1:30:00			B	11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A			57.1					
21-129 (A1)	30-Apr-10	2:30:00			E	11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A			57.1					
21-129 (A1)	30-Apr-10	3:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A			57.1					
21-129 (A1)	30-Apr-10	4:30:00			A/B	11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A			57.1					
21-129 (A1)	30-Apr-10	5:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	0	None	A			57.1					
21-129 (A1)	30-Apr-10	6:30:00			A/B	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	7:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	stay		57.1	5	4,5,6,7,8,9,11			
21-129 (A1)	30-Apr-10	8:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	9:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	10:30:00				49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	11:30:00			A/B	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	11:41:13	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	49120	0	0	0	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1				2	Fish stayed in tailrace during mutiple Gen combos
21-129 (A1)	30-Apr-10	12:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C	up	up		57.1	6	1,2,3,4,5,6,7,8,9,11			
21-129 (A1)	30-Apr-10	13:30:00	Downstream of Shures Landing	Transition Downstream 5 (Upper Tailrace to Tailrace)		65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	14:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	15:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	15:37:46	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	16:13:23	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	A	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	16:30:00			A	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	16:56:28	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1				2	Stay in unit area, no gen change
21-129 (A1)	30-Apr-10	17:24:13	Rowland Island East (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	17:30:00			E	65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	18:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	19:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	20:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	21:30:00				65320	5270	4940	5990	5810	5030	5640	6180	8690	8770	0	9000	None	C				57.1					
21-129 (A1)	30-Apr-10	22:30:00			E	9970	0	4940	0	0	5030	0	0	0	0	0	0	0	None	A	down	down		57.1	1	2,5		
21-129 (A1)	30-Apr-10	23:30:00			E	9970	0	4940	0	0	5030	0	0	0	0	0	0	0	None	A			57.1					
21-129 (A1)	01-May-10	0:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A			59.1					
21-129 (A1)	01-May-10	1:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A			59.1					
21-129 (A1)	01-May-10	2:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A			59.1					
21-129 (A1)	01-May-10	3:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A			59.1					
21-129 (A1)	01-May-10	4:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A			59.1					
21-129 (A1)	01-May-10	5:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A			59.1					
21-129 (A1)	01-May-10	6:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	0	None	A			59.1					
21-129 (A1)	01-May-10	7:30:00			E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C	up	stay		59.1	4	2,5,6,7,8,9		
21-129 (A1)	01-May-10	8:30:00			E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C			59.1					
21-129 (A1)	01-May-10	9:30:00			E	39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C			59.1					
21-129 (A1)	01-May-10	10:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C			59.1					
21-129 (A1)	01-May-10	11:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C			59.1					
21-129 (A1)	01-May-10	12:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	0	None	C			59.1					
21-129 (A1)	01-May-10	13:30:00			E	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C	up	stay		59.1	7	2,3,4,5,6,7,8,9,10,11			
21-129 (A1)	01-May-10	14:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-129 (A1)	01-May-10	15:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-129 (A1)	01-May-10	16:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-129 (A1)	01-May-10	17:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-129 (A1)	01-May-10	18:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-129 (A1)	01-May-10	19:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C									

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAIS
21-129 (A1)	02-May-10	20:30:00			E	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	02-May-10	21:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	02-May-10	22:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	02-May-10	23:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	03-May-10	0:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay		65.5	1,2,4				
21-129 (A1)	03-May-10	1:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	2:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	3:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	4:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	5:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	6:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	7:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	8:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	9:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	10:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	11:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	12:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up	stay		65.5	6	1,2,3,4,5,6,7,8,9,11			
21-129 (A1)	03-May-10	13:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5					
21-129 (A1)	03-May-10	14:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5					
21-129 (A1)	03-May-10	15:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5					
21-129 (A1)	03-May-10	16:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5					
21-129 (A1)	03-May-10	17:09:46	Rowland Island East (Near-Field)	End Tailrace Detection 1	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5				2	Stationary, then moves up/down with gen change
21-129 (A1)	03-May-10	19:51:34	Lapidum (West Shore) (Near-Field)	Start Lower River		73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C	up	stay		65.5	7	1,2,3,4,5,6,7,8,9,10,11			
21-129 (A1)	08-May-10	2:54:00	Spencer Island West (Near-Field)	End Lower River		9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	up		69.1	1	2,5			
21-129 (A1)	08-May-10	5:59:27	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1				1	stay
21-129 (A1)	08-May-10	6:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1					
21-129 (A1)	08-May-10	6:57:56	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1					
21-129 (A1)	08-May-10	7:29:27	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	A	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1					
21-129 (A1)	08-May-10	7:30:00			A	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1					
21-129 (A1)	08-May-10	8:30:00			B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1					
21-129 (A1)	08-May-10	9:30:00			B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1					
21-129 (A1)	08-May-10	10:20:16	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1					
21-129 (A1)	08-May-10	10:24:34	"A" Gate Entrance Dropper	Start EFL	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1					
21-129 (A1)	08-May-10	10:24:34	"A" Gate Entrance Dropper	End EFL	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1					
21-129 (A1)	08-May-10	10:26:46	"A" Gate Aerial	End EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1					
21-129 (A1)	08-May-10	10:30:00			A/B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.1					
21-129 (A1)	08-May-10	11:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	up	stay		69.1	4	2,5,6,7,8,9			
21-129 (A1)	08-May-10	11:50:42	"C" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	11:53:45	"C" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	12:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	13:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	14:30:00			A/B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	15:30:00			A/B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	15:30:58	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	15:59:47	Rowland Island East (Near-Field)	Transition Downstream 7 (Upper Tailrace to Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	16:18:43	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	16:29:18	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	A	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1				2	move up
21-129 (A1)	08-May-10	16:30:00			A/E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	17:14:07	"A" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	17:16:20	"A" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	17:18:48	"C" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	17:19:38	"C" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	17:30:00			B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	17:43:06	"A" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	17:58:28	"C" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	18:27:03	"A" Gate Entrance Dropper	Single EFL Peek - Don't Count	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	18:30:00			A/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	19:11:10	"A" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.1					
21-129 (A1)	08-May-10	19:20:56	"C" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0																			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAIS	
21-129 (A1)	09-May-10	11:08:35	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 11)	B	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A	up	up		67.2		3	2,3,4,5,6,7			
21-129 (A1)	09-May-10	11:30:00			A/B/E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	11:46:33	"C" Gate Aerial	Start EFL Aerial Detection	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	12:04:17	"C" Gate Upstream Dropper	Start EFL	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	12:30:00			C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	13:30:00			C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	13:32:03	"A" Gate Crowder Dropper	End EFL	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	13:43:56	"C" Gate Aerial	End EFL Aerial Detection	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	13:50:39	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 11)	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2			3	down then up after gen change		
21-129 (A1)	09-May-10	14:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	15:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	15:34:18	Rowland Island West (Near-Field)	Transition Downstream 11 (Upper Tailrace to Tailrace)	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	16:30:00			C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	17:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	18:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	19:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	20:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	21:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A	down	down		67.2		1	2,5			
21-129 (A1)	09-May-10	22:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
21-129 (A1)	09-May-10	23:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
21-129 (A1)	10-May-10	0:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-129 (A1)	10-May-10	1:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-129 (A1)	10-May-10	2:30:00			B/E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-129 (A1)	10-May-10	3:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-129 (A1)	10-May-10	4:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-129 (A1)	10-May-10	5:30:00			B/E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-129 (A1)	10-May-10	6:23:20	Rowland Island West (Near-Field)	Transition Upstream 12 (Tailrace to Upper Tailrace)	E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C	up	up		64.5		3	2,5,6,7,8		
21-129 (A1)	10-May-10	6:23:36	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 12)	B	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5					
21-129 (A1)	10-May-10	6:30:00			B/E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5					
21-129 (A1)	10-May-10	7:05:21	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 12)	B	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5			1	stay	
21-129 (A1)	10-May-10	7:30:00			A/B/C	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5					
21-129 (A1)	10-May-10	8:26:40	Rowland Island West (Near-Field)	Transition Downstream 12 (Upper Tailrace to Tailrace)	E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5					
21-129 (A1)	10-May-10	8:30:00			E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5					
21-129 (A1)	10-May-10	9:24:50	Rowland Island West (Near-Field)	Transition Upstream 13 (Tailrace to Upper Tailrace)	E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5					
21-129 (A1)	10-May-10	9:28:45	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 13)	A	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5					
21-129 (A1)	10-May-10	9:30:00			A/E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5					
21-129 (A1)	10-May-10	9:54:48	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 13)	B	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5			2	down then up	
21-129 (A1)	10-May-10	10:30:00				21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A	down	down		64.5		2	2,5,6,7			
21-129 (A1)	10-May-10	11:07:09	Rowland Island West (Near-Field)	Transition Downstream 13 (Upper Tailrace to Tailrace)	E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	0	None	A				64.5					
21-129 (A1)	10-May-10	11:30:00			E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5						
21-129 (A1)	10-May-10	12:30:00				21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5						
21-129 (A1)	10-May-10	12:44:03	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5						
21-129 (A1)	10-May-10	19:19:56	Spencer Island West (Near-Field)	Start Lower River		38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C	up	stay		64.5		4	2,5,6,7,8		
21-129 (A1)	10-May-10	19:32:42	Lapidum (West Shore) (Near-Field)	End Detections			0	4560	0	0	4860	6120	6120	8720	8550	0	0	0	None	C				64.5					



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-129 (A1)	22-Apr-10	13:37:00	Conowingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
21-129 (A1)	22-Apr-10	13:37:00	Downstream Units 5 & 7 (Release Area)	Start Tailrace Detection 1		0												None	A				58.1					
21-129 (A1)	22-Apr-10	19:11:54	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up	down		58.1	6	2,3,4,5,6,7,8,9,11			
21-129 (A1)	22-Apr-10	19:30:00			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1					
21-129 (A1)	22-Apr-10	20:30:00			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1					
21-129 (A1)	22-Apr-10	21:30:00			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1					
21-129 (A1)	22-Apr-10	22:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		58.1	1	5,7			Decrease in Gen, Downstream movement
21-129 (A1)	22-Apr-10	23:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
21-129 (A1)	23-Apr-10	1:06:39	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	1:21:45	Conowingo East Spillway Corner (Near-Field)	Start Spillway/Transition	D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	1:30:00			E/D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	2:30:00			B/D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	3:30:00			D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	4:30:00			D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	5:30:00			D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	23-Apr-10	5:39:47	Conowingo East Spillway Corner (Near-Field)	End Spillway/Transition	D	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7			1		In spillway, no gen change
21-129 (A1)	23-Apr-10	5:54:23	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-129 (A1)	24-Apr-10	2:18:43	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	2:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	2:46:24	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	3:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	4:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	4:43:38	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6			1		Stay in unit area, no gen change
21-129 (A1)	24-Apr-10	5:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	6:04:53	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	6:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	6:50:54	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	7:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	8:01:04	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					No change in Gen during Foray 2
21-129 (A1)	24-Apr-10	8:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	9:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	9:34:42	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6			1		Stay in unit area, no gen change
21-129 (A1)	24-Apr-10	10:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	11:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	12:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	12:37:05	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	13:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	14:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	15:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	16:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	17:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	18:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	19:30:00			E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A	up	stay		60.6	2	4,5,6,7			
21-129 (A1)	24-Apr-10	20:30:00			E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	21:30:00			E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	24-Apr-10	22:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A	down	stay		60.6	1	5,7			
21-129 (A1)	24-Apr-10	23:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-129 (A1)	25-Apr-10	0:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-129 (A1)	25-Apr-10	1:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-129 (A1)	25-Apr-10	2:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-129 (A1)	25-Apr-10	3:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-129 (A1)	25-Apr-10	4:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-129 (A1)	25-Apr-10	5:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0												



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-129 (A1)	26-Apr-10	2:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				61.0					
21-129 (A1)	26-Apr-10	3:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				61.0					
21-129 (A1)	26-Apr-10	4:30:00			B/E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				61.0					
21-129 (A1)	26-Apr-10	5:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C	up	stay		61.0	4	4,5,6,7,8,9			
21-129 (A1)	26-Apr-10	6:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	7:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	8:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	9:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	10:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	11:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	12:30:00			B/E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	13:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	14:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	15:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	16:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	17:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	18:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	19:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	20:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	21:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				61.0					
21-129 (A1)	26-Apr-10	22:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A	down	stay		61.0	1	5,7			
21-129 (A1)	26-Apr-10	23:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				61.0					
21-129 (A1)	27-Apr-10	0:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	1:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	2:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	3:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	4:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	5:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	6:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	7:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	8:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	9:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	stay		60.6	2	4,5,6,7			
21-129 (A1)	27-Apr-10	10:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	11:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	12:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	13:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A	down	stay		60.6	1	5,6			
21-129 (A1)	27-Apr-10	14:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	15:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
21-129 (A1)	27-Apr-10	16:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay		60.6	6	2,3,4,5,6,7,8,9,11			
21-129 (A1)	27-Apr-10	17:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-129 (A1)	27-Apr-10	18:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-129 (A1)	27-Apr-10	19:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-129 (A1)	27-Apr-10	20:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-129 (A1)	27-Apr-10	21:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-129 (A1)	27-Apr-10	22:30:00			E	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A	down	stay		60.6	1	4,5			
21-129 (A1)	27-Apr-10	23:30:00			E	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A				60.6					
21-129 (A1)	28-Apr-10	0:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	1:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	2:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	3:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	4:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	5:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	6:30:00			E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	6:52:27	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	7:21:24	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	7:30:00			B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	8:30:00			B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	8:40:29	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.7				1	Stay in unit area, no gen change
21-129 (A1)	28-Apr-10	9:17:28	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	up	up		58.7	2	4,5,6,7			
21-129 (A1)	28-Apr-10	9:30:00			E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A				58.7					
21-129 (A1)	28-Apr-10	10:24:16	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0												



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-129 (A1)	01-May-10	17:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-129 (A1)	01-May-10	18:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-129 (A1)	01-May-10	19:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-129 (A1)	01-May-10	20:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-129 (A1)	01-May-10	21:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
21-129 (A1)	01-May-10	22:30:00				40540	0	4600	6340	6060	0	0	6130	8700	8710	0	0	None	C	down	stay		59.1	4	2,3,4,7,8,9			
21-129 (A1)	01-May-10	23:30:00			E	10730	0	4600	0	0	0	0	6130	0	0	0	0	None	A	down			59.1	1	2,7			
21-129 (A1)	02-May-10	0:30:00			E	6430	0	4440	0	0	0	0	1990	0	0	0	0	None	A				62.5					
21-129 (A1)	02-May-10	1:30:00			E	9170	0	4440	0	0	0	0	4730	0	0	0	0	None	A				62.5					
21-129 (A1)	02-May-10	2:30:00			E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-129 (A1)	02-May-10	3:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-129 (A1)	02-May-10	4:30:00			E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-129 (A1)	02-May-10	5:30:00			E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-129 (A1)	02-May-10	6:30:00			E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-129 (A1)	02-May-10	7:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-129 (A1)	02-May-10	8:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-129 (A1)	02-May-10	9:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5					
21-129 (A1)	02-May-10	10:30:00			E	34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C	up			62.5	3	2,4,5,6,7,8,9			
21-129 (A1)	02-May-10	11:30:00			E	34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				62.5					
21-129 (A1)	02-May-10	12:30:00			E	34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				62.5					
21-129 (A1)	02-May-10	13:30:00			E	34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				62.5					
21-129 (A1)	02-May-10	14:30:00			E	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C	up			62.5	6	2,3,4,5,6,7,8,9,10,11			
21-129 (A1)	02-May-10	15:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	02-May-10	16:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	02-May-10	17:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	02-May-10	18:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	02-May-10	19:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	02-May-10	20:30:00			E	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	02-May-10	21:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	02-May-10	22:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	02-May-10	23:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5					
21-129 (A1)	03-May-10	0:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay		65.5	1	2,4			
21-129 (A1)	03-May-10	1:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	2:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	3:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	4:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	5:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	6:30:00			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	7:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	8:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	9:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	10:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	11:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5					
21-129 (A1)	03-May-10	12:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up	stay		65.5	6	1,2,3,4,5,6,7,8,9,11			
21-129 (A1)	03-May-10	13:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5					
21-129 (A1)	03-May-10	14:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5					
21-129 (A1)	03-May-10	15:30:00			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5					
21-129 (A1)	03-May-10	16:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5					
21-129 (A1)	03-May-10	17:09:46	Rowland Island East (Near-Field)	End Tailrace Detection 1	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5				2	Stationary, then moves up/down with gen change
21-129 (A1)	03-May-10	19:51:34	Lapidum (West Shore) (Near-Field)	Start Lower River		73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C	up	stay		65.5	7	1,2,3,4,5,6,7,8,9,10,11			
21-129 (A1)	08-May-10	2:54:00	Spencer Island West (Near-Field)	End Lower River		9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	up		69.2	1	2,5			
21-129 (A1)	08-May-10	5:59:27	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2			1	stay	
21-129 (A1)	08-May-10	6:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
21-129 (A1)	08-May-10	6:57:56	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
21-129 (A1)	08-May-10	7:29:27	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	A	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
21-129 (A1)	08-May-10	7:30:00			A	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
21-129 (A1)	08-May-10	8:30:00			B/C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
21-129 (A1)	08-May-10	9:30:00			B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
21-129 (A1)	08-May-10	10:20:16	"A" Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
21-129 (A1)	08-May-10	10:24:34	"A" Gate Entrance Dropper	Start EFL	C	9560	0	4570	0	0	4990																	



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-129 (A1)	08-May-10	16:29:18	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	A	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2			2		move up
21-129 (A1)	08-May-10	16:30:00			A/E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	17:14:07	"A" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	17:16:20	"A" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	17:18:48	"C" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	17:19:38	"C" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	17:30:00			B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	17:43:06	"A" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	17:58:28	"C" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	18:27:03	"A" Gate Entrance Dropper	Single EFL Peek - Don't Count	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	18:30:00			A/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	19:11:10	"A" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	19:20:56	"C" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	19:23:52	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	19:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	19:36:44	Rowland Island West (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	20:30:00			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	21:30:00			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-129 (A1)	08-May-10	22:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	down		69.2	1,2,5				
21-129 (A1)	08-May-10	23:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
21-129 (A1)	09-May-10	5:43:03	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	5:52:58	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2			3		moves down after gen change
21-129 (A1)	09-May-10	6:21:07	"A" Gate Aerial	Start EFL Aerial Detection	C	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	6:21:39	"A" Gate Aerial	End EFL Aerial Detection	C	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	6:30:00			A/B/C	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	7:07:49	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 9)	A	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2			3		moves up
21-129 (A1)	09-May-10	7:19:44	Rowland Island West (Near-Field)	Transition Downstream 9 (Upper Tailrace to Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	7:30:00			A/E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	8:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	9:10:25	Rowland Island West (Near-Field)	Transition Upstream 10 (Tailrace to Upper Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	9:21:19	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 10)	A	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					The past several Forays during decreased Gen
21-129 (A1)	09-May-10	9:30:00			A/B/E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	9:39:57	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 10)	A	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2			3		moves up, no gen change
21-129 (A1)	09-May-10	9:47:51	Rowland Island West (Near-Field)	Transition Downstream 10 (Upper Tailrace to Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	10:30:00			E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	11:00:36	Rowland Island West (Near-Field)	Transition Upstream 11 (Tailrace to Upper Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	11:08:35	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 11)	B	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A	up	up		67.2	3	2,3,4,5,6,7			
21-129 (A1)	09-May-10	11:30:00			A/B/E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	11:46:33	"C" Gate Aerial	Start EFL Aerial Detection	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	12:04:17	"C" Gate Upstream Dropper	Start EFL	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	12:30:00			C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	13:30:00			C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	13:32:03	"A" Gate Crowder Dropper	End EFL	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	13:43:56	"C" Gate Aerial	End EFL Aerial Detection	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	13:50:39	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 11)	C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2			3		down then up after gen change
21-129 (A1)	09-May-10	14:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	15:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	15:34:18	Rowland Island West (Near-Field)	Transition Downstream 11 (Upper Tailrace to Tailrace)	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	16:30:00			C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	17:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-129 (A1)	09-May-10	18:30:00																										

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NA13
21-129 (A1)	10-May-10	10:30:00				21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A	down	down		64.5	2	2,5,6,7			
21-129 (A1)	10-May-10	11:07:09	Rowland Island West (Near-Field)	Transition Downstream 13 (Upper Tailrace to Tailrace)	E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-129 (A1)	10-May-10	11:30:00			E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-129 (A1)	10-May-10	12:30:00				21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-129 (A1)	10-May-10	12:44:03	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-129 (A1)	10-May-10	19:19:56	Spencer Island West (Near-Field)	Start Lower River		38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	stay		64.5	4	2,5,6,7,8			
21-129 (A1)	10-May-10	19:32:42	Lapidum (West Shore) (Near-Field)	End Detections			0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-141 (A1)	10-May-10	11:02:00	Conowingo Tailrace	Release - Downstream Units 5 & 7		21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-141 (A1)	10-May-10	14:25:21	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5			
21-141 (A1)	10-May-10	14:30:00			A/E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-141 (A1)	10-May-10	15:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-141 (A1)	10-May-10	16:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-141 (A1)	10-May-10	17:16:16	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5			1		
21-141 (A1)	10-May-10	20:40:55	Spencer Island West (Near-Field)	Start Lower River		38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	down		64.5	4	2,5,6,7,8,9			
21-141 (A1)	14-May-10	12:47:00	Mid-River Downstream ledges. Half mile Upstream o	End Lower River		30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C	down			58.4	3	4,5,6,7,8			
21-141 (A1)	14-May-10	13:27:33	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	up		58.4	7	1,2,3,4,5,6,7,8,9,10,11			
21-141 (A1)	14-May-10	13:30:00			E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-141 (A1)	NA	NA	NA	Transition Upstream 2 (Tailrace to Upper Tailrace)																			58.4					
21-141 (A1)	14-May-10	20:13:30	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-141 (A1)	15-May-10	20:17:23	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	A	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	up		60.4	3	2,3,4,5,6,7	1		Decrease in Gen, downstream movement
21-141 (A1)	16-May-10	2:28:25	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A	down			63.6	1	5,7			
21-141 (A1)	16-May-10	2:30:00			E	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
21-141 (A1)	16-May-10	3:30:00			E	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
21-141 (A1)	16-May-10	4:29:14	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
21-141 (A1)	16-May-10	4:30:00			E	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
21-141 (A1)	16-May-10	5:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	up	down		63.6	4	2,3,4,5,6,7,8			
21-141 (A1)	16-May-10	6:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	6:42:09	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	7:17:12	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	7:38:19	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6			2		Lat movement, same gen
21-141 (A1)	16-May-10	8:30:00			E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	9:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	10:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	11:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	12:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	13:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	14:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	15:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	16:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-141 (A1)	16-May-10	17:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C	up	stay		63.6	7	1,2,3,4,5,6,7,8,9,10,11			
21-141 (A1)	16-May-10	18:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
21-141 (A1)	16-May-10	19:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
21-141 (A1)	16-May-10	20:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
21-141 (A1)	16-May-10	21:30:00				32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A	down			63.6	3	2,3,4,5,6,7			
21-141 (A1)	16-May-10	22:30:00				32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A				63.6					
21-141 (A1)	16-May-10	23:30:00			E	4780	0	0	0	0	4780	0	0	0	0	0	0	None	A	down			63.6	1	5			
21-141 (A1)	17-May-10	0:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A	up	up		64.7	1	2,5			
21-141 (A1)	17-May-10	1:05:19	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-141 (A1)	17-May-10	1:30:00			E	9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-141 (A1)	17-May-10	2:07:40	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-141 (A1)	17-May-10	2:30:00			B	9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-141 (A1)	17-May-10	3:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-141 (A1)	17-May-10	4:30:00			B	9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-141 (A1)	17-May-10	5:30:00			A/B	9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-141 (A1)	17-May-10	6:30:00			B/C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	up	up		64.7	4	2,3,4,5,6,7,8			
21-141 (A1)	17-May-10	6:33:22	"C" Gate Aerial	Start EFL Aerial Detection	C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7					
21-141 (A1)	17-May-10	6:34:11	"C" Gate Aerial	End EFL Aerial Detection	C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7					
21-141 (A1)	17-May-10	13:10:32	"C" Gate Aerial	Start EFL Aerial Detection	C	690																						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-141 (A1)	20-May-10	4:45:15	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-141 (A1)	20-May-10	5:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-141 (A1)	20-May-10	6:06:35	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-141 (A1)	20-May-10	6:30:00			B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-141 (A1)	20-May-10	7:30:00			C	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-141 (A1)	20-May-10	8:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C	up	up		62.5	4	2,4,5,6,7,8,9			
21-141 (A1)	20-May-10	9:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-141 (A1)	20-May-10	10:05:29	"A" Gate Aerial	Start EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-141 (A1)	20-May-10	10:05:49	"A" Gate Aerial	End EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-141 (A1)	20-May-10	10:55:23	"C" Gate Aerial	Start EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-141 (A1)	20-May-10	11:30:00			C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-141 (A1)	20-May-10	11:49:03	"A" Gate Crowder Dropper	Start EFL	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-141 (A1)	20-May-10	12:23:50	"A" Gate Crowder Dropper	End EFL	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-141 (A1)	20-May-10	12:32:58	"C" Gate Aerial	End EFL Aerial Detection	C	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-141 (A1)	20-May-10	15:19:57	"A" Gate Aerial	Start EFL Aerial Detection	C	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C				62.5					
21-141 (A1)	20-May-10	15:22:12	"A" Gate Aerial	End EFL Aerial Detection	C	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C				62.5					
21-141 (A1)	20-May-10	18:04:56	"A" Gate Aerial	Start EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A	down	stay		62.5	1	2,5,6			
21-141 (A1)	20-May-10	18:05:24	"A" Gate Aerial	End EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
21-141 (A1)	21-May-10	8:21:03	"A" Gate Entrance Dropper	Single EFL Peek - Don't Count	C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A	down			63.5	1	2,5			
21-141 (A1)	21-May-10	8:21:25	"A" Gate Aerial	Start EFL Aerial Detection	C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-141 (A1)	21-May-10	8:21:40	"A" Gate Aerial	End EFL Aerial Detection	C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-141 (A1)	21-May-10	12:12:15	"A" Gate Aerial	Start EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C	up			63.5	4	2,5,6,7,8,9			
21-141 (A1)	21-May-10	12:22:35	"A" Gate Aerial	End EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5					
21-141 (A1)	21-May-10	17:25:44	"A" Gate Aerial	Start EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C	up			63.5	7	1,2,3,4,5,6,7,8,9,10,11			
21-141 (A1)	21-May-10	17:29:33	"C" Gate Aerial	End EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-141 (A1)	21-May-10	18:34:09	"A" Gate Aerial	Start EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-141 (A1)	21-May-10	18:44:13	"C" Gate Aerial	End EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					Gate detections while increasing Gen
21-141 (A1)	21-May-10	19:59:13	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5			3	Furay ended under higher Gen than what it was when started.	
21-141 (A1)	22-May-10	2:20:01	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A	down	down		65.4	1	2,5			
21-141 (A1)	22-May-10	2:30:00			E	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	3:30:00			E	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	4:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	4:56:18	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	5:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	5:37:30	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	A	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	6:30:00			A/B/C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	7:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	8:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	9:30:00			A/B/C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	9:34:09	"A" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	9:36:56	"A" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	9:44:38	"A" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	9:47:09	"A" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	10:30:00			A/B/C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	11:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-141 (A1)	22-May-10	12:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C	up	up		65.4	5	1,2,3,4,5,6,8,9			
21-141 (A1)	22-May-10	13:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				65.4					
21-141 (A1)	22-May-10	14:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				65.4					
21-141 (A1)	22-May-10	15:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				65.4					
21-141 (A1)	22-May-10	16:30:00			A/B	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				65.4					
21-141 (A1)	22-May-10	17:30:00			B/C	50290	5310	4500	6180	5970	4670	6050	0	8														

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-141 (A1)	NA	NA	NA	End Tailrace Detection 2																			67.9					Left tailrace and then came back only to leave again. All within a short time
21-141 (A1)	23-May-10	16:28:47	Lapidum (West Shore) (Near-Field)	Start Lower River		30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				67.9					
21-141 (A1)	24-May-10	0:04:15	Lapidum (West Shore) (Near-Field)	End Detections		9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A	up			69.6	1	2,5			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-142 (A1)	10-May-10	11:45:00	Conowingo Tailrace	Release - Off of "A" Gate discharge		21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-142 (A1)	10-May-10	11:54:08	Rowland Island West (Near-Field)	Start Tailrace Detection 1		21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					Only 10 mins after release
21-142 (A1)	10-May-10	12:30:00			E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-142 (A1)	10-May-10	13:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5			
21-142 (A1)	10-May-10	14:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	10-May-10	15:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	10-May-10	16:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	10-May-10	17:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	10-May-10	18:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up			64.5	4	2,5,6,7,8,9			
21-142 (A1)	10-May-10	19:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-142 (A1)	10-May-10	20:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-142 (A1)	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-142 (A1)	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down			64.5	1	2,5			
21-142 (A1)	10-May-10	23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	2:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	4:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	5:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	6:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up			63.2	4	2,5,6,7,8,9			
21-142 (A1)	11-May-10	7:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-142 (A1)	11-May-10	8:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-142 (A1)	11-May-10	9:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-142 (A1)	11-May-10	10:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		63.2	1	2,5			
21-142 (A1)	11-May-10	11:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	12:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	13:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	14:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	15:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	16:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	17:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	11-May-10	18:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up			63.2	5	2,3,4,5,6,7,8,9			
21-142 (A1)	11-May-10	19:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-142 (A1)	11-May-10	20:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-142 (A1)	11-May-10	21:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-142 (A1)	11-May-10	22:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down			63.2	1	2,5			
21-142 (A1)	11-May-10	23:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-142 (A1)	12-May-10	0:30:00				18480	0	4930	0	0	4940	0	0	0	0	8610	0	None	C	up			60.2	2	2,5,10			
21-142 (A1)	12-May-10	1:30:00				13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C				60.2					
21-142 (A1)	12-May-10	2:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				60.2					
21-142 (A1)	12-May-10	3:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				60.2					
21-142 (A1)	12-May-10	4:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				60.2					
21-142 (A1)	12-May-10	5:30:00				42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up	up		60.2	4	2,3,4,5,6,7,8			
21-142 (A1)	12-May-10	6:02:06	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
21-142 (A1)	12-May-10	6:25:44	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)		42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
21-142 (A1)	12-May-10	6:30:00			A/B/E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
21-142 (A1)	12-May-10	7:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
21-142 (A1)	12-May-10	8:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
21-142 (A1)	12-May-10	9:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
21-142 (A1)	12-May-10	10:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	down	up		60.2	1	2,5,7			
21-142 (A1)	12-May-10	11:30:00			A/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
21-142 (A1)	12-May-10	12:30:00			A/B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A									



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-142 (A1)	13-May-10	5:06:53	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	5:12:55	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	6:28:00	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8				1	
21-142 (A1)	13-May-10	6:41:19	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	7:03:56	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	7:10:40	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	7:30:00			A/B/E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	8:30:00			A/B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	9:30:00			A/B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	9:41:39	"C" Gate Aerial	Start EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	9:42:05	"C" Gate Aerial	End EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	11:56:34	"A" Gate Aerial	Start EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	12:06:37	"A" Gate Entrance Dropper	Start EFL	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	12:28:06	"A" Gate Entrance Dropper	End EFL	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	12:30:00			B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					No change noticed to cause turn back?
21-142 (A1)	13-May-10	12:36:47	"A" Gate Aerial	End EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	13:30:00			B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	14:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	15:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	16:30:00			A/B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	17:30:00				64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C	up	up		58.8	6	1,2,3,4,5,6,7,8,9,11			
21-142 (A1)	13-May-10	18:30:00				64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8					
21-142 (A1)	13-May-10	19:30:00				64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8					
21-142 (A1)	13-May-10	20:30:00				64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8					
21-142 (A1)	13-May-10	21:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay		58.8	1	2,5			
21-142 (A1)	13-May-10	22:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	13-May-10	23:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					
21-142 (A1)	14-May-10	0:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4					
21-142 (A1)	14-May-10	1:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4					
21-142 (A1)	14-May-10	2:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4					
21-142 (A1)	14-May-10	3:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4					
21-142 (A1)	14-May-10	4:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4					
21-142 (A1)	14-May-10	5:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up			58.4	7	1,2,3,4,5,6,7,8,9,10,11			
21-142 (A1)	14-May-10	6:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	7:30:00			B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	8:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	9:30:00			B/C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	10:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	11:30:00			A/B	30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C	down			58.4	3	4,5,6,7,8			
21-142 (A1)	14-May-10	12:30:00			A/B	30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C				58.4					
21-142 (A1)	14-May-10	13:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up			58.4	7	1,2,3,4,5,6,7,8,9,10,11			
21-142 (A1)	14-May-10	14:30:00			A/B/C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	15:30:00			A	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	16:30:00			A/B/C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	17:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	18:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	19:30:00			A/E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	20:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	21:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	22:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-142 (A1)	14-May-10	23:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A	down	stay		58.4	1	2,5			
21-142 (A1)	15-May-10	0:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-142 (A1)	15-May-10	1:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-142 (A1)	15-May-10	2:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-142 (A1)	15-May-10	3:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-142 (A1)	15-May-10	4:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-142 (A1)	15-May-10	5:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
21-142 (A1)	15-May-10	6:30:00			A	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	up			60.4	3	2,3,4,5,6,7			
21-142 (A1)	15-May-10	7:30:00			A/B	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-142 (A1)	15-May-10																											



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-142 (A1)	16-May-10	4:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
21-142 (A1)	16-May-10	5:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	up	stay		63.6	4	2,3,4,5,6,7,8			
21-142 (A1)	16-May-10	6:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-142 (A1)	16-May-10	7:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-142 (A1)	16-May-10	8:30:00			B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-142 (A1)	16-May-10	9:30:00			A/B/C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-142 (A1)	16-May-10	10:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-142 (A1)	16-May-10	11:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-142 (A1)	16-May-10	12:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-142 (A1)	16-May-10	13:30:00			C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-142 (A1)	16-May-10	14:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-142 (A1)	16-May-10	15:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-142 (A1)	16-May-10	16:30:00			E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
21-142 (A1)	16-May-10	17:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C	up			63.6	7	1,2,3,4,5,6,7,8,9,10,11			
21-142 (A1)	16-May-10	18:30:00			A/B	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
21-142 (A1)	16-May-10	19:30:00			A/B	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
21-142 (A1)	16-May-10	20:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
21-142 (A1)	16-May-10	21:30:00				32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A	down			63.6	3	2,3,4,5,6,7			
21-142 (A1)	16-May-10	22:30:00				32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A				63.6					
21-142 (A1)	16-May-10	23:30:00				4780	0	0	0	0	4780	0	0	0	0	0	0	None	A	down			63.6	1		5		
21-142 (A1)	17-May-10	0:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A	up			64.7	1	2,5			
21-142 (A1)	17-May-10	1:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-142 (A1)	17-May-10	2:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-142 (A1)	17-May-10	3:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-142 (A1)	17-May-10	4:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-142 (A1)	17-May-10	5:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
21-142 (A1)	17-May-10	6:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	up			64.7	4	2,3,4,5,6,7,8			
21-142 (A1)	17-May-10	7:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7					
21-142 (A1)	17-May-10	8:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7					
21-142 (A1)	17-May-10	9:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7					
21-142 (A1)	17-May-10	10:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7					
21-142 (A1)	17-May-10	11:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C	up	down		64.7	7	2,3,4,5,6,7,8,9,10			
21-142 (A1)	17-May-10	12:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
21-142 (A1)	17-May-10	13:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
21-142 (A1)	17-May-10	13:32:50	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7				3	
21-142 (A1)	17-May-10	16:16:21	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
21-142 (A1)	17-May-10	16:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
21-142 (A1)	17-May-10	16:40:00	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
21-142 (A1)	17-May-10	17:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
21-142 (A1)	17-May-10	18:14:11	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7				1	
21-142 (A1)	17-May-10	18:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
21-142 (A1)	17-May-10	19:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
21-142 (A1)	17-May-10	20:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
21-142 (A1)	17-May-10	21:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	down	up		64.7	4	2,3,4,5,6,7,8			
21-142 (A1)	17-May-10	22:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7					
21-142 (A1)	17-May-10	23:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7					
21-142 (A1)	18-May-10	0:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C				64.5					
21-142 (A1)	18-May-10	1:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C				64.5					
21-142 (A1)	18-May-10	2:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C				64.5					
21-142 (A1)	18-May-10	3:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A	down			64.5	1				
21-142 (A1)	18-May-10	4:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	18-May-10	5:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	18-May-10	6:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5		2,5			
21-142 (A1)	18-May-10	7:30:00			A/B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	18-May-10	8:30:00			A	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	18-May-10	9:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	18-May-10	10:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	18-May-10	11:30:00			A/B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5					
21-142 (A1)	18-May-10	12:30:00			A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A									

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-142 (A1)	19-May-10	9:30:00				11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4					
21-142 (A1)	19-May-10	10:30:00				11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4					
21-142 (A1)	19-May-10	11:30:00			A/B	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4					
21-142 (A1)	19-May-10	12:30:00				11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4					
21-142 (A1)	19-May-10	13:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C	up			63.4	5	3,4,6,7,8,9,11			
21-142 (A1)	19-May-10	14:30:00			B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4					
21-142 (A1)	19-May-10	15:30:00			B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4					
21-142 (A1)	19-May-10	16:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4					
21-142 (A1)	19-May-10	17:30:00			A/B/C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4					
21-142 (A1)	19-May-10	18:30:00			A/B/C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4					
21-142 (A1)	19-May-10	19:30:00			A/B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4					
21-142 (A1)	19-May-10	20:30:00			E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4					
21-142 (A1)	19-May-10	21:30:00			E	0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4					
21-142 (A1)	19-May-10	22:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4					
21-142 (A1)	19-May-10	23:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4					
21-142 (A1)	20-May-10	0:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A	down			62.5	1	2,5			
21-142 (A1)	20-May-10	1:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-142 (A1)	20-May-10	2:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-142 (A1)	20-May-10	3:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-142 (A1)	20-May-10	4:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-142 (A1)	20-May-10	5:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-142 (A1)	20-May-10	6:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-142 (A1)	20-May-10	7:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
21-142 (A1)	20-May-10	8:30:00			A	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C	up			62.5	4	2,5,6,7,8,9			
21-142 (A1)	20-May-10	9:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-142 (A1)	20-May-10	10:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-142 (A1)	20-May-10	11:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-142 (A1)	20-May-10	12:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
21-142 (A1)	20-May-10	13:30:00			B	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up			62.5	6	1,2,3,4,5,6,7,8,11			
21-142 (A1)	20-May-10	14:30:00			B	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5					
21-142 (A1)	20-May-10	15:30:00			B	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C	down			62.5	4	2,5,6,7,8,11			
21-142 (A1)	20-May-10	16:30:00				15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A	down			62.5	1	2,5,6			
21-142 (A1)	20-May-10	17:30:00			A/B/C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
21-142 (A1)	20-May-10	18:30:00			A/B	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
21-142 (A1)	20-May-10	19:30:00			A	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay		62.5	6	1,2,3,4,5,6,7,8,9,11			
21-142 (A1)	20-May-10	19:50:33	"C" Gate Aerial	Start EFL Aerial Detection	C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5					
21-142 (A1)	20-May-10	19:51:54	"C" Gate Aerial	End EFL Aerial Detection	C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5					
21-142 (A1)	21-May-10	12:09:08	"C" Gate Aerial	Start EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C	down			63.5	4	2,5,6,7,8,9			
21-142 (A1)	21-May-10	12:30:00			C	0												None	A				63.5					
21-142 (A1)	21-May-10	12:54:02	"C" Gate Aerial	End EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5					
21-142 (A1)	21-May-10	17:54:37	"C" Gate Aerial	Start EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C	up			63.5	7	1,2,3,4,5,6,7,8,9,10,11			
21-142 (A1)	21-May-10	18:30:00			C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-142 (A1)	21-May-10	18:52:49	"C" Gate Aerial	End EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-142 (A1)	23-May-10	11:22:05	"C" Gate Aerial	Start EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C	down			67.9	4	2,5,6,7,8			
21-142 (A1)	23-May-10	11:30:00			C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				67.9					
21-142 (A1)	23-May-10	11:47:14	"C" Gate Aerial	End EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				67.9	4	2,5,6,7,8,9			
21-142 (A1)	23-May-10	14:20:18	"C" Gate Aerial	Start EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C	down			67.9					
21-142 (A1)	23-May-10	14:30:00			C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				67.9					
21-142 (A1)	23-May-10	14:59:13	"C" Gate Aerial	End EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				67.9					
21-142 (A1)	23-May-10	16:38:02	"C" Gate Aerial	Start EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				67.9					
21-142 (A1)	23-May-10	17:08:35	"C" Gate Aerial	End EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				67.9					
21-142 (A1)	23-May-10	18:17:34	"A" Gate Aerial	Start EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C	up			67.9	4	2,5,6,7,8,9			Mostly C gate aerials until this time. Then more A gate aerials also.
21-142 (A1)	23-May-10	18:29:17	"C" Gate Aerial	End EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				67.9					
21-142 (A1)	24-May-10	11:44:44	"A" Gate Aerial	Start EFL Aerial Detection	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A	down			69.6	1	2,5			
21-142 (A1)	24-May-10	11:46:40	"A" Gate Aerial	End EFL Aerial Detection	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-142 (A1)	24-May-10	17:53:02	"C" Gate Aerial	Start EFL Aerial Detection	C	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C	up	down		69.6	6	2,3,4,5,6,7,8,9,11			
21-142 (A1)	24-May-10	17:53:09	"C" Gate Aerial	End EFL Aerial Detection	C	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-142 (A1)	24-May-10	18:30:00			C	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-142 (A1)	24-May-10	19:01:05	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B																							

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-142 (A1)	25-May-10	12:30:00			A/B	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C	up	stay		70.2	6	2,3,4,5,6,7,8,9,11			
21-142 (A1)	25-May-10	13:28:05	"C" Gate Aerial	Start EFL Aerial Detection	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					Aerial gates detections starting at 60Kcfs and lasting into 73K cfs
21-142 (A1)	25-May-10	13:30:00			C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-142 (A1)	25-May-10	14:09:39	"C" Gate Aerial	End EFL Aerial Detection	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-142 (A1)	25-May-10	15:51:12	"A" Gate Aerial	Start EFL Aerial Detection	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-142 (A1)	25-May-10	15:59:33	"C" Gate Entrance Dropper	Start EFL	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-142 (A1)	25-May-10	16:11:55	"A" Gate Entrance Dropper	End EFL	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-142 (A1)	25-May-10	16:13:35	"C" Gate Aerial	End EFL Aerial Detection	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-142 (A1)	26-May-10	13:12:51	"C" Gate Aerial	Start EFL Aerial Detection	C	51060	0	4660	6080	5870	4720	6090	6160	8740	0	0	8740	None	C	down			71.0	5	2,3,4,5,6,7,8,11			
21-142 (A1)	26-May-10	13:22:00	"C" Gate Aerial	End EFL Aerial Detection	C	51060	0	4660	6080	5870	4720	6090	6160	8740	0	0	8740	None	C				71.0					
21-142 (A1)	26-May-10	18:21:00	"C" Gate Aerial	Start EFL Aerial Detection	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C	up			71.0	7	1,2,3,4,5,6,7,8,9,10,11			
21-142 (A1)	26-May-10	18:30:00			A/B	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-142 (A1)	26-May-10	18:58:48	"C" Gate Aerial	End EFL Aerial Detection	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-142 (A1)	27-May-10	17:14:25	"C" Gate Aerial	Start EFL Aerial Detection	C	73720	5340	4450	6070	5920	4620	5780	6060	8740	9070	8960	8710	None	C				73.1					
21-142 (A1)	27-May-10	17:22:57	"C" Gate Aerial	End EFL Aerial Detection	C	73720	5340	4450	6070	5920	4620	5780	6060	8740	9070	8960	8710	None	C				73.1					
21-142 (A1)	27-May-10	18:30:00			A/B	73720	5340	4450	6070	5920	4620	5780	6060	8740	9070	8960	8710	None	C				73.1					
21-142 (A1)	27-May-10	18:43:20	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	73720	5340	4450	6070	5920	4620	5780	6060	8740	9070	8960	8710	None	C				73.1					
21-142 (A1)	27-May-10	21:10:39	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	32900	0	4450	6070	5920	4620	5780	6060	0	0	0	0	None	A	down			73.1	3	2,3,4,5,6,7		1	
21-142 (A1)	27-May-10	21:30:00			E	32900	0	4450	6070	5920	4620	5780	6060	0	0	0	0	None	A				73.1					
21-142 (A1)	27-May-10	21:53:03	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	32900	0	4450	6070	5920	4620	5780	6060	0	0	0	0	None	A				73.1					
21-142 (A1)	27-May-10	22:30:00				9070	0	4450	0	0	4620	0	0	0	0	0	0	None	A	down	up		73.1	3	2,5			
21-142 (A1)	27-May-10	23:30:00				9070	0	4450	0	0	4620	0	0	0	0	0	0	None	A				73.1					
21-142 (A1)	27-May-10	0:30:00				9070	0	4450	0	0	4620	0	0	0	0	0	0	None	A				73.1					
21-142 (A1)	27-May-10	1:30:00				9070	0	4450	0	0	4620	0	0	0	0	0	0	None	A				73.1					
21-142 (A1)	27-May-10	2:30:00				9070	0	4450	0	0	4620	0	0	0	0	0	0	None	A				73.1					
21-142 (A1)	27-May-10	3:30:00				9070	0	4450	0	0	4620	0	0	0	0	0	0	None	A				73.1					
21-142 (A1)	27-May-10	4:30:00				9070	0	4450	0	0	4620	0	0	0	0	0	0	None	A				73.1					
21-142 (A1)	27-May-10	5:30:00				9070	0	4450	0	0	4620	0	0	0	0	0	0	None	A				73.1					
21-142 (A1)	28-May-10	5:46:50	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A				74.3					
21-142 (A1)	28-May-10	6:30:00			A/B/C	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A				74.3					
21-142 (A1)	28-May-10	6:54:22	"A" Gate Aerial	Start EFL Aerial Detection	C	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A				74.3					
21-142 (A1)	28-May-10	6:54:30	"A" Gate Aerial	End EFL Aerial Detection	C	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A				74.3					
21-142 (A1)	28-May-10	8:19:31	"A" Gate Aerial	Start EFL Aerial Detection	C	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A				74.3					
21-142 (A1)	28-May-10	8:22:05	"C" Gate Aerial	End EFL Aerial Detection	C	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A				74.3					
21-142 (A1)	28-May-10	8:51:29	"A" Gate Aerial	Start EFL Aerial Detection	C	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A				74.3					
21-142 (A1)	28-May-10	8:52:39	"A" Gate Aerial	End EFL Aerial Detection	C	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A				74.3					
21-142 (A1)	28-May-10	13:15:14	"C" Gate Aerial	Start EFL Aerial Detection	C	29790	0	4380	0	0	4600	5950	6110	8750	0	0	0	None	C	up			74.3	3	2,5,6,7,8			
21-142 (A1)	28-May-10	13:17:09	"C" Gate Aerial	End EFL Aerial Detection	C	29790	0	4380	0	0	4600	5950	6110	8750	0	0	0	None	C				74.3					
21-142 (A1)	29-May-10	6:38:03	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A	down			74.7	1	2,5			
21-142 (A1)	29-May-10	6:41:06	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
21-142 (A1)	29-May-10	8:16:19	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
21-142 (A1)	29-May-10	8:17:21	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
21-142 (A1)	29-May-10	9:06:26	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
21-142 (A1)	29-May-10	9:07:47	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
21-142 (A1)	29-May-10	9:33:03	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
21-142 (A1)	29-May-10	9:40:37	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
21-142 (A1)	29-May-10	10:16:31	"C" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
21-142 (A1)	29-May-10	10:16:43	"C" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
21-142 (A1)	29-May-10	11:02:53	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
21-142 (A1)	29-May-10	11:10:17	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
21																												

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-142 (A1)	31-May-10	7:24:44	"A" Gate Aerial	Start EFL Aerial Detection	C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	7:25:49	"A" Gate Aerial	End EFL Aerial Detection	C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	8:54:44	"A" Gate Aerial	Start EFL Aerial Detection	C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	8:57:01	"A" Gate Aerial	End EFL Aerial Detection	C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	10:31:10	"A" Gate Aerial	Start EFL Aerial Detection	C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	10:32:40	"A" Gate Aerial	End EFL Aerial Detection	C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	12:18:03	"A" Gate Aerial	Start EFL Aerial Detection	C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	12:20:22	"A" Gate Entrance Dropper	Start EFL	C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	12:30:00			A/B/C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	12:32:55	"A" Gate Entrance Dropper	End EFL	C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	12:44:44	"A" Gate Aerial	End EFL Aerial Detection	C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4					All gate detections happen through various Gen conditions	
21-142 (A1)	31-May-10	13:30:00			A/B/C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	14:30:00			B/C	29310	0	4110	0	0	4200	6130	6160	8710	0	0	0	None	C	up			77.4	3	2,5,6,7,8				
21-142 (A1)	31-May-10	15:30:00			B	29310	0	4110	0	0	4200	6130	6160	8710	0	0	0	None	C				77.4						
21-142 (A1)	31-May-10	16:30:00			A/B	64450	5800	4110	6200	6000	4200	6130	6160	8710	8920	0	8220	None	C	up			77.4	6	1,2,3,4,5,6,7,8,9,11				
21-142 (A1)	31-May-10	17:30:00			A/B	64450	5800	4110	6200	6000	4200	6130	6160	8710	8920	0	8220	None	C				77.4						
21-142 (A1)	31-May-10	18:30:00			A/B	64450	5800	4110	6200	6000	4200	6130	6160	8710	8920	0	8220	None	C				77.4						
21-142 (A1)	31-May-10	19:30:00			A/B	64450	5800	4110	6200	6000	4200	6130	6160	8710	8920	0	8220	None	C				77.4						
21-142 (A1)	31-May-10	20:02:25	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	A	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A	down			77.4	1	2,5				
21-142 (A1)	NA	NA	NA	Transition Downstream 7 (Upper Tailrace to Tailrace)		0												None	A				77.4						
21-142 (A1)	NA	NA	NA	End Tailrace Detection 1		0												None	A				77.4					3	
21-142 (A1)	31-May-10	22:07:39	Spencer Island East (Near-Field)	Start Lower River		8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
21-142 (A1)	31-May-10	22:43:11	Lapidum (West Shore) (Near-Field)	End Detections		8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
																													**** Significant attempt at the EFL. Several days of detections at the lift.***



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-143 (A1)	10-May-10	12:00:00	Conowingo Tailrace	Release - Off of "A" Gate discharge		21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	12:05:11	Conowingo Tailrace Unit 8 (Mid-Field)	Start Tailrace Detection 1	B	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	12:15:05	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	12:30:00			A/B	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	13:12:09	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	down		64.5	2	2,5			Decreased Gen, movement downstream
21-143 (A1)	10-May-10	13:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	14:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	15:11:56	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	15:12:51	Conowingo Tailrace Unit 8 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	15:29:28	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	A	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5			2		
21-143 (A1)	10-May-10	15:30:00			A/B/E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	15:51:33	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	16:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	17:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-143 (A1)	10-May-10	18:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	stay		64.5	4	2,5,6,7,8,9			
21-143 (A1)	10-May-10	19:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-143 (A1)	10-May-10	20:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-143 (A1)	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-143 (A1)	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down			64.5	1	2,5			
21-143 (A1)	10-May-10	23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-143 (A1)	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	2:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	4:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	5:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	6:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up			63.2	4	2,5,6,7,8,9			
21-143 (A1)	11-May-10	7:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-143 (A1)	11-May-10	8:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-143 (A1)	11-May-10	9:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-143 (A1)	11-May-10	10:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		63.2	1	2,5			
21-143 (A1)	11-May-10	11:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	12:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	13:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	14:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	15:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	16:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	17:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	18:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up			63.2	5	2,3,4,5,6,7,8,9			
21-143 (A1)	11-May-10	19:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-143 (A1)	11-May-10	20:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-143 (A1)	11-May-10	21:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-143 (A1)	11-May-10	22:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		63.2	1	2,5			
21-143 (A1)	11-May-10	23:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	2:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	4:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	5:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-143 (A1)	11-May-10	6:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	up		63.2	4	2,5,6,7,8,9			
21-143 (A1)	12-May-10	6:49:03	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up	down		60.2	4	2,3,4,5,6,7,8			
21-143 (A1)	12-May-10	7:03:49	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	42770	0	4930	6180	5950</																		



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-143 (A1)	18-May-10	16:36:52	Spencer Island West (Near-Field)	End Lower River		73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5					High Gen Movement down.
21-143 (A1)	18-May-10	21:17:37	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5					
21-143 (A1)	18-May-10	21:30:00			E	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5					
21-143 (A1)	18-May-10	22:30:00				29580	0	4380	0	0	4720	5890	6060	8530	0	0	0	None	C	down	stay		64.5	3	2,5,6,7,8,				
21-143 (A1)	18-May-10	23:30:00			E	29580	0	4380	0	0	4720	5890	6060	8530	0	0	0	None	C				64.5						
21-143 (A1)	19-May-10	0:30:00			E	20100	0	0	0	0	0	6010	5940	8150	0	0	0	None	C	down			63.4	2	6,7,8				
21-143 (A1)	19-May-10	1:30:00			E	0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	1:56:49	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	2:30:00			A/B	0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	2:34:56	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	3:30:00			A/B	0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	4:30:00			A/B	0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	5:30:00			A/B	0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	5:57:55	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4			2			
21-143 (A1)	19-May-10	6:12:20	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	6:30:00			E	0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	7:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4					No Gen ???	
21-143 (A1)	19-May-10	8:16:17	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A	up	up		63.4	1	6,7				
21-143 (A1)	19-May-10	8:30:00			E	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	9:30:00				11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	9:44:32	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	A	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4			2			
21-143 (A1)	19-May-10	10:30:00			A/B	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	11:30:00			A/B	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	12:30:00			A/B/C	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	12:33:34	"A" Gate Aerial	Start EFL Aerial Detection	C	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	12:40:00	"A" Gate Entrance Dropper	Start EFL	C	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	12:40:27	"A" Gate Entrance Dropper	End EFL	C	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	12:40:39	"A" Gate Aerial	End EFL Aerial Detection	C	11950	0	0	0	0	0	6010	5940	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	15:03:45	"A" Gate Aerial	Start EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C	up	down		63.4	5	3,4,6,7,8,9,11				
21-143 (A1)	19-May-10	15:04:26	"C" Gate Aerial	End EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4						
21-143 (A1)	19-May-10	16:17:44	"A" Gate Aerial	Start EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4					Gate aerial ID's shortly after gen change.	
21-143 (A1)	19-May-10	16:18:18	"C" Gate Aerial	End EFL Aerial Detection	C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4						
21-143 (A1)	19-May-10	16:18:37	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4			3			
21-143 (A1)	19-May-10	16:30:00			A/B/C	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4						
21-143 (A1)	19-May-10	16:34:12	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4						
21-143 (A1)	19-May-10	17:30:00			E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4						
21-143 (A1)	19-May-10	17:32:34	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4						
21-143 (A1)	19-May-10	18:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4						
21-143 (A1)	19-May-10	19:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4						
21-143 (A1)	19-May-10	20:30:00				48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C				63.4						
21-143 (A1)	19-May-10	21:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	22:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	19-May-10	23:30:00				0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
21-143 (A1)	20-May-10	0:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A	down	up		62.5	1	2,5				
21-143 (A1)	20-May-10	1:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5						
21-143 (A1)	20-May-10	2:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5						
21-143 (A1)	20-May-10	3:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5						
21-143 (A1)	20-May-10	4:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5						
21-143 (A1)	20-May-10	5:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5						
21-143 (A1)	20-May-10	5:54:56	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	A	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5						
21-143 (A1)	20-May-10	6:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5						
21-143 (A1)	20-May-10	7:30:00			A	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5						
21-143 (A1)	20-May-10	8:3																											

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-143 (A1)	23-May-10	23:23:55	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	B	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				67.9					
21-143 (A1)	23-May-10	23:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				67.9					
21-143 (A1)	24-May-10	0:00:52	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6			1		
21-143 (A1)	24-May-10	0:27:11	Rowland Island West (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					slight increase in Gen, movement downstream
21-143 (A1)	24-May-10	0:30:00			B/E	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	1:30:00			E	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	1:32:23	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	2:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	2:49:36	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	3:30:00			B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	4:30:00			A/B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	5:30:00			B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	6:30:00			A	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	7:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	8:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	9:30:00			A/B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	10:30:00			B	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	11:21:31	"C" Gate Aerial	Start EFL Aerial Detection	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	11:30:00			B/C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	11:33:09	"A" Gate Aerial	End EFL Aerial Detection	C	9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
21-143 (A1)	24-May-10	13:38:36	"C" Gate Aerial	Start EFL Aerial Detection	C	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C	up			69.6	6	2,3,4,5,6,7,8,9,11			Increase in Gen during aerial gate detections
21-143 (A1)	24-May-10	13:42:23	"C" Gate Aerial	End EFL Aerial Detection	C	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-143 (A1)	24-May-10	14:11:41	"A" Gate Aerial	Start EFL Aerial Detection	C	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-143 (A1)	24-May-10	14:14:56	"C" Gate Aerial	End EFL Aerial Detection	C	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-143 (A1)	24-May-10	17:31:09	"A" Gate Aerial	Start EFL Aerial Detection	C	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-143 (A1)	24-May-10	17:32:22	"C" Gate Aerial	End EFL Aerial Detection	C	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-143 (A1)	25-May-10	8:26:47	Conowingo Tailrace Unit 10 (Mid-Field)	End Detections		21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A				70.2					Was tagged on the 10th.

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-144 (A1)	10-May-10	12:08:00	Conowingo Tailrace	Release - Off of "A" Gate discharge																									
21-144 (A1)	10-May-10	12:26:22	Conowingo Tailrace Unit 3 (Mid-Field)	Start Tailrace Detection 1	A	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5						
21-144 (A1)	10-May-10	12:30:00			A	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5						
21-144 (A1)	10-May-10	13:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5				
21-144 (A1)	10-May-10	14:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-144 (A1)	10-May-10	15:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-144 (A1)	10-May-10	16:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-144 (A1)	10-May-10	17:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-144 (A1)	10-May-10	18:20:21	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	down		64.5	4	2,5,6,7,8,9			Increase Gen, Downstream movement	
21-144 (A1)	10-May-10	18:30:00			E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
21-144 (A1)	10-May-10	19:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
21-144 (A1)	10-May-10	20:30:00			E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
21-144 (A1)	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
21-144 (A1)	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5				
21-144 (A1)	10-May-10	23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-144 (A1)	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	2:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	4:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	5:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	6:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	stay		63.2	4	2,5,6,7,8,9			Increase in Gen, movement upstream	
21-144 (A1)	11-May-10	7:30:00			E/F	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2						
21-144 (A1)	11-May-10	8:30:00			E/F	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2						
21-144 (A1)	11-May-10	9:30:00			E/F	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2						
21-144 (A1)	11-May-10	10:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		63.2	1	2,5			decreased flows and fish stay on East channel	
21-144 (A1)	11-May-10	11:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	12:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	13:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	14:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	15:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	16:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	17:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	11-May-10	18:30:00			E	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up	stay		63.2	5	2,3,4,5,6,7,8,9				
21-144 (A1)	11-May-10	19:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2						
21-144 (A1)	11-May-10	20:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2						
21-144 (A1)	11-May-10	21:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2						
21-144 (A1)	11-May-10	22:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		63.2	1	2,5				
21-144 (A1)	11-May-10	23:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-144 (A1)	12-May-10	0:30:00			E	18480	0	4930	0	0	4940	0	0	0	0	8610	0	None	C	up	stay		60.2	2	2,5,10				
21-144 (A1)	12-May-10	1:30:00				13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C	down	stay		60.2	1	5,10				
21-144 (A1)	12-May-10	2:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	down	stay		60.2	1	2,5				
21-144 (A1)	12-May-10	3:30:00			F	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				60.2						
21-144 (A1)	12-May-10	4:02:41	Rowland Island East (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	F	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				60.2						
21-144 (A1)	12-May-10	4:30:00			F	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				60.2						
21-144 (A1)	12-May-10	4:44:32	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A		up		60.2	1	2,5				
21-144 (A1)	12-May-10	5:10:52	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	0	None	C	up	stay		60.2	4	2,3,4,5,6,7,8	1		
21-144 (A1)	12-May-10	5:19:00	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	0	None	C		down		60.2	4	2,3,4,5,6,7,8			
21-144 (A1)	12-May-10	5:30:00			B/E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						
21-144 (A1)	12-May-10	6:30:00			F	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						increased Gen, movement downstream
21-144 (A1)	12-May-10	7:30:00			E/F	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						
21-144 (A1)	12-May-10	8:30:00			E/F	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						
21-144 (A1)	12-May-10	9:30:00			E/F																								

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-144 (A1)	12-May-10	21:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2				
21-144 (A1)	12-May-10	22:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2				
21-144 (A1)	12-May-10	23:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2				
21-144 (A1)	13-May-10	0:30:00				41450	0	3970	6180	5980	4550	5830	6160	8780	0	0	0	None	C	down	stay			58.8	4	2,3,4,5,6,7,8		
21-144 (A1)	13-May-10	1:30:00				41450	0	3970	6180	5980	4550	5830	6160	8780	0	0	0	None	C					58.8				
21-144 (A1)	13-May-10	2:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay			58.8	1	2,5		
21-144 (A1)	13-May-10	3:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	4:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	5:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	6:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		down			58.8	1	2,5		
21-144 (A1)	13-May-10	7:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	7:50:49	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	8:17:08	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		up			58.8	1	2,5		
21-144 (A1)	13-May-10	8:30:00			E/B/A	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	8:54:25	"A" Gate Aerial	Start EFL Aerial Detection	A/B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	9:00:23	"A" Gate Aerial	End EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	9:30:00			C/B/A	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	9:52:06	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8			3	
21-144 (A1)	13-May-10	10:01:51	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		down			58.8	1	2,5		
21-144 (A1)	13-May-10	10:07:45	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	10:30:00			A/B/E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		up			58.8	1	2,5		
21-144 (A1)	13-May-10	11:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	11:54:02	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	12:30:00			A/B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	13:20:00	"A" Gate Aerial	Start EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				Movement all over tailrace
21-144 (A1)	13-May-10	13:23:49	"A" Gate Aerial	End EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	13:30:00			A/B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	13:34:42	"C" Gate Aerial	Start EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	13:35:26	"C" Gate Aerial	End EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8				
21-144 (A1)	13-May-10	13:46:11	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8			3	
21-144 (A1)	13-May-10	NA	NA	Transition Downstream 5 (Upper Tailrace to Tailrace)																				58.8				
21-144 (A1)	13-May-10	NA	NA	End Tailrace Detection 1																				58.8				
21-144 (A1)	13-May-10	18:37:19	Spencer Island West (Near-Field)	Start Lower River		64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C	up	stay			58.8	6	1,2,3,4,5,6,7,8,9,10		
21-144 (A1)	13-May-10	19:10:00	Mid-River, public pier just Downstream of Tomes Gas House	End Lower River		64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C					58.8				
21-144 (A1)	17-May-10	21:57:57	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	down	down			64.7	4	2,3,4,5,6,7,8		
21-144 (A1)	17-May-10	21:57:57	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C					64.7				
21-144 (A1)	17-May-10	22:30:00			E	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C					64.7				
21-144 (A1)	17-May-10	22:36:15	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	A	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C		up			64.7	4	2,3,4,5,6,7,8		
21-144 (A1)	17-May-10	23:30:00			A/B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C					64.7				
21-144 (A1)	18-May-10	0:30:00			A/B	41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C					64.5				
21-144 (A1)	18-May-10	1:30:00			A/B	41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C					64.5				
21-144 (A1)	18-May-10	2:30:00			A/B	41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C					64.5				
21-144 (A1)	18-May-10	3:30:00			A/B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A	down	stay			64.5	1	2,5		
21-144 (A1)	18-May-10	4:30:00			A/B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	5:30:00			A/B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				When Gen dropped more time spent in zone C
21-144 (A1)	18-May-10	6:30:00			A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	7:30:00			A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	8:30:00			A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	9:30:00			A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	10:03:28	"A" Gate Aerial	Start EFL Aerial Detection	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	10:14:15	"A" Gate Entrance Dropper	Start EFL	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	10:30:00			C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	10:57:43	"A" Gate Crowder Dropper	End EFL	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	11:01:41	"A" Gate Aerial	End EFL Aerial Detection	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	11:30:30			C/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	12:30:30			A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
21-144 (A1)	18-May-10	13:30:30			A/B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C	up	stay			64.5	7	1,2,3,4,5,6,7,8,9,10,11		
21-144 (A1)	18-May-10	14:30:30			B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
21-144 (A1)	18-May-10	15:30:30			B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
21-144 (A1)	18-May-10	16:30:30			C/B/A	7392																						



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-156 (A1)	10-May-10	17:30:00	Conowingo Tailrace	Release - Between Units 3 & 5		9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-156 (A1)	10-May-10	17:41:40	Conowingo Tailrace Unit 3 (Mid-Field)	Start Tailrace Detection 1	A	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-156 (A1)	11-May-10	6:00:00	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2			1		
21-156 (A1)	11-May-10	6:01:24	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down		63.2	1	2,5			
21-156 (A1)	11-May-10	6:30:00			A/B/C/E/F	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	stay		63.2	4	2,5,6,7,8,9			
21-156 (A1)	11-May-10	7:27:58	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-156 (A1)	11-May-10	7:30:00			E/F	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-156 (A1)	11-May-10	7:35:38	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C		up		63.2	4	2,5,6,7,8,9			
21-156 (A1)	11-May-10	8:30:00			A/B/C	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					Scattered movement. No apparent pattern
21-156 (A1)	11-May-10	9:30:00			A/B/C	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-156 (A1)	11-May-10	10:12:17	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		63.2	1	2,5	3		Decreased Gen, Movement downstream
21-156 (A1)	11-May-10	10:22:48	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		down		63.2	1	2,5			
21-156 (A1)	11-May-10	10:28:47	Rowland Island East (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	F	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-156 (A1)	11-May-10	10:30:00			A/B/E/F	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-156 (A1)	11-May-10	10:41:51	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up		63.2	1	2,5			
21-156 (A1)	11-May-10	10:30:00			A/B/E/F	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-156 (A1)	11-May-10	11:33:04	"A" Gate Aerial	Start EFL Aerial Detection	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-156 (A1)	11-May-10	12:20:06	"A" Gate Entrance Dropper	Start EFL	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-156 (A1)	11-May-10	12:29:03	"A" Gate Crowder Dropper	End EFL	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-156 (A1)	11-May-10	12:30:00			C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-156 (A1)	11-May-10	NA	NA	End EFL Aerial Detection																		63.2						
21-156 (A1)	11-May-10	12:39:21	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	A	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-156 (A1)	11-May-10	12:43:18	Conowingo East Spillway Corner (Near-Field)	Start Spillway/Transition	D	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2			3		
21-156 (A1)	11-May-10	13:03:43	Conowingo East Spillway Corner (Near-Field)	End Spillway/Transition	D	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-156 (A1)	NA	NA	NA	End Tailrace Detection 1																								
21-156 (A1)	NA	NA	NA	Start Tailrace Detection 2																								
21-156 (A1)	03-Jun-10	NA	NA	Transition Upstream 4 (Tailrace to Upper Tailrace)																		79.0						
21-156 (A1)	03-Jun-10	12:19:35	Conowingo Tailrace Units 1-7 Master	Start Upper Tailrace Detection (Start UT Foray 4)	A/B	46630	0	0	0	5950	3860	4890	5860	8650	8820	0	8600	None	C	up	stay		79.0					
21-156 (A1)	03-Jun-10	12:19:51	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	46630	0	0	0	5950	3860	4890	5860	8650	8820	0	8600	None	C				79.0			2		
21-156 (A1)	03-Jun-10	NA	NA	Transition Downstream 4 (Upper Tailrace to Tailrace)																		79.0						
21-156 (A1)	03-Jun-10	NA	NA	End Tailrace Detection 2																		79.0						
21-156 (A1)	03-Jun-10	13:53:24	Spencer Island East (Near-Field)	Start Lower River		46630	0	0	0	5950	3860	4890	5860	8650	8820	0	8600	None	C				79.0					
21-156 (A1)	03-Jun-10	14:47:46	Lapidum (West Shore) (Near-Field)	End Detections		46630	0	0	0	5950	3860	4890	5860	8650	8820	0	8600	None	C				79.0					Surprised to see how much time has passed then returned in June



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-159 (A1)	12-May-10	11:40:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
21-159 (A1)	12-May-10	12:13:29	Lapidum (West Shore) (Near-Field)	Start Lower River		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
21-159 (A1)	20-May-10	12:31:00	Spencer Island West (Near-Field)	End Lower River		38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C	up	stay		62.5	4	2,5,6,7,8,9			Did not return to area for a while?
21-159 (A1)	21-May-10	0:26:12	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A	down	stay		63.5	1	2,5			
21-159 (A1)	21-May-10	0:30:00			E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-159 (A1)	21-May-10	0:46:13	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-159 (A1)	21-May-10	1:08:50	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A		up		63.5	1	2,5			
21-159 (A1)	21-May-10	1:30:00			A/B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-159 (A1)	21-May-10	2:30:00			A/B/E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-159 (A1)	21-May-10	3:19:25	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5			2		
21-159 (A1)	21-May-10	3:30:00			A/B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-159 (A1)	21-May-10	4:07:26	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A		down		63.5	1	2,5			
21-159 (A1)	21-May-10	4:17:26	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-159 (A1)	21-May-10	4:30:00			E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-159 (A1)	21-May-10	5:29:09	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A		up		63.5	1	2,5			
21-159 (A1)	21-May-10	5:30:00			B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-159 (A1)	21-May-10	6:30:00			A/B/C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-159 (A1)	21-May-10	7:30:00			A/B/C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-159 (A1)	21-May-10	8:30:00			A/B/C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
21-159 (A1)	21-May-10	9:30:00			A/B/C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C	up	stay		63.5	4	2,5,6,7,8,9			
21-159 (A1)	21-May-10	10:30:00			B/C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5					
21-159 (A1)	21-May-10	11:30:00			A/B/C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5					
21-159 (A1)	21-May-10	12:30:00			A/B/C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5					
21-159 (A1)	21-May-10	13:30:00			A/B	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5					
21-159 (A1)	21-May-10	14:30:00			A/B/C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C	up	stay		63.5	4	1,2,3,4,5,6,7,8,9,10,11			Scattered movement all through tailrace
21-159 (A1)	21-May-10	15:19:28	"C" Gate Aerial	Start EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-159 (A1)	21-May-10	15:20:17	"C" Gate Aerial	End EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-159 (A1)	21-May-10	15:30:00			C/B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-159 (A1)	21-May-10	16:28:22	"C" Gate Aerial	Start EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-159 (A1)	21-May-10	16:30:00			C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-159 (A1)	21-May-10	16:49:00	"C" Gate Aerial	End EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-159 (A1)	21-May-10	17:30:00			C/B/A	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-159 (A1)	21-May-10	18:30:00			A/B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-159 (A1)	21-May-10	19:30:00			A/B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-159 (A1)	21-May-10	20:17:16	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	A	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5			3		
21-159 (A1)	21-May-10	20:30:00			A/B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
21-159 (A1)	21-May-10	20:55:13	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C		down		63.5	7	1,2,3,4,5,6,7,8,9,10,11			
21-159 (A1)	21-May-10	22:50:05	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A	down	stay		63.5	1	2,5			
21-159 (A1)	22-May-10	5:19:02	Lapidum (West Shore) (Near-Field)	Start Lower River		9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					
21-159 (A1)	23-May-10	12:45:58	Lapidum (West Shore) (Near-Field)	End Lower River		38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C	up	stay		67.9	4	2,5,6,7,8,9			
21-159 (A1)	24-May-10	13:04:40	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C	up	stay		69.6	6	2,3,4,5,6,7,8,9,11			
21-159 (A1)	24-May-10	13:30:00			E	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-159 (A1)	24-May-10	14:30:00			E	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-159 (A1)	24-May-10	15:30:00			E	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-159 (A1)	24-May-10	16:30:00			E	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-159 (A1)	24-May-10	17:30:00			E	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-159 (A1)	24-May-10	18:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-159 (A1)	24-May-10	19:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-159 (A1)	24-May-10	20:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
21-159 (A1)	24-May-10	21:30:00				60320	0	4610	6230																			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3
21-159 (A1)	25-May-10	18:29:58	"C" Gate Aerial	End EFL Aerial Detection	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-159 (A1)	25-May-10	18:30:00			A/B/C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-159 (A1)	25-May-10	19:30:00			A/B/C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-159 (A1)	25-May-10	20:30:00			B	65920	5540	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C	up	stay		70.2	6	1,2,3,4,5,6,7,8,9,11			
21-159 (A1)	25-May-10	21:30:00				65920	5540	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-159 (A1)	25-May-10	22:30:00				65920	5540	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-159 (A1)	25-May-10	23:30:00				65920	5540	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
21-159 (A1)	26-May-10	0:30:00				27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A	down	stay		71.0	6	2,4,5,6,7			
21-159 (A1)	26-May-10	0:45:48	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0			3		
21-159 (A1)	26-May-10	1:18:26	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A		down		71.0	3	2,4,5,6,7			
21-159 (A1)	26-May-10	1:30:00			E	27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0					
21-159 (A1)	26-May-10	2:30:00			E	27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0					
21-159 (A1)	26-May-10	3:30:00			E	27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0					
21-159 (A1)	26-May-10	4:30:00			E	27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0					
21-159 (A1)	26-May-10	4:35:36	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0					
21-159 (A1)	26-May-10	5:30:00				27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0					
21-159 (A1)	26-May-10	6:30:00				27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0					
21-159 (A1)	26-May-10	7:30:00				27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0					
21-159 (A1)	26-May-10	8:30:00				27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0					
21-159 (A1)	26-May-10	9:30:00				27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0					
21-159 (A1)	26-May-10	10:30:00				36240	0	4660	0	5870	4720	6090	6160	8740	0	0	0	None	C	up	stay		71.0	4	2,4,5,6,7,8			
21-159 (A1)	26-May-10	10:41:57	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	36240	0	4660	0	5870	4720	6090	6160	8740	0	0	0	None	C		up		71.0	4	2,4,5,6,7,8			After increase in Gen Foray starts
21-159 (A1)	26-May-10	11:15:45	"C" Gate Aerial	Start EFL Aerial Detection	C	36240	0	4660	0	5870	4720	6090	6160	8740	0	0	0	None	C				71.0					
21-159 (A1)	26-May-10	11:30:00			A/B/C	36240	0	4660	0	5870	4720	6090	6160	8740	0	0	0	None	C				71.0					
21-159 (A1)	26-May-10	11:41:02	"C" Gate Entrance Dropper	Start EFL	C	36240	0	4660	0	5870	4720	6090	6160	8740	0	0	0	None	C				71.0					
21-159 (A1)	26-May-10	12:00:54	"A" Gate Crowder Dropper	End EFL	C	36240	0	4660	0	5870	4720	6090	6160	8740	0	0	0	None	C				71.0					
21-159 (A1)	26-May-10	12:08:15	"C" Gate Aerial	End EFL Aerial Detection	C	36240	0	4660	0	5870	4720	6090	6160	8740	0	0	0	None	C				71.0					
21-159 (A1)	26-May-10	12:30:00			C/B	36240	0	4660	0	5870	4720	6090	6160	8740	0	0	0	None	C				71.0					
21-159 (A1)	26-May-10	13:30:00			B	51060	0	4660	6080	5870	4720	6090	6160	8740	0	0	8740	None	C	up	stay		71.0	5	2,3,4,5,6,7,8,11			
21-159 (A1)	26-May-10	14:30:00			A/B	60060	0	4660	6080	5870	4720	6090	6160	8740	9000	0	8740	None	C	up	stay		71.0	6	2,3,4,5,6,7,8,9,11			
21-159 (A1)	26-May-10	15:30:00			A/B	60060	0	4660	6080	5870	4720	6090	6160	8740	9000	0	8740	None	C				71.0					
21-159 (A1)	26-May-10	16:30:00			A/B	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C	up	stay		71.0	7	1,2,3,4,5,6,7,8,9,10,11			
21-159 (A1)	26-May-10	17:30:00			B/C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-159 (A1)	26-May-10	18:30:00			A/B	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-159 (A1)	26-May-10	19:30:00			A/B	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					Full house and scattered throughout the tailrace
21-159 (A1)	26-May-10	19:44:37	"A" Gate Aerial	Start EFL Aerial Detection	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-159 (A1)	26-May-10	19:44:45	"A" Gate Aerial	End EFL Aerial Detection	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-159 (A1)	26-May-10	20:00:15	"A" Gate Aerial	Start EFL Aerial Detection	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-159 (A1)	26-May-10	20:26:03	"A" Gate Aerial	End EFL Aerial Detection	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-159 (A1)	26-May-10	20:30:00			B/C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-159 (A1)	26-May-10	20:41:30	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0				3	
21-159 (A1)	26-May-10	20:46:34	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C		down		71.0	7	1,2,3,4,5,6,7,8,9,10,11			
21-159 (A1)	26-May-10	21:30:00			E	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-159 (A1)	26-May-10	22:30:00			E	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-159 (A1)	26-May-10	22:51:44	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
21-159 (A1)	27-May-10	5:16:37	Lapidum (West Shore) (Near-Field)	Start Lower River		9070	0	4450	0	0	4620	0	0	0	0	0	0	None	A	down	stay		73.1	1	2,5			
21-159 (A1)	27-May-10	17:21:00	Tomes Landing (East Shore) (Near-Field)	End Lower River		73720	5340	4450	6070	5920	4620	5780	6060	8740	9070	8960	8710	None	C	up	stay		73.1	7	1,2,3,4,5,6,7,8,9,10,11			
21-159 (A1)	28-May-10	5:44:34	Rowland Island West (Near-Field)	Start Tailrace Detection 3	E	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A	down	stay		74.3	1	2,5			
21-159 (A1)	28-May-10	6:06:09	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	8980																						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI3	
21-159 (A1)	28-May-10	20:30:00			A/B	50650	0	4380	6060	5890	4600	5950	6110	8750	8910	0	0	None	C					74.3					
21-159 (A1)	28-May-10	21:30:00			A/B	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A	down	stay			1	2,5				
21-159 (A1)	28-May-10	22:30:00			A/B	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A					74.3					
21-159 (A1)	28-May-10	23:30:00			A/B	8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A					74.3					
21-159 (A1)	29-May-10	0:30:00			A/B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	1:30:00			A/B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	2:30:00			A/B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	3:30:00			A/B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	4:30:00			A/B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	5:30:00			A/B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	6:30:00			A/B/C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	7:30:00			A/B/C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	8:04:09	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	8:04:48	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	8:30:00			A/B/C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	8:38:18	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	8:39:50	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	9:08:32	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	9:09:20	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	9:30:00			A/B/C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	10:30:00			A/B/C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	11:30:00			A/B/C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	12:30:00			A/B/C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	12:48:22	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	12:50:10	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7					
21-159 (A1)	29-May-10	13:30:00			A/B/C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C	up	stay			3	2,5,6,7,8				
21-159 (A1)	29-May-10	14:30:00			A/B	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C					74.7					
21-159 (A1)	29-May-10	15:30:00			A/B	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C					74.7					
21-159 (A1)	29-May-10	16:30:00			B	38730	0	4220	0	0	4320	6160	6230	8780	9020	0	0	None	C					74.7				With the addition of one more lg unit more time spent in zones A & B	
21-159 (A1)	29-May-10	17:30:00			A/B/C	38730	0	4220	0	0	4320	6160	6230	8780	9020	0	0	None	C					74.7					
21-159 (A1)	29-May-10	18:30:00			B/A	38730	0	4220	0	0	4320	6160	6230	8780	9020	0	0	None	C					74.7					
21-159 (A1)	29-May-10	19:30:00			B/A	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C					74.7					
21-159 (A1)	29-May-10	20:30:00			A/B	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C					74.7					
21-159 (A1)	29-May-10	21:30:00			A/B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A	down	stay			1	2,5				
21-159 (A1)	29-May-10	22:12:10	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A					74.7			3		
21-159 (A1)	NA	NA	NA	Transition Downstream 5 (Upper Tailrace to Tailrace)														None	A										
21-159 (A1)	NA	NA	NA	End Tailrace Detection 3														None	A										
21-159 (A1)	30-May-10	6:05:28	Lapidum (West Shore) (Near-Field)	Start Lower River		8200	0	4040	0	0	4160	0	0	0	0	0	0	None	A					76.2					
21-159 (A1)	01-Jun-10	14:00:51	Tomes Landing (East Shore) (Near-Field)	End Detections		62560	5330	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C					77.3					



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1
54-137 (A1)	07-May-10	11:16:00	Conowingo Tailrace	Release - Between Units 3 & 5		37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4					
54-137 (A1)	07-May-10	16:12:38	Conowingo Tailrace Unit 3 (Mid-Field)	Start Tailrace Detection 1	A	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		69.4	6	2,4,5,6,7,8,9,11			
54-137 (A1)	07-May-10	16:12:38	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4					
54-137 (A1)	07-May-10	16:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4					
54-137 (A1)	07-May-10	17:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4					
54-137 (A1)	07-May-10	18:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4					
54-137 (A1)	07-May-10	19:12:47	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4					
54-137 (A1)	07-May-10	19:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4				2	
54-137 (A1)	07-May-10	19:44:00	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C		down		69.4			0		drop back, no change in generation
54-137 (A1)	07-May-10	19:46:31	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4					
54-137 (A1)	07-May-10	20:57:55	Spencer Island West (Near-Field)	Start Lower River	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4					
54-137 (A1)	15-May-10	14:42:28	Spencer Island West (Near-Field)	End Lower River	E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
54-137 (A1)	15-May-10	NA	NA	Start Tailrace Detection 2														None	A			60.4						
54-137 (A1)	15-May-10	NA	NA	Transition Upstream 2 (Tailrace to Upper Tailrace)														None	A			60.4						
54-137 (A1)	15-May-10	18:20:15	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C	up		60.4	6	1,2,3,4,5,6,7,9,10,11			move up, back and forth, slight increase in generation	
54-137 (A1)	15-May-10	18:30:00			A/B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C			60.4						
54-137 (A1)	15-May-10	19:18:31	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C			60.4						
54-137 (A1)	15-May-10	NA	NA	Transition Downstream 2 (Upper Tailrace to Tailrace)														None	A			60.4						
54-137 (A1)	15-May-10	NA	NA	End Tailrace Detection 2														None	A			60.4						
54-137 (A1)	15-May-10	20:50:57	Spencer Island West (Near-Field)	Start Lower River		32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	stay	60.4						
54-137 (A1)	16-May-10	8:33:27	Tomes Landing (East Shore) (Near-Field)	End Lower River		41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	up	stay	63.6						
54-137 (A1)	16-May-10	NA	NA	Start Tailrace Detection 3														None	A			63.6						
54-137 (A1)	16-May-10	NA	NA	Transition Upstream 3 (Tailrace to Upper Tailrace)														None	A			63.6						
54-137 (A1)	16-May-10	14:54:44	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			63.6	4	2,3,4,5,6,7,8				
54-137 (A1)	16-May-10	15:30:00			B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			63.6						
54-137 (A1)	16-May-10	16:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C			63.6						
54-137 (A1)	16-May-10	17:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C	up	stay	63.6	7	1,2,3,4,5,6,7,8,9,10,11	2		no response to generation	
54-137 (A1)	16-May-10	18:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C			63.6						
54-137 (A1)	16-May-10	19:30:00			A/B	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C			63.6						
54-137 (A1)	16-May-10	20:18:02	"C" Gate Aerial	Start EFL Aerial Detection	C	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C			63.6						
54-137 (A1)	16-May-10	20:19:58	"C" Gate Aerial	End EFL Aerial Detection	C	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C			63.6						
54-137 (A1)	16-May-10	20:19:58	"C" Gate Aerial	End Upper Tailrace Detection (End UT Foray 3)	C	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C			63.6						
54-137 (A1)	16-May-10	NA	NA	Transition Downstream 3 (Upper Tailrace to Tailrace)														None	A			63.6						
54-137 (A1)	16-May-10	NA	NA	End Tailrace Detection 3														None	A			63.6						
54-137 (A1)	16-May-10	22:00:39	Spencer Island West (Near-Field)	Start Lower River		32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A	down	stay	63.6						
54-137 (A1)	17-May-10	6:41:00	Spencer Island West (Near-Field)	End Lower River		42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	up	stay	64.7						
54-137 (A1)	17-May-10	NA	NA	Start Tailrace Detection 4														None	A			64.7						
54-137 (A1)	17-May-10	NA	NA	Transition Upstream 4 (Tailrace to Upper Tailrace)														None	A			64.7						
54-137 (A1)	17-May-10	11:56:11	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C	up	stay	64.7	7	2,3,4,5,6,7,8,9,10,11	1		move back and forth, no change in generation	
54-137 (A1)	17-May-10	12:30:00			A/B/C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			64.7						
54-137 (A1)	17-May-10	13:30:00			B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			64.7						
54-137 (A1)	17-May-10	13:39:34	"A" Gate Aerial	Start EFL Aerial Detection	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			64.7						
54-137 (A1)	17-May-10	13:49:00	"C" Gate Aerial	End EFL Aerial Detection	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			64.7						
54-137 (A1)	17-May-10	15:07:38	"C" Gate Aerial	Start EFL Aerial Detection	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			64.7						
54-137 (A1)	17-May-10	15:18:55	"C" Gate Aerial	End EFL Aerial Detection	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			64.7						
54-137 (A1)	17-May-10	15:30:00			A/B/C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			64.7						
54-137 (A1)	17-May-10	16:30:00			A/B/C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			64.7						
54-137 (A1)	17-May-10	17:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			64.7						
54-137 (A1)	17-May-10	18:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			64.7						
54-137 (A1)	17-May-10	19:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C			64.7						
54-137 (A1)	17-May-10	20:30:00				69060	0	4660																				

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1
54-137 (A1)	18-May-10	14:07:42	"C" Gate Aerial	Start EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	18-May-10	14:08:19	"C" Gate Aerial	End EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	18-May-10	14:30:00			A/B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	18-May-10	15:30:00			A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	18-May-10	15:45:48	"C" Gate Aerial	Start EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	18-May-10	16:13:46	"C" Gate Aerial	End EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	18-May-10	16:30:00			B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	18-May-10	17:30:00			B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	18-May-10	18:30:00			B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	18-May-10	19:30:00			B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	18-May-10	20:04:24	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	A	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	18-May-10	NA	NA	Transition Downstream 4 (Upper Tailrace to Tailrace)																				64.5				
54-137 (A1)	18-May-10	NA	NA	End Tailrace Detection 4																				64.5				
54-137 (A1)	18-May-10	21:56:24	Lapidum (West Shore) (Near-Field)	Start Lower River		73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-137 (A1)	20-May-10	10:27:00	Lapidum (West Shore) (Near-Field)	End Lower River		38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C	down	stay		62.5					
54-137 (A1)	20-May-10	NA	NA	Start Tailrace Detection 5																			62.5					
54-137 (A1)	20-May-10	NA	NA	Transition Upstream 5 (Tailrace to Upper Tailrace)																			62.5					
54-137 (A1)	20-May-10	14:39:28	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay		62.5	6	1,2,3,4,5,6,7,8,9,11	1	move east as generation drop	
54-137 (A1)	20-May-10	15:49:02	"C" Gate Aerial	Start EFL Aerial Detection	C	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C	down	stay		62.5	4	2,5,6,7,8,11	1		
54-137 (A1)	20-May-10	15:57:57	"A" Gate Aerial	End EFL Aerial Detection	C	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C				62.5					
54-137 (A1)	20-May-10	17:03:11	"C" Gate Aerial	Start EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A	down	stay		62.5	1	2,5,6	1	no response to generation	
54-137 (A1)	20-May-10	17:12:39	"C" Gate Aerial	End EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
54-137 (A1)	20-May-10	18:43:24	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
54-137 (A1)	20-May-10	21:13:35	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay		62.5					
54-137 (A1)	21-May-10	5:01:37	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A	down	stay		63.5					
54-137 (A1)	21-May-10	5:14:50	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5	1	2,5	1	move up and east, no change in generation	
54-137 (A1)	21-May-10	6:09:37	"A" Gate Aerial	Start EFL Aerial Detection	C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
54-137 (A1)	21-May-10	6:18:12	"C" Gate Aerial	End EFL Aerial Detection	C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
54-137 (A1)	21-May-10	6:36:22	"C" Gate Aerial	Start EFL Aerial Detection	C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
54-137 (A1)	21-May-10	6:36:46	"C" Gate Aerial	End EFL Aerial Detection	C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
54-137 (A1)	21-May-10	8:42:03	"A" Gate Aerial	Start EFL Aerial Detection	C	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
54-137 (A1)	21-May-10	9:10:50	"C" Gate Upstream Dropper	Start EFL	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C	up	stay		63.5	4	2,5,6,7,8,9,10	1	no response to generation	
54-137 (A1)	21-May-10	12:00:40	"A" Gate Crowder Dropper	End EFL	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5					
54-137 (A1)	21-May-10	12:08:26	"C" Gate Aerial	End EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5					
54-137 (A1)	21-May-10	16:51:18	"C" Gate Aerial	Start EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C	down	stay		63.5	7	1,2,3,4,5,6,7,8,9,10,11	1	no response to generation	
54-137 (A1)	21-May-10	17:03:09	"C" Gate Aerial	End EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
54-137 (A1)	21-May-10	18:33:54	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5				move west 1.5 hrs after increase in genertaion	
54-137 (A1)	21-May-10	NA	NA	Transition Downstream 6 (Upper Tailrace to Tailrace)																			63.5					
54-137 (A1)	21-May-10	NA	NA	End Tailrace Detection 5																			63.5					
54-137 (A1)	21-May-10	21:23:36	Lapidum (West Shore) (Near-Field)	Start Lower River		74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					
54-137 (A1)	21-May-10	21:33:15	Lapidum (West Shore) (Near-Field)	End Detections		74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-149 (A1)	07-May-10	15:20:00	Conowingo Tailrace	Release - Downstream of "C" Gate		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-149 (A1)	07-May-10	19:34:17	Conowingo Tailrace Unit 7 (Mid-Field)	Start Tailrace Detection 1	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4	6	2,3,4,5,6,7,8,9,11	1		
54-149 (A1)	07-May-10	19:34:17	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-149 (A1)	07-May-10	20:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-149 (A1)	07-May-10	21:30:00				34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	None	A	down	stay		69.4	3	2,3,4,5,6,7	1		no response to generation	
54-149 (A1)	07-May-10	22:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay		69.4	2	2,4,5,7	1		no response to generation	
54-149 (A1)	07-May-10	23:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				69.4						
54-149 (A1)	08-May-10	0:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		69.2	1	2,5	1		no response to generation	
54-149 (A1)	08-May-10	1:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-149 (A1)	08-May-10	2:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-149 (A1)	08-May-10	3:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-149 (A1)	08-May-10	4:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-149 (A1)	08-May-10	5:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-149 (A1)	08-May-10	6:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-149 (A1)	08-May-10	7:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-149 (A1)	08-May-10	8:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-149 (A1)	08-May-10	9:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-149 (A1)	08-May-10	10:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-149 (A1)	08-May-10	11:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	up	stay		69.2	4	2,5,6,7,8,9	1		no response to generation	
54-149 (A1)	08-May-10	12:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-149 (A1)	08-May-10	13:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-149 (A1)	08-May-10	14:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-149 (A1)	08-May-10	15:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-149 (A1)	08-May-10	16:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-149 (A1)	08-May-10	17:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-149 (A1)	08-May-10	18:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-149 (A1)	08-May-10	19:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-149 (A1)	08-May-10	20:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-149 (A1)	08-May-10	21:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-149 (A1)	08-May-10	22:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		69.2	1	2,5	1		no response to generation	
54-149 (A1)	08-May-10	23:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-149 (A1)	09-May-10	0:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2	1	2,5	1		no response to generation	
54-149 (A1)	09-May-10	1:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	2:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	3:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	4:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	5:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	6:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	7:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	7:56:37	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A		down		67.2						drop back, no change in generation
54-149 (A1)	09-May-10	8:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	9:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	10:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	11:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A	up	stay		67.2	3	2,3,4,5,6,7	0			
54-149 (A1)	09-May-10	12:07:10	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	12:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	12:42:30	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A		up		67.2						move up 35 mins after increase in generation
54-149 (A1)	09-May-10	12:45:45	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	A	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	13:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	14:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10	15:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2						
54-149 (A1)	09-May-10																												

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-149 (A1)	14-May-10	13:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay		58.4	7	1,2,3,4,5,6,7,8,9,10,11	0			
54-149 (A1)	14-May-10	14:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-149 (A1)	14-May-10	15:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-149 (A1)	14-May-10	15:52:57	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C		up		58.4						move up 3 hrs after increase in generation
54-149 (A1)	14-May-10	16:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4			2			back and forth, no change in generation
54-149 (A1)	14-May-10	17:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-149 (A1)	14-May-10	18:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-149 (A1)	14-May-10	19:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-149 (A1)	14-May-10	20:30:00			E/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						drop back then move up, no change in generation
54-149 (A1)	14-May-10	21:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-149 (A1)	14-May-10	22:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-149 (A1)	14-May-10	23:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A	down	stay		58.4	1	2,5	1			no response to generation
54-149 (A1)	15-May-10	0:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	1:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	2:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	3:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	4:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	5:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	6:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	up	stay		60.4	3	2,3,4,5,6,7				
54-149 (A1)	15-May-10	7:30:00			A/B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4			3			move back and forth 30 mins after generation increase
54-149 (A1)	15-May-10	8:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	9:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	10:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	11:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	12:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	13:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	14:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C	up	stay		60.4	6	1,2,3,4,5,6,7,9,10,11	3			no response to generation
54-149 (A1)	15-May-10	15:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4						
54-149 (A1)	15-May-10	16:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4						
54-149 (A1)	15-May-10	17:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4						
54-149 (A1)	15-May-10	18:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4						
54-149 (A1)	15-May-10	19:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4						
54-149 (A1)	15-May-10	20:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	stay		60.4	3	2,3,4,5,6,7	3			no response to generation
54-149 (A1)	15-May-10	21:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	22:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-149 (A1)	15-May-10	23:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-149 (A1)	16-May-10	0:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A	down	stay		63.6	1	5,7	3			no response to generation
54-149 (A1)	16-May-10	1:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6						
54-149 (A1)	16-May-10	2:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6						
54-149 (A1)	16-May-10	3:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6						
54-149 (A1)	16-May-10	4:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6						
54-149 (A1)	16-May-10	5:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	up	stay		63.6	4	2,3,4,5,6,7,8	3			no response to generation
54-149 (A1)	16-May-10	6:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6						
54-149 (A1)	16-May-10	7:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6						
54-149 (A1)	16-May-10	8:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6						
54-149 (A1)	16-May-10	9:30:00			B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6						
54-149 (A1)	16-May-10	10:30:00			B/C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6						
54-149 (A1)	16-May-10	11:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6						
54-149 (A1)	16-May-10	12:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6						
54-149 (A1)	16-May-10	13:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740															

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1		
54-149 (A1)	17-May-10	16:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7						
54-149 (A1)	17-May-10	17:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7						
54-149 (A1)	17-May-10	18:16:57	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C		down			64.7		0		drop back , no change in generation		
54-149 (A1)	17-May-10	19:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7						
54-149 (A1)	17-May-10	19:56:35	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7						
54-149 (A1)	17-May-10	20:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7						
54-149 (A1)	17-May-10	21:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	down	stay		64.7	4	2,3,4,5,6,7,8	0		no response to generation		
54-149 (A1)	17-May-10	22:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7							
54-149 (A1)	17-May-10	23:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7							
54-149 (A1)	18-May-10	0:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C				64.5							
54-149 (A1)	18-May-10	1:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C				64.5							
54-149 (A1)	18-May-10	2:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C				64.5	1	2,5	0		no response to generation		
54-149 (A1)	18-May-10	3:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A	down	stay		64.5							
54-149 (A1)	18-May-10	4:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5							
54-149 (A1)	18-May-10	5:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5							
54-149 (A1)	18-May-10	6:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5			3		move up and back and forth 4:40 hrs after decrease in generation		
54-149 (A1)	18-May-10	6:42:31	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A		up		64.5							
54-149 (A1)	18-May-10	7:30:00				A/B	9100	0	4380	0	0	4720	0	0	0	0	0	None	A				64.5							
54-149 (A1)	18-May-10	8:30:00				A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	None	A				64.5							
54-149 (A1)	18-May-10	9:30:00				C/B	9100	0	4380	0	0	4720	0	0	0	0	0	None	A				64.5			2		back and forth mid to east, no change in generation		
54-149 (A1)	18-May-10	10:25:07	"A" Gate Aerial	Start EFL Aerial Detection	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5							
54-149 (A1)	18-May-10	10:30:00				B/C	9100	0	4380	0	0	4720	0	0	0	0	0	None	A				64.5							
54-149 (A1)	18-May-10	10:32:09	"A" Gate Aerial	End EFL Aerial Detection	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5							
54-149 (A1)	18-May-10	10:33:34	"A" Gate Entrance Dropper	Single EFL Peek - Don't Count	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5							
54-149 (A1)	18-May-10	11:30:00				A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	None	A				64.5			3		increase back and forth, no change in generation		
54-149 (A1)	18-May-10	12:30:00				A	9100	0	4380	0	0	4720	0	0	0	0	0	None	A				64.5							
54-149 (A1)	18-May-10	13:30:00				A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C	up	stay		64.5	7	1,2,3,4,5,6,7,8,9,10,11	3		no response to generation	
54-149 (A1)	18-May-10	14:30:00				A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5						
54-149 (A1)	18-May-10	15:30:00				B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5						
54-149 (A1)	18-May-10	15:32:02	"C" Gate Aerial	Start EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5							
54-149 (A1)	18-May-10	15:32:50	"C" Gate Aerial	End EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5							
54-149 (A1)	18-May-10	16:30:00				B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5						
54-149 (A1)	18-May-10	16:19:21	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5							
54-149 (A1)	18-May-10	16:49:05	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C		down		64.5						drop back no change in generation	
54-149 (A1)	18-May-10	17:30:00				E	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5						
54-149 (A1)	18-May-10	18:30:00				E	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5						
54-149 (A1)	18-May-10	19:01:53	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5							
54-149 (A1)	19-May-10	17:01:29	Spencer Island West (Near-Field)	Start Lower River		48320	0	0	5970	5750	0	6010	5940	8150	8970	0	7530	None	C	down	stay		63.4							
54-149 (A1)	22-May-10	16:33:50	Lapidum (West Shore) (Near-Field)	End Lower River		50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C	up	stay		65.4							
54-149 (A1)	NA	NA	NA	Start Tailrace Detection 3														None	A											
54-149 (A1)	NA	NA	NA	Transition Upstream 5 (Tailrace to Upper Tailrace)														None	A											
54-149 (A1)	25-May-10	15:48:02	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C	up	up		70.2	6	2,3,4,5,6,7,8,9,11	3		move back and forth after days in lower river		
54-149 (A1)	25-May-10	16:30:00				A/B	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
54-149 (A1)	25-May-10	17:30:00				A/B	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
54-149 (A1)	25-May-10	18:30:00				A/B	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
54-149 (A1)	25-May-10	19:15:00	"C" Gate Aerial	Start EFL Aerial Detection	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2							
54-149 (A1)	25-May-10	19:19:28	"A" Gate Aerial	End EFL Aerial Detection	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2							
54-149 (A1)	25-May-10	19:30:00				A/B/C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
54-149 (A1)	25-May-10	19:33:22	"A" Gate Aerial	Start EFL Aerial Detection	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None												

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-149 (A1)	26-May-10	15:54:04	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C	up	down		71.0	7	1,2,3,4,5,6,7,8,9,10,11	0		drop back, increase in generation	
54-149 (A1)	26-May-10	16:30:00				74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						
54-149 (A1)	26-May-10	17:30:00				74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						
54-149 (A1)	26-May-10	17:51:36	Lapidum (West Shore) (Near-Field)	Start Lower River		74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						
54-149 (A1)	26-May-10	17:59:05	Lapidum (West Shore) (Near-Field)	End Detections		74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-151 (A1)	07-May-10	16:14:00	Conowingo Tailrace	Release - Downstream of "C" Gate		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-151 (A1)	07-May-10	17:34:52	Rowland Island East (Near-Field)	Start Tailrace Detection 1		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4	6	2,3,4,5,6,7,8,9,11	0	move up to east side of Rowland Is then drop back, no change in generation	
54-151 (A1)	07-May-10	17:34:52	Rowland Island East (Near-Field)	End Tailrace Detection 1		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-151 (A1)	12-May-10	4:18:20	Lapidum (West Shore) (Near-Field)	Start Lower River		9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A					60.2	1	2,5			
54-151 (A1)	12-May-10	4:27:32	Lapidum (West Shore) (Near-Field)	End Lower River		9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A					60.2					
54-151 (A1)	12-May-10	14:16:12	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A					60.2	1	2,5,7	2	move back and forth west to east of Rowland Is, constant generation	
54-151 (A1)	12-May-10	14:17:06	Rowland Island East (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	F	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A					60.2					
54-151 (A1)	12-May-10	14:30:00			E/F	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A					60.2					
54-151 (A1)	12-May-10	15:08:49	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A					60.2					
54-151 (A1)	12-May-10	15:30:00			A/B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A					60.2			2	move back and forth in upper tailrace, no change in generation	
54-151 (A1)	12-May-10	16:30:00			B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A					60.2					
54-151 (A1)	12-May-10	17:30:00			A/B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A					60.2					
54-151 (A1)	12-May-10	17:56:36	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A					60.2					
54-151 (A1)	12-May-10	18:07:00	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)		74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2	7	1,2,3,4,5,6,7,8,9,10,11			
54-151 (A1)	12-May-10	18:30:00			E	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2			0	drop back 23 min after increase in generation	
54-151 (A1)	12-May-10	19:24:33	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)		74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2					
54-151 (A1)	12-May-10	19:25:35	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)		74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2					
54-151 (A1)	12-May-10	19:30:00			E	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2					
54-151 (A1)	12-May-10	19:58:38	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)		74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2					
54-151 (A1)	12-May-10	20:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2					
54-151 (A1)	12-May-10	21:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2					
54-151 (A1)	12-May-10	22:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2					
54-151 (A1)	12-May-10	23:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C					60.2					
54-151 (A1)	13-May-10	0:30:00				41450	0	3970	6180	5980	4550	5830	6160	8780	0	0	0	None	C					58.8	4	2,3,4,5,6,7,8			
54-151 (A1)	13-May-10	1:30:00				41450	0	3970	6180	5980	4550	5830	6160	8780	0	0	0	None	C					58.8					
54-151 (A1)	13-May-10	2:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8	1	2,5			
54-151 (A1)	13-May-10	3:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	4:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	5:16:55	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	5:24:15	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)		8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	5:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	5:33:37	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)		8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	6:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8			2	back and forth west-center upper tailrace, no change in generation	
54-151 (A1)	13-May-10	6:42:19	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)		8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	7:02:31	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	A	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	7:03:49	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)		8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	7:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8			0	drop back, no change in generation	
54-151 (A1)	13-May-10	8:08:53	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	8:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8			2	move up west to center, no change in generation	
54-151 (A1)	13-May-10	9:30:00			B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	10:29:35	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	10:30:00			B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	10:55:45	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)		8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	11:05:36	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)		8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	11:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8			0	drop back, no change in generation	
54-151 (A1)	13-May-10	11:58:03	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)		8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	12:03:57	"A" Gate Aerial	Start EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8			2	move up, mostly zone C, no change in generation	
54-151 (A1)	13-May-10	12:16:40	"A" Gate Aerial	End EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-151 (A1)	13-May-10	12:30:00			B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1
54-151 (A1)	14-May-10	15:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
54-151 (A1)	14-May-10	16:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
54-151 (A1)	14-May-10	17:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
54-151 (A1)	14-May-10	18:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
54-151 (A1)	14-May-10	19:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
54-151 (A1)	14-May-10	20:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
54-151 (A1)	14-May-10	21:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
54-151 (A1)	14-May-10	22:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
54-151 (A1)	14-May-10	23:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4	1	2,5			
54-151 (A1)	15-May-10	0:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	1:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	2:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	3:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	4:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	5:30:00				9400	0	4550	0	0	4850	0	0	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	6:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4	3	2,3,4,5,6,7			
54-151 (A1)	15-May-10	7:30:00			A/B	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	8:30:00			B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	9:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	10:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	11:30:00			A/B	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	12:30:00			A/B	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	13:30:00			B/C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	13:37:19	"A" Gate Aerial	Start EFL Aerial Detection	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4				1	stay around zone C 53 minutes
54-151 (A1)	15-May-10	13:42:42	"C" Gate Aerial	End EFL Aerial Detection	C	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	14:30:00			C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4	6	1,2,3,4,5,6,7,9,10,11			
54-151 (A1)	15-May-10	15:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
54-151 (A1)	15-May-10	16:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
54-151 (A1)	15-May-10	17:30:00			A/B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
54-151 (A1)	15-May-10	18:19:27	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)		63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
54-151 (A1)	15-May-10	18:30:00			B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
54-151 (A1)	15-May-10	19:23:49	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
54-151 (A1)	15-May-10	19:30:00			E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4				0	drop back, no change in generation
54-151 (A1)	15-May-10	19:39:24	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)		63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
54-151 (A1)	15-May-10	20:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4	3	2,3,4,5,6,7			
54-151 (A1)	15-May-10	21:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	22:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
54-151 (A1)	15-May-10	23:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
54-151 (A1)	16-May-10	0:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6	1	5,7			
54-151 (A1)	16-May-10	1:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
54-151 (A1)	16-May-10	2:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
54-151 (A1)	16-May-10	3:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
54-151 (A1)	16-May-10	4:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
54-151 (A1)	16-May-10	5:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6	4	2,3,4,5,6,7,8			
54-151 (A1)	16-May-10	6:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)	16-May-10	6:35:02	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)		41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)	16-May-10	7:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6				3	move up, back and forth, no change in generation
54-151 (A1)	16-May-10	8:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)	16-May-10	9:30:00			A/B/C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)	16-May-10	10:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)	16-May-10	11:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)	16-May-10	12:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)	16-May-10	13:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)	16-May-10	14:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)	16-May-10	15:30:00			B/C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)	16-May-10	15:32:08	"C" Gate Aerial	Start EFL Aerial Detection	C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6				1	stay near ELF for 2 hrs, no change in generation
54-151 (A1)	16-May-10	15:46:54	"A" Gate Crowder Dropper	Start EFL	C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)	16-May-10	16:14:09	"A" Gate Crowder Dropper	End EFL	C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
54-151 (A1)																												

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1
54-151 (A1)	17-May-10	8:30:00			B/C	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C					64.7			2	move from C to center, no change in generation
54-151 (A1)	17-May-10	9:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C					64.7				
54-151 (A1)	17-May-10	10:30:00			B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C					64.7				
54-151 (A1)	17-May-10	11:30:00			B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7	7	2,3,4,5,6,7,8,9,10,11	1	move to zone C minutes after increase in generation
54-151 (A1)	17-May-10	11:40:15	"C" Gate Aerial	Start EFL Aerial Detection	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7				
54-151 (A1)	17-May-10	11:49:34	"A" Gate Aerial	End EFL Aerial Detection	C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7				
54-151 (A1)	17-May-10	12:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7				
54-151 (A1)	17-May-10	13:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7				
54-151 (A1)	17-May-10	14:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7				
54-151 (A1)	17-May-10	15:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7			2	move back and forth center -west, no change in generation
54-151 (A1)	17-May-10	16:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7				
54-151 (A1)	17-May-10	17:29:05	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7				
54-151 (A1)	17-May-10	17:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7				
54-151 (A1)	17-May-10	17:57:22	Rowland Island West (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7			0	drop back, no change in generation
54-151 (A1)	17-May-10	18:29:45	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7			1	move up, no change in generation
54-151 (A1)	17-May-10	18:30:00			E	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7			0	drop back, no change in generation
54-151 (A1)	17-May-10	19:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7				
54-151 (A1)	17-May-10	20:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C					64.7				
54-151 (A1)	17-May-10	21:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C					64.7	4	2,3,4,5,6,7,8		
54-151 (A1)	17-May-10	22:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C					64.7				
54-151 (A1)	17-May-10	23:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C					64.7				
54-151 (A1)	18-May-10	0:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C					64.5				
54-151 (A1)	18-May-10	1:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C					64.5				
54-151 (A1)	18-May-10	2:30:00				41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C					64.5				
54-151 (A1)	18-May-10	3:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5	1	2,5		
54-151 (A1)	18-May-10	4:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
54-151 (A1)	18-May-10	5:30:00				9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
54-151 (A1)	18-May-10	6:25:24	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5			3	move up, back and forth, no response to generation
54-151 (A1)	18-May-10	6:30:00			B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
54-151 (A1)	18-May-10	7:30:00			B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
54-151 (A1)	18-May-10	8:30:00			A/B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
54-151 (A1)	18-May-10	9:30:00			B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
54-151 (A1)	18-May-10	10:30:00			B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
54-151 (A1)	18-May-10	11:08:56	"C" Gate Aerial	Start EFL Aerial Detection	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
54-151 (A1)	18-May-10	11:09:21	"C" Gate Aerial	End EFL Aerial Detection	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
54-151 (A1)	18-May-10	11:30:00			A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
54-151 (A1)	18-May-10	12:30:00			C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A					64.5				
54-151 (A1)	18-May-10	13:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5	7	1,2,3,4,5,6,7,8,9,10,11		
54-151 (A1)	18-May-10	14:30:00			A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-151 (A1)	18-May-10	14:34:36	"C" Gate Aerial	Start EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-151 (A1)	18-May-10	14:55:56	"C" Gate Aerial	End EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-151 (A1)	18-May-10	15:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-151 (A1)	18-May-10	16:30:00			A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-151 (A1)	18-May-10	17:30:00			A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-151 (A1)	18-May-10	18:30:00			A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-151 (A1)	18-May-10	19:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-151 (A1)	18-May-10	20:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-151 (A1)	18-May-10	21:30:00				73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C					64.5				
54-151 (A1)	18-May-10	22:30:00				29580	0	4380	0	0	4720	5890	6060	8530	0	0	0	None	C					64.5	3	2,5,6,7,8		
54-151 (A1)	18-May-10	23:30:00				29580	0	4380	0	0	4720	5890	6060	8530	0	0	0	None										

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1
54-151 (A1)	20-May-10	5:30:00			B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
54-151 (A1)	20-May-10	6:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
54-151 (A1)	20-May-10	7:30:00			B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
54-151 (A1)	20-May-10	8:30:00			B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5	4	2,5,6,7,8,9			
54-151 (A1)	20-May-10	9:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
54-151 (A1)	20-May-10	10:30:00			B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
54-151 (A1)	20-May-10	11:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
54-151 (A1)	20-May-10	12:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
54-151 (A1)	20-May-10	13:30:00				64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5	6	1,2,3,4,5,6,7,8,9,11			
54-151 (A1)	20-May-10	14:30:00				64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5					
54-151 (A1)	20-May-10	15:30:00			B	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C				62.5	4	2,5,6,7,8,11			
54-151 (A1)	20-May-10	16:30:00				15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5	1	2,5,6			
54-151 (A1)	20-May-10	17:30:00			B	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
54-151 (A1)	20-May-10	17:41:20	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 9)		15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
54-151 (A1)	NA	NA	NA	Transition Downstream 9 (Upper Tailrace to Tailrace)														None	A									
54-151 (A1)	21-May-10	1:03:37	Lapidum (West Shore) (Near-Field)	Start Lower River		9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5					
54-151 (A1)	26-May-10	1:43:03	Lapidum (West Shore) (Near-Field)	End Detections		0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A				71.0						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NA11
54-156 (A1)	12-May-10	11:40:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
54-156 (A1)	12-May-10	11:46:00	Lapidum (West Shore) (Near-Field)	Start Lower River		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
54-156 (A1)	26-May-10	1:37:54	Lapidum (West Shore) (Near-Field)	End Lower River		27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A	up	stay		71.0					
54-156 (A1)	26-May-10	NA	NA	Start Tailrace Detection 1														None					71.0					
54-156 (A1)	26-May-10	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)														None					71.0					
54-156 (A1)	26-May-10	18:17:26	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C	up	stay		71.0	7	1,2,3,4,5,6,7,8,9,10,11	3	back and forth, no change in generation	
54-156 (A1)	26-May-10	18:30:00				74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
54-156 (A1)	26-May-10	19:12:00	"C" Gate Aerial	Start EFL Aerial Detection	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
54-156 (A1)	26-May-10	19:17:31	"C" Gate Aerial	End EFL Aerial Detection	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
54-156 (A1)	26-May-10	19:30:00				74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
54-156 (A1)	26-May-10	20:28:32	"A" Gate Aerial	Start EFL Aerial Detection	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
54-156 (A1)	26-May-10	20:30:00			A/B/C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
54-156 (A1)	26-May-10	20:34:31	"C" Gate Aerial	End EFL Aerial Detection	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
54-156 (A1)	26-May-10	20:34:31	"C" Gate Aerial	End Upper Tailrace Detection (End UT Foray 1)	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
54-156 (A1)	26-May-10	21:30:00				74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0					
54-156 (A1)	26-May-10	21:35:35	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C		down		71.0			0	drop back, no change in generation	
54-156 (A1)	26-May-10	23:07:57	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	36500	0	4660	0	5870	4720	6090	6160	0	9000	0	0	None	C	down	down		71.0	4	2,4,5,6,7,9	0		
54-156 (A1)	27-May-10	5:53:08	Lapidum (West Shore) (Near-Field)	Start Lower River		9070	0	4450	0	0	4620	0	0	0	0	0	0	None	A	down	down		73.1	1	2,5	0	drop out of tailrace, drop in generation	
54-156 (A1)	29-May-10	7:27:48	Lapidum (West Shore) (Near-Field)	End Lower River		8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7					
54-156 (A1)	29-May-10	NA	NA	Start Tailrace Detection 2														None					74.7					
54-156 (A1)	29-May-10	NA	NA	Transition Upstream 2 (Tailrace to Upper Tailrace)														None					74.7					
54-156 (A1)	29-May-10	12:51:10	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A		up		74.7	1	2,5	1		
54-156 (A1)	29-May-10	13:30:00			A/B	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C	up	stay		74.7	3	2,5,6,7,8	2	back and forth, increase in generation	
54-156 (A1)	29-May-10	13:54:47	"A" Gate Aerial	Start EFL Aerial Detection	C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7			1	move to ELF 1 hr after increase in generation	
54-156 (A1)	29-May-10	14:02:29	"C" Gate Aerial	End EFL Aerial Detection	C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7					
54-156 (A1)	29-May-10	14:25:12	"C" Gate Aerial	Start EFL Aerial Detection	C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7					
54-156 (A1)	29-May-10	14:30:00				29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7					
54-156 (A1)	29-May-10	14:34:23	"C" Gate Entrance Dropper	Start EFL	C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7					
54-156 (A1)	29-May-10	15:18:26	"C" Gate Entrance Dropper	End EFL	C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7					
54-156 (A1)	29-May-10	15:22:19	"C" Gate Aerial	End EFL Aerial Detection	C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7					
54-156 (A1)	29-May-10	15:26:45	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7			1	move to mid then drop out of tail race, no change in generation	
54-156 (A1)	29-May-10	NA	NA	Transition Downstream 2 (Upper Tailrace to Tailrace)														None					74.7					
54-156 (A1)	29-May-10	NA	NA	End Tailrace Detection 2														None					74.7					
54-156 (A1)	29-May-10	19:17:31	Tomes Landing (East Shore) (Near-Field)	Start Lower River		29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7					
54-156 (A1)	29-May-10	19:17:31	Tomes Landing (East Shore) (Near-Field)	End Detections		29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7					



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-167 (A1)	07-May-10	13:26:00	Conowingo Tailrace	Release - Downstream of "C" Gate		54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-167 (A1)	07-May-10	13:29:07	Conowingo Tailrace Unit 7 (Mid-Field)	Start Tailrace Detection 1	B	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4	5	2,4,5,6,7,8,9,11	1	move west, no change in generation	
54-167 (A1)	07-May-10	13:29:07	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-167 (A1)	07-May-10	13:30:00			B	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-167 (A1)	07-May-10	13:32:43	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	C	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4			2	move east, no change in generation	
54-167 (A1)	07-May-10	14:15:57	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	down			69.4	6	2,3,4,5,6,7,8,9,11	0	drop back, increase in generation	
54-167 (A1)	07-May-10	14:30:00			E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-167 (A1)	07-May-10	15:30:00			E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-167 (A1)	07-May-10	16:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-167 (A1)	07-May-10	17:30:00			E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-167 (A1)	07-May-10	18:30:00			E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-167 (A1)	07-May-10	19:30:00			E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-167 (A1)	07-May-10	20:18:44	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C					69.4					
54-167 (A1)	07-May-10	22:21:41	Spencer Island West (Near-Field)	Start Lower River		22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay			69.4	2	2,4,5,7	0	drop out of tailrace, decrease in generation	
54-167 (A1)	13-May-10	14:33:43	Spencer Island West (Near-Field)	End Lower River		8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay			58.8					
54-167 (A1)	13-May-10	19:15:51	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C	up	stay			58.8	6	1,2,3,4,5,6,7,8,9,11	0		
54-167 (A1)	13-May-10	19:30:00			E	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C					58.8					
54-167 (A1)	13-May-10	20:30:00				64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C					58.8					
54-167 (A1)	13-May-10	21:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay			58.8	1	2,5	0	no response to generation	
54-167 (A1)	13-May-10	22:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-167 (A1)	13-May-10	23:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A					58.8					
54-167 (A1)	14-May-10	0:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A					58.4					
54-167 (A1)	14-May-10	1:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A					58.4					
54-167 (A1)	14-May-10	2:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A					58.4					
54-167 (A1)	14-May-10	3:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A					58.4					
54-167 (A1)	14-May-10	4:08:35	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A					58.4					
54-167 (A1)	14-May-10	4:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A					58.4					
54-167 (A1)	14-May-10	5:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay			58.4	7	1,2,3,4,5,6,7,8,9,10,11	0	no response to generation	
54-167 (A1)	14-May-10	6:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C					58.4					
54-167 (A1)	14-May-10	7:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C					58.4					
54-167 (A1)	14-May-10	8:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C					58.4					
54-167 (A1)	14-May-10	9:19:20	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C		up			58.4					move up, no change in generation
54-167 (A1)	14-May-10	9:30:00			B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C					58.4					
54-167 (A1)	14-May-10	10:30:00			A/B/E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C					58.4			2	move back and forth, drop back around drop in generation?	
54-167 (A1)	14-May-10	11:30:00				30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C	down	stay			58.4	3	4,5,6,7,8			
54-167 (A1)	14-May-10	12:30:00				30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C					58.4					
54-167 (A1)	14-May-10	13:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay			58.4	7	1,2,3,4,5,6,7,8,9,10,11	2	stay in tailrace, increase in generation	
54-167 (A1)	14-May-10	14:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C					58.4					
54-167 (A1)	14-May-10	15:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C					58.4					
54-167 (A1)	14-May-10	16:27:27	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C					58.4					
54-167 (A1)	14-May-10	NA	NA	Transition Downstream 2 (Upper Tailrace to Tailrace)														None	A					58.4			2	drop out of tailrace, no change in generation	
54-167 (A1)	14-May-10	NA	NA	End Tailrace Detection 2														None	A					58.4					
54-167 (A1)	14-May-10	21:54:24	Spencer Island West (Near-Field)	Start Lower River		72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C					58.4					
54-167 (A1)	16-May-10	3:20:40	Spencer Island West (Near-Field)	End Lower River		10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A	down	stay			63.6					
54-167 (A1)	16-May-10	NA	NA	Start Tailrace Detection 3														None	A					63.6					
54-167 (A1)	16-May-10	NA	NA	Transition Upstream 3 (Tailrace to Upper Tailrace)														None	A					63.6					
54-167 (A1)	16-May-10	7:31:49	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	0	None	C	up	stay			63.6	4	2,3,4,5,6,7,8	2	move back and forth, no change in generation
54-167 (A1)	16-May-10	8:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C					63.6					
54-167 (A1)	16-May-10	9:30:00			B	41700	0	5020	6070	5860	4780	5710	5520	8740	0														







Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-167 (A1)	25-May-10	2:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
54-167 (A1)	25-May-10	3:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
54-167 (A1)	25-May-10	4:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
54-167 (A1)	25-May-10	5:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
54-167 (A1)	25-May-10	6:11:08	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	B	9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A		up		70.2				1	move up, no change in generation	
54-167 (A1)	25-May-10	6:30:00			A/B	9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2				2	back and forth, no change in generation	
54-167 (A1)	25-May-10	7:30:00			A/B	9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
54-167 (A1)	25-May-10	8:30:00			B	21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A	up	stay		70.2	2	2,5,6,7		3	move to center, then back and forth, increase in generation	
54-167 (A1)	25-May-10	9:30:00			B/C	21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A				70.2						
54-167 (A1)	25-May-10	10:30:00			A/B/C	21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A				70.2						
54-167 (A1)	25-May-10	11:30:00				21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A				70.2						
54-167 (A1)	25-May-10	12:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C	up	stay		70.2	6	2,3,4,5,6,7,8,9,11		3	no immediate response to generation	
54-167 (A1)	25-May-10	13:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
54-167 (A1)	25-May-10	14:12:33	"C" Gate Aerial	Start EFL Aerial Detection	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2				1	move zone C after 3 hrs of increased generation	
54-167 (A1)	25-May-10	14:30:00			C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
54-167 (A1)	25-May-10	14:35:28	"A" Gate Crowder Dropper	Start EFL	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
54-167 (A1)	25-May-10	14:46:53	"C" Gate Entrance Dropper	End EFL	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
54-167 (A1)	25-May-10	14:55:38	"C" Gate Aerial	End EFL Aerial Detection	C	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
54-167 (A1)	25-May-10	15:30:00			B	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2				1	move to center, no change in generation	
54-167 (A1)	25-May-10	16:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
54-167 (A1)	25-May-10	17:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
54-167 (A1)	25-May-10	18:12:55	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	A	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2				1	move west, no change in generation	
54-167 (A1)	25-May-10	NA	NA	Transition Downstream 8 (Upper Tailrace to Tailrace)														None	A				70.2						
54-167 (A1)	25-May-10	NA	NA	End Tailrace Detection 5														None	A				70.2						
54-167 (A1)	25-May-10	22:11:40	Lapidum (West Shore) (Near-Field)	Start Lower River		65920	5540	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C	up	stay		70.2						
54-167 (A1)	26-May-10	8:41:09	Lapidum (West Shore) (Near-Field)	End Lower River		27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A	down	stay		71.0						
54-167 (A1)	26-May-10	15:25:39	Rowland Island West (Near-Field)	Start Tailrace Detection 6	E	60060	0	4660	6080	5870	4720	6090	6160	8740	9000	0	8740	None	C	up	down		71.0	6	2,3,4,5,6,7,8,9,11		0		
54-167 (A1)	26-May-10	15:25:39	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	60060	0	4660	6080	5870	4720	6090	6160	8740	9000	0	8740	None	C				71.0						
54-167 (A1)	26-May-10	15:30:00				60060	0	4660	6080	5870	4720	6090	6160	8740	9000	0	8740	None	C				71.0						
54-167 (A1)	26-May-10	16:12:57	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	A	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C	up	up		71.0	7	1,2,3,4,5,6,7,8,9,10,11		1	move up, back and forth, increase in generation	
54-167 (A1)	26-May-10	16:30:00			A/B	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						
54-167 (A1)	26-May-10	16:55:39	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 9)	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						
54-167 (A1)	26-May-10	17:15:37	Rowland Island West (Near-Field)	Transition Downstream 9 (Upper Tailrace to Tailrace)	E	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C		down		71.0					0	drop back, no change in generation
54-167 (A1)	26-May-10	17:30:00			E	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						
54-167 (A1)	26-May-10	17:48:49	Rowland Island West (Near-Field)	Transition Upstream 10 (Tailrace to Upper Tailrace)	E	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						
54-167 (A1)	26-May-10	18:27:06	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 10)	A	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C		up		71.0					2	move up and back and forth, no change in generation
54-167 (A1)	26-May-10	18:30:00			A/B	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						
54-167 (A1)	26-May-10	18:48:27	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 10)	C	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						
54-167 (A1)	26-May-10	NA	NA	Transition Downstream 10 (Upper Tailrace to Tailrace)														None	A				71.0						
54-167 (A1)	26-May-10	NA	NA	End Tailrace Detection 6														None	A				71.0						
54-167 (A1)	26-May-10	21:56:54	Lapidum (West Shore) (Near-Field)	Start Lower River		74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						
54-167 (A1)	27-May-10	10:37:19	Tomes Landing (East Shore) (Near-Field)	End Lower River		9070	0	4450	0	0	4620	0	0	0	0	0	0	None	A	down	stay		73.1						
54-167 (A1)	27-May-10	NA	NA	Start Tailrace Detection 7														None	A				73.1						
54-167 (A1)	27-May-10	NA	NA	Transition Upstream 11 (Tailrace to Upper Tailrace)														None	A				73.1						
54-167 (A1)	27-May-10	17:45:05	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 11)	B	73720	5340	4450	6070	5920	4620	5780	6060	8740	9070	8960	8710	None	C	up	stay		73.1	7	1,2,3,4,5,6,7,8,9,10,11		1	move from center to zone C, no change in generation	
54-167 (A1)	27-May-10	18:07:12	"A" Gate Aerial	Start EFL Aerial Detection	C	73720	5340	4450	6070	5920	4620	5780	6060	8740	9070	8960	8710	None	C				73.1						
54-167 (A1)	27-May-10	18:11:48	"C" Gate Aerial	End EFL Aerial Detection	C	73720	5340	4450	6070	5920	4620	5780	6060	8740	9070	8960	8710	None	C				73.1						
54-167 (A1)	27-May-10	18:30:00			C	73720	5340	4450	6070	5920	4620	5780	6060	8740	9070	8960	8710	None	C				73.1						
54-167 (A1)	27-May-10	19:30:00				73720	5340	4450	6070	5920	4620	5780	6060	8740	9070	8960	8710	None	C				73.1						
54-167 (A1)	27-May-10	20:30:																											



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-167 (A1)	28-May-10	17:30:00			A/B/C	50650	0	4380	6060	5890	4600	5950	6110	8750	8910	0	0	None	C					74.3					
54-167 (A1)	28-May-10	18:30:00			A/B/C	50650	0	4380	6060	5890	4600	5950	6110	8750	8910	0	0	None	C					74.3					
54-167 (A1)	28-May-10	19:30:00				50650	0	4380	6060	5890	4600	5950	6110	8750	8910	0	0	None	C					74.3					
54-167 (A1)	28-May-10	20:30:00				50650	0	4380	6060	5890	4600	5950	6110	8750	8910	0	0	None	C					74.3					
54-167 (A1)	28-May-10	21:30:00				8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A	down	stay		74.3	1	2,5		3	no response to generation	
54-167 (A1)	28-May-10	22:30:00				8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A				74.3						
54-167 (A1)	28-May-10	23:30:00				8980	0	4380	0	0	4600	0	0	0	0	0	0	None	A				74.3						
54-167 (A1)	29-May-10	0:30:00				8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	1:30:00				8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	2:30:00				8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	3:30:00				8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	4:30:00				8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	5:30:00				8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	6:22:06	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	6:22:55	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7				3	more time in zone C than others, no change in generation	
54-167 (A1)	29-May-10	6:30:00			A/B/C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	7:30:00			B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	8:30:00			A/B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	9:03:41	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	9:15:13	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	9:30:00			B/C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	10:30:00			A/B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	10:58:03	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	11:08:50	"A" Gate Aerial	End EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	11:30:00			A/B/C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	12:30:00			A/B	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	13:02:58	"A" Gate Aerial	Start EFL Aerial Detection	C	8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A				74.7						
54-167 (A1)	29-May-10	13:03:31	"A" Gate Aerial	End EFL Aerial Detection	C	23550	0	4220	0	0	4320	0	6230	8780	0	0	0	None	C	up	stay		74.7	2	2,5,7,8		3	no response to generation	
54-167 (A1)	29-May-10	13:24:25	"A" Gate Aerial	Start EFL Aerial Detection	C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C	up	stay		74.7	3	2,5,6,7,8		3	no response to generation	
54-167 (A1)	29-May-10	13:30:00			B/C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7						
54-167 (A1)	29-May-10	13:47:42	"C" Gate Entrance Dropper	Start EFL	C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7						
54-167 (A1)	29-May-10	14:03:48	"C" Gate Entrance Dropper	End EFL	C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7						
54-167 (A1)	29-May-10	14:30:00			C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7						
54-167 (A1)	29-May-10	14:43:05	"C" Gate Aerial	End EFL Aerial Detection	C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7						
54-167 (A1)	29-May-10	15:30:00			A/B/C	29710	0	4220	0	0	4320	6160	6230	8780	0	0	0	None	C				74.7						
54-167 (A1)	29-May-10	16:30:00			A/B	38730	0	4220	0	0	4320	6160	6230	8780	9020	0	0	None	C	up	stay		74.7	4	2,5,6,7,8,9		3	no immediate response to generation	
54-167 (A1)	29-May-10	17:30:00			A/B/C	38730	0	4220	0	0	4320	6160	6230	8780	9020	0	0	None	C				74.7						
54-167 (A1)	29-May-10	17:59:41	"A" Gate Aerial	Start EFL Aerial Detection	C	38730	0	4220	0	0	4320	6160	6230	8780	9020	0	0	None	C				74.7						
54-167 (A1)	29-May-10	18:12:48	"C" Gate Aerial	End EFL Aerial Detection	C	38730	0	4220	0	0	4320	6160	6230	8780	9020	0	0	None	C				74.7						
54-167 (A1)	29-May-10	18:15:57	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 12)	B	38730	0	4220	0	0	4320	6160	6230	8780	9020	0	0	None	C				74.7					drop from tailrace, no change in generation	
54-167 (A1)	29-May-10	NA	NA	Transition Downstream 12 (Upper Tailrace to Tailrace)														None	A				74.7						
54-167 (A1)	29-May-10	NA	NA	End Tailrace Detection 7														None	A				74.7						
54-167 (A1)	29-May-10	21:36:46	Lapidum (West Shore) (Near-Field)	Start Lower River		8540	0	4220	0	0	4320	0	0	0	0	0	0	None	A	down	stay		74.7						
54-167 (A1)	30-May-10	16:36:51	Spencer Island East (Near-Field)	End Lower River		58660	0	4040	6290	5970	4160	5880	6090	8690	8860	0	8680	None	C	up	stay		76.2						
54-167 (A1)	NA	NA	NA	Start Tailrace Detection 8														None	A										
54-167 (A1)	NA	NA	NA	Transition Upstream 13 (Tailrace to Upper Tailrace)														None	A										
54-167 (A1)	31-May-10	2:30:33	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 13)	B	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A	down	stay		77.4	1	2,5		1		
54-167 (A1)	31-May-10	3:30:00			B	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
54-167 (A1)	31-May-10	4:30:00				8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
54-167 (A1)	31-May-10	5:30:00			A/B	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
54-167 (A1)	31-May-10	6:30:00			A/B/C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4					move back and forth, no change in generation	
54-167 (A1)	31-May-10	7:30:00			A/B/C	8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4						
54-167 (A1)	31-May-10	7:58:25	"A" Gate Aerial	Start EFL Aerial Detection	C	8310	0	4110	0	0	4200	0	0	0	0</														

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-167 (A1)	01-Jun-10	9:10:31	"A" Gate Aerial	End EFL Aerial Detection	C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	9:15:04	"A" Gate Aerial	Start EFL Aerial Detection	C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	9:22:06	"A" Gate Aerial	End EFL Aerial Detection	C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	9:30:00			B/C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	10:30:00				7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	10:58:00	"A" Gate Aerial	Start EFL Aerial Detection	C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	10:58:07	"A" Gate Aerial	End EFL Aerial Detection	C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	11:20:19	"A" Gate Aerial	Start EFL Aerial Detection	C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	11:30:00			A/B/C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	11:32:26	"A" Gate Entrance Dropper	Start EFL	C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	11:35:12	"A" Gate Crowder Dropper	End EFL	C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	11:42:37	"A" Gate Aerial	End EFL Aerial Detection	C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	11:30:00			A/B/C	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A				77.3						
54-167 (A1)	01-Jun-10	13:38:29	"A" Gate Aerial	Start EFL Aerial Detection	C	57230	0	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C	up	stay		77.3	6	2,3,4,5,6,7,8,9,11	1		some back and forth, zone C favored, increase in generation	
54-167 (A1)	01-Jun-10	14:15:39	"C" Gate Entrance Dropper	Start EFL	C	62560	5330	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C	up	stay		77.3	6	1,2,3,4,5,6,7,8,9,11				
54-167 (A1)	01-Jun-10	14:18:53	"C" Gate Entrance Dropper	End EFL	C	62560	5330	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C				77.3						
54-167 (A1)	01-Jun-10	14:22:42	"C" Gate Aerial	End EFL Aerial Detection	C	62560	5330	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C				77.3						
54-167 (A1)	01-Jun-10	14:30:00			C	62560	5330	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C				77.3						
54-167 (A1)	01-Jun-10	15:30:00			A/B	62560	5330	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C				77.3						
54-167 (A1)	01-Jun-10	16:00:25	"C" Gate Aerial	Start EFL Aerial Detection	C	62560	5330	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C				77.3						
54-167 (A1)	01-Jun-10	17:14:06	"A" Gate Aerial	End EFL Aerial Detection	C	57230	0	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C	down	stay		77.3	6	2,3,4,5,6,7,8,9,11	1		some back and forth, zone C favored, decrease in generation	
54-167 (A1)	01-Jun-10	17:30:00			C	57230	0	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C				77.3						
54-167 (A1)	01-Jun-10	18:30:00				57230	0	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C				77.3						
54-167 (A1)	01-Jun-10	19:30:00			A/B	57230	0	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C				77.3						
54-167 (A1)	01-Jun-10	19:57:28	Conowingo East Spillway Corner (Near-Field)	Start Spillway/Transition	D	57230	0	3450	6030	5870	3650	5710	6010	8760	9050	0	8700	None	C				77.3				1		move to spillway area, no change in generation
54-167 (A1)	01-Jun-10	20:30:00			D	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A	up	spillway		77.3	1	2,5		1	stay in spillway area, drop in generation	
54-167 (A1)	01-Jun-10	21:30:00			D	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A		spillway		77.3						
54-167 (A1)	01-Jun-10	22:30:00			D	7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A		spillway		77.3						
54-167 (A1)	01-Jun-10	23:30:00				7100	0	3450	0	0	3650	0	0	0	0	0	0	None	A		spillway		77.3						
54-167 (A1)	02-Jun-10	0:30:00			D	7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	1:30:00			D	7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	2:30:00			D	7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	3:30:00			D	7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	4:30:00				7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	5:30:00			D	7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	6:30:00			D	7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	7:30:00			D	7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	8:30:00			D	7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	9:30:00			D	7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	10:30:00				7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	11:30:00				7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A		spillway		78.0						
54-167 (A1)	02-Jun-10	12:30:00				36850	0	3460	0	0	3870	5860	6060	8710	8890	0	0	None	C	up	spillway		78.0	4	2,5,6,7,8,9		1		
54-167 (A1)	02-Jun-10	12:45:06	Conowingo East Spillway Corner (Near-Field)	End Spillway/Transition	D	36850	0	3460	0	0	3870	5860	6060	8710	8890	0	0	None	C				78.0						
54-167 (A1)	02-Jun-10	13:30:00			A/B/C	36850	0	3460	0	0	3870	5860	6060	8710	8890	0	0	None	C				78.0				3		leave spillway after 45 min of increased generation
54-167 (A1)	02-Jun-10	14:30:00			A/B	59430	5280	3460	3910	5760	3870	5860	6060	8710	8890	0	7630	None	C	up	stay		78.0	6	1,2,3,4,5,6,7,8,9,11	2		back and forth center and west, generation increase	
54-167 (A1)	02-Jun-10	15:30:00			A/B	59430	5280	3460	3910	5760	3870	5860	6060	8710	8890	0	7630	None	C				78.0						
54-167 (A1)	02-Jun-10	16:30:00			A	59430	5280	3460	3910	5760	3870	5860	6060	8710	8890	0	7630	None	C				78.0						
54-167 (A1)	02-Jun-10	17:30:00			A/B	36850	0	3460	0	0	3870	5860	6060	8710	8890	0	0	None	C	down	stay		78.0	4	2,5,6,7,8,9	1		no response to generation	
54-167 (A1)	02-Jun-10	17:57:43	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 13)	B	36850	0	3460	0	0	3870	5860	6060	8710	8890	0	0	None	C				78.0						
54-167 (A1)	02-Jun-10		NA	Transition Downstream 13 (Upper Tailrace to Tailrace)		7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A	down	stay		78.0	1	2,5	0			drop back, decrease in generation
54-167 (A1)	02-Jun-10		NA	End Tailrace Detection 8		7330	0	3460	0	0	3870	0	0	0	0	0	0	None	A				78.0						
54-167 (A1)	02-Jun-10	19:26:46	Spencer Island East (Near-Field)	Start Lower River		36850	0	3460	0	0	3870	5860	6060	8710	8890	0	0	None	C	up	stay		78.0						
54-167 (A1)	02-Jun-10	19:51:12	Lapidum (West Shore) (Near-Field)	End Detections		36850	0	3460	0	0	3870	5860	6060	8710	8890	0	0	None	C				78.0						



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge												Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1									
							1	2	3	4	5	6	7	8	9	10	11																				
54-176 (A1)	28-Apr-10	11:35:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6														
54-176 (A1)	03-May-10	22:14:49	Lapidum (West Shore) (Near-Field)	End Lower River		73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C	up	stay		65.5														
54-176 (A1)	04-May-10	5:19:48	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		68.1	1	2,5												
54-176 (A1)	04-May-10	8:33:18	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A	up	stay		68.1	2	2,5,6,7												
54-176 (A1)	04-May-10	NA	NA	Start Upper Tailrace Detection (Start UT Foray 1)													None					68.1															
54-176 (A1)	04-May-10	9:55:47	"A" Gate Aerial	Start EFL Aerial Detection	C	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A		up		68.1												move into tailrace after 1.5 hr of increased generation		
54-176 (A1)	04-May-10	10:02:40	"A" Gate Entrance Dropper	Start EFL	C	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				68.1														
54-176 (A1)	04-May-10	10:22:15	"A" Gate Crowder Dropper	End EFL	C	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				68.1														
54-176 (A1)	04-May-10	10:30:00			C	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				68.1														
54-176 (A1)	04-May-10	NA	NA	End Upper Tailrace Detection (End UT Foray 1)													None	A				68.1															
54-176 (A1)	04-May-10	10:56:37	Rowland Island West (Near-Field)	Transition Upstream 1 (Upper Tailrace to Tailrace)	E	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A		down		68.1													drop back, no change in generation	
54-176 (A1)	04-May-10	11:01:16	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				68.1														
54-176 (A1)	04-May-10	11:30:00			E	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				68.1														
54-176 (A1)	04-May-10	12:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay		68.1	7	2,3,4,5,6,7,8,9,10,11										no response to generaiton		
54-176 (A1)	04-May-10	13:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1														
54-176 (A1)	04-May-10	14:07:30	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		up		68.1														move up, no change in generation
54-176 (A1)	04-May-10	14:30:00			A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1														
54-176 (A1)	04-May-10	15:30:00			A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1														
54-176 (A1)	04-May-10	16:30:00			A/B/C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1														move back and forth, no change in generation
54-176 (A1)	04-May-10	17:05:39	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1														
54-176 (A1)	04-May-10	17:20:40	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		down		68.1														drop back, no change in generation
54-176 (A1)	04-May-10	17:21:55	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1														
54-176 (A1)	04-May-10	21:15:11	Lapidum (West Shore) (Near-Field)	Start Lower River		68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1														
54-176 (A1)	05-May-10	8:40:50	Lapidum (West Shore) (Near-Field)	End Lower River		9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A	down	stay		69.2														
54-176 (A1)	05-May-10	16:07:07	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay		69.2	6	1,2,3,4,5,6,7,8,9,11												
54-176 (A1)	05-May-10	16:07:07	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2														
54-176 (A1)	05-May-10	16:30:00			A/B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		up		69.2														move up, no change in generation
54-176 (A1)	05-May-10	16:35:57	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2														
54-176 (A1)	05-May-10	16:30:00			A	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2														
54-176 (A1)	05-May-10	17:39:16	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2														
54-176 (A1)	05-May-10	NA	NA	Transition Downstream 3 (Upper Tailrace to Tailrace)													None					69.2														drop out of tailrace, no change in generation	
54-176 (A1)	05-May-10	NA	NA	End Tailrace Detection 2													None					69.2															
54-176 (A1)	05-May-10	22:54:02	Lapidum (West Shore) (Near-Field)	Start Lower River		63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2														
54-176 (A1)	06-May-10	1:26:51	Lapidum (West Shore) (Near-Field)	End Lower River		10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		69.5														
54-176 (A1)	06-May-10	NA	NA	Start Tailrace Detection 3													None					69.5															
54-176 (A1)	06-May-10	NA	NA	Transition Upstream 4 (Tailrace to Upper Tailrace)													None					69.5															
54-176 (A1)	06-May-10	6:12:54	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5	1	2,5											move from lower river to tailrace, generation constant during entire move	
54-176 (A1)	06-May-10	6:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	None	A				69.5														move back and forth center-west, no change in generation	
54-176 (A1)	06-May-10	7:30:00			B	10660	0	0	6270	0	4390	0	0	0	0	0	None	A				69.5															
54-176 (A1)	06-May-10	8:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	None	A				69.5															
54-176 (A1)	06-May-10	9:30:00			B	10660	0	0	6270	0	4390	0	0	0	0	0	None	A				69.5															
54-176 (A1)	06-May-10	10:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	None	A				69.5															
54-176 (A1)	06-May-10	11:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	None	A				69.5															

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-176 (A1)	07-May-10	13:19:50	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	A	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	up		69.4			1		move up 50 min after generation increased	
54-176 (A1)	07-May-10	13:30:00			A	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4			2		move west to east, essentially no change in generation	
54-176 (A1)	07-May-10	14:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		69.4						
54-176 (A1)	07-May-10	15:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
54-176 (A1)	07-May-10	16:01:25	"A" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4			1		move into zone C, no change in generation	
54-176 (A1)	07-May-10	16:13:48	"A" Gate Aerial	End EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
54-176 (A1)	07-May-10	16:30:00			C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
54-176 (A1)	07-May-10	17:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
54-176 (A1)	07-May-10	18:30:00			B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4			2		move to center then back to zone C, no change in generation	
54-176 (A1)	07-May-10	19:19:16	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
54-176 (A1)	07-May-10	19:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
54-176 (A1)	07-May-10	19:51:28	Rowland Island West (Near-Field)	Transition Downstream 7 (Upper Tailrace to Tailrace)	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C		down		69.4			0		drop back 20 min before decrease in generation	
54-176 (A1)	07-May-10	19:51:28	Rowland Island West (Near-Field)	End Tailrace Detection 3	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
54-176 (A1)	07-May-10	21:31:51	Spencer Island West (Near-Field)	Start Lower River		34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	None	A	down	stay		69.4						
54-176 (A1)	08-May-10	5:18:41	Spencer Island West (Near-Field)	End Lower River		9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		69.2						
54-176 (A1)	08-May-10	9:28:03	Rowland Island West (Near-Field)	Start Tailrace Detection 4	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2	1	2,5	0		move up to tailrace, generation constant last 4 hrs	
54-176 (A1)	08-May-10	10:17:42	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-176 (A1)	08-May-10	10:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-176 (A1)	08-May-10	11:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	up	stay		69.2	4	2,5,6,7,8,9	1		move up to center tailrace 15 minutes after increase in generation	
54-176 (A1)	08-May-10	11:43:21	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C		up		69.2						
54-176 (A1)	08-May-10	12:22:13	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	12:30:00			B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	12:57:03	Rowland Island West (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C		down		69.2			0		drop back, no change in generation	
54-176 (A1)	08-May-10	13:30:00			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	13:48:44	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	14:30:00			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	14:46:33	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	A	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C		up		69.2			2		move up, no change in generation	
54-176 (A1)	08-May-10	15:30:00			B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	16:30:00			A/B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	17:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	18:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	19:06:42	"C" Gate Aerial	Start EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2			1		move into zone C, no change in generation	
54-176 (A1)	08-May-10	19:08:41	"A" Gate Aerial	End EFL Aerial Detection	C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	19:30:00			B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2			2		back and forth center-east, no change in generation	
54-176 (A1)	08-May-10	20:25:17	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 9)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	20:30:00			B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	08-May-10	20:40:10	Rowland Island West (Near-Field)	Transition Downstream 9 (Upper Tailrace to Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C		down		69.2			0		drop back 10 min before change in generation, coordination gen logs and radio loggers?	
54-176 (A1)	08-May-10	20:40:10	Rowland Island West (Near-Field)	End Tailrace Detection 4	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
54-176 (A1)	09-May-10	4:29:26	Spencer Island West (Near-Field)	Start Lower River		8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A	down	stay		67.2						
54-176 (A1)	09-May-10	13:22:32	Spencer Island West (Near-Field)	End Lower River		32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A	up	stay		67.2						
54-176 (A1)	09-May-10	17:03:10	Rowland Island West (Near-Field)	Start Tailrace Detection 5	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2	3	2,3,4,5,6,7,8,9	0			
54-176 (A1)	10-May-10	6:43:29	Rowland Island West (Near-Field)	Transition Upstream 10 (Tailrace to Upper Tailrace)	E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C				64.5	3	2,5,6,7,8	0		
54-176 (A1)	10-May-10	7:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C			64.5						
54-176 (A1)	10-May-10	7:40:28	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 10)	A	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C		up		64.5			3		move up, back and forth 1 hr after decrease in generation
54-176 (A1)	10-May-10	8:30:00			A/B/C	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C			64.5						
54-176 (A1)	10-May-10	9:30:00			A/B	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C			64.5						
54-176 (A1)	10-May-10	10:30:00			B/C	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	0	None	A	down	stay	64.5	2	2,5,6,7	2		no response to generation	
54-176 (A1)	10-May-10	11:23:14	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 10)	B	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	0	None	A			64.5						
54-176 (A1)	10-May-10	11:30:00			A/B	21660	0																						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-176 (A1)	13-May-10	0:19:04	Rowland Island West (Near-Field)	Transition Downstream 13 (Upper Tailrace to Tailrace)	E	72430	5280	3970	6180	5980	4550	5830	6160	8780	8970	8140	8590	None	C					58.8			0		drop back, no change in generation
54-176 (A1)	13-May-10	0:30:00			A/B/E	41450	0	3970	6180	5980	4550	5830	6160	8780	0	0	0	None	C	down	stay		58.8	4	2,3,4,5,6,7,8	2		move up, then drop back, decrease in generation	
54-176 (A1)	13-May-10	1:30:00				41450	0	3970	6180	5980	4550	5830	6160	8780	0	0	0	None	C				58.8						
54-176 (A1)	13-May-10	2:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	up	stay		58.8	1	2,5				
54-176 (A1)	13-May-10	3:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	4:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	5:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		down		58.8			0			
54-176 (A1)	13-May-10	6:13:25	Rowland Island West (Near-Field)	Transition Upstream 14 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	6:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	6:36:16	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 14)	A	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		up		58.8			2		move up west to east, no change in generation	
54-176 (A1)	13-May-10	7:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	7:36:03	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 14)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	7:48:24	Rowland Island West (Near-Field)	Transition Downstream 14 (Upper Tailrace to Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		down		58.8			0		drop back, no change in generation	
54-176 (A1)	13-May-10	8:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	9:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	10:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	10:34:09	Rowland Island West (Near-Field)	Transition Upstream 15 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	11:13:12	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 15)	A	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		up		58.8			3		move up, back and forth, no change in generation	
54-176 (A1)	13-May-10	11:30:00			B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	12:30:00			A/B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	13:30:00			B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	13:51:47	*A* Gate Aerial	Start EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	14:01:03	*A* Gate Aerial	End EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	14:30:00			A/B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	15:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	16:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	17:30:00			A/B	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C	up	stay		58.8	7	1,2,3,4,5,6,7,8,9,11	2		move center-west, increase in generation	
54-176 (A1)	13-May-10	18:30:00			A/B	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8						
54-176 (A1)	13-May-10	18:40:37	*A* Gate Aerial	Start EFL Aerial Detection	C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8			1		move to zone C now change in generation	
54-176 (A1)	13-May-10	18:52:01	*C* Gate Aerial	End EFL Aerial Detection	C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8						
54-176 (A1)	13-May-10	19:30:00				64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8						
54-176 (A1)	13-May-10	19:55:22	*A* Gate Aerial	Start EFL Aerial Detection	C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8						
54-176 (A1)	13-May-10	19:55:48	*A* Gate Aerial	End EFL Aerial Detection	C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8						
54-176 (A1)	13-May-10	20:30:00			B/C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8						
54-176 (A1)	13-May-10	21:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay		58.8						
54-176 (A1)	13-May-10	22:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	13-May-10	23:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-176 (A1)	14-May-10	0:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4						
54-176 (A1)	14-May-10	1:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4						
54-176 (A1)	14-May-10	2:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4						
54-176 (A1)	14-May-10	3:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4						
54-176 (A1)	14-May-10	4:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4						
54-176 (A1)	14-May-10	5:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay		58.4	7	1,2,3,4,5,6,7,8,9,10,11				
54-176 (A1)	14-May-10	6:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-176 (A1)	14-May-10	7:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4			3		move back and forth, no change in generation	
54-176 (A1)	14-May-10	8:30:00			C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-176 (A1)	14-May-10	9:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-176 (A1)	14-May-10	10:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-176 (A1)	14-May-10	11:03:17	*C* Gate Aerial	Start EFL Aerial Detection	C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
54-176 (A1)	14-May-10	11:16:33	*C* Gate Entrance Dropper	Start EFL	C	30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C	down	stay		58.4	3	4,5,6,7,8	1		stay in zone C, decrease in generation	
54-176 (A1)	14-May-10	11:30:00			C	30850	0	0	0	5830	4850	5570	5950	8650	0	0	0												



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1
54-176 (A1)	20-May-10	6:27:30	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 17)	B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A	down	up		62.5	1	2,5			move up into tailrace, back and forth
54-176 (A1)	20-May-10	6:30:00			A/B	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
54-176 (A1)	20-May-10	7:30:00				9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A				62.5					
54-176 (A1)	20-May-10	8:30:00				38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C	up	stay		62.5	4	2,5,6,7,8,9			no response to generation
54-176 (A1)	20-May-10	9:30:00			A	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
54-176 (A1)	20-May-10	9:50:29	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 17)	B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
54-176 (A1)	20-May-10	10:30:37	Rowland Island West (Near-Field)	Transition Downstream 17 (Upper Tailrace to Tailrace)	E	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C		down		62.5				0	drop back after 2 hrs of increased generation
54-176 (A1)	20-May-10	11:26:37	Rowland Island West (Near-Field)	Transition Upstream 18 (Tailrace to Upper Tailrace)	E	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
54-176 (A1)	20-May-10	11:30:00			E	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
54-176 (A1)	20-May-10	12:09:53	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 18)	A	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C		up		62.5				2	move up, no change in generation
54-176 (A1)	20-May-10	12:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5					
54-176 (A1)	20-May-10	13:30:00			A/B	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay		62.5	6	1,2,3,4,5,6,7,8,9,11			
54-176 (A1)	20-May-10	14:30:00			A/B	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5					
54-176 (A1)	20-May-10	14:45:00	*C* Gate Aerial	Start EFL Aerial Detection	C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5				1	move to zone C, increased generation
54-176 (A1)	20-May-10	14:46:48	*C* Gate Aerial	End EFL Aerial Detection	C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5					
54-176 (A1)	20-May-10	15:30:00			B/C	38330	0	4530	0	0	4750	6140	5700	8740	0	0	8470	None	C	down	stay		62.5	4	2,5,6,7,8,11		2	move to center, decreased generation
54-176 (A1)	20-May-10	16:28:53	*A* Gate Aerial	Start EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A	up	stay		62.5	1	2,5,6		1	move to zone C, decreased generation
54-176 (A1)	20-May-10	16:29:21	*A* Gate Entrance Dropper	Single EFL Peek - Don't Count	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
54-176 (A1)	20-May-10	16:30:00			B/C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5				2	move to center, back to zone C, no change in generation
54-176 (A1)	20-May-10	16:47:08	*A* Gate Aerial	End EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5				1	move to zone c, no change in generation
54-176 (A1)	20-May-10	17:30:00			A/B	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5				3	move back and forth, no change in generation
54-176 (A1)	20-May-10	18:30:00			A/B/C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
54-176 (A1)	20-May-10	18:54:12	*A* Gate Aerial	Start EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5				1	move to zone C, no change in generation
54-176 (A1)	20-May-10	18:54:20	*A* Gate Aerial	End EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
54-176 (A1)	20-May-10	19:10:48	*C* Gate Aerial	Start EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
54-176 (A1)	20-May-10	19:12:22	*A* Gate Aerial	End EFL Aerial Detection	C	15420	0	4530	0	0	4750	6140	0	0	0	0	0	None	A				62.5					
54-176 (A1)	20-May-10	19:30:00			B/C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay		62.5	6	1,2,3,4,5,6,7,8,9,11		2	move back and forth center -zone C, most C, increased generation
54-176 (A1)	20-May-10	20:01:11	*C* Gate Aerial	Start EFL Aerial Detection	C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5					
54-176 (A1)	20-May-10	20:11:02	*C* Gate Aerial	End EFL Aerial Detection	C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5					
54-176 (A1)	20-May-10	20:18:05	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 18)	B	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5					
54-176 (A1)	20-May-10	20:30:00			C	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5					
54-176 (A1)	20-May-10	20:30:01	Rowland Island West (Near-Field)	Transition Downstream 18 (Upper Tailrace to Tailrace)	E	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C		down		62.5				0	drop back, no change in generation
54-176 (A1)	20-May-10	NA	NA	End Tailrace Detection 8														None				62.5						
54-176 (A1)	21-May-10	1:40:21	Lapidum (West Shore) (Near-Field)	Start Lower River		9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A	down	stay		63.5					
54-176 (A1)	31-May-10	4:00:48	Lapidum (West Shore) (Near-Field)	End Detections		8310	0	4110	0	0	4200	0	0	0	0	0	0	None	A				77.4					

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-178 (A1)	28-Apr-10	11:35:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
54-178 (A1)	05-May-10	6:06:00	Lapidum (West Shore) (Near-Field)	End Lower River		9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A	down	stay		69.2						
54-178 (A1)	05-May-10	16:20:47	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay		69.2	6	1,2,3,4,5,6,7,8,9,11	0		move up into tailrace	
54-178 (A1)	05-May-10	16:30:00			E												None					69.2							
54-178 (A1)	05-May-10	16:47:07	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
54-178 (A1)	05-May-10	17:06:14	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		up		69.2			3			move up, back and forth, no change in generation
54-178 (A1)	05-May-10	17:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
54-178 (A1)	05-May-10	18:30:00			A/B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
54-178 (A1)	05-May-10	19:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
54-178 (A1)	05-May-10	20:30:00			A/B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
54-178 (A1)	05-May-10	21:30:00			E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		down		69.2			0			drop back, no change in generation
54-178 (A1)	05-May-10	22:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
54-178 (A1)	05-May-10	23:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
54-178 (A1)	06-May-10	0:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A	down	stay		69.5	1	2,5				
54-178 (A1)	06-May-10	1:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.5						
54-178 (A1)	06-May-10	2:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.5						
54-178 (A1)	06-May-10	3:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.5						
54-178 (A1)	06-May-10	4:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.5						
54-178 (A1)	06-May-10	5:30:00			B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		down		69.5			3			move up, back and forth, nochange in generation
54-178 (A1)	06-May-10	6:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.5						
54-178 (A1)	06-May-10	7:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.5						
54-178 (A1)	06-May-10	8:30:00			A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.5						
54-178 (A1)	06-May-10	9:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.5						
54-178 (A1)	06-May-10	10:30:00			A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.5						
54-178 (A1)	06-May-10	11:30:00			B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay		69.5	6	1,2,3,4,5,6,7,8,9,11	3			no response to generation
54-178 (A1)	06-May-10	12:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.5						
54-178 (A1)	06-May-10	13:30:00			A/B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.5						
54-178 (A1)	06-May-10	14:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.5						
54-178 (A1)	06-May-10	15:30:00			B/C	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.5						
54-178 (A1)	06-May-10	16:24:19	*C* Gate Aerial	Start EFL Aerial Detection	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	stay		69.5	7	2,3,4,5,6,7,8,9,10,11	3			still back and forth, favoring zone C, increase in generation
54-178 (A1)	06-May-10	16:26:49	*C* Gate Aerial	End EFL Aerial Detection	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
54-178 (A1)	06-May-10	16:30:00			B/C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
54-178 (A1)	06-May-10	17:30:00			A	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
54-178 (A1)	06-May-10	17:50:57	*C* Gate Aerial	Start EFL Aerial Detection	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
54-178 (A1)	06-May-10	17:52:09	*C* Gate Aerial	End EFL Aerial Detection	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
54-178 (A1)	06-May-10	18:30:00			A/B/C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
54-178 (A1)	06-May-10	19:22:17	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
54-178 (A1)	06-May-10	19:30:00			B/C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
54-178 (A1)	06-May-10	19:30:34	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C		down		69.5			0			drop back, no change in generation
54-178 (A1)	06-May-10	19:30:39	Rowland Island East (Near-Field)	End Tailrace Detection 1	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
54-178 (A1)	06-May-10	20:48:32	Spencer Island West (Near-Field)	Start Lower River		67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
54-178 (A1)	07-May-10	14:55:01	Spencer Island West (Near-Field)	End Lower River		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
54-178 (A1)	08-May-10	5:50:06	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		69.2	1	2,5	0			move up to tailrace
54-178 (A1)	08-May-10	6:08:00	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-178 (A1)	08-May-10	6:12:07	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		up		69.2			3			move up, back and forth, no change in generation
54-178 (A1)	08-May-10	6:30:00			A/B	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-178 (A1)	08-May-10	6:34:54	*A* Gate Aerial	Start EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-178 (A1)	08-May-10	6:35:21	*A* Gate Aerial	End EFL Aerial Detection	C	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
54-178 (A1)	08-May-10	7:19:11	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	9560	0	4570	0																				



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-178 (A1)	08-May-10	20:38:48	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C		down			69.2			0		drop back, no change in generation
54-178 (A1)	08-May-10	20:49:31	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C					69.2					
54-178 (A1)	09-May-10	4:57:01	Spencer Island West (Near-Field)	Start Lower River		8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A	down	stay		67.2						
54-178 (A1)	09-May-10	4:57:01	Spencer Island West (Near-Field)	End Detections		8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NA11	
54-186 (A1)	28-Apr-10	11:35:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
54-186 (A1)	13-May-10	1:05:58	Spencer Island West (Near-Field)	End Lower River		41450	0	3970	6180	5980	4550	5830	6160	8780	0	0	0	None	C					58.8					
54-186 (A1)	13-May-10	4:00:17	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay		58.8	1	2,5	0		move up to tailrace	
54-186 (A1)	13-May-10	4:23:12	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-186 (A1)	13-May-10	4:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-186 (A1)	13-May-10	4:45:45	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		up		58.8			2		move up, back and forth west-center, no change in generation	
54-186 (A1)	13-May-10	5:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-186 (A1)	13-May-10	5:59:53	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-186 (A1)	13-May-10	6:09:31	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		down		58.8			0		drop back, no change in generation	
54-186 (A1)	13-May-10	6:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-186 (A1)	13-May-10	7:26:20	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-186 (A1)	13-May-10	7:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-186 (A1)	13-May-10	7:44:50	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		up		58.8			1		move up, no change in generation	
54-186 (A1)	15-May-10	7:37:06	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	0	None	A	up	stay		60.4	3	2,3,4,5,6,7	1	at first no response to generation, then drop out of tailrace	
54-186 (A1)	15-May-10	Unknown	Unknown	Transition Downstream 2 (Upper Tailrace to Tailrace)														None					60.4						
54-186 (A1)	15-May-10	Unknown	Unknown	End Tailrace Detection 1														None					60.4						
54-186 (A1)	15-May-10	9:47:30	Spencer Island West (Near-Field)	Start Lower River		32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-186 (A1)	16-May-10	7:21:09	Spencer Island West (Near-Field)	End Lower River		41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	0	None	C	up	stay		63.6					
54-186 (A1)	16-May-10	Unknown	Unknown	Start Tailrace Detection 2														None					63.6						
54-186 (A1)	16-May-10	Unknown	Unknown	Transition Upstream 3 (Tailrace to Upper Tailrace)														None					63.6						
54-186 (A1)	16-May-10	12:52:56	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	0	None	C				63.6	4	2,3,4,5,6,7,8	3	move from west to zone C then drop out of tailrace, no change in generation	
54-186 (A1)	16-May-10	13:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	0	None	C			63.6						
54-186 (A1)	16-May-10	14:03:42	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	0	None	C				63.6					
54-186 (A1)	16-May-10	Unknown	Unknown	Transition Downstream 3 (Upper Tailrace to Tailrace)														None					63.6						
54-186 (A1)	16-May-10	Unknown	Unknown	End Tailrace Detection 2														None					63.6						
54-186 (A1)	16-May-10	16:31:37	Spencer Island West (Near-Field)	Start Lower River		41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	0	None	C				63.6					
54-186 (A1)	18-May-10	3:11:18	Spencer Island West (Near-Field)	End Lower River		9100	0	4380	0	0	4720	0	0	0	0	0	0	0	None	A	down	stay		64.5					
54-186 (A1)	18-May-10	Unknown	Unknown	Start Tailrace Detection 3														None					64.5						
54-186 (A1)	18-May-10	Unknown	Unknown	Transition Upstream 4 (Tailrace to Upper Tailrace)														None					64.5						
54-186 (A1)	18-May-10	7:33:10	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	9100	0	4380	0	0	4720	0	0	0	0	0	0	0	None	A				64.5	1	2,5	3	move back and forth, spend 45 min in zone C, no change in generation	
54-186 (A1)	18-May-10	8:30:00			A/B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5						
54-186 (A1)	18-May-10	9:30:00			A/B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5						
54-186 (A1)	18-May-10	10:30:00			A/B	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5						
54-186 (A1)	18-May-10	10:39:13	"A" Gate Aerial	Start EFL Aerial Detection	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	0	None	A				64.5					
54-186 (A1)	18-May-10	10:41:41	"A" Gate Aerial	End EFL Aerial Detection	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	0	None	A				64.5					
54-186 (A1)	18-May-10	11:23:00	"C" Gate Aerial	Start EFL Aerial Detection	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	0	None	A				64.5					
54-186 (A1)	18-May-10	11:23:41	"C" Gate Aerial	End EFL Aerial Detection	C	9100	0	4380	0	0	4720	0	0	0	0	0	0	0	None	A				64.5					
54-186 (A1)	18-May-10	11:30:00			A/B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5						
54-186 (A1)	18-May-10	12:30:00			B/C	9100	0	4380	0	0	4720	0	0	0	0	0	0	None	A				64.5						
54-186 (A1)	18-May-10	13:30:00			A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C	up	stay		64.5	7	1,2,3,4,5,6,7,8,9,10,11			no response to greatly increased generation	
54-186 (A1)	18-May-10	14:30:00			A/B/C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5						
54-186 (A1)	18-May-10	15:30:00			A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5						
54-186 (A1)	18-May-10	16:30:00			A/B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5						
54-186 (A1)	18-May-10	16:51:19	"C" Gate Aerial	Start EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5					spent 40 min in zone C, no change in generation	
54-186 (A1)	18-May-10	17:20:26	"C" Gate Aerial	End EFL Aerial Detection	C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5						
54-186 (A1)	18-May-10	17:30:00			C	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5						
54-186 (A1)	18-May-10	18:14:56	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5					drop out of tailrace, no change in generation	
54-186 (A1)	18-May-10	Unknown	Unknown	Transition Downstream 4 (Upper Tailrace to Tailrace)														None					64.5						
54-186 (A1)	18-May-10	Unknown	Unknown	End Tailrace Detection 3														None					64.5						
54-186 (A1)	18-May-10	20:58:19	Spencer Island West (Near-Field)	Start Lower River		73920	5780	4380	6160	5910	4720	5890	6060	8530	9100	8840	8550	None	C				64.5						
54-186 (A1)	24-May-10	0:03:49	Lapidum (West Shore) (Near-Field)	End Lower River		9430	0	4610	0	0	4820	0	0	0	0	0	0	0	None	A	down	stay		69.6					
54-186 (A1)	24-May-10</																												

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1
54-200-1	20-Apr-10	13:54:00	Conowingo Tailrace	Downstream Units 5 & 7	B	10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				58.4	1	5,7		1	move from area of unit discharge to spillway, no change in discharge
54-200-1	20-Apr-10	14:02:52	Conowingo East Spillway Corner (Near-Field)	Start Spillway/Transition	D	10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				58.4				3	spent 2.5 hr in spillway, no change in generation
54-200-1	20-Apr-10	16:32:46	Conowingo East Spillway Corner (Near-Field)	End Spillway/Transition	D	10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				58.4					
54-200-1	20-Apr-10	16:38:10	Rowland Island West (Near-Field)	Continued Fallback	E	10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A		down		58.4					drop back, no change in generation
54-200-1	20-Apr-10	16:48:25	Rowland Island West (Near-Field)	Continued Fallback	E	10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				58.4					
54-200-1	20-Apr-10	18:38:02	Spencer Island East (Near-Field)	Start Lower River		31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C	up	stay		58.4					
54-200-1	26-Apr-10	9:02:00	Spencer Island West (Near-Field)	End Lower River		40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C	up	stay		60.9					
54-200-1	26-Apr-10	16:43:24	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9	4	4,5,6,7,8,9	0	move up to tailrace, constant generation for 7.6 hr	
54-200-1	26-Apr-10	16:56:19	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-200-1	26-Apr-10	17:24:16	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		up		60.9			3	back and forth	
54-200-1	26-Apr-10	17:30:00			B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-200-1	26-Apr-10	18:30:00			A/B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-200-1	26-Apr-10	19:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-200-1	26-Apr-10	20:30:00			B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-200-1	26-Apr-10	21:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-200-1	26-Apr-10	22:30:00			B/C	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A	down	stay		60.9	1	5,7	3	back and forth, mostly center-west, decrease in generation	
54-200-1	26-Apr-10	23:30:00			A/B	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
54-200-1	27-Apr-10	0:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	1:30:00			A/B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	2:30:00			A/B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	3:30:00			A/B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	4:30:00			A/B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	5:30:00			A/B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	6:30:00			B/C	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	7:30:00			A/B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	8:30:00			B/C	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	9:30:00			B/C	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	stay		60.6	2	4,5,6,7	3	back and forth, not in response to generation	
54-200-1	27-Apr-10	10:30:00			B	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	11:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	12:30:00			A/B/C	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	13:30:00			A/B/C	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A	down	stay		60.6	1	5,6			
54-200-1	27-Apr-10	13:34:00	"A" Gate Aerial	Start EFL Aerial Detection	C	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	13:34:18	"A" Gate Aerial	End EFL Aerial Detection	C	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	14:30:00			A/B/C	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	15:30:00			A/B	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
54-200-1	27-Apr-10	16:30:00			A/B/C	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay		60.6	6	2,3,4,5,6,7,8,9,11			
54-200-1	27-Apr-10	17:26:28	"C" Gate Aerial	Start EFL Aerial Detection	C	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
54-200-1	27-Apr-10	17:30:00			A/B/C	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
54-200-1	27-Apr-10	17:32:07	"C" Gate Aerial	End EFL Aerial Detection	C	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6			1	stayed 2 hr in zone C, 2 hr after generation increased	
54-200-1	27-Apr-10	18:19:05	"C" Gate Aerial	Start EFL Aerial Detection	C	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
54-200-1	27-Apr-10	18:30:00			C	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
54-200-1	27-Apr-10	18:41:42	"A" Gate Aerial	End EFL Aerial Detection	C	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
54-200-1	27-Apr-10	19:30:00			C	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
54-200-1	27-Apr-10	20:30:00			A	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6			3	moved to west, no change in generation	
54-200-1	27-Apr-10	21:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
54-200-1	27-Apr-10	22:30:00			A/B	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A	down	stay		60.6	1	4,5	2	stay west-center, decrease in generation	
54-200-1	27-Apr-10	23:30:00			A/B	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A				60.6					
54-200-1	28-Apr-10	0:30:00			A/B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
54-200-1	28-Apr-10	1:30:00			A	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
54-200-1	28-Apr-10	2:30:00			A/B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
54-200-1	28-Apr-10	3:30:00			A/B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
54-200-1	28-Apr-10	4:30:00			A/B	11000	0	0																				

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-200-1	01-May-10	21:30:00			C	68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C					59.1					
54-200-1	01-May-10	22:30:00				40540	0	4600	6340	6060	0	0	6130	8700	8710	0	0	None	C	down	stay		59.1	4	2,3,4,7,8,9				
54-200-1	01-May-10	23:30:00				10730	0	4600	0	0	0	0	6130	0	0	0	0	None	A	down	stay		59.1	1	2,7				
54-200-1	02-May-10	0:30:00				6430	0	4440	0	0	0	0	1990	0	0	0	0	None	A	down	stay		62.5	1	2,5				
54-200-1	02-May-10	1:30:00			C	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A	up	stay		62.5						
54-200-1	02-May-10	2:30:00		NOT SURE WHAT TO DO V		9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5						
54-200-1	02-May-10	3:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5						
54-200-1	02-May-10	3:53:47	*A* Gate Aerial	End EFL Aerial Detection	C	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5						
54-200-1	02-May-10	Unknown	Unknown	End Upper Tailrace Detection (End UT Foray 3)														None	A				62.5						
54-200-1	02-May-10	4:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5						
54-200-1	02-May-10	5:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5						
54-200-1	02-May-10	6:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5						
54-200-1	02-May-10	7:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5						
54-200-1	02-May-10	7:52:47	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A		down		62.5			0		drop back, no change in generation	
54-200-1	02-May-10	8:06:36	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5						
54-200-1	02-May-10	8:30:00			E	9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5						
54-200-1	02-May-10	9:30:00				9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A				62.5						
54-200-1	02-May-10	10:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C	up	stay		62.5	3	2,5,6,7,8,9	0		no response to generation	
54-200-1	02-May-10	11:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				62.5						
54-200-1	02-May-10	12:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				62.5						
54-200-1	02-May-10	13:30:00				34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C				62.5						
54-200-1	02-May-10	14:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C	up	stay		62.5	6	2,3,4,5,6,7,8,9,10,11				
54-200-1	02-May-10	15:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
54-200-1	02-May-10	Unknown	Unknown	Start Upper Tailrace Detection (Start UT Foray 4)														None	A				62.5						
54-200-1	02-May-10	15:56:05	*C* Gate Aerial	Start EFL Aerial Detection	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C		up		62.5			1		move in to fish lift, no change in generation	
54-200-1	02-May-10	16:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
54-200-1	02-May-10	17:16:53	*C* Gate Entrance Dropper	Start EFL	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
54-200-1	02-May-10	17:29:23	*A* Gate Crowder Dropper	End Detections	C	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
54-200-1	07-May-10	7:30:00	Dead shad w/ tag recovered in EFL Exit Trough	Note		22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay		69.4						





Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-200-2	21-May-10	7:30:00			E	9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A		down		63.5			0		drop back, no change in generation	
54-200-2	21-May-10	8:30:00																None	A				63.5						
54-200-2	21-May-10	9:28:46	"C" Gate Aerial	Start EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C	up	up		63.5	4	1,5,6,7,8,9	3		move up after increase in generation, then more than 1 hr in zone C, couple of side trips to A,B no change in generation	
54-200-2	21-May-10	9:30:00			C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	9:30:05	"C" Gate Aerial	End EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	10:30:00			A/B	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	10:56:22	"A" Gate Aerial	Start EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	11:11:53	"C" Gate Entrance Dropper	Single EFL Peek - Don't Count	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	11:27:50	"A" Gate Crowder Dropper	Start EFL	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	11:30:00			C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	11:36:00	"A" Gate Crowder Dropper	End EFL	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	12:07:46	"C" Gate Aerial	End EFL Aerial Detection	C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	12:30:00			B/C	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	12:41:35	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	13:28:42	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C		down		63.5			0		drop bach, no change in generation	
54-200-2	21-May-10	13:39:06	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	39000	0	4620	0	0	4780	5940	6090	8710	8860	0	0	None	C				63.5						
54-200-2	21-May-10	20:05:00	East Channel Mid-River, Upstream of Wagon Rock (To	Transition Downstream between Tailrace & Lower River		74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C	up	stay		63.5						
54-200-2	21-May-10	20:52:01	Tomes Landing (East Shore) (Near-Field)	Start Lower River		74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5						
54-200-2	26-May-10	11:17:47	Lapidum (West Shore) (Near-Field)	End Lower River		36240	0	4660	0	5870	4720	6090	6160	8740	0	0	0	None	C	down	stay		71.0						
54-200-2	26-May-10	Unknown	Unknown	Start Tailrace Detection 2														None				71.0							
54-200-2	26-May-10	Unknown	Unknown	Transition Upstream 4 (Tailrace to Upper Tailrace)														None				71.0							
54-200-2	26-May-10	17:39:56	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C	up	up		71.0	7	1,2,3,4,5,6,7,8,9,10,11	1		move up to west tailrace for 3 min	
54-200-2	26-May-10	18:02:46	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	A	74340	5290	4660	6080	5870	4720	6090	6160	8740	9000	8990	8740	None	C				71.0						
54-200-2	Unknown	Unknown	Unknown	Transition Downstream 4 (Upper Tailrace to Tailrace)														None											
54-200-2	Unknown	Unknown	Unknown	End Tailrace Detection 2														None											
54-200-2	29-May-10	15:47:41	Tomes Landing (East Shore) (Near-Field)	Start Lower River		38730	0	4220	0	0	4320	6160	6230	8780	9020	0	0	None	C	down	stay		74.7						
54-200-2	30-May-10	12:50:32	Lapidum (West Shore) (Near-Field)	End Detections		8200	0	4040	0	0	4160	0	0	0	0	0	0	None	A	down	stay		76.2						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-209 (A1)	28-Apr-10	11:35:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
54-209 (A1)	12-May-10	13:20:43	Spencer Island West (Near-Field)	End Lower River		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	down	stay		60.2						
54-209 (A1)	12-May-10	17:31:04	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2	1	2,5,7	0		move in tailrace, generation unchanged for 4 hr	
54-209 (A1)	13-May-10	6:03:09	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay		58.8	1	2,5				
54-209 (A1)	13-May-10	6:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	7:02:35	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		down		58.8			3		move up .5 hr after generation decrease	
54-209 (A1)	13-May-10	7:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8					move back and forth, no change in generation	
54-209 (A1)	13-May-10	8:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	9:30:00			B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	10:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	11:30:00			B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	12:10:42	"A" Gate Aerial	Start EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	12:13:45	"A" Gate Aerial	End EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	12:17:36	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	12:30:00			B/C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	12:42:47	Rowland Island East (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		up		58.8						
54-209 (A1)	13-May-10	12:45:20	Rowland Island East (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	13:17:57	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		down		58.8						
54-209 (A1)	13-May-10	13:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	14:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	15:30:00			A/B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	15:30:50	"A" Gate Aerial	Start EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	15:42:00	"A" Gate Entrance Dropper	Single EFL Peek - Don't Count	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	15:46:39	"A" Gate Aerial	End EFL Aerial Detection	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-209 (A1)	13-May-10	16:22:21	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8			0		drop out of tailrace, no change in generation	
54-209 (A1)	13-May-10	Unknown	Unknown	Transition Downstream 2 (Upper Tailrace to Tailrace)														None				58.8							
54-209 (A1)	13-May-10	Unknown	Unknown	End Tailrace Detection 1														None				58.8							
54-209 (A1)	13-May-10	18:30:33	Spencer Island West (Near-Field)	Start Lower River		64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C	up	stay		58.8						
54-209 (A1)	15-May-10	11:07:21	Spencer Island West (Near-Field)	End Lower River		32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	stay		60.4						
54-209 (A1)	15-May-10	Unknown	Unknown	Start Tailrace Detection 2														None				60.4							
54-209 (A1)	15-May-10	Unknown	Unknown	Transition Upstream 3 (Tailrace to Upper Tailrace)														None				60.4							
54-209 (A1)	15-May-10	15:29:03	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C	up	stay		60.4	6	1,2,3,4,5,6,7,9,10,11	2		move up, back and forth	
54-209 (A1)	15-May-10	15:30:00			B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4						
54-209 (A1)	15-May-10	16:28:57	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	A	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4						
54-209 (A1)	15-May-10	16:30:00			A/B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4						
54-209 (A1)	15-May-10	17:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4						
54-209 (A1)	15-May-10	18:29:47	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C		down		60.4			0		drop back, no response to generation	
54-209 (A1)	15-May-10	18:30:00			E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4						
54-209 (A1)	15-May-10	19:30:00			E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4						
54-209 (A1)	15-May-10	20:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	stay		60.4	3	2,3,4,5,6,7				
54-209 (A1)	15-May-10	21:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-209 (A1)	15-May-10	22:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-209 (A1)	15-May-10	23:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4						
54-209 (A1)	16-May-10	0:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A	down	stay		63.6	1	5,7				
54-209 (A1)	16-May-10	1:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6						
54-209 (A1)	16-May-10	2:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6						
54-209 (A1)	16-May-10	3:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6						
54-209 (A1)	16-May-10	4:05:46	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6						
54-209 (A1)	16-May-10	4:30:00			E	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6						
54-209 (A1)	16-May-10	5:18:46	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	0	None	C	up	up		63.6	4	2,3,4,5,6,7,8	3		move up, back and forth, mostly west-center, increase in generation
54-209 (A1)	16-May-10	5:30:00			B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6						
54-209 (A1)	16-May-10	6:30:																											

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1	
54-211 (A1)	28-Apr-10	11:35:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
54-211 (A1)	08-May-10	10:05:57	Lapidum (West Shore) (Near-Field)	End Lower River		9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		69.2						
54-211 (A1)	13-May-10	13:05:17	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8	1	2,5	0		move up in to tailrace	
54-211 (A1)	13-May-10	13:25:10	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-211 (A1)	13-May-10	13:30:00			E	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-211 (A1)	13-May-10	14:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-211 (A1)	13-May-10	15:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-211 (A1)	13-May-10	16:27:57	Conowingo Tailrace Unit 8 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A		up		58.8			1		move up to zone C, no change in generation	
54-211 (A1)	13-May-10	16:30:00			C	8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
54-211 (A1)	13-May-10	17:30:00				64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C	up	stay		58.8	6	1,2,3,4,5,6,7,8,9,11	3		begin moving back and forth, increase in generation	
54-211 (A1)	13-May-10	18:30:00			B/C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8						
54-211 (A1)	13-May-10	19:30:00			A/B/C	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8						
54-211 (A1)	13-May-10	19:35:04	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C				58.8			1		drop out of tailrace, no change in generation	
54-211 (A1)	Unknown	Unknown	Unknown	Transition Downstream 1 (Upper Tailrace to Tailrace)														None											
54-211 (A1)	Unknown	Unknown	Unknown	End Tailrace Detection 1														None											
54-211 (A1)	14-May-10	19:44:48	Lapidum (West Shore) (Near-Field)	Start Lower River		72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay		58.4						
54-211 (A1)	19-May-10	22:43:16	Lapidum (West Shore) (Near-Field)	End Lower River		0	0	0	0	0	0	0	0	0	0	0	0	None	A				63.4						
54-211 (A1)	20-May-10	14:40:00	150 yards off west shoreline, just Ups Bird Island	Transition Upstream between Lower River & Tailrace		64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	down	stay		62.5						
54-211 (A1)	Unknown	Unknown	Unknown	Start Tailrace Detection 2														None											
54-211 (A1)	Unknown	Unknown	Unknown	Transition Upstream 2 (Tailrace to Upper Tailrace)														None											
54-211 (A1)	21-May-10	14:38:05	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C	up	stay		63.5	7	1,2,3,4,5,6,7,8,9,10,11	3		move in to upper tailrace, move west to east to zone C,	
54-211 (A1)	21-May-10	15:30:00			A/B	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5					stay in zone C 1 hr, constant generation	
54-211 (A1)	21-May-10	16:30:00			C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5						
54-211 (A1)	21-May-10	17:00:02	"C" Gate Aerial	Start EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5						
54-211 (A1)	21-May-10	17:00:16	"C" Gate Aerial	End EFL Aerial Detection	C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5						
54-211 (A1)	21-May-10	17:30:00			C	74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5						
54-211 (A1)	21-May-10	18:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5						
54-211 (A1)	21-May-10	19:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5						
54-211 (A1)	21-May-10	20:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5						
54-211 (A1)	21-May-10	21:30:00				74410	5700	4620	6150	5960	4780	5940	6090	8710	8860	9030	8570	None	C				63.5						
54-211 (A1)	21-May-10	22:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A	down	stay		63.5	1	2,5				
54-211 (A1)	21-May-10	23:30:00				9400	0	4620	0	0	4780	0	0	0	0	0	0	None	A				63.5						
54-211 (A1)	22-May-10	0:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	1:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	2:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	3:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	4:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	5:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	6:30:00			A/B	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4			3		move west to east to zone C 40 min	
54-211 (A1)	22-May-10	7:30:00			A/B	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4					constant generation	
54-211 (A1)	22-May-10	7:47:42	"C" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	7:48:11	"C" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	8:19:00	"A" Gate Aerial	Start EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	8:25:37	"A" Gate Entrance Dropper	Single EFL Peek - Don't Count	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	8:25:42	"A" Gate Aerial	End EFL Aerial Detection	C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	8:30:00			C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	9:30:00			A	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4			3		move back and forth, no change in generation	
54-211 (A1)	22-May-10	10:30:00			B/C	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	11:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	11:30:00	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A				65.4						
54-211 (A1)	22-May-10	12:39:04				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C	up	stay		65.4	5	1,2,3,4,5,6,8,9				
54-211 (A1)	22-May-10	13:23:59	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E																								

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI1
	23-May-10	11:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				67.9					
	23-May-10	12:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				67.9					
	23-May-10	13:30:00				30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				67.9	3	2,5,6,7,8			
	23-May-10	14:30:00				30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				67.9					
	23-May-10	15:30:00				30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				67.9					
	23-May-10	16:30:00				30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				67.9					
	23-May-10	17:30:00				30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C				67.9					
	23-May-10	18:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				67.9					
	23-May-10	19:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				67.9					
	23-May-10	20:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				67.9					
	23-May-10	21:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C				67.9					
	23-May-10	22:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A	down	stay		67.9					
	23-May-10	23:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A				67.9	1	2,5			
	24-May-10	0:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	1:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	2:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	3:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	4:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	5:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	6:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	7:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	8:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	9:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	10:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	11:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A				69.6					
	24-May-10	12:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C	up	stay		69.6	6	2,3,4,5,6,7,8,9			
	24-May-10	13:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
	24-May-10	14:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
	24-May-10	15:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
	24-May-10	16:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
54-211 (A1)	24-May-10	16:45:44	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C		up		69.6				3	back and forth in upper tailrace
54-211 (A1)	24-May-10	17:30:00			A/B/C	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
54-211 (A1)	24-May-10	18:30:00			B/C	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
	24-May-10	19:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
	24-May-10	20:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
	24-May-10	21:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C				69.6					
	24-May-10	22:30:00				21690	0	4610	0	0	4820	6110	6150	0	0	0	0	None	A	down	stay		69.6	2	2,5,6,7			
	24-May-10	23:30:00				30420	0	4610	0	0	4820	6110	6150	8730	0	0	0	None	C	up	stay		69.6	3	2,5,6,7,8			
	24-May-10	0:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A	down	stay		69.6	1	2,5			
	25-May-10	1:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2					
	25-May-10	2:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2					
	25-May-10	3:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2					
	25-May-10	4:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2					
	25-May-10	5:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2					
	25-May-10	6:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2					
	25-May-10	7:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2					
	25-May-10	8:30:00				21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A	up	stay		70.2	2	2,5,6,7			
	25-May-10	9:30:00				21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A				70.2					
	25-May-10	10:30:00				21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A				70.2					
	25-May-10	11:30:00				21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A				70.2					
	25-May-10	12:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C	up	stay		70.2	6	2,3,4,5,6,7,8,9,11			
	25-May-10	13:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
	25-May-10	14:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
	25-May-10	15:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
	25-May-10	16:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
	25-May-10	17:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
	25-May-10	18:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
54-211 (A1)	25-May-10	18:33:36	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					
54-211 (A1)	25-May-10	19:07:54	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C		down		70.2				0	drop back no, change in generatiob
54-211 (A1)	25-May-10	19:07:54	Rowland Island West (Near-Field)	End Detections	E	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2					

**APPENDIX A-6: 2010 CONOWINGO TAILRACE ZONES.**



**Flow Bins (cfs)**

<b>Flow Bin No.#</b>	<b>Low</b>	<b>High</b>	<b>flow coverage</b>
1	7,500	18,000	10,500
2	18,001	28,000	9,999
3	28,001	36,000	7,999
4	36,001	45,000	8,999
5	45,001	55,000	9,999
6	55,001	66,000	10,999
7	66,001	80,000	13,999
8	80,001	100,000	19,999
9	100,001	120,000	19,999

Zone	Description
Zone A	House Units and Units 1-3
Zone B	Units 4-7
Zone C	Kaplans, East Fish Lift
Zone D	Spillway
Zone E	West Side Rowland Island
Zone F	East Side Rowland Island

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
21-101 (A1)	22-Apr-10	10:47:00	Conwingo Tailrace	Release - Downstream of "C" Gate		40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C					58.1					
21-101 (A1)	07-May-10	5:35:10	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay		69.4	2	2,4,5,7	0		Stay near Rowland Island	
		6:30:00			E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				69.4						
		7:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				69.4						
		8:30:00			E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C	up			69.4	4	2,4,5,6,7,8			move up small change in gen	
21-101 (A1)	07-May-10	9:03:52	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
21-101 (A1)	07-May-10	9:20:31	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C		up		69.4	4	2,4,5,6,7,8				
		9:30:00			A/B/E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4			3		lateral movement, no change	
		10:30:00			A/B	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
		11:30:00			A/B	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	None	C				69.4						
		12:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		69.4	6	2,3,4,5,6,7,8,9,11				
		13:30:00			A/B	54780	0	4570	0	5860	5410	6530	6410	8700	8630	0	8670	None	C	down	stay		69.4	5	2,4,5,6,7,8,9,11				
		14:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		69.4	6	2,3,4,5,6,7,8,9,11				
		15:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-101 (A1)	07-May-10	16:06:52	"C" Gate Aerial	Start EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-101 (A1)	07-May-10	16:11:12	"A" Gate Aerial	End EFL Aerial Detection	C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4			1		move down, no change	
		16:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-101 (A1)	07-May-10	16:55:17	Conowingo Tailrace Units 1-7 Master	End Upper Tailrace Detection (End UT Foray 1)		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4			3			
21-101 (A1)	07-May-10	17:12:13	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C		down		69.4	6	2,3,4,5,6,7,8,9,11	0		No movement, no change in Gen.	
		17:30:00			E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-101 (A1)	07-May-10	18:25:47	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
		18:30:00			E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
21-101 (A1)	07-May-10	18:51:53	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C		up		69.4	6	2,3,4,5,6,7,8,9,11				
21-101 (A1)	07-May-10	19:15:50	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4			2		move up, no gen change	
		19:30:00			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
		20:30:00				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4						
		21:30:00				34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	None	A	down	stay		69.4	3	2,3,4,5,6,7				
		22:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay		69.4	2	2,4,5,7				
		23:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				69.4						
21-101 (A1)	08-May-10	0:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		69.2	1	2,5				
		1:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
		2:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
		3:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
		4:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
		5:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
		6:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
21-101 (A1)	08-May-10	7:21:21	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		down		69.2	1	2,5	0		No movement, no change in Gen.	
		7:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
		8:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
		9:30:00			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
		10:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2						
		11:30:00			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	up	stay		69.2	4	2,5,6,7,8,9				
		12:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
		13:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
		14:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
		15:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
		16:30:00			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
		17:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
		18:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
		19:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
		20:30:00			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
		21:30:00				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2						
		22:30:00																											

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
		13:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
		14:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
		15:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
		16:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
		17:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
		18:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
		19:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
		20:30:00				32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
		21:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A	down	stay		67.2	1	2,5			
		22:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
		23:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-101 (A1)	10-May-10	0:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		1:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		2:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		3:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		4:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		5:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		6:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C	up	stay		64.5	3	2,5,6,7,8			
		7:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5					
		8:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5					
		9:30:00				30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5					
		10:30:00				21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A	down	stay		64.5	2	2,5,6,7			
		11:30:00				21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
		12:30:00				21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
		13:30:00				E 9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5			
		14:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		15:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		16:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-101 (A1)	10-May-10	17:15:47	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5			1		No movement, several gen changes
21-101 (A1)	10-May-10	21:48:34	Spencer Island West (Near-Field)	Start Lower River		38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	stay		64.5	4	2,5,6,7,8,9			
21-101 (A1)	14-May-10	0:03:03	Lapidum (West Shore) (Near-Field)	End Lower River		9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A	down	stay		58.4	1				
21-101 (A1)	NA	NA	NA	Start Tailrace Detection 2		0												None	A									
21-101 (A1)	NA	NA	NA	Transition Upstream 3 (Tailrace to Upper Tailrace)		0												None	A									
21-101 (A1)	20-May-10	6:36:14	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	9280	0	4530	0	0	4750	0	0	0	0	0	0	None	A		up		62.5	1	2,5	1		
		7:30:00				0												None	A				62.5					
21-101 (A1)	20-May-10	8:09:42	Conowingo Tailrace Unit 1 (Mid-Field)	End Detections		38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C	up	stay		62.5	4	2,5,6,7,8,9			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
21-102 (A1)	22-Apr-10	10:55:00 AM	Conwingo Tailrace	Release - Downstream of "C" Gate		40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C					58.1					
21-102 (A1)	22-Apr-10	NA	NA	Start Tailrace Detection 1		0												None	A					58.1					
21-102 (A1)	22-Apr-10	6:17:22 PM	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	down	stay			58.1	6	2,3,4,5,6,7,8,9,11	1		no movement
		6:30:00 PM			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C					58.1					
21-102 (A1)	22-Apr-10	6:44:24 PM	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C		up			58.1	6	2,3,4,5,6,7,8,9,11	1		move up, increased gen.
		7:30:00 PM			A/B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C					58.1					
		8:30:00 PM			A/B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C					58.1					
		9:30:00 PM			B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C					58.1					
		10:30:00 PM			B/C/E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay			58.1	1	5,7			move down, decrease gen.
		11:30:00 PM			A/B/E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A					58.1					
21-102 (A1)	23-Apr-10	12:30:00 AM			B/E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
		1:30:00 AM			A/B/E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
		2:30:00 AM			B/E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
		3:30:00 AM			B/E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
		4:30:00 AM			B/E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
		5:30:00 AM			A/B/E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
		6:30:00 AM			A/B	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
21-102 (A1)	23-Apr-10	6:41:49 AM	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7			4		move down, increase gen.
21-102 (A1)	23-Apr-10	7:08:17 AM	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	down			59.7	4	4,5,6,7,8,9	1		no movement
		7:30:00 AM			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		8:30:00 AM			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		9:30:00 AM			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		10:30:00 AM			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		11:30:00 AM			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		12:30:00 PM			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		1:30:00 PM			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay			59.7	1	5,7			
		2:30:00 PM			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
		3:30:00 PM			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
		4:30:00 PM			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
		5:30:00 PM			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
		6:30:00 PM			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay			59.7	4	4,5,6,7,8,9			
		6:30:00 PM			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		7:30:00 PM			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		8:30:00 PM			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		9:30:00 PM			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		10:30:00 PM			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay			59.7	1	5,7			
		11:30:00 PM			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A					59.7					
21-102 (A1)	24-Apr-10	12:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		1:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		2:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		3:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		4:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		5:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		6:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		7:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		8:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		9:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		10:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		11:30:00 AM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		12:30:00 PM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		1:30:00 PM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		2:30:00 PM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		3:30:00 PM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		4:30:00 PM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A					60.6					
		5:30:00 PM			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None											



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
		7:30:00 AM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A					61.0				
		8:30:00 AM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A					61.0				
		9:30:00 AM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A					61.0				
		10:30:00 AM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A					61.0				
		11:30:00 AM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A					61.0				
		12:30:00 PM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A					61.0				
		1:30:00 PM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A					61.0				
		2:30:00 PM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A					61.0				
		3:30:00 PM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A					61.0				
		4:30:00 PM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A					61.0				
		5:30:00 PM			E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A	up	stay			61.0	2	4,5,6,7		
		6:30:00 PM			E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A					61.0				
		7:30:00 PM			E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A					61.0				
		8:30:00 PM			E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A					61.0				
		9:30:00 PM			E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A					61.0				
		10:30:00 PM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A	down	stay			61.0	1	5,7		no movement
		11:30:00 PM			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A					61.0				
21-102 (A1)	26-Apr-10	12:30:00 AM			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A					60.9				
		1:30:00 AM			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A					60.9				
		2:30:00 AM			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A					60.9				
		3:30:00 AM			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A					60.9				
		4:30:00 AM			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A					60.9				
		5:30:00 AM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C	up	stay			60.9	4	4,5,6,7,8,9		
		6:30:00 AM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
		7:30:00 AM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
		8:30:00 AM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
		9:30:00 AM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
		10:30:00 AM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
		11:30:00 AM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
		12:30:00 PM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
		1:30:00 PM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
21-102 (A1)	26-Apr-10	2:01:48 PM	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9			1	no movement
21-102 (A1)	26-Apr-10	2:24:45 PM	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		up			60.9	4	4,5,6,7,8,9	1	move up, no gen. change
		2:30:00 PM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		down			60.9	4	4,5,6,7,8,9		
		3:30:00 PM			B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		up			60.9	4	4,5,6,7,8,9		
		4:30:00 PM			A/B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
		5:30:00 PM			A/B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
		6:30:00 PM			A/B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
21-102 (A1)	26-Apr-10	7:10:39 PM	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9			3	move up, no gen. change
		7:30:00 PM			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
21-102 (A1)	26-Apr-10	7:34:22 PM	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C			down		60.9	4	4,5,6,7,8,9	1	move down, no gen. change
		8:30:00 PM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
		9:30:00 PM			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C					60.9				
		10:30:00 PM			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A	down	stay			60.9	1	5,7		
		11:30:00 PM			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A					60.9				
21-102 (A1)	27-Apr-10	12:30:00 AM			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A					60.6				
21-102 (A1)	27-Apr-10	1:17:52 AM	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A					60.6				
		1:30:00 AM			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A					60.6				
21-102 (A1)	27-Apr-10	1:55:57 AM	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A			up		60.6	1	5,7	1	move up, after gen. change
		2:30:00 AM			B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A					60.6				
		3:30:00 AM			B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A					60.6				
		4:30:00 AM			B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A					60.6				
		5:30:00 AM			B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A					60.6				
21-102 (A1)	27-Apr-10	6:08:25 AM	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A					60.6				
21-102 (A1)	27-Apr-10	6:16:00 AM	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A			down		60.6	1	5,7	1	move down, no gen. change
		6:30:00 AM			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A					60.6				
		7:30:00 AM			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A					60.6				
		8:30:00 AM				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A					60.6				
		9:30:00 AM			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	stay			60.6	2	4,5,6,7		
		10:30:00 AM				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A					60.6				
		11:30:00 AM				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A					60.6				
		12:30:00 PM			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A					60.6				
		1:30:00 PM			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A	down	stay			60.6	1	5,6		
21-102 (A1)	27-Apr-10	2:18:37 PM	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A					60.6				
		2:30:00 PM			E	11150	0	0	0	0	5180	5970																

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
		4:30:00 PM				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay		60.6	6	2,3,4,5,6,7,8,9,11				
		5:30:00 PM				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6						
21-102 (A1)	27-Apr-10	6:30:22 PM	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6						
		7:30:00 PM				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6						
		8:30:00 PM				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6						
		9:30:00 PM				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6						
		10:30:00 PM				11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A	down	stay		60.6	1	4,5				
21-102 (A1)	27-Apr-10	11:07:27 PM	Rowland Island East (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A		down		60.6	1	4,5				
		11:30:00 PM			E	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A				60.6						
21-102 (A1)	27-Apr-10	11:40:05 PM	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A				60.6						
		12:30:00 AM				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				60.6						
21-102 (A1)	28-Apr-10	12:50:49 AM	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A		up		58.6	1	4,5	1		move up, after gen. change	
		1:30:00 AM			A/B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6						
		2:30:00 AM			B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6						
		3:30:00 AM			A/B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6						
		4:30:00 AM			B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6						
		5:30:00 AM			B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6						
		6:30:00 AM			A/B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6						
		7:30:00 AM			A/B	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6			2		lateral movement, after gen. change	
21-102 (A1)	28-Apr-10	8:00:14 AM	"A" Gate Aerial	Start EFL Aerial Detection	C	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6						
21-102 (A1)	28-Apr-10	8:04:43 AM	"A" Gate Aerial	End EFL Aerial Detection	C	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6						
		8:30:00 AM			C	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6						
		9:30:00 AM				22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	up	stay		58.6	2	4,5,6,7				
		10:30:00 AM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		58.6	4	4,5,6,7,8,9				
		11:30:00 AM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		12:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		1:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		2:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		3:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		4:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		5:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		6:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		7:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		8:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		9:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		10:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
		11:30:00 PM				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
21-102 (A1)	29-Apr-10	12:30:00 AM				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A	down	stay		56.8	2	3,5,6,7				
		1:30:00 AM				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				56.8						
		2:30:00 AM				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				56.8						
		3:30:00 AM				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		56.8	1	5,7				
		4:30:00 AM				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
		5:30:00 AM				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
		6:30:00 AM				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
		7:30:00 AM				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
		8:30:00 AM				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
		9:30:00 AM				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
		10:30:00 AM				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
		11:30:00 AM				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
		12:30:00 PM				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
		1:30:00 PM				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C	up	stay		56.8	6	1,2,3,4,5,6,7,8,9,10				
		2:30:00 PM				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8						
		3:30:00 PM			A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8			2		no movement	
		4:30:00 PM			A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8						
		5:30:00 PM			E																								



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
		11:30:00 PM			E	64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C					62.5					
21-102 (A1)	03-May-10	12:30:00 AM				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay			65.5	1	2,5			
		1:30:00 AM			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
		2:30:00 AM			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
		3:30:00 AM			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
		4:30:00 AM			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
		5:30:00 AM			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
		6:30:00 AM			E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
		7:30:00 AM				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
		8:30:00 AM				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
		9:30:00 AM				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
		10:30:00 AM				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
		11:30:00 AM				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A					65.5					
		12:30:00 PM				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up	stay			65.5	6	1,2,3,4,5,6,7,8,9,11			
		1:30:00 PM				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
		2:30:00 PM				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
		3:30:00 PM				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
		4:30:00 PM				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
		5:30:00 PM			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
		6:30:00 PM			E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5					
21-102 (A1)	03-May-10	6:50:30 PM	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C					65.5			1		no movement
21-102 (A1)	03-May-10	8:53:02 PM	Lapidum (West Shore) (Near-Field)	Start Lower River		73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C	up	stay			65.5	7	1,2,3,4,5,6,7,8,9,10,11			
21-102 (A1)	05-May-10	1:13:44 PM	Lapidum (West Shore) (Near-Field)	End Lower River		63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	down	stay			69.2	6	1,2,3,4,5,6,7,8,9,11			
21-102 (A1)	NA	NA	NA	Start Tailrace Detection 2		0												None	A										
21-102 (A1)	NA	NA	NA	Transition Upstream 6 (Tailrace to Upper Tailrace)		0												None	A										
21-102 (A1)	06-May-10	2:13:38 AM	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	up			69.5	1	3,5	1	move up, after gen. change	
		2:30:00 AM			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		3:30:00 AM			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		4:30:00 AM			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		5:30:00 AM			A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		6:30:00 AM			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		7:30:00 AM			A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		8:30:00 AM			A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		9:30:00 AM			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		10:30:00 AM			A	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		11:30:00 AM			A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		12:30:00 PM			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		1:30:00 PM			A	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
		2:30:00 PM				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay			69.5	6	2,3,4,5,6,7,8,9,11			
		3:30:00 PM				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C					69.5					
		4:30:00 PM				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	stay			69.5	7	2,3,4,5,6,7,8,9,10,11			
		5:30:00 PM				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C					69.5					
		6:30:00 PM				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C					69.5					
		7:30:00 PM				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C					69.5					
		8:30:00 PM			A	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C					69.5					
		9:30:00 PM			A	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C					69.5					
		10:30:00 PM			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay			69.5	1	3,5			
		11:30:00 PM			A	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A					69.5					
21-102 (A1)	07-May-10	12:30:00 AM			A	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	up	stay			69.4	2	2,4,5,7			
		1:30:00 AM			A	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4					
		2:30:00 AM			A	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4					
		3:30:00 AM			A	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4					
		4:30:00 AM			A	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4					
		5:30:00 AM			A	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A					69.4					

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
		7:30:00 PM			A/B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C		up		69.4	6	2,3,4,5,6,7,8,9,11			
		8:30:00 PM				60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4					
		9:30:00 PM				34790	0	4570	6010	5860	5410	6530	6410	0	0	0	0	None	A	down	stay		69.4	3	2,3,4,5,6,7			
		10:30:00 PM				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A	down	stay		69.4	2	2,4,5,7			
		11:30:00 PM				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	None	A				69.4					
21-102 (A1)	08-May-10	12:30:00 AM				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		69.2	1	2,5			
		1:30:00 AM				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
		2:30:00 AM				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
		3:30:00 AM				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
		4:30:00 AM				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
		5:30:00 AM				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
		6:30:00 AM				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
		7:30:00 AM			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		down		69.2	1	2,5			
		8:30:00 AM			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
		9:30:00 AM			E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
		10:30:00 AM				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
		11:30:00 AM			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	up	stay		69.2	4	2,5,6,7,8,9			
		12:30:00 PM				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		1:30:00 PM				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		2:30:00 PM				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		3:30:00 PM				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		4:30:00 PM				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		5:30:00 PM				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		6:30:00 PM			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		7:30:00 PM			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		8:30:00 PM				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		9:30:00 PM				39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		10:30:00 PM				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A	down	stay		69.2	1	2,5			
		11:30:00 PM				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
21-102 (A1)	09-May-10	12:30:00 AM				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
		1:30:00 AM				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
		2:30:00 AM				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
		3:30:00 AM				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
		4:30:00 AM				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
		5:30:00 AM				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
		6:30:00 AM				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
		7:30:00 AM				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
		8:30:00 AM				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-102 (A1)	09-May-10	8:36:04 AM	Conowingo Tailrace Unit 5 (Mid-Field)	End Detections	B	8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A		up		67.2	1	2,5	1	1	no movement move up, after gen. change





Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
21-105 (A1)	06-May-10	17:47:57	"C" Gate Aerial	Start EFL Aerial Detection	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
21-105 (A1)	06-May-10	17:49:32	"C" Gate Aerial	End EFL Aerial Detection	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
		18:30:00			A/B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
21-105 (A1)	06-May-10	18:32:39	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	C	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5			3		Lateral movement, no gen. change	
21-105 (A1)	06-May-10	18:44:47	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C		down		69.5	7	2,3,4,5,6,7,8,9,10,11				
		19:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
		20:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
		21:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5						
		22:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A	down	stay	69.5	1	3,5				
		23:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	0	None	A			69.5						
21-105 (A1)	07-May-10	0:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A	up	stay	69.4	2	2,4,5,7				
		1:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A			69.4						
		2:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A			69.4						
		3:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A			69.4						
		4:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A			69.4						
		5:30:00				22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A			69.4						
21-105 (A1)	07-May-10	6:02:58	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A		down		69.4	2	2,4,5,7	1		no movement
21-105 (A1)	07-May-10	6:12:33	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A		up		69.4					
		6:30:00			A/B/E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A			69.4						
21-105 (A1)	07-May-10	6:47:21	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A			69.4			2		Lateral movement, no gen. change	
21-105 (A1)	07-May-10	7:06:01	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A		down		69.4	2	2,4,5,7			
		7:30:00			E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A			69.4						
21-105 (A1)	07-May-10	8:05:40	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	22250	0	4570	0	5860	5410	0	6410	0	0	0	0	0	None	A			69.4						
		8:30:00			E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	0	None	C	up	stay	69.4	4	2,4,5,6,7,8				
21-105 (A1)	07-May-10	8:42:48	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	A	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	0	None	C		up		69.4	4	2,4,5,6,7,8			
		9:30:00			A/B/C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	0	None	C			69.4						
21-105 (A1)	07-May-10	9:38:03	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)		37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	0	None	C			69.4			3		Lateral movement, no gen. change	
21-105 (A1)	07-May-10	10:09:05	Rowland Island East (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	C	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	0	None	C			69.4						
		10:30:00			E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	0	None	C		down		69.4	4	2,4,5,6,7,8			
21-105 (A1)	07-May-10	10:35:57	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	0	None	C			69.4						
21-105 (A1)	07-May-10	11:20:37	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	A	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	0	None	C		up		69.4	4	2,4,5,6,7,8			
		11:30:00			A	37480	0	4570	0	5860	5410	6530	6410	8700	0	0	0	0	None	C			69.4						
21-105 (A1)	07-May-10	17:13:39	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	A	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	0	None	C	up	stay		69.4	6	2,3,4,5,6,7,8,9,11	1		no movement
21-105 (A1)	07-May-10	NA	NA	Transition Downstream 7 (Upper Tailrace to Tailrace)		0												None	A				69.4						
21-105 (A1)	07-May-10	NA	NA	End Tailrace Detection 4		0												None	A				69.4						
21-105 (A1)	07-May-10	20:57:36	Spencer Island West (Near-Field)	Start Lower River	E	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	0	None	C		down		69.4	6	2,3,4,5,6,7,8,9,11			
21-105 (A1)	08-May-10	0:44:33	Spencer Island West (Near-Field)	End Detections	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	0	None	A	down	stay		69.2	1	2,5			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
21-110 (A1)	22-Apr-10	11:35:00	Conwingo Tailrace	Release - Downstream of "C" Gate		40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C					58.1					
21-110 (A1)	NA	NA	NA	Start Tailrace Detection 1		0												None	A										
21-110 (A1)	23-Apr-10	8:45:12	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		8:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		9:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
21-110 (A1)	23-Apr-10	10:02:00	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C		up			59.7	4	4,5,6,7,8,9			
		10:30:00			B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		11:30:00			B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
21-110 (A1)	23-Apr-10	12:14:55	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7			1		no movement, no gen change
		12:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
21-110 (A1)	23-Apr-10	12:35:08	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C		down			59.7	4	4,5,6,7,8,9			
21-110 (A1)	23-Apr-10	14:37:03	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	0	None	A	down	stay		59.7			1		no movement, no gen change
21-110 (A1)	23-Apr-10	14:59:36	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	11460	0	0	0	0	5170	0	6290	0	0	0	0	0	None	A	up			59.7	1	5,7			
		15:30:00			A/B/C	11460	0	0	0	0	5170	0	6290	0	0	0	0	0	None	A				59.7					
		16:30:00			A/B/C	11460	0	0	0	0	5170	0	6290	0	0	0	0	0	None	A				59.7					
		17:30:00			A/B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		59.7	4	4,5,6,7,8,9				
21-110 (A1)	23-Apr-10	17:31:53	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	C	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7			3		Lateral movement, gen. change
21-110 (A1)	23-Apr-10	17:58:54	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C		down			59.7	4	4,5,6,7,8,9			
21-110 (A1)	23-Apr-10	18:18:42	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
21-110 (A1)	23-Apr-10	19:40:40	Spencer Island West (Near-Field)	Start Lower River		40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
21-110 (A1)	26-Apr-10	2:11:24	Spencer Island East (Near-Field)	End Lower River		11300	0	0	0	0	5240	0	6060	0	0	0	0	0	None	A	down	stay		60.9	1	4,5,6,7,8,9			
21-110 (A1)	28-Apr-10	6:53:23	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	0	None	A				58.6					
21-110 (A1)	28-Apr-10	6:53:23	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	0	None	A				58.6					
		7:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	0	None	A				58.6					
		8:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	0	None	A				58.6					
		9:30:00				22770	0	0	0	5880	5120	5750	6020	0	0	0	0	0	None	A	up	stay		58.6	2	4,5,6,7			
		10:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		58.6	2	4,5,6,7,8,9				
		11:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		12:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		13:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		14:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		15:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		16:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		17:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		18:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		19:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		20:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		21:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		22:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
		23:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
21-110 (A1)	29-Apr-10	0:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	0	None	A	up	stay		56.8	2	3,5,6,7			
		1:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	0	None	A				56.8					
		2:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	0	None	A				56.8					
		3:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A	down	stay		56.8	1	4,7			
		4:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A				56.8					
		5:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A				56.8					
		6:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A				56.8					
		7:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A				56.8					
		8:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A				56.8					
		9:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A				56.8					
		10:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A				56.8					
		11:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A				56.8					
		12:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	0	None	A									

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
21-110 (A1)	30-Apr-10	0:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0						
		1:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0						
		2:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0						
		3:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0						
		4:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0						
21-110 (A1)	30-Apr-10	5:09:18	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A		up		57.0	1	5,7				
21-110 (A1)	30-Apr-10	5:24:19	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	A	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0			3		move up, after change in gen.	
21-110 (A1)	NA	NA	NA	Transition Downstream 3 (Upper Tailrace to Tailrace)		0												None	A										
21-110 (A1)	NA	NA	NA	End Tailrace Detection 2		0												None	A										
21-110 (A1)	03-May-10	1:34:36	Lapidum (West Shore) (Near-Field)	Start Lower River		8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay		65.5	1	2,5				
21-110 (A1)	04-May-10	6:56:20	Lapidum (West Shore) (Near-Field)	End Detections		9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		65.5	1	2,5				

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
21-111 (A1)	22-Apr-10	11:38:00	Conwingo Tailrace	Release - Downstream of "C" Gate		40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C					58.1					
21-111 (A1)	NA	NA	NA	Start Tailrace Detection 1		0												None	A										
21-111 (A1)	23-Apr-10	7:28:57	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		7:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		8:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		9:30:00			D	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C		spillway			59.7	4	4,5,6,7,8,9			
		10:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
21-111 (A1)	23-Apr-10	10:57:03	Conowingo Tailrace Unit 8 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		11:30:00			A/B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		12:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		13:30:00			B	11460	0	0	0	5170	0	6290	0	0	0	0	0	None	A	down	stay		59.7	1	5,7				
		14:30:00			A/B	11460	0	0	0	5170	0	6290	0	0	0	0	0	None	A				59.7						
		15:30:00			A	11460	0	0	0	5170	0	6290	0	0	0	0	0	None	A				59.7						
		16:30:00			B	11460	0	0	0	5170	0	6290	0	0	0	0	0	None	A				59.7						
		17:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		59.7	4	4,5,6,7,8,9				
		18:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7						
21-111 (A1)	23-Apr-10	19:21:57	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	C	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7			3		Lateral movement,after gen. change
		19:30:00			B/C	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
21-111 (A1)	23-Apr-10	19:50:41	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C		down			59.7	4	4,5,6,7,8,9	1		move down
		20:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		21:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C					59.7					
		22:30:00			E	11460	0	0	0	5170	0	6290	0	0	0	0	0	None	A	down	stay		59.7	1	5,7				
		23:30:00			E	11460	0	0	0	5170	0	6290	0	0	0	0	0	None	A				59.7						
21-111 (A1)	24-Apr-10	0:30:00			E	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		1:30:00			E	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		2:30:00			E	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		3:30:00			E	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		4:30:00			E	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		5:30:00			E	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
21-111 (A1)	24-Apr-10	6:02:50	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		6:30:00			E	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6			1		no movement, no gen change	
21-111 (A1)	24-Apr-10	7:20:43	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A		up		60.6	1	5,7	1		move up, no gen change	
		7:30:00			B	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		8:30:00				11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		9:30:00			A	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		10:30:00				11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		11:30:00			E	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A		down		60.6	1	5,7				
		12:30:00				11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		13:30:00				11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		14:30:00			A/C	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A		up		60.6	1	5,7				
		15:30:00			A/B/C	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		16:30:00			A	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		17:30:00			A/B	11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
		18:30:00				11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
21-111 (A1)	24-Apr-10	20:17:57	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	0	None	A		up	stay	60.6	2	4,5,6,7			
		20:30:00			A/B	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	0	None	A				60.6			3		Lateral movement,after gen. change
21-111 (A1)	24-Apr-10	20:49:53	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	0	None	A		down		60.6	2	4,5,6,7	1		move down
		21:30:00			E	23390	0	0	0	6070	5240	5860	6220	0	0	0	0	0	None	A			60.6						
		22:30:00				11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A	down	stay		60.6	1	5,7				
		23:30:00				11460	0	0	0	5240	0	6220	0	0	0	0	0	None	A				60.6						
21-111 (A1)	25-Apr-10	0:30:00			E	11250	0	0	0	5200	0	6050	0	0	0	0	0	None	A				61.0						
		1:30:00			E	11250	0	0	0	5200	0	6050	0	0	0	0	0	None	A				61.0						
		2:30:00				11250	0	0	0	5200	0	6050	0	0	0	0	0	None	A				61.0						
		3:30:00				11250	0	0	0	5200	0	6050	0	0	0	0	0	None	A				61.0						
		4:30:00			E	11250	0	0	0	5200	0	6050	0	0	0	0	0	None	A				61.0						
21-111																													



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
		19:30:00			E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0					
		20:30:00			E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0					
		21:30:00				22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0					
		22:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A	down	stay		61.0	1	5,7			
		23:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-111 (A1)	26-Apr-10	0:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
		1:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
		2:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
		3:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
		4:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
		5:30:00			A	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C	up	up		60.9	4	4,5,6,7,8,9			
		6:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		down		60.9	4	4,5,6,7,8,9			
		7:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		8:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		9:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		10:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		11:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		12:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-111 (A1)	26-Apr-10	12:54:28	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		13:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-111 (A1)	26-Apr-10	14:13:09	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		up		60.9	4	4,5,6,7,8,9			
		14:30:00			B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		15:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-111 (A1)	26-Apr-10	16:29:19	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				2	Lateral movement,no gen. change
		16:30:00			B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		17:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		18:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		19:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		20:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		21:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
		22:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A	down	stay		60.9	1	5,7			
		23:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
21-111 (A1)	27-Apr-10	0:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
		1:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
		2:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
		3:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
21-111 (A1)	27-Apr-10	4:07:02	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		down		60.6	1	5,7		1	move down
		4:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
		5:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
		6:30:00			B	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A		up		60.6	1	5,7			
		7:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
		8:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
		9:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	down		60.6	2	4,5,6,7			
		10:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
		11:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
		12:30:00			E	23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
		13:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A	down	stay		60.6	1	5,6			
		14:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6				1	stay
		15:30:00			E	11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
		16:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay		60.6	6	2,3,4,5,6,7,8,9,11			
21-111 (A1)	27-Apr-10	17:16:52	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
21-111 (A1)	27-Apr-10	17:16:57	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		up		60.6	6	2,3,4,5,6,7,8,9,11			
		17:30:00			E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		down		60.6	6	2,3,4,5,6,7,8,9,11			
		18:30:00			A/B	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		up		60.6	6	2,3,4,5,6,7,8,9,11			
21-111 (A1)	27-Apr-10	19:04:26	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	A	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6				2	move up, no gen. change
21-111 (A1)	27-Apr-10	19:13:36	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		down		60.6	6	2,3,4,5,6,7,8,9,11			
		19:30:00			A/E	59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C		up		60.6	6	2,3,4,5,6,7,8,9,11			
		20:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
		21:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
		22:30:00				11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A	down	stay		60.6	1	2,3,4,5,6,7,8,9,11			
		23:30:00				11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A				60.6					
21-111 (A1)	28-Apr-10	0:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
		1:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
		2:30:00				11000	0	0	0	5880	512																	

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2		
21-111 (A1)	28-Apr-10	10:11:33	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	down		58.6	4	4,5,6,7,8,9					
		10:30:00			E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
21-111 (A1)	28-Apr-10	10:41:30	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		11:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		12:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		13:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		14:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		15:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		16:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		17:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		18:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		19:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		20:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		21:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		22:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
		23:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6							
21-111 (A1)	29-Apr-10	0:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A	down	stay		56.8	2	3,5,6,7					
		1:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				56.8							
		2:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				56.8							
		3:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		56.8	1	5,7					
		4:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8							
		5:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8							
		6:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8							
21-111 (A1)	29-Apr-10	6:37:11	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A		up		56.8	1	5,7					
21-111 (A1)	29-Apr-10	17:22:02	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	A	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C	up	stay		56.8	6	1,2,3,4,5,6,7,8,9,10	1		Lateral movement, gen. change	
21-111 (A1)	29-Apr-10	NA	NA	Transition Downstream 7 (Upper Tailrace to Tailrace)		0												None	A				56.8							
21-111 (A1)	29-Apr-10	NA	NA	End Tailrace Detection 1		0												None	A				56.8							
21-111 (A1)	29-Apr-10	18:58:33	Spencer Island West (Near-Field)	Start Lower River		65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	0	None	C				56.8						
21-111 (A1)	05-May-10	4:30:28	Lapidum (West Shore) (Near-Field)	End Lower River		9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A	down	stay		69.2	1	2,5					
21-111 (A1)	05-May-10	19:34:56	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	down		69.2	6	1,2,3,4,5,6,7,8,9,11					
		19:30:00			E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
21-111 (A1)	05-May-10	20:06:27	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
21-111 (A1)	05-May-10	20:09:39	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		up		69.2	6	1,2,3,4,5,6,7,8,9,11					
		20:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
		21:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
		22:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
		23:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
21-111 (A1)	06-May-10	0:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		69.5	1	3,5					
		1:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		2:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		3:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		4:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		5:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		6:30:00			A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		7:30:00			B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		8:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		9:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		10:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		11:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		12:30:00			A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		13:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
		14:30:00			B	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay		69.5	6	2,3,4,5,6,7,8,9,11					
		15:30:00			A	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C				69.5							
		16:30:00			C	67730																								

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
		3:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.4					
		4:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.4					
		5:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.4					
		6:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.4					
		7:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.4					
		8:30:00				9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.4					
21-111 (A1)	08-May-10	8:39:51	Rowland Island West (Near-Field)	Transition Upstream 10 (Tailrace to Upper Tailrace)	E	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
21-111 (A1)	08-May-10	9:14:10	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 10)	A	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A		up		69.2	1	2,5			
		9:30:00			A	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
		10:30:00			A	9560	0	4570	0	0	4990	0	0	0	0	0	0	None	A				69.2					
		11:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	up	stay		69.2	4	2,5,6,7,8,9			
		12:30:00			A	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		13:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		14:30:00			A/E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		15:30:00			A/B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		16:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
		17:30:00			A/B/C	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-111 (A1)	08-May-10	17:37:17	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 10)	B	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2				3	Lateral movement, after gen. change
21-111 (A1)	08-May-10	17:53:55	Rowland Island West (Near-Field)	Transition Downstream 10 (Upper Tailrace to Tailrace)	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C		down		69.2	4	2,5,6,7,8,9	1	stay	
		18:30:00			E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-111 (A1)	08-May-10	19:18:04	Rowland Island West (Near-Field)	End Tailrace Detection 3	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-111 (A1)	08-May-10	20:49:00	Spencer Island West (Near-Field)	Start Lower River	E	39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C				69.2					
21-111 (A1)	09-May-10	11:28:22	Spencer Island West (Near-Field)	End Lower River	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A	down	stay		67.2	3	2,3,4,5,6,7			
21-111 (A1)	09-May-10	16:23:27	Rowland Island West (Near-Field)	Start Tailrace Detection 4	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
		16:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-111 (A1)	09-May-10	16:41:02	Rowland Island West (Near-Field)	Transition Upstream 11 (Tailrace to Upper Tailrace)	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-111 (A1)	09-May-10	17:04:04	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 11)	A	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A		up		67.2	3	2,3,4,5,6,7	1	move up, after gen change	
		17:30:00			A/B/C	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-111 (A1)	09-May-10	17:41:04	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 11)	B	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2				3	Lateral movement, after gen. change
21-111 (A1)	09-May-10	17:55:39	Rowland Island West (Near-Field)	Transition Downstream 11 (Upper Tailrace to Tailrace)	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A		down		67.2	3	2,3,4,5,6,7			
		18:30:00			E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-111 (A1)	09-May-10	18:53:01	Rowland Island West (Near-Field)	End Tailrace Detection 4	E	32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-111 (A1)	09-May-10	20:48:20	Spencer Island West (Near-Field)	Start Lower River		32130	0	4030	6000	5850	4480	5770	6000	0	0	0	0	None	A				67.2					
21-111 (A1)	10-May-10	8:34:49	Spencer Island West (Near-Field)	End Lower River		30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	0	None	C	down	stay	64.5	3	2,5,6,7,8			
21-111 (A1)	10-May-10	12:25:51	Rowland Island West (Near-Field)	Start Tailrace Detection 5	E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A	down	stay		64.5	2	2,5,6,7			
21-111 (A1)	10-May-10	13:24:53	Rowland Island West (Near-Field)	Transition Upstream 12 (Tailrace to Upper Tailrace)	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1				
		13:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-111 (A1)	10-May-10	14:15:35	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 12)	A	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A		up		64.5	1				
		14:30:00			A/B	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		15:30:00			A/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		16:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		17:30:00			A/B/C	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
		18:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	stay		64.5	4	2,5,6,7,8,9			
		19:30:00			B/C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
21-111 (A1)	10-May-10	20:00:42	Conowingo Tailrace Unit 9 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 12)	C	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5				3	Lateral movement, after gen. change
21-111 (A1)	10-May-10	20:21:35	Rowland Island West (Near-Field)	Transition Downstream 12 (Upper Tailrace to Tailrace)	E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C		down		64.5	4	2,5,6,7,8,9			
		20:30:00			C/E/F	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
		21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5					
		22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5			
		23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-111 (A1)	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
		1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
		2:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
		3:30:00			E/F	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-111 (A1)	11-May-10	4:27:44	Rowland Island East (Near-Field)	Transition Upstream 13 (Tailrace to Upper Tailrace)	F	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
		4:30:00			E/F	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-111 (A1)	11-May-10	4:53:19	Conowingo Tailrace Unit 8 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 13)	C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A		up		63.2	1	2,5			
		5:30:00			A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
		6:30:00			B/C	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	stay		63.2	4	2,5,6,7,8,9			
		7:30:00			A/B	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
		8:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2					
		9:30:00			C	38610	0	4710	0	0	4860	596																

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
		16:30:00			A/B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
		17:30:00			B/C	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-111 (A1)	11-May-10	18:18:56	"C" Gate Aerial	Start EFL Aerial Detection	C	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up	stay		63.2	5	2,3,4,5,6,7,8,9			
21-111 (A1)	11-May-10	18:20:09	"C" Gate Aerial	End EFL Aerial Detection	C	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2					
		18:30:00			A/B/C	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2					
21-111 (A1)	11-May-10	19:20:45	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 14)	B	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2			3	Lateral movement, after gen. change	
		19:30:00			A/B/C	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2					
		20:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2					
		21:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2					
		22:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		63.2	1	2,5			
		23:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-111 (A1)	12-May-10	0:30:00				18480	0	4930	0	0	4940	0	0	0	0	8610	0	None	C	up	stay		60.2	2	2,5,10			
		1:30:00				13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C	down	stay		60.2	1	2,5,10			
		2:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	down	stay		60.2	1	2,5			
21-111 (A1)	12-May-10	2:35:31	Rowland Island West (Near-Field)	Transition Downstream 14 (Upper Tailrace to Tailrace)	E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A		down		60.2	1	2,5	3	move down, after gen change	
		3:30:00			E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				60.2					
21-111 (A1)	12-May-10	4:10:33	Rowland Island West (Near-Field)	Transition Upstream 15 (Tailrace to Upper Tailrace)	E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				60.2					
21-111 (A1)	12-May-10	4:24:55	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 15)	B	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A		up		60.2	1	2,5			
		4:30:00			A/B/E	9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				60.2					
21-111 (A1)	12-May-10	5:09:46	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 15)	A	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up	stay		60.2	4	2,3,4,5,6,7,8	3	move up, then down	
21-111 (A1)	12-May-10	5:14:37	Rowland Island West (Near-Field)	Transition Downstream 15 (Upper Tailrace to Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C		down		60.2	4	2,3,4,5,6,7,8			
21-111 (A1)	12-May-10	5:23:19	Rowland Island West (Near-Field)	Transition Upstream 16 (Tailrace to Upper Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
		5:30:00			A/B/E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2			3	move up	
21-111 (A1)	12-May-10	5:46:02	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 16)	B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
		6:30:00			B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
		7:30:00			A/B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
		8:30:00			B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
		9:30:00			A/B/C	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2					
		10:30:00			C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	down	stay		60.2	1	2,5,7			
		11:30:00			B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
21-111 (A1)	12-May-10	11:59:36	"C" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
21-111 (A1)	12-May-10	12:00:00	"C" Gate Aerial	End EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
		12:30:00			A/B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
21-111 (A1)	12-May-10	13:16:54	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 16)	B	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
		13:30:00			A/B/C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
21-111 (A1)	12-May-10	13:40:14	Rowland Island West (Near-Field)	Transition Downstream 16 (Upper Tailrace to Tailrace)	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A		down		60.2	1	2,5,7			
21-111 (A1)	12-May-10	13:52:12	Rowland Island West (Near-Field)	End Tailrace Detection 5	E	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
21-111 (A1)	12-May-10	15:49:31	Spencer Island West (Near-Field)	Start Lower River		16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2					
21-111 (A1)	14-May-10	9:05:09	Spencer Island West (Near-Field)	End Lower River		72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay		58.4	7	1,2,3,4,5,6,7,8,9,10,11			
21-111 (A1)	14-May-10	12:00:00	Half mile Downstream of Bird Island. 50 yards off	Transition Upstream between Lower River & Tailrace		30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C	down	stay		58.4	3	4,5,6,7,8			
21-111 (A1)	14-May-10	NA	NA	Start Tailrace Detection 6		0											None	A				58.4						
21-111 (A1)	14-May-10	NA	NA	Transition Upstream 17 (Tailrace to Upper Tailrace)		0											None	A				58.4						
21-111 (A1)	14-May-10	14:17:20	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 17)	A	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	up		58.4	7	1,2,3,4,5,6,7,8,9,10			
		14:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
		15:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
		16:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
		17:30:00			C	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-111 (A1)	14-May-10	18:08:13	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 17)	B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
		18:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4			3	move up after gen change	
		19:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
		20:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
		21:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4				</	



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
21-111 (A1)	15-May-10	16:23:25	"C" Gate Aerial	End EFL Aerial Detection	C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
		16:30:00			B/C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
21-111 (A1)	15-May-10	17:15:39	"C" Gate Aerial	Start EFL Aerial Detection	C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
21-111 (A1)	15-May-10	17:28:24	"C" Gate Aerial	End EFL Aerial Detection	C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
		17:30:00			C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
		18:30:00			B/C/E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
21-111 (A1)	15-May-10	18:41:51	Conowingo Tailrace Unit 10 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 18)	C	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4			3		Lateral movement, after gen. change
21-111 (A1)	15-May-10	18:51:15	Rowland Island West (Near-Field)	Transition Downstream 18 (Upper Tailrace to Tailrace)	E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C		down		60.4	6	1,2,3,4,5,6,7,9,10,11			
		19:30:00			E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
		20:30:00			E	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	stay		60.4	3	2,3,4,5,6,7			
		21:30:00			E	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
		22:30:00			E	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
		23:30:00			E	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-111 (A1)	16-May-10	0:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A	down	stay		63.6	3	5,7			
		1:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
		2:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
		3:30:00			E	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
21-111 (A1)	16-May-10	4:06:48	Rowland Island West (Near-Field)	Transition Upstream 19 (Tailrace to Upper Tailrace)	E	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
		4:30:00			E	10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
		5:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	up	stay		63.6	4	2,3,4,5,6,7,8			
21-111 (A1)	16-May-10	5:39:44	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 19)	B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C		up		63.6	4	2,3,4,5,6,7,8			
		6:30:00			A/B/E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
		7:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
		8:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
		9:30:00			A	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
		10:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
		11:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
		12:30:00			B/C	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
		13:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
		14:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
		15:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
		16:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
		17:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C	up	stay		63.6	7	1,2,3,4,5,6,7,8,9,10,11			
		18:30:00			A/B	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
21-111 (A1)	16-May-10	18:44:00	"C" Gate Aerial	Start EFL Aerial Detection	C	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
21-111 (A1)	16-May-10	18:44:18	"C" Gate Aerial	End EFL Aerial Detection	C	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
21-111 (A1)	16-May-10	18:51:14	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 19)	B	74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6			3		move up and Lateral movement, after gen. change
21-111 (A1)		NA	NA	Transition Downstream 19 (Upper Tailrace to Tailrace)		0												None	A				63.6					
21-111 (A1)		NA	NA	End Tailrace Detection 6		0												None	A				63.6					
21-111 (A1)	17-May-10	0:59:30	Spencer Island West (Near-Field)	Start Lower River		9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A	down	stay		64.7	1	2,5			
21-111 (A1)	17-May-10	6:00:32	Lapidum (West Shore) (Near-Field)	End Lower River		42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	up	stay		64.7	4	2,3,4,5,6,7,8			
21-111 (A1)	17-May-10	NA	NA	Start Tailrace Detection 7		0												None	A				64.7					
21-111 (A1)	17-May-10	NA	NA	Transition Upstream 20 (Tailrace to Upper Tailrace)		0												None	A				64.7					
21-111 (A1)	17-May-10	12:42:14	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 20)	A	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C	up	stay		64.7	7	2,3,4,5,6,7,8,9,10,11			
		13:30:00			A/B/C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
		14:30:00			B/C	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
		15:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
		16:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
		17:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7					
21-111 (A1)	17-May-10	18:14:15	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 20)	B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7			3		Lateral movement, after gen. change
21-111 (A1)	17-May-10	NA	NA	Transition Downstream 20 (Upper Tailrace to Tailrace)		0												None	A				64.7					
21-111 (A1)	17-May-10	NA	NA	End Tailrace Detection 7		0												None	A				64.7					
21-111 (A1)	17-May-10	20:00:21	Spencer Island West (Near-Field)	Start Lower River																								



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
		11:30:00			A/B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5						
21-111 (A1)	20-May-10	11:44:53	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 21)	B	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5			3		Lateral movement, after gen. change	
21-111 (A1)	20-May-10	12:01:28	Rowland Island West (Near-Field)	Transition Downstream 21 (Upper Tailrace to Tailrace)	E	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C		down		62.5	4	2,5,6,7,8,9				
21-111 (A1)	20-May-10	12:01:28	Rowland Island West (Near-Field)	End Tailrace Detection 8	E	38780	0	4530	0	0	4750	6140	5700	8740	8920	0	0	None	C				62.5						
21-111 (A1)	20-May-10	14:39:41	Spencer Island West (Near-Field)	Start Lower River	E	64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C	up	stay		62.5	6	1,2,3,4,5,6,7,8,9,11				
21-111 (A1)	20-May-10	15:04:24	Lapidum (West Shore) (Near-Field)	End Detections		64530	5490	4530	6030	5760	4750	6140	5700	8740	8920	0	8470	None	C				62.5						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
21-117 (A1)	22-Apr-10	12:37:00	Conowingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
21-117 (A1)	22-Apr-10	13:40:35	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	13:41:13	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	14:04:57	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	14:08:24	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	14:10:42	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		down		58.1	1	5,7			
21-117 (A1)	22-Apr-10	14:13:36	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1			1		stay
21-117 (A1)	22-Apr-10	14:17:23	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	14:28:36	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	14:29:46	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		down		58.1	1	5,7			
21-117 (A1)	22-Apr-10	14:30:27	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1			1		stay
21-117 (A1)	22-Apr-10	14:30:49	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	14:49:47	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	14:52:10	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	14:53:23	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	14:53:52	Rowland Island West (Near-Field)	Start Tailrace Detection 3	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		down		58.1	1	5,7			
21-117 (A1)	22-Apr-10	14:54:37	Rowland Island West (Near-Field)	End Tailrace Detection 3	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1				1	stay
21-117 (A1)	22-Apr-10	14:55:04	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	15:09:10	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	15:12:50	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	15:27:35	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	15:51:17	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	16:15:05	Conowingo East Spillway Corner (Near-Field)		D	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		spillway		58.1	1	5,7	D		corner
21-117 (A1)	22-Apr-10	16:29:20	Rowland Island West (Near-Field)	Start Tailrace Detection 4	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A		down		58.1	1	5,7			
	22-Apr-10	16:30:00			D/E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1			D		corner
	22-Apr-10	17:30:00			D/E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up	stay		58.1	6	2,3,4,5,6,7,8,9,11	D		corner
21-117 (A1)	22-Apr-10	17:57:32	Rowland Island West (Near-Field)	End Tailrace Detection 4	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1				2	stay/move up into spillway
21-117 (A1)	23-Apr-10	6:27:38	Spencer Island East (Near-Field)	Start Lower River		11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		59.7	6	5,7			
21-117 (A1)	28-Apr-10	20:39:46	Tomes Landing (East Shore) (Near-Field)	End Lower River		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		58.6	4	4,5,6,7,8,9			
21-117 (A1)	01-May-10	3:15:28	Rowland Island West (Near-Field)	Start Tailrace Detection 5	E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A	down	stay		59.1	1	2,5			
21-117 (A1)	01-May-10	3:23:28	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A				59.1					
	01-May-10	3:30:00			E	9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A				59.1					
	01-May-10	4:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A				59.1					
	01-May-10	5:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A				59.1					
	01-May-10	6:30:00				9380	0	4600	0	0	4780	0	0	0	0	0	0	None	A				59.1					
	01-May-10	7:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C	up	stay		59.1	4	2,5,6,7,8,9			
	01-May-10	8:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C				59.1					
	01-May-10	9:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C				59.1					
	01-May-10	10:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C				59.1					
	01-May-10	11:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C				59.1					
	01-May-10	12:30:00				39080	0	4600	0	0	4780	6160	6130	8700	8710	0	0	None	C				59.1					
	01-May-10	13:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C	up	stay		59.1	7	1,2,3,4,5,6,7,8,9,10,11			
	01-May-10	14:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
	01-May-10	15:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
	01-May-10	16:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
	01-May-10	17:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
	01-May-10	18:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
	01-May-10	19:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
	01-May-10	20:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
	01-May-10	21:30:00				68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C				59.1					
	01-May-10	22:30:00				40540	0	4600	6340	6060	0	0	6130	8700	8710	0	0	None	C	down</								

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
	02-May-10	16:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
	02-May-10	17:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
	02-May-10	18:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
	02-May-10	19:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
	02-May-10	20:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
	02-May-10	21:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
	02-May-10	22:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
	02-May-10	23:30:00				64530	0	4440	6330	6070	4730	6210	1990	8710	8710	8770	8570	None	C				62.5						
	03-May-10	0:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay		65.5	1	2,5				
	03-May-10	1:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5						
	03-May-10	2:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5						
	03-May-10	3:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5						
	03-May-10	4:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5						
	03-May-10	5:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5						
	03-May-10	6:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5						
	03-May-10	7:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5						
	03-May-10	8:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5						
	03-May-10	9:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5						
	03-May-10	10:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5						
	03-May-10	11:30:00				8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A				65.5						
	03-May-10	12:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up	stay		65.5	6	1,2,3,4,5,6,7,8,9,11				
	03-May-10	13:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
	03-May-10	14:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
	03-May-10	15:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
	03-May-10	16:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
	03-May-10	17:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
	03-May-10	18:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
	03-May-10	19:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C	up	stay		65.5	7	1,2,3,4,5,6,7,8,9,10,11				
	03-May-10	20:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				65.5						
	03-May-10	21:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				65.5						
	03-May-10	22:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				65.5						
	03-May-10	23:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				65.5						
	04-May-10	0:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	1:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	2:30:00				34030	0	4770	6120	5920	4820	6150	6250	0	0	0	0	None	A	down	stay		68.1	3	2,3,4,5,6,7				
	04-May-10	3:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		68.1	1	2,5				
	04-May-10	4:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				68.1						
	04-May-10	5:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				68.1						
	04-May-10	6:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				68.1						
	04-May-10	7:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				68.1						
	04-May-10	8:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A	up	stay		68.1	2	2,5,6,7				
	04-May-10	9:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				68.1						
	04-May-10	10:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				68.1						
	04-May-10	11:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				68.1						
	04-May-10	12:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay		68.1	7	2,3,4,5,6,7,8,9,10				
	04-May-10	13:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	14:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	15:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	16:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	17:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	18:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	19:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	20:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	21:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	22:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	23:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		68.1	1	2,5				
	05-May-10	0:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	1:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	2:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	3:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	4:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2		
	05-May-10	12:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	05-May-10	13:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	05-May-10	14:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	05-May-10	15:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	05-May-10	16:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	05-May-10	17:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	05-May-10	18:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	05-May-10	19:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	05-May-10	20:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	05-May-10	21:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	05-May-10	22:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	05-May-10	23:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2							
	06-May-10	0:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		69.5	1	3,5,					
	06-May-10	1:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	2:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	3:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	4:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	5:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	6:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	7:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	8:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	9:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	10:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	11:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	12:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	13:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5							
	06-May-10	14:30:00				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay		69.5	6	2,3,4,5,6,7,8,9,11					
	06-May-10	15:30:00				59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C				69.5							
	06-May-10	16:30:00				67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up	stay		69.5	7	2,3,4,5,6,7,8,9,10,11					
21-117 (A1)	07-May-10	16:48:48	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	up		69.4	6	2,3,4,5,6,7,8,9,11			1	move up after gen changes	
	07-May-10	17:30:00			B/C	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4							
21-117 (A1)	07-May-10	18:05:33	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C				69.4							
21-117 (A1)	NA	NA	NA	Transition Downstream 1 (Upper Tailrace to Tailrace)		0												None	A											
21-117 (A1)	11-May-10	13:03:32	Lapidum (West Shore) (Near-Field)	Start Lower River		9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		63.2	8	2,5					
21-117 (A1)	12-May-10	20:15:02	Lapidum (West Shore) (Near-Field)	End Lower River		74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C	up			60.2	7	1,2,3,4,5,6,7,8,9,10,11					
21-117 (A1)	NA	NA	NA	Start Tailrace Detection 6		0												None	A											
21-117 (A1)	NA	NA	NA	Transition Upstream 2 (Tailrace to Upper Tailrace)		0												None	A											
21-117 (A1)	22-May-10	15:07:29	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C	down	stay		65.4	5	1,2,3,4,5,6,8,9			1	stay	
21-117 (A1)	22-May-10	15:10:42	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	A	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C				65.4							
21-117 (A1)	NA	NA	NA	Transition Downstream 2 (Upper Tailrace to Tailrace)		0												None	A											
21-117 (A1)	NA	NA	NA	Transition Upstream 3 (Tailrace to Upper Tailrace)		0												None	A											
21-117 (A1)	03-Jun-10	7:28:22	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	6600	0	2740	0	0	3860	0	0	0	0	0	0	None	A	down	stay		79.0	1	2,5					
	03-Jun-10	7:30:00			B	6600	0	2740	0	0	3860	0	0	0	0	0	0	None	A				79.0							
	03-Jun-10	8:30:00				6600	0	2740	0	0	3860	0	0	0	0	0	0	None	A				79.0							
	03-Jun-10	9:30:00				6600	0	2740	0	0	3860	0	0	0	0	0	0	None	A				79.0							
	03-Jun-10	10:30:00				6600	0	2740	0	0	3860	0	0	0	0	0	0	None	A				79.0							
	03-Jun-10	11:30:00				6600	0	2740	0	0	3860	0	0	0	0	0	0	None	A				79.0							
	03-Jun-10	12:30:00				46630	0	0	0	5950	3860	4890	5860	8650	8820	0	8600	None	C	up	stay		79.0	5	3,4,5,6,7,8,9,11					
	03-Jun-10	13:30:00				46630	0	0	0	5950	3860	4890	5860	8650	8820	0	8600	None	C				79.0							
	03-Jun-10	14:30:00				46630	0	0	0	5950	3860	4890	5860	8650	8820	0	8600	None	C				79.0							
	03-Jun-10	15:30:00				46630	0	0	0	5950	3860	4890	5860	8650	8820	0	8600	None	C				79.0							
	03-Jun-10	16:30:00				46630	0	0	0	5950	3860	4890	5860	8650	8820	0	8600	None	C				79.0							
	03-Jun-10	17:30:00				46630	0	0	0	5950	3860	4890	5860	8650	8820	0	8600	None	C				79.0							
	03-Jun-10	18:30:00				46630	0	0	0	5950	3860	4890	5860	8650	8820	0	8600	None	C				79.0							
	03-Jun-10	19:30:00				8750	0	0	0	0	3860	4890	0	0	0	0	0	None	A	down	stay		79.0	1	5,6					
	03-Jun-10	20:30:00			A	8750	0	0	0	0	3860	4890	0	0	0	0	0	None	A				79.0							
21-117 (A1)	03-Jun-10	20:51:30	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	8750	0	0	0	0	3860	4890	0	0	0	0	0	None	A				79.0							
21-117 (A1)	NA	NA	NA	Transition Downstream 3 (Upper Tailrace to Tailrace)		0												None	A											
21-117 (A1)	NA	NA	NA	Transition Upstream 4 (Tailrace to Upper Tailrace)		0												None	A											
21-117 (A1)	07-Jun-10	10:50:40	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	0												None	A				80.3							
	07-Jun-10	10:30:00				0												None	A				80.3							
21-117 (A1)	07-Jun-10	11:19:03	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	0																								

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
21-118 (A1)	22-Apr-10	13:00:00	Conowingo Tailrace	Release - Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
21-118 (A1)	22-Apr-10	19:44:09	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up	stay		58.1	6	2,3,4,5,6,7,8,9,11			
	22-Apr-10	20:30:00			D/E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1					
	22-Apr-10	21:30:00				59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1					
	22-Apr-10	22:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		58.1	6	2,3,4,5,6,7,8,9,11			
	22-Apr-10	23:30:00				11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
21-118 (A1)	23-Apr-10	0:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	1:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	2:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	3:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	4:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	5:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	6:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	7:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		59.7	4	4,5,6,7,8,9			
	23-Apr-10	8:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	9:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	10:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	11:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	12:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	13:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		59.7	1	5,7			
	23-Apr-10	14:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	15:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	16:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	17:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		59.7	4	4,5,6,7,8,9			
21-118 (A1)	23-Apr-10	18:15:37	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7				1	stay
	23-Apr-10	18:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
21-118 (A1)	23-Apr-10	18:50:34	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C		up		59.7	4	4,5,6,7,8,9			
	23-Apr-10	19:30:00			A/B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
21-118 (A1)	23-Apr-10	19:59:49	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)		40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7				2	move up, after gen. change
	23-Apr-10	20:30:00			B	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	21:30:00				40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	22:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		59.7	1	5,7			
	23-Apr-10	23:30:00				11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-118 (A1)	24-Apr-10	0:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
	24-Apr-10	1:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
	24-Apr-10	2:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
	24-Apr-10	3:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
	24-Apr-10	4:30:00				11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-118 (A1)	24-Apr-10	5:17:13	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		down		60.6	1	5,7	1	move down the stay after gen change	
	24-Apr-10	5:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
	24-Apr-10	6:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
	24-Apr-10	7:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
	24-Apr-10	8:30:00			B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		up		60.6	1	5,7			
	24-Apr-10	9:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		down		60.6	1	5,7			
	24-Apr-10	10:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
	24-Apr-10	11:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
	24-Apr-10	12:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-118 (A1)	24-Apr-10	12:32:21	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-118 (A1)	24-Apr-10	12:46:19	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		up		60.6	1	5,7			
21-118 (A1)	24-Apr-10	12:58:34	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6			1	move up, stay	
21-118 (A1)	24-Apr-10	13:08:08	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		down		60.6	1	5,7			
21-118 (A1)	24-Apr-10	13:10:37	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-118 (A1)	24-Apr-10	13:13:33	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A		up		60.6	1	5,7			
	24-Apr-10	13:30:00			B/E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.					



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
	24-Apr-10	23:30:00			E	11460	0	0	0	0	5240	0	6220	0	0	0	0	None	A				60.6					
21-118 (A1)	25-Apr-10	0:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	1:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	2:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	3:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	4:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	5:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-118 (A1)	25-Apr-10	6:06:23	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-118 (A1)	25-Apr-10	6:26:47	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A		up		61.0	1	5,7			
	25-Apr-10	6:30:00			B/E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	7:30:00			A/B/C	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	8:30:00			A/B/C	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	9:30:00			A/B/C	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-118 (A1)	25-Apr-10	9:59:08	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	A	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0				3	Lateral movement, no gen change
21-118 (A1)	25-Apr-10	10:03:26	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A		down		61.0	1	5,7	1	move down, stay	
	25-Apr-10	10:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	11:30:00			E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-118 (A1)	25-Apr-10	11:32:01	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0			1	stay	
21-118 (A1)	25-Apr-10	11:50:29	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A		up		61.0	1	5,7			
	25-Apr-10	12:30:00			A/B/C	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	13:30:00			A/B/C	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	14:30:00			A/B/C	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	15:30:00			A/B/C	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-118 (A1)	25-Apr-10	15:40:29	Conowingo Tailrace Unit 10 (Mid-Field)	Point closest to EFL Start	C	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-118 (A1)	25-Apr-10	15:54:10	Conowingo Tailrace Units 8-11 Master	Point closest to EFL End		11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	16:30:00			A/B/C	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	17:30:00			A/B	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A		up	stay	61.0	2	4,5,6,7			
	25-Apr-10	18:30:00			A/B/C	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	19:30:00			A/B/C	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0					
21-118 (A1)	25-Apr-10	20:02:55	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0			3	Lateral movement, after gen change	
21-118 (A1)	25-Apr-10	20:17:07	Rowland Island East (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A		down		61.0	2	4,5,6,7			
	25-Apr-10	20:30:00			B/E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0			2	move down, no gen change	
	25-Apr-10	21:30:00				22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0					
	25-Apr-10	22:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A		down	stay	61.0	1	5,7			
	25-Apr-10	23:30:00				11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
21-118 (A1)	26-Apr-10	0:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
	26-Apr-10	1:30:00				11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
	26-Apr-10	2:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9			1	no stay	
	26-Apr-10	3:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
	26-Apr-10	4:30:00			E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
	26-Apr-10	5:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		up	stay	60.9	4	4,5,6,7,8,9			
	26-Apr-10	6:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-118 (A1)	26-Apr-10	7:16:29	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
	26-Apr-10	7:30:00			E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
21-118 (A1)	26-Apr-10	7:41:57	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		up		60.9	4	4,5,6,7,8,9			
	26-Apr-10	8:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
	26-Apr-10	9:30:00			B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
	26-Apr-10	10:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
	26-Apr-10	11:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
	26-Apr-10	12:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
	26-Apr-10	13:30:00			B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
	26-Apr-10	14:30:00			B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
	26-Apr-10	15:30:00			A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
	26-Apr-10	16:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9	</				

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
	27-Apr-10	6:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
	27-Apr-10	7:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
	27-Apr-10	8:30:00			E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
	27-Apr-10	9:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A	up	stay		60.6	2	4,5,6,7			
	27-Apr-10	10:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
	27-Apr-10	11:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
	27-Apr-10	12:30:00				23080	0	0	0	5890	5180	5970	6040	0	0	0	0	None	A				60.6					
	27-Apr-10	13:30:00				11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A	down	stay		60.6	1	5,6			
	27-Apr-10	14:30:00				11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
	27-Apr-10	15:30:00				11150	0	0	0	0	5180	5970	0	0	0	0	0	None	A				60.6					
	27-Apr-10	16:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C	up	stay		60.6	6	2,3,4,5,6,7,8,9,11			
	27-Apr-10	17:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
	27-Apr-10	18:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
	27-Apr-10	19:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
	27-Apr-10	20:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
	27-Apr-10	21:30:00				59970	0	4910	5960	5890	5180	5970	6040	8700	8670	0	8650	None	C				60.6					
	27-Apr-10	22:30:00				11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A	down	stay		60.6	1	4,5			
	27-Apr-10	23:30:00				11070	0	0	0	5890	5180	0	0	0	0	0	0	None	A				60.6					
	28-Apr-10	0:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
	28-Apr-10	1:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
	28-Apr-10	2:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
	28-Apr-10	3:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
	28-Apr-10	4:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
	28-Apr-10	5:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
	28-Apr-10	6:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
	28-Apr-10	7:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
	28-Apr-10	8:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
21-118 (A1)	28-Apr-10	9:22:06	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	up	stay		58.6	2	4,5,6,7	1		stay during several gen changes
	28-Apr-10	9:30:00			E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A				58.6					
21-118 (A1)	28-Apr-10	9:34:45	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)	B	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A		up		58.6	2	4,5,6,7			
	28-Apr-10	10:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		58.6	4	4,5,6,7,8,9			
	28-Apr-10	11:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
	28-Apr-10	12:30:00			B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
	28-Apr-10	13:30:00			A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
	28-Apr-10	14:30:00			A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
	28-Apr-10	15:30:00			A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
	28-Apr-10	16:30:00			A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
	28-Apr-10	17:30:00			A	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
	28-Apr-10	18:30:00			A	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
	28-Apr-10	19:30:00			A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-118 (A1)	28-Apr-10	20:05:14	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 7)	B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6			2		move up, during gen changes
21-118 (A1)	28-Apr-10	NA	NA	Transition Downstream 7 (Upper Tailrace to Tailrace)		0												None	A				58.6					
21-118 (A1)	28-Apr-10	NA	NA	End Tailrace Detection 1		0												None	A				58.6					
21-118 (A1)	28-Apr-10	23:27:10	Spencer Island West (Near-Field)	Start Lower River		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
21-118 (A1)	05-May-10	6:21:39	Lapidum (West Shore) (Near-Field)	End Lower River		9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A	down	stay		69.2	1	2,5			
21-118 (A1)	05-May-10	17:25:26	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	63870	5280	4470	5990	5850	5850	5680	5970	8740	8720	0	8530	None	C	up	down		69.2	6	1,2,3,4,5,6,7,8,9,11	1		move down,stay gen change
	05-May-10	17:30:00			E	63870	5280	4470	5990	5850	5850	5680	5970	8740	8720	0	8530	None	C				69.2					
21-118 (A1)	05-May-10	17:31:22	Rowland Island West (Near-Field)	Transition Upstream 8 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	5850	5680	5970	8740	8720	0	8530	None	C				69.2					
	05-May-10	18:30:00				63870	5280	4470	5990	5850	5850	5680	5970	8740	8720	0	8530	None	C				69.2					
21-118 (A1)	05-May-10	19:02:32	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 8)		63870	5280	4470	5990	5850	5850	5680	5970	8740	8720	0	8530	None	C				69.2					
	05-May-10	19:30:00				63870	5280	4470	5990	5850	5850	5680	5970	8740	8720	0	8530	None	C				69.2					
	05-May-10	20:30:00				63870	5280	4470	5990	5850	5850	5680	5970	8740	8720	0	8530	None	C				69.2					
	05-May-10	21:30:00				63870	5280	4470	5990	5850	5850	5680	5970	8740	8720	0	8530	None	C				69.2					
	05-May-10	22:30:00				63870	5280	4470	5990	5850	5850	5680	5970	8740	8720	0	8530	None	C				69.2					
	05-May-10	23:30:00				63870	5280	4470	5990	5850	5850	5680	5970	8740	8720	0	8530	None	C				69.2					
21-118 (A1)	06-May-10	0:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		69.5	1	3,5			
	06-May-10	1:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5					
	06-May-10	2:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5					
	06-May-10	3:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5					
	06-May-10	4:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5					
	06-May-10	5:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5					
	06-May-10	6:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5					
	06-May-10	7:30:00			A/B	10660	0																					

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2		
	06-May-10	14:30:00			A/B	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C	up	stay		69.5	6	2,3,4,5,6,7,8,9,11					
	06-May-10	15:30:00			A/B	59010	0	4170	6270	6060	4390	6110	6160	8670	8590	0	8590	None	C				69.5							
21-118 (A1)	06-May-10	16:13:10	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C	up			69.5	7	2,3,4,5,6,7,8,9,10,11	3		move up Lateral movement, after gen change		
	06-May-10	16:30:00			A/B	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5							
21-118 (A1)	06-May-10	17:26:44	Rowland Island West (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C		down		69.5	7	2,3,4,5,6,7,8,9,10,11	1		move down, stay		
21-118 (A1)	06-May-10	17:26:44	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	67730	0	4170	6270	6060	4390	6110	6160	8670	8590	8720	8590	None	C				69.5							
21-118 (A1)	06-May-10	23:02:02	Lapidum (West Shore) (Near-Field)	Start Lower River		10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		69.5	1	3,5					
21-118 (A1)	07-May-10	20:33:40	Lapidum (West Shore) (Near-Field)	End Lower River		60790	0	4570	6010	5860	5410	6530	6410	8700	8630	0	8670	None	C	up	stay		69.4	6	2,3,4,5,6,7,8,9,11					
21-118 (A1)	16-May-10	10:16:12	Rowland Island West (Near-Field)	Start Tailrace Detection 3	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	down	stay		63.6	6	2,3,4,5,6,7,8					
	16-May-10	10:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	down	stay		63.6	6	2,3,4,5,6,7,8					
	16-May-10	11:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6							
	16-May-10	12:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6							
	16-May-10	13:30:00			E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6							
21-118 (A1)	16-May-10	14:22:11	Rowland Island West (Near-Field)	End Detections	E	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	up	stay		63.6	4	2,3,4,5,6,7,8					

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
21-128 (A1)	22-Apr-10	13:35:00	Conowingo Tailrace	Downstream Units 5 & 7		11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
21-128 (A1)	22-Apr-10	13:55:06	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
	22-Apr-10	14:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
	22-Apr-10	15:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
	22-Apr-10	16:30:00			E	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
	22-Apr-10	17:30:00				59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C	up	stay		58.1	6	2,3,4,5,6,7,8,9,11			
	22-Apr-10	18:30:00				59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1			1	stay	
21-128 (A1)	22-Apr-10	19:05:20	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1					
	22-Apr-10	19:30:00			E	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1					
21-128 (A1)	22-Apr-10	20:10:46	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C		up		58.1	6	2,3,4,5,6,7,8,9,11			
	22-Apr-10	20:30:00			A/B	59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1					
	22-Apr-10	21:30:00				59470	0	4930	5980	5910	5200	6060	6360	8680	8630	0	7720	None	C				58.1					
21-128 (A1)	22-Apr-10	22:13:35	Conowingo Tailrace Unit 7 (Mid-Field)	Point closest to EFL Start	B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A	down	stay		58.1	1	5,7			
	22-Apr-10	22:30:00			A/B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
	22-Apr-10	23:00:00			A/B	11560	0	0	0	0	5200	0	6360	0	0	0	0	None	A				58.1					
21-128 (A1)	23-Apr-10	0:30:00			B	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-128 (A1)	23-Apr-10	0:42:54	Conowingo Tailrace Unit 7 (Mid-Field)	Point closest to EFL End	B	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-128 (A1)	23-Apr-10	1:02:45	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7			2	move up, after gen change	
21-128 (A1)	23-Apr-10	1:05:31	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A		down		59.7	1	5,7			
	23-Apr-10	1:30:00			B/E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	2:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	3:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	4:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	5:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	6:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	7:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		59.7	4	4,5,6,7,8,9			
	23-Apr-10	8:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	9:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	10:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	11:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	12:30:00			E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
	23-Apr-10	13:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A	down	stay		59.7	1	5,7			
	23-Apr-10	14:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	15:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
	23-Apr-10	16:30:00			E	11460	0	0	0	0	5170	0	6290	0	0	0	0	None	A				59.7					
21-128 (A1)	23-Apr-10	17:02:28	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C	up	stay		59.7	4	4,5,6,7,8,9			
21-128 (A1)	23-Apr-10	20:36:00	Spencer Island West (Near-Field)	Start Lower River		40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					
21-128 (A1)	23-Apr-10	20:56:19	Lapidum (West Shore) (Near-Field)	End Detections	E	40240	0	0	0	5830	5170	5680	6290	8650	8620	0	0	None	C				59.7					

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
21-130 (A1)	28-Apr-10	11:35:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C					58.6					
21-130 (A1)	04-May-10	18:33:16	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay		68.1	7	2,3,4,5,6,7,8,9,10,11				
	04-May-10	19:30:00			E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	20:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	21:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	22:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
	04-May-10	23:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		68.1	1	2,5				
21-130 (A1)	05-May-10	0:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	1:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	2:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	3:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	4:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	5:30:00				9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	6:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	7:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	8:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	9:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	10:30:00			E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2						
	05-May-10	11:30:00			E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C	up	stay		69.2	6	1,2,3,4,5,6,7,8,9,11				
21-130 (A1)	05-May-10	11:45:53	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2				1	stay, during gen change	
21-130 (A1)	05-May-10	12:15:33	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		up		69.2	6	1,2,3,4,5,6,7,8,9,11				
	05-May-10	12:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
	05-May-10	13:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
	05-May-10	14:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
	05-May-10	15:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
	05-May-10	16:30:00			A	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
	05-May-10	17:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
	05-May-10	18:30:00			A/B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
21-130 (A1)	05-May-10	18:35:55	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
21-130 (A1)	05-May-10	19:15:40	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		down		69.2	6	1,2,3,4,5,6,7,8,9,11	2	move up, gen change		
21-130 (A1)	05-May-10	19:16:55	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
	05-May-10	19:30:00			E	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
21-130 (A1)	05-May-10	20:22:01	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C		up		69.2	6	1,2,3,4,5,6,7,8,9,11				
	05-May-10	20:30:00			B	63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
	05-May-10	21:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
	05-May-10	22:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
	05-May-10	23:30:00				63870	5280	4470	5990	5850	4640	5680	5970	8740	8720	0	8530	None	C				69.2						
21-130 (A1)	06-May-10	0:30:00			B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A	down	stay		69.5	1	3,5				
	06-May-10	1:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
	06-May-10	2:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
	06-May-10	3:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
	06-May-10	4:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
	06-May-10	5:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
	06-May-10	6:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
	06-May-10	7:30:00				10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
	06-May-10	8:30:00			A/B/C	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
	06-May-10	9:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
	06-May-10	10:30:00			B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
	06-May-10	11:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
	06-May-10	12:30:00			A/B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5						
21-130 (A1)	06-May-10	12:35:52	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	10660	0	0	6270	0	4390	0	0	0	0	0	0	None	A				69.5				3	move up, Lateral movement, after gen change	
21-130 (A1)	06-May-10	12:51:40	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E																								



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
	09-May-10	21:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A	down	stay		67.2	1	2,5			
	09-May-10	22:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
	09-May-10	23:30:00				8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A				67.2					
21-130 (A1)	10-May-10	0:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
	10-May-10	1:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
	10-May-10	2:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
	10-May-10	3:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
	10-May-10	4:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
	10-May-10	5:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
	10-May-10	6:30:00			E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C	up	stay		64.5	3	2,5,6,7,8	1		move down, stay during gen changes
21-130 (A1)	10-May-10	6:57:10	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5					
21-130 (A1)	10-May-10	7:05:25	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C		up		64.5	3	2,5,6,7,8			
21-130 (A1)	10-May-10	7:28:55	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5				1	move up, no gen change
	10-May-10	7:30:00			A/B	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5					
21-130 (A1)	10-May-10	7:37:06	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C		down		64.5	3	2,5,6,7,8			
21-130 (A1)	10-May-10	7:54:58	Rowland Island West (Near-Field)	Transition Upstream 5 (Tailrace to Upper Tailrace)	E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5				1	move down, no gen change
21-130 (A1)	10-May-10	8:16:34	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 5)	A	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C		up		64.5	3	2,5,6,7,8			
	10-May-10	8:30:00			A/B	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5					
21-130 (A1)	10-May-10	9:00:25	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 5)	B	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5				2	move up, no gen change
21-130 (A1)	10-May-10	9:12:12	Rowland Island West (Near-Field)	Transition Downstream 5 (Upper Tailrace to Tailrace)	E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C		down		64.5	3	2,5,6,7,8			
21-130 (A1)	10-May-10	9:15:40	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)	E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C				64.5					
	10-May-10	9:30:00			A/B/E	30380	0	4560	0	0	4860	6120	6120	8720	0	0	0	None	C		up		64.5	3	2,5,6,7,8			
21-130 (A1)	10-May-10	10:10:12	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	B	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A	down	stay		64.5	2	2,5,6,7			
	10-May-10	10:30:00			B	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
	10-May-10	11:30:00			B/C	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-130 (A1)	10-May-10	11:55:17	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	B	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5				2	down then up afetr gen change
21-130 (A1)	10-May-10	12:24:00	Rowland Island East (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A		down		64.5	2	2,5,6,7			
	10-May-10	12:30:00			E	21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
	10-May-10	13:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5			
	10-May-10	14:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
	10-May-10	15:30:00			E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5					
21-130 (A1)	10-May-10	16:25:03	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5				1	down then stay after gen change
21-130 (A1)	11-May-10	1:48:31	Spencer Island West (Near-Field)	Start Lower River		9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2					
21-130 (A1)	16-May-10	1:30:44	Tomes Landing (East Shore) (Near-Field)	End Detections		10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A	up	stay		63.6	1	5,7			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
21-133 (A1)	22-Apr-10	11:35:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C				58.1						
21-133 (A1)	28-Apr-10	9:38:14	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	down	stay		58.6	2	4,5,6,7				
21-133 (A1)	28-Apr-10	9:38:28	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A				58.6			1		stay after gen change	
21-133 (A1)	28-Apr-10	9:38:50	Conowingo Tailrace Units 1-7 Master	Start Upper Tailrace Detection (Start UT Foray 1)		22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A				58.6						
21-133 (A1)	28-Apr-10	9:40:14	"A" Gate Aerial	Start EFL Aerial Detection	C	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A		up		58.6	2	4,5,6,7				
21-133 (A1)	28-Apr-10	9:40:27	"A" Gate Aerial	End EFL Aerial Detection	C	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A				58.6			1		move up, after gen change	
21-133 (A1)	28-Apr-10	9:40:45	Conowingo Tailrace Unit 8 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	C	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A				58.6			1		stay after gen change	
21-133 (A1)	28-Apr-10	9:40:57	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A		down		58.6	2	4,5,6,7				
21-133 (A1)	28-Apr-10	9:43:39	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A				58.6			1		move down stay	
21-133 (A1)	28-Apr-10	9:43:41	Conowingo Tailrace Units 1-7 Master	Start Upper Tailrace Detection (Start UT Foray 2)		22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A				58.6						
21-133 (A1)	28-Apr-10	9:43:56	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A		up		58.6	2	4,5,6,7	1		move up no gen change	
21-133 (A1)	28-Apr-10	9:43:57	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A		down		58.6	2	4,5,6,7				
21-133 (A1)	28-Apr-10	9:45:03	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A				58.6						
21-133 (A1)	28-Apr-10	9:45:12	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	A	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A		up		58.6	2	4,5,6,7				
21-133 (A1)	28-Apr-10	10:13:16	Conowingo Tailrace Units 1-7 Master	End Upper Tailrace Detection (End UT Foray 3)		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		58.6	4	4,5,6,7,8,9	1		move down, then up no gen change	
21-133 (A1)	28-Apr-10	10:16:53	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C		down		58.6	4	4,5,6,7,8,9				
	28-Apr-10	10:30:00			A/E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
21-133 (A1)	28-Apr-10	10:48:41	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
21-133 (A1)	28-Apr-10	10:51:25	Conowingo Tailrace Unit 1 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	A	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C		up		58.6	4	4,5,6,7,8,9				
21-133 (A1)	28-Apr-10	10:54:31	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6			3		move down, then up no gen change	
21-133 (A1)	28-Apr-10	NA	NA	Transition Downstream 4 (Upper Tailrace to Tailrace)		0												None	A				58.6						
21-133 (A1)	28-Apr-10	NA	NA	End Tailrace Detection 1		0												None	A				58.6						
21-133 (A1)	28-Apr-10	11:22:53	Tomes Landing (East Shore) (Near-Field)	Start Lower River		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
21-133 (A1)	08-May-10	20:00:01	Lapidum (West Shore) (Near-Field)	End Detections		39450	0	4570	0	0	4990	6260	6030	8680	8920	0	0	None	C	down	stay		69.2	4	2,5,6,7,8,9				

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
21-134 (A1)	22-Apr-10	11:35:00	Lapidum Boat Launch	Release - Lapidum Boat Launch		40840	0	0	0	5910	5200	6060	6360	8680	8630	0	0	None	C				58.07646132					
21-134 (A1)	28-Apr-10	9:54:08	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	down	stay		58.64829985	2	4,5,6,7			
21-134 (A1)	28-Apr-10	10:21:07	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		58.64829985	4	4,5,6,7,8,9	1	no movement, stay	
21-134 (A1)	28-Apr-10	11:38:18	Tomes Landing (East Shore) (Near-Field)	Start Lower River		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.64829985					
21-134 (A1)	15-May-10	23:19:52	Lapidum (West Shore) (Near-Field)	End Detections		32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	stay		60.43655745	3	2,3,4,5,6,7			

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Water Temp. (°F)	Flow Trend	Fish Trend	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
21-137 (A1)	10-May-10	10:29:00	Conwingo Tailrace	Between Units 7 & 8		21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A	64.5								
21-137 (A1)	10-May-10	20:51:50	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	64.5	up	stay	4	2,5,6,7,8,9				
	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	64.5								
	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	64.5	down	stay	1	2,5				
	10-May-10	23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	64.5								
21-137 (A1)	11-May-10	0:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	1:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	2:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	3:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	4:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	5:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	6:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	63.2	up	stay	4	2,5,6,7,8,9				
	11-May-10	7:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	63.2								
	11-May-10	8:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	63.2								
	11-May-10	9:30:00			E	38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	63.2								
	11-May-10	10:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2	down	stay	1	2,5				
	11-May-10	11:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	12:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	13:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	14:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	15:30:00			E	9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	16:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
	11-May-10	17:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
21-137 (A1)	11-May-10	18:30:07	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	63.2	up	stay	5	2,3,4,5,6,7,8,9	1		no movement, during gen changes	
21-137 (A1)	11-May-10	18:55:09	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	63.2		up	5	2,3,4,5,6,7,8,9				
21-137 (A1)	11-May-10	19:27:25	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	63.2						2	move up, little lat, no gen change	
	11-May-10	19:30:00			A/B/C	50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	63.2						3	lat movement	
	11-May-10	20:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	63.2								
	11-May-10	21:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	63.2								
	11-May-10	22:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2	down	stay	1	2,5				
	11-May-10	23:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	63.2								
21-137 (A1)	12-May-10	0:30:00				18480	0	4930	0	0	4940	0	0	0	0	8610	0	None	C	60.2	up	stay	2	2,5				
	12-May-10	1:30:00				13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C	60.2	down	stay	1	5,10				
	12-May-10	2:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	60.2	down	stay	1	2,5				
	12-May-10	3:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	60.2								
	12-May-10	4:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	60.2								
	12-May-10	5:30:00				42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	60.2	up	stay	4	2,3,4,5,6,7,8				
21-137 (A1)	12-May-10	5:51:23	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	60.2		down	4	2,3,4,5,6,7,8	1		move down, during gen change	
21-137 (A1)	12-May-10	6:01:36	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	60.2								
	12-May-10	6:30:00			E	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	60.2								
21-137 (A1)	12-May-10	6:42:53	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	60.2		up	4	2,3,4,5,6,7,8	1		move up, no change	
21-137 (A1)	12-May-10	17:01:43	"A" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	60.2	down	stay	1	2,5,7				
21-137 (A1)	12-May-10	17:10:48	"A" Gate Aerial	End EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	60.2								
21-137 (A1)	12-May-10	17:13:53	"A" Gate Aerial	Start EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	60.2								
21-137 (A1)	12-May-10	17:17:22	"A" Gate Aerial	End EFL Aerial Detection	C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	60.2								
	12-May-10	17:30:00			C	16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	60.2								
	12-May-10	18:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C	60.2	up	stay	7	1,2,3,4,5,6,7,8,9,10,				
21-137 (A1)	12-May-10	18:58:57	"C" Gate Aerial	Start EFL Aerial Detection	C	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C	60.2								
21-137 (A1)	12-May-10	19:00:42	"C" Gate Aerial	End EFL Aerial Detection	C	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C	60.2								
21-137 (A1)	12-May-10	19:18:27	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	B	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C	60.2								
	12-May-10	19:30:00			B/C	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C	60.2								
21-137 (A1)	12-May-10	20:25:49	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	None	C	60.2		down	7	1,2,3,4,5,6,7,8,9,10,				
	12-May-10	20:30:00																										

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
21-145 (A1)	10-May-10	12:12:00	Conwingo Tailrace	Release - Off of "A" Gate discharge		21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5						
21-145 (A1)	10-May-10	17:28:42	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5				
	10-May-10	17:30:00			A/B/E	9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
	10-May-10	18:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C	up	stay		64.5	4	2,5,6,7,8,9				
	10-May-10	19:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
	10-May-10	20:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
	10-May-10	21:30:00				38930	0	4560	0	0	4860	6120	6120	8720	8550	0	0	None	C				64.5						
	10-May-10	22:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A	down	stay		64.5	1	2,5				
	10-May-10	23:30:00				9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-145 (A1)	11-May-10	0:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	1:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	2:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	3:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	4:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	5:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	6:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C	up	stay		63.2	4	2,5,6,7,8,9				
	11-May-10	7:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2						
	11-May-10	8:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2						
	11-May-10	9:30:00				38610	0	4710	0	0	4860	5960	5730	8700	8650	0	0	None	C				63.2						
	11-May-10	10:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		63.2	1	2,5				
	11-May-10	11:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	12:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	13:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	14:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	15:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	16:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	17:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
	11-May-10	18:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C	up	stay		63.2	5	2,3,4,5,6,7,8,9				
	11-May-10	19:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2						
	11-May-10	20:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2						
	11-May-10	21:30:00				50410	0	4710	6000	5800	4860	5960	5730	8700	8650	0	0	None	C				63.2						
	11-May-10	22:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A	down	stay		63.2	1	2,5				
	11-May-10	23:30:00				9570	0	4710	0	0	4860	0	0	0	0	0	0	None	A				63.2						
21-145 (A1)	12-May-10	0:30:00				18480	0	4930	0	0	4940	0	0	0	0	8610	0	None	C	up	stay		60.2	2	2,5,10				
	12-May-10	1:30:00				13550	0	0	0	0	4940	0	0	0	0	8610	0	None	C	down	stay		60.2	1	5,10				
	12-May-10	2:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A	down	stay		60.2	1	2,5				
	12-May-10	3:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				60.2						
	12-May-10	4:30:00				9870	0	4930	0	0	4940	0	0	0	0	0	0	None	A				60.2						
	12-May-10	5:30:00				42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C	up	stay		60.2	4	2,3,4,5,6,7,8				
	12-May-10	6:30:00				42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						
	12-May-10	7:30:00				42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						
	12-May-10	8:30:00				42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						
	12-May-10	9:30:00				42770	0	4930	6180	5950	4940	5880	6130	8760	0	0	0	None	C				60.2						
	12-May-10	10:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A	down	stay		60.2	1	2,5,7				
	12-May-10	11:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
	12-May-10	12:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
	12-May-10	13:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
	12-May-10	14:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
	12-May-10	15:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
	12-May-10	16:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
	12-May-10	17:30:00				16000	0	4930	0	0	4940	0	6130	0	0	0	0	None	A				60.2						
	12-May-10	18:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	None	C	up	stay		60.2	7	1,2,3,4,5,6,7,8,9,10,11			
	12-May-10	19:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	None	C				60.2					
	12-May-10	20:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610	8820	0	None	C				60.2					
	12-May-10	21:30:00				74640	5610	4930	6180	5950	4940	5880	6130	8760	8830	8610													



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
	13-May-10	19:30:00			A/B	64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C					58.8			2		up down movement, lat movement after gen change
	13-May-10	20:30:00				64290	5280	3970	6180	5980	4550	5830	6160	8780	8970	0	8590	None	C					58.8					
	13-May-10	21:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A	down	stay		58.8	6	2,5				
	13-May-10	22:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
	13-May-10	23:30:00				8520	0	3970	0	0	4550	0	0	0	0	0	0	None	A				58.8						
21-145 (A1)	14-May-10	0:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4						
	14-May-10	1:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4						
	14-May-10	2:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4						
	14-May-10	3:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4						
	14-May-10	4:30:00				9280	0	4430	0	0	4850	0	0	0	0	0	0	None	A				58.4						
	14-May-10	5:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay		58.4	7	1,2,3,4,5,6,7,8,9,10,11				
	14-May-10	6:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
	14-May-10	7:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
	14-May-10	8:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
	14-May-10	9:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
	14-May-10	10:30:00				72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4						
	14-May-10	11:30:00				30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C	down	stay		58.4	3	4,5,6,7,8				
21-145 (A1)	NA	NA	NA	Transition Downstream 2 (Upper Tailrace to Tailrace)		0												None	A				58.4						
21-145 (A1)	14-May-10	12:10:00	From below Bird Island looking Upstream: West side	Transition Downstream between Tailrace & Lower River		30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C				58.4						
21-145 (A1)	17-May-10	0:02:22	Spencer Island West (Near-Field)	Start Lower River		9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A	down	stay		64.7	1	2,5				
21-145 (A1)	17-May-10	0:07:18	Spencer Island West (Near-Field)	End Detections		9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2
21-147 (A1)	10-May-10	12:54:00	Conwingo Tailrace	Release - Off of "A" Gate discharge		21660	0	4560	0	0	4860	6120	6120	0	0	0	0	None	A				64.5					
21-147 (A1)	14-May-10	11:50:00	Half way between Bird Island and Robert Island	Transition Upstream between Lower River & Tailrace		30850	0	0	0	5830	4850	5570	5950	8650	0	0	0	None	C	down	stay		58.4	3	4,5,6,7,8			
21-147 (A1)	14-May-10	NA	NA	Start Tailrace Detection 1		0												None	A				58.4					
21-147 (A1)	14-May-10	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A				58.4					
21-147 (A1)	14-May-10	14:46:43	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C	up	stay		58.4	7	1,2,3,4,5,6,7,8,9,10,11			
	14-May-10	15:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
	14-May-10	16:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
	14-May-10	17:30:00			A/B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-147 (A1)	14-May-10	17:54:51	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4			2	lat movement no gen change	
21-147 (A1)	14-May-10	18:01:48	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C		down		58.4	7	1,2,3,4,5,6,7,8,9,10,11			
21-147 (A1)	14-May-10	18:01:48	Rowland Island West (Near-Field)	End Tailrace Detection 1	E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4			1	move down stay no gen change	
21-147 (A1)	14-May-10	20:31:43	Spencer Island West (Near-Field)	Start Lower River	E	72680	5190	4430	5990	5830	4850	5570	5950	8650	8780	8810	8630	None	C				58.4					
21-147 (A1)	15-May-10	11:26:40	Spencer Island West (Near-Field)	End Lower River	E	32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	stay		60.4	3	2,3,4,5,6,7			
21-147 (A1)	15-May-10	15:36:25	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C	up	stay		60.4	6	1,2,3,4,5,6,7,9,10,11			
21-147 (A1)	15-May-10	15:36:25	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4			1	stay	
21-147 (A1)	15-May-10	16:02:17	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	A	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C		up		60.4	6	1,2,3,4,5,6,7,9,10,11			
	15-May-10	16:30:00			A/B	63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
	15-May-10	17:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
	15-May-10	18:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
	15-May-10	19:30:00				63930	5240	4550	5960	5850	4850	5590	5930	0	8930	8980	8050	None	C				60.4					
	15-May-10	20:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A	down	stay		60.4	3	2,3,4,5,6,7			
	15-May-10	21:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
	15-May-10	22:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
	15-May-10	23:30:00				32730	0	4550	5960	5850	4850	5590	5930	0	0	0	0	None	A				60.4					
21-147 (A1)	16-May-10	0:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A	down	stay		63.6	1	5,7			
	16-May-10	1:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
	16-May-10	2:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
	16-May-10	3:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
	16-May-10	4:30:00				10300	0	0	0	0	4780	0	5520	0	0	0	0	None	A				63.6					
	16-May-10	5:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C	up	stay		63.6	4	2,3,4,5,6,7,8			
	16-May-10	6:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
	16-May-10	7:30:00			A	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
	16-May-10	8:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
	16-May-10	9:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
	16-May-10	10:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
	16-May-10	11:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
	16-May-10	12:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
	16-May-10	13:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
	16-May-10	14:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
	16-May-10	15:30:00			A/B	41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
	16-May-10	16:30:00				41700	0	5020	6070	5860	4780	5710	5520	8740	0	0	0	None	C				63.6					
	16-May-10	17:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C	up	stay		63.6	7	1,2,3,4,5,6,7,8,9,10,11			
	16-May-10	18:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
	16-May-10	19:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
	16-May-10	20:30:00				74200	5320	5020	6070	5860	4780	5710	5520	8740	9190	9190	8800	None	C				63.6					
	16-May-10	21:30:00				32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A	down	stay		63.6	3	2,3,4,5,6,7			
	16-May-10	22:30:00				32960	0	5020	6070	5860	4780	5710	5520	0	0	0	0	None	A				63.6					
	16-May-10	23:30:00				4780	0	0	0	0	4780	0	0	0	0	0	0	None	A	down	stay		63.6	1	5			
21-147 (A1)	17-May-10	0:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A	up	stay		64.7	1	2,5			
	17-May-10	1:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
	17-May-10	2:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
	17-May-10	3:30:00				9550	0	4660	0	0	4890	0	0	0	0	0	0	None	A				64.7					
	17-May-10	4:30:00				9550	0	4660																				



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
	22-May-10	17:30:00			E	50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C					65.4					
	22-May-10	18:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C					65.4					
21-147 (A1)	22-May-10	19:02:11	Rowland Island West (Near-Field)	Transition Upstream 6 (Tailrace to Upper Tailrace)		50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C					65.4					
	22-May-10	19:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C					65.4					
	22-May-10	20:30:00				50290	5310	4500	6180	5970	4670	6050	0	8710	8900	0	0	None	C					65.4					
	22-May-10	21:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A	down	stay			65.4	1	2,5			
	22-May-10	22:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A					65.4					
	22-May-10	23:30:00				9170	0	4500	0	0	4670	0	0	0	0	0	0	None	A					65.4					
21-147 (A1)	23-May-10	0:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
	23-May-10	1:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
	23-May-10	2:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
	23-May-10	3:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
	23-May-10	4:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
	23-May-10	5:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
21-147 (A1)	23-May-10	6:05:42	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 6)	A	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A			up		67.9	1	2,5			
	23-May-10	6:30:00			A/B	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
21-147 (A1)	23-May-10	7:29:51	"A" Gate Aerial	Start EFL Aerial Detection	C	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
21-147 (A1)	23-May-10	7:30:26	"A" Gate Aerial	End EFL Aerial Detection	C	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
21-147 (A1)	23-May-10	7:39:52	"A" Gate Aerial	Start EFL Aerial Detection	C	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
21-147 (A1)	23-May-10	7:51:04	"A" Gate Aerial	End EFL Aerial Detection	C	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
	23-May-10	8:30:00			A/B	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
	23-May-10	9:30:00			A/B	9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
	23-May-10	10:30:00			B	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C	up	stay			67.9	4	2,5,6,7,8,9			
21-147 (A1)	23-May-10	11:00:09	"A" Gate Aerial	Start EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
21-147 (A1)	23-May-10	11:00:48	"A" Gate Aerial	End EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
21-147 (A1)	23-May-10	11:26:00	"A" Gate Aerial	Start EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
21-147 (A1)	23-May-10	11:27:12	"A" Gate Aerial	End EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
	23-May-10	11:30:00			C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
21-147 (A1)	23-May-10	12:10:40	"A" Gate Aerial	Start EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
21-147 (A1)	23-May-10	12:20:53	"A" Gate Aerial	End EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
	23-May-10	12:30:00			B/C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
21-147 (A1)	23-May-10	12:45:44	"A" Gate Aerial	Start EFL Aerial Detection	C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
21-147 (A1)	23-May-10	13:16:12	"A" Gate Aerial	End EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C	down	stay			67.9	3	2,5,6,7,8			
	23-May-10	13:30:00			C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C					67.9					
21-147 (A1)	23-May-10	14:24:35	"A" Gate Aerial	Start EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C					67.9					
	23-May-10	14:30:00			A/B/C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C					67.9					
	23-May-10	15:30:00			B/C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C					67.9					
21-147 (A1)	23-May-10	16:12:08	"C" Gate Aerial	End EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C					67.9					
	23-May-10	16:30:00			B/C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C					67.9					
21-147 (A1)	23-May-10	17:27:42	"C" Gate Aerial	Start EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C					67.9					
21-147 (A1)	23-May-10	17:28:25	"C" Gate Aerial	End EFL Aerial Detection	C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C					67.9					
	23-May-10	17:30:00			B/C	30080	0	4400	0	0	4650	6130	6170	8730	0	0	0	None	C					67.9					
	23-May-10	18:30:00			C	38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C	up	stay			67.9	4	2,5,6,7,8,9			
	23-May-10	19:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
	23-May-10	20:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
	23-May-10	21:30:00				38970	0	4400	0	0	4650	6130	6170	8730	8890	0	0	None	C					67.9					
	23-May-10	22:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A	down	stay			67.9	1	2,5			
	23-May-10	23:30:00				9050	0	4400	0	0	4650	0	0	0	0	0	0	None	A					67.9					
21-147 (A1)	24-May-10	0:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A					69.6					
	24-May-10	1:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A					69.6					
	24-May-10	2:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A					69.6					
	24-May-10	3:30:00				9430	0	4610	0	0	4820	0	0	0	0	0	0	None	A					69.6					
	24-May-10	4:30:00																											

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
	24-May-10	17:30:00			A/B	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C					69.6					
	24-May-10	18:30:00			A/B	60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C					69.6					
	24-May-10	19:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C					69.6					
	24-May-10	20:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C					69.6					
	24-May-10	21:30:00				60320	0	4610	6230	6040	4820	6110	6150	8730	8930	0	8700	None	C					69.6					
	24-May-10	22:30:00				21690	0	4610	0	0	4820	6110	6150	0	0	0	0	None	A	down	stay		69.6	2	2,5,6,7				
	24-May-10	23:30:00				30420	0	4610	0	0	4820	6110	6150	8730	0	0	0	None	C	up	stay		69.6	3	2,5,6,7,8				
21-147 (A1)	25-May-10	0:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A	down	stay		70.2	1	2,5				
	25-May-10	1:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
	25-May-10	2:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
	25-May-10	3:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
	25-May-10	4:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
	25-May-10	5:30:00				9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
	25-May-10	6:30:00			A/B	9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
	25-May-10	7:30:00			A/B/C	9440	0	4680	0	0	4760	0	0	0	0	0	0	None	A				70.2						
	25-May-10	8:30:00			B	21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A	up	stay		70.2	2	2,5,6,7				
	25-May-10	9:30:00			B/C	21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A				70.2						
	25-May-10	10:30:00			A/B	21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A				70.2						
	25-May-10	11:30:00			A	21780	0	4680	0	0	4760	6130	6210	0	0	0	0	None	A				70.2						
	25-May-10	12:30:00			A	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C	up	stay		70.2	6	2,3,4,5,6,7,8,9,11				
	25-May-10	13:30:00			A	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
21-147 (A1)	25-May-10	14:14:17	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 6)	A	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
	25-May-10	14:30:00			A	60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
	25-May-10	15:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
	25-May-10	16:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
	25-May-10	17:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
	25-May-10	18:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
	25-May-10	19:30:00				60380	0	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
	25-May-10	20:30:00				65920	5540	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C			down		70.2	6	1,2,3,4,5,6,7,8,9,11			
21-147 (A1)	25-May-10	21:17:40	Rowland Island West (Near-Field)	Transition Downstream 6 (Upper Tailrace to Tailrace)	E	65920	5540	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C			down		70.2	6	1,2,3,4,5,6,7,8,9,11			
21-147 (A1)	25-May-10	21:17:40	Rowland Island West (Near-Field)	End Tailrace Detection 3	E	65920	5540	4680	6240	6030	4760	6130	6210	8730	8920	0	8680	None	C				70.2						
21-147 (A1)	26-May-10	0:28:26	Rowland Island West (Near-Field)	End Detections		27500	0	4660	0	5870	4720	6090	6160	0	0	0	0	None	A	down	stay		71.0	2	2,4,5,6				



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 2	
21-151 (A1)	10-May-10	14:54:00	Conowingo Tailrace	Release - Between Units 3 & 5		9420	0	4560	0	0	4860	0	0	0	0	0	0	None	A				64.5						
21-151 (A1)	NA	NA	NA	Start Tailrace Detection 1		0												None	A										
21-151 (A1)	NA	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)		0												None	A										
21-151 (A1)	17-May-10	6:55:41	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	up	stay		64.7	4	2,3,4,5,6,7,8				
	17-May-10	7:30:00			A/B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7						
	17-May-10	8:30:00				42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7						
	17-May-10	9:30:00			A/B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7						
	17-May-10	10:30:00			A/B	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C				64.7						
21-151 (A1)	17-May-10	11:21:37	Conowingo Tailrace Unit 7 (Mid-Field)	Point closest to EFL Start	B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C	up	stay		64.7	7	2,3,4,5,6,7,8,9,10,11				
	17-May-10	11:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7						
21-151 (A1)	17-May-10	11:33:43	Conowingo Tailrace Unit 7 (Mid-Field)	Point closest to EFL End	B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7						
	17-May-10	12:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7						
	17-May-10	13:30:00			A/B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7						
	17-May-10	14:30:00				69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7						
21-151 (A1)	17-May-10	14:40:58	Conowingo Tailrace Unit 7 (Mid-Field)	Point closest to EFL Start	B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7						
21-151 (A1)	17-May-10	14:55:18	Conowingo Tailrace Unit 7 (Mid-Field)	Point closest to EFL End	B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7						
21-151 (A1)	17-May-10	15:03:26	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	69060	0	4660	6120	5950	4890	5950	6170	8720	9040	8970	8590	None	C				64.7				2	little lat movement after gen change	
21-151 (A1)	17-May-10	NA	NA	Transition Downstream 1 (Upper Tailrace to Tailrace)		0												None	A				64.7						
21-151 (A1)	17-May-10	NA	NA	End Tailrace Detection 1		0												None	A				64.7						
21-151 (A1)	17-May-10	23:23:03	Spencer Island West (Near-Field)	Start Lower River	E	42460	0	4660	6120	5950	4890	5950	6170	8720	0	0	0	None	C	down	down		64.7	4	2,3,4,5,6,7,8	1	move down after gen change		
21-151 (A1)	18-May-10	2:21:32	Lapidum (West Shore) (Near-Field)	End Detections		41650	0	4380	6160	5910	4720	5890	6060	8530	0	0	0	None	C				64.5						

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	07-May-10	12:41:00	Conowingo Tailrace					07-May-10	12:41:00	39657697	-76171191
54-141 (A1)	07-May-10	13:56:54	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	70	1	07-May-10	13:56:54	39657480	-76172724
54-141 (A1)	07-May-10	14:29:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	1	07-May-10	14:29:16	39657186	-76172854
54-141 (A1)	07-May-10	14:31:43	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	83	1	07-May-10	14:31:43	39656845	-76173035
54-141 (A1)	07-May-10	14:36:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	100	1	07-May-10	14:36:46	39656845	-76173035
54-141 (A1)	07-May-10	14:40:19	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	84	1	07-May-10	14:40:19	39657186	-76172854
54-141 (A1)	07-May-10	14:42:53	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	94	1	07-May-10	14:42:53	39657308	-76172818
54-141 (A1)	07-May-10	14:43:52	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	86	1	07-May-10	14:43:52	39657480	-76172724
54-141 (A1)	07-May-10	14:50:27	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	88	1	07-May-10	14:50:27	39657308	-76172818
54-141 (A1)	07-May-10	14:50:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	107	1	07-May-10	14:50:58	39657186	-76172854
54-141 (A1)	07-May-10	14:52:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	70	2	07-May-10	14:56:24	39657186	-76172854
54-141 (A1)	07-May-10	14:56:14	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	78	1	07-May-10	14:56:14	39657480	-76172724
54-141 (A1)	07-May-10	14:57:08	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	103	1	07-May-10	14:57:08	39657308	-76172818
54-141 (A1)	07-May-10	15:02:54	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	110	1	07-May-10	15:02:54	39657308	-76172818
54-141 (A1)	07-May-10	15:11:28	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	71	1	07-May-10	15:11:28	39657480	-76172724
54-141 (A1)	07-May-10	15:13:24	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	81	2	07-May-10	15:15:24	39657480	-76172724
54-141 (A1)	07-May-10	15:28:09	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	104	2	07-May-10	15:29:27	39656845	-76173035
54-141 (A1)	07-May-10	15:29:03	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	95	2	07-May-10	15:32:56	39657308	-76172818
54-141 (A1)	07-May-10	15:34:49	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	78	2	07-May-10	15:35:47	39657308	-76172818
54-141 (A1)	07-May-10	15:34:53	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	78	4	07-May-10	15:37:46	39657480	-76172724
54-141 (A1)	07-May-10	15:39:37	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	115	1	07-May-10	15:39:37	39657308	-76172818
54-141 (A1)	07-May-10	15:41:53	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	104	1	07-May-10	15:41:53	39656845	-76173035
54-141 (A1)	07-May-10	15:42:42	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	96	1	07-May-10	15:42:42	39657480	-76172724
54-141 (A1)	07-May-10	15:43:22	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	108	1	07-May-10	15:43:22	39657186	-76172854
54-141 (A1)	07-May-10	15:52:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	101	1	07-May-10	15:52:06	39656845	-76173035
54-141 (A1)	07-May-10	15:53:38	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	101	2	07-May-10	15:57:17	39657186	-76172854
54-141 (A1)	07-May-10	15:58:28	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	96	1	07-May-10	15:58:28	39657186	-76172854
54-141 (A1)	07-May-10	16:18:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	69	1	07-May-10	16:18:02	39656488	-76173233
54-141 (A1)	07-May-10	16:18:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	56	1	07-May-10	16:18:06	39656845	-76173035
54-141 (A1)	07-May-10	16:38:43	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	65	1	07-May-10	16:38:43	39657186	-76172854
54-141 (A1)	07-May-10	16:50:46	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	56	1	07-May-10	16:50:46	39657186	-76172854
54-141 (A1)	07-May-10	17:26:22	Rowland Island East (Near-Field)	1	1	113	3	07-May-10	17:27:16	39654615	-76164570
54-141 (A1)	07-May-10	17:26:45	Rowland Island West (Near-Field)	1	A	122	1	07-May-10	17:26:45	39652629	-76168481
54-141 (A1)	07-May-10	17:59:22	Rowland Island West (Near-Field)	1	A	94	5	07-May-10	18:04:33	39652629	-76168481
54-141 (A1)	07-May-10	18:05:53	Rowland Island West (Near-Field)	1	A	85	7	07-May-10	18:11:23	39652629	-76168481
54-141 (A1)	07-May-10	18:18:42	Rowland Island West (Near-Field)	1	A	89	9	07-May-10	18:24:46	39652629	-76168481
54-141 (A1)	07-May-10	18:25:12	Rowland Island West (Near-Field)	1	A	143	4	07-May-10	18:26:58	39652629	-76168481
54-141 (A1)	07-May-10	18:35:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	119	2	07-May-10	18:38:48	39657186	-76172854
54-141 (A1)	07-May-10	18:41:12	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	163	1	07-May-10	18:41:12	39656845	-76173035
54-141 (A1)	07-May-10	18:44:22	Conowingo Tailrace Units 1-7 Master	17	A	80	1	07-May-10	18:44:22		
54-141 (A1)	07-May-10	18:54:13	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	89	1	07-May-10	18:54:13	39656488	-76173233
54-141 (A1)	07-May-10	19:01:54	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	136	1	07-May-10	19:01:54	39657308	-76172818
54-141 (A1)	07-May-10	19:03:33	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	127	1	07-May-10	19:03:33	39656845	-76173035
54-141 (A1)	07-May-10	19:03:37	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	173	1	07-May-10	19:03:37	39657186	-76172854
54-141 (A1)	07-May-10	19:08:42	Conowingo Tailrace Units 1-7 Master	17	A	156	1	07-May-10	19:08:42		
54-141 (A1)	07-May-10	19:19:35	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	73	1	07-May-10	19:19:35	39657480	-76172724
54-141 (A1)	07-May-10	19:45:14	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	69	1	07-May-10	19:45:14	39656488	-76173233
54-141 (A1)	07-May-10	19:52:45	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	154	1	07-May-10	19:52:45	39656845	-76173035
54-141 (A1)	07-May-10	19:53:37	Conowingo Tailrace Units 1-7 Master	17	A	74	1	07-May-10	19:53:37		
54-141 (A1)	07-May-10	19:54:53	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	84	2	07-May-10	19:58:49	39656488	-76173233
54-141 (A1)	07-May-10	19:54:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	88	1	07-May-10	19:54:57	39656845	-76173035
54-141 (A1)	07-May-10	20:01:48	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	80	3	07-May-10	20:03:47	39656845	-76173035
54-141 (A1)	07-May-10	20:01:52	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	63	1	07-May-10	20:01:52	39657186	-76172854
54-141 (A1)	07-May-10	20:06:45	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	94	2	07-May-10	20:07:43	39656845	-76173035
54-141 (A1)	07-May-10	20:08:39	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	105	1	07-May-10	20:08:39	39656488	-76173233
54-141 (A1)	07-May-10	20:08:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	105	1	07-May-10	20:08:48	39657186	-76172854
54-141 (A1)	07-May-10	20:09:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	95	3	07-May-10	20:13:46	39656845	-76173035
54-141 (A1)	07-May-10	20:09:47	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	4	07-May-10	20:13:51	39657186	-76172854
54-141 (A1)	07-May-10	20:12:40	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	92	2	07-May-10	20:13:41	39656488	-76173233
54-141 (A1)	07-May-10	20:14:40	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	105	2	07-May-10	20:15:38	39656015	-76173489

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	07-May-10	20:15:43	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	144	4	07-May-10	20:18:48	39656488	-76173233
54-141 (A1)	07-May-10	20:15:52	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	93	3	07-May-10	20:18:57	39657186	-76172854
54-141 (A1)	07-May-10	20:16:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	129	3	07-May-10	20:18:53	39656845	-76173035
54-141 (A1)	07-May-10	20:17:41	Conowingo Tailrace Units 1-7 Master	17	A	56	1	07-May-10	20:17:41		
54-141 (A1)	07-May-10	20:19:45	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	81	2	07-May-10	20:20:48	39656015	-76173489
54-141 (A1)	07-May-10	20:19:50	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	118	2	07-May-10	20:22:51	39656488	-76173233
54-141 (A1)	07-May-10	20:20:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	122	2	07-May-10	20:22:55	39656845	-76173035
54-141 (A1)	07-May-10	20:21:01	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	116	2	07-May-10	20:23:00	39657186	-76172854
54-141 (A1)	07-May-10	20:25:45	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	79	2	07-May-10	20:26:44	39656845	-76173035
54-141 (A1)	07-May-10	20:26:39	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	100	1	07-May-10	20:26:39	39656488	-76173233
54-141 (A1)	07-May-10	20:29:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	66	1	07-May-10	20:29:34	39656845	-76173035
54-141 (A1)	07-May-10	20:39:09	Rowland Island West (Near-Field)	1	A	76	2	07-May-10	20:40:25	39652629	-76168481
54-141 (A1)	08-May-10	5:54:25	Rowland Island West (Near-Field)	1	A	85	4	08-May-10	5:55:45	39652629	-76168481
54-141 (A1)	08-May-10	5:56:37	Rowland Island West (Near-Field)	1	A	89	2	08-May-10	5:57:04	39652629	-76168481
54-141 (A1)	08-May-10	7:41:32	Rowland Island West (Near-Field)	1	A	65	4	08-May-10	7:45:42	39652629	-76168481
54-141 (A1)	08-May-10	7:47:03	Rowland Island West (Near-Field)	1	A	81	4	08-May-10	7:51:24	39652629	-76168481
54-141 (A1)	08-May-10	8:02:54	Rowland Island West (Near-Field)	1	A	68	1	08-May-10	8:02:54	39652629	-76168481
54-141 (A1)	08-May-10	8:08:30	Rowland Island West (Near-Field)	1	A	63	2	08-May-10	8:13:17	39652629	-76168481
54-141 (A1)	08-May-10	8:33:12	Rowland Island West (Near-Field)	1	A	60	2	08-May-10	8:34:29	39652629	-76168481
54-141 (A1)	08-May-10	8:38:48	Rowland Island West (Near-Field)	1	A	79	1	08-May-10	8:38:48	39652629	-76168481
54-141 (A1)	08-May-10	8:58:01	Rowland Island West (Near-Field)	1	A	62	2	08-May-10	9:02:44	39652629	-76168481
54-141 (A1)	08-May-10	9:38:33	Rowland Island West (Near-Field)	1	A	80	6	08-May-10	9:44:45	39652629	-76168481
54-141 (A1)	08-May-10	9:48:10	Rowland Island West (Near-Field)	1	A	65	2	08-May-10	9:52:40	39652629	-76168481
54-141 (A1)	08-May-10	9:58:19	Rowland Island West (Near-Field)	1	A	97	4	08-May-10	9:59:40	39652629	-76168481
54-141 (A1)	08-May-10	10:22:09	Rowland Island West (Near-Field)	1	A	73	1	08-May-10	10:22:09	39652629	-76168481
54-141 (A1)	08-May-10	10:31:27	Rowland Island West (Near-Field)	1	A	69	3	08-May-10	10:35:14	39652629	-76168481
54-141 (A1)	08-May-10	10:37:47	Rowland Island West (Near-Field)	1	A	101	1	08-May-10	10:37:47	39652629	-76168481
54-141 (A1)	08-May-10	10:55:19	Rowland Island West (Near-Field)	1	A	62	1	08-May-10	10:55:19	39652629	-76168481
54-141 (A1)	08-May-10	10:59:22	Rowland Island West (Near-Field)	1	A	61	3	08-May-10	11:04:54	39652629	-76168481
54-141 (A1)	08-May-10	11:14:18	Rowland Island West (Near-Field)	1	A	90	2	08-May-10	11:15:35	39652629	-76168481
54-141 (A1)	08-May-10	11:17:23	Rowland Island West (Near-Field)	1	A	85	5	08-May-10	11:25:41	39652629	-76168481
54-141 (A1)	08-May-10	11:34:06	Rowland Island West (Near-Field)	1	A	53	2	08-May-10	11:36:18	39652629	-76168481
54-141 (A1)	08-May-10	12:06:30	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	123	2	08-May-10	12:08:22	39656488	-76173233
54-141 (A1)	08-May-10	12:10:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	142	1	08-May-10	12:10:05	39656845	-76173035
54-141 (A1)	08-May-10	12:31:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	105	1	08-May-10	12:31:00	39656488	-76173233
54-141 (A1)	08-May-10	12:32:16	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	132	2	08-May-10	12:33:31	39656488	-76173233
54-141 (A1)	08-May-10	12:32:23	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	113	2	08-May-10	12:36:27	39656845	-76173035
54-141 (A1)	08-May-10	12:33:24	Conowingo Tailrace Units 1-7 Master	17	A	131	1	08-May-10	12:33:24		
54-141 (A1)	08-May-10	12:33:44	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	68	2	08-May-10	12:36:32	39657186	-76172854
54-141 (A1)	08-May-10	12:37:41	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	69	1	08-May-10	12:37:41	39656015	-76173489
54-141 (A1)	08-May-10	12:37:46	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	179	4	08-May-10	12:41:24	39656488	-76173233
54-141 (A1)	08-May-10	12:38:53	Conowingo Tailrace Units 1-7 Master	17	A	78	2	08-May-10	12:41:16		
54-141 (A1)	08-May-10	12:40:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	1	08-May-10	12:40:13	39656845	-76173035
54-141 (A1)	08-May-10	12:43:24	Conowingo Tailrace Units 1-7 Master	17	A	82	1	08-May-10	12:43:24		
54-141 (A1)	08-May-10	12:43:29	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	190	1	08-May-10	12:43:29	39656015	-76173489
54-141 (A1)	08-May-10	12:43:34	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	157	4	08-May-10	12:46:52	39656488	-76173233
54-141 (A1)	08-May-10	12:44:43	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	92	2	08-May-10	12:45:50	39656845	-76173035
54-141 (A1)	08-May-10	12:45:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	57	1	08-May-10	12:45:54	39657186	-76172854
54-141 (A1)	08-May-10	12:48:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	101	1	08-May-10	12:48:00	39656488	-76173233
54-141 (A1)	08-May-10	12:49:01	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	84	1	08-May-10	12:49:01	39656015	-76173489
54-141 (A1)	08-May-10	12:50:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	152	1	08-May-10	12:50:20	39656845	-76173035
54-141 (A1)	08-May-10	12:51:26	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	135	1	08-May-10	12:51:26	39657186	-76172854
54-141 (A1)	08-May-10	12:52:33	Conowingo Tailrace Units 1-7 Master	17	A	83	1	08-May-10	12:52:33		
54-141 (A1)	08-May-10	12:52:39	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	120	1	08-May-10	12:52:39	39656488	-76173233
54-141 (A1)	08-May-10	12:52:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	118	2	08-May-10	12:54:18	39656845	-76173035
54-141 (A1)	08-May-10	12:52:49	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	63	1	08-May-10	12:52:49	39657186	-76172854
54-141 (A1)	08-May-10	12:59:18	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	152	1	08-May-10	12:59:18	39657186	-76172854
54-141 (A1)	08-May-10	13:14:21	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	62	1	08-May-10	13:14:21	39657186	-76172854
54-141 (A1)	08-May-10	14:21:51	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	78	1	08-May-10	14:21:51	39656488	-76173233
54-141 (A1)	08-May-10	14:21:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	122	1	08-May-10	14:21:57	39656845	-76173035

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	08-May-10	14:23:11	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	98	1	08-May-10	14:23:11	39657186	-76172854
54-141 (A1)	08-May-10	14:25:23	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	72	2	08-May-10	14:27:36	39657186	-76172854
54-141 (A1)	08-May-10	14:26:27	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	80	1	08-May-10	14:26:27	39656845	-76173035
54-141 (A1)	08-May-10	14:33:53	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	117	2	08-May-10	14:36:41	39656488	-76173233
54-141 (A1)	08-May-10	14:35:31	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	137	2	08-May-10	14:36:45	39656845	-76173035
54-141 (A1)	08-May-10	14:39:50	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	97	1	08-May-10	14:39:50	39656015	-76173489
54-141 (A1)	08-May-10	14:39:54	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	148	1	08-May-10	14:39:54	39656488	-76173233
54-141 (A1)	08-May-10	14:41:45	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	123	1	08-May-10	14:41:45	39657186	-76172854
54-141 (A1)	08-May-10	14:45:02	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	66	1	08-May-10	14:45:02	39657186	-76172854
54-141 (A1)	08-May-10	14:51:38	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	54	1	08-May-10	14:51:38	39657186	-76172854
54-141 (A1)	08-May-10	17:46:00	Rowland Island West (Near-Field)	1	A	56	1	08-May-10	17:46:00	39652629	-76168481
54-141 (A1)	08-May-10	17:58:49	Rowland Island West (Near-Field)	1	A	114	1	08-May-10	17:58:49	39652629	-76168481
54-141 (A1)	08-May-10	18:50:09	Rowland Island West (Near-Field)	1	A	77	2	08-May-10	18:56:30	39652629	-76168481
54-141 (A1)	08-May-10	18:59:35	Rowland Island West (Near-Field)	1	A	94	4	08-May-10	19:07:47	39652629	-76168481
54-141 (A1)	08-May-10	19:10:28	Rowland Island West (Near-Field)	1	A	76	4	08-May-10	19:14:49	39652629	-76168481
54-141 (A1)	08-May-10	19:16:10	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	71	2	08-May-10	19:17:15	39656845	-76173035
54-141 (A1)	08-May-10	19:22:32	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	103	1	08-May-10	19:22:32	39656488	-76173233
54-141 (A1)	08-May-10	19:23:36	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	97	3	08-May-10	19:25:47	39656015	-76173489
54-141 (A1)	08-May-10	19:23:41	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	110	2	08-May-10	19:25:52	39656488	-76173233
54-141 (A1)	08-May-10	19:23:45	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	74	1	08-May-10	19:23:45	39656845	-76173035
54-141 (A1)	08-May-10	19:24:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	64	1	08-May-10	19:24:54	39657186	-76172854
54-141 (A1)	08-May-10	19:27:55	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	103	2	08-May-10	19:29:02	39656015	-76173489
54-141 (A1)	08-May-10	19:28:07	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	116	3	08-May-10	19:32:43	39656845	-76173035
54-141 (A1)	08-May-10	19:32:38	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	105	1	08-May-10	19:32:38	39656488	-76173233
54-141 (A1)	08-May-10	19:34:41	Conowingo Tailrace Units 1-7 Master	17	A	101	1	08-May-10	19:34:41		
54-141 (A1)	08-May-10	19:34:45	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	94	2	08-May-10	19:37:29	39656015	-76173489
54-141 (A1)	08-May-10	20:04:54	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	62	1	08-May-10	20:04:54	39656845	-76173035
54-141 (A1)	08-May-10	20:14:19	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	186	1	08-May-10	20:14:19	39656488	-76173233
54-141 (A1)	08-May-10	20:18:40	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	118	1	08-May-10	20:18:40	39657186	-76172854
54-141 (A1)	08-May-10	20:19:47	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	117	2	08-May-10	20:22:45	39656845	-76173035
54-141 (A1)	08-May-10	20:21:21	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	107	1	08-May-10	20:21:21	39657186	-76172854
54-141 (A1)	08-May-10	20:22:40	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	121	2	08-May-10	20:23:53	39656488	-76173233
54-141 (A1)	08-May-10	20:25:07	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	123	1	08-May-10	20:25:07	39656488	-76173233
54-141 (A1)	08-May-10	20:39:15	Rowland Island West (Near-Field)	1	A	101	1	08-May-10	20:39:15	39652629	-76168481
54-141 (A1)	08-May-10	20:39:47	Rowland Island East (Near-Field)	1	1	51	1	08-May-10	20:39:47	39654615	-76164570
54-141 (A1)	08-May-10	21:59:18	Spencer Island West (Near-Field)	8	1	52	1	08-May-10	21:59:18	39605974	-76130720
54-141 (A1)	08-May-10	22:03:26	Spencer Island West (Near-Field)	8	1	78	1	08-May-10	22:03:26	39605974	-76130720
54-141 (A1)	08-May-10	22:23:45	Lapidum (West Shore) (Near-Field)	10	0	55	1	08-May-10	22:23:45	39601082	-76126821
54-141 (A1)	08-May-10	22:36:37	Lapidum (West Shore) (Near-Field)	10	0	82	2	08-May-10	22:37:00	39601082	-76126821
54-141 (A1)	11-May-10	9:15:18	Lapidum (West Shore) (Near-Field)	10	0	71	2	11-May-10	9:15:30	39601082	-76126821
54-141 (A1)	11-May-10	9:16:50	Lapidum (West Shore) (Near-Field)	10	0	71	6	11-May-10	9:21:08	39601082	-76126821
54-141 (A1)	11-May-10	9:22:51	Lapidum (West Shore) (Near-Field)	10	0	75	2	11-May-10	9:23:14	39601082	-76126821
54-141 (A1)	11-May-10	9:29:37	Spencer Island West (Near-Field)	8	1	162	2	11-May-10	9:31:17	39605974	-76130720
54-141 (A1)	11-May-10	9:34:12	Spencer Island West (Near-Field)	8	1	121	4	11-May-10	9:35:03	39605974	-76130720
54-141 (A1)	11-May-10	9:43:45	Spencer Island West (Near-Field)	8	1	101	1	11-May-10	9:43:45	39605974	-76130720
54-141 (A1)	11-May-10	13:12:32	Rowland Island West (Near-Field)	1	A	71	3	11-May-10	13:18:25	39652629	-76168481
54-141 (A1)	11-May-10	13:20:32	Rowland Island West (Near-Field)	1	A	94	5	11-May-10	13:26:03	39652629	-76168481
54-141 (A1)	11-May-10	13:31:13	Rowland Island West (Near-Field)	1	A	87	6	11-May-10	13:37:57	39652629	-76168481
54-141 (A1)	11-May-10	13:39:17	Rowland Island West (Near-Field)	1	A	61	3	11-May-10	13:41:03	39652629	-76168481
54-141 (A1)	11-May-10	13:57:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	63	1	11-May-10	13:57:34	39656845	-76173035
54-141 (A1)	11-May-10	13:58:35	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	91	1	11-May-10	13:58:35	39656488	-76173233
54-141 (A1)	11-May-10	13:59:51	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	91	1	11-May-10	13:59:51	39657186	-76172854
54-141 (A1)	11-May-10	14:00:47	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	101	3	11-May-10	14:03:00	39656488	-76173233
54-141 (A1)	11-May-10	14:00:51	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	117	2	11-May-10	14:01:56	39656845	-76173035
54-141 (A1)	11-May-10	14:00:56	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	101	1	11-May-10	14:00:56	39657186	-76172854
54-141 (A1)	11-May-10	14:01:48	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	63	1	11-May-10	14:01:48	39656015	-76173489
54-141 (A1)	11-May-10	14:07:09	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	88	1	11-May-10	14:07:09	39656015	-76173489
54-141 (A1)	11-May-10	14:07:13	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	141	1	11-May-10	14:07:13	39656488	-76173233
54-141 (A1)	11-May-10	14:07:17	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	1	11-May-10	14:07:17	39656845	-76173035
54-141 (A1)	11-May-10	14:10:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	119	1	11-May-10	14:10:38	39656845	-76173035



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	11-May-10	14:15:13	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	60	1	11-May-10	14:15:13	39657186	-76172854
54-141 (A1)	11-May-10	14:29:50	Rowland Island West (Near-Field)	1	A	56	1	11-May-10	14:29:50	39652629	-76168481
54-141 (A1)	11-May-10	14:49:54	Rowland Island West (Near-Field)	1	A	93	8	11-May-10	14:56:25	39652629	-76168481
54-141 (A1)	11-May-10	15:38:03	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	61	1	11-May-10	15:38:03	39657186	-76172854
54-141 (A1)	11-May-10	15:41:02	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	89	1	11-May-10	15:41:02	39657186	-76172854
54-141 (A1)	11-May-10	15:47:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	70	1	11-May-10	15:47:00	39657186	-76172854
54-141 (A1)	11-May-10	15:48:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	103	2	11-May-10	15:49:00	39656845	-76173035
54-141 (A1)	11-May-10	15:48:54	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	114	1	11-May-10	15:48:54	39656488	-76173233
54-141 (A1)	11-May-10	15:51:03	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	101	2	11-May-10	15:55:25	39656845	-76173035
54-141 (A1)	11-May-10	15:54:15	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	98	1	11-May-10	15:54:15	39656488	-76173233
54-141 (A1)	11-May-10	15:56:27	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	92	1	11-May-10	15:56:27	39656488	-76173233
54-141 (A1)	11-May-10	15:56:31	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	106	1	11-May-10	15:56:31	39656845	-76173035
54-141 (A1)	11-May-10	15:58:37	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	93	1	11-May-10	15:58:37	39657186	-76172854
54-141 (A1)	11-May-10	16:01:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	127	2	11-May-10	16:04:47	39656845	-76173035
54-141 (A1)	11-May-10	16:04:40	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	104	2	11-May-10	16:05:45	39656015	-76173489
54-141 (A1)	11-May-10	16:04:44	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	118	1	11-May-10	16:04:44	39656488	-76173233
54-141 (A1)	11-May-10	16:05:49	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	135	2	11-May-10	16:09:00	39656488	-76173233
54-141 (A1)	11-May-10	16:06:48	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	105	3	11-May-10	16:08:55	39656015	-76173489
54-141 (A1)	11-May-10	16:06:54	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	100	2	11-May-10	16:07:56	39656845	-76173035
54-141 (A1)	11-May-10	16:08:50	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	140	1	11-May-10	16:08:50	39657308	-76172818
54-141 (A1)	11-May-10	16:11:07	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	86	1	11-May-10	16:11:07	39656845	-76173035
54-141 (A1)	11-May-10	16:12:06	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	110	3	11-May-10	16:15:14	39656488	-76173233
54-141 (A1)	11-May-10	16:18:39	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	85	1	11-May-10	16:18:39	39657186	-76172854
54-141 (A1)	11-May-10	16:19:16	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	87	1	11-May-10	16:19:16	39657308	-76172818
54-141 (A1)	11-May-10	16:22:05	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	94	1	11-May-10	16:22:05	39657308	-76172818
54-141 (A1)	11-May-10	16:26:47	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	87	1	11-May-10	16:26:47	39657308	-76172818
54-141 (A1)	11-May-10	16:27:11	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	69	1	11-May-10	16:27:11	39656488	-76173233
54-141 (A1)	11-May-10	16:30:15	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	105	1	11-May-10	16:30:15	39656845	-76173035
54-141 (A1)	11-May-10	16:59:43	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	80	1	11-May-10	16:59:43	39656845	-76173035
54-141 (A1)	11-May-10	17:01:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	86	1	11-May-10	17:01:52	39656845	-76173035
54-141 (A1)	11-May-10	17:01:56	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	105	1	11-May-10	17:01:56	39657186	-76172854
54-141 (A1)	11-May-10	17:08:54	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	145	1	11-May-10	17:08:54	39656845	-76173035
54-141 (A1)	11-May-10	17:09:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	129	1	11-May-10	17:09:00	39657186	-76172854
54-141 (A1)	11-May-10	17:09:58	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	85	1	11-May-10	17:09:58	39656488	-76173233
54-141 (A1)	11-May-10	17:12:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	117	3	11-May-10	17:16:05	39656845	-76173035
54-141 (A1)	11-May-10	17:12:57	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	140	1	11-May-10	17:12:57	39656015	-76173489
54-141 (A1)	11-May-10	17:13:01	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	108	3	11-May-10	17:15:02	39656488	-76173233
54-141 (A1)	11-May-10	17:14:07	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	109	3	11-May-10	17:16:10	39657186	-76172854
54-141 (A1)	11-May-10	17:15:55	Conowingo Tailrace Units 1-7 Master	17	A	81	1	11-May-10	17:15:55		
54-141 (A1)	11-May-10	17:17:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	81	1	11-May-10	17:17:05	39656845	-76173035
54-141 (A1)	11-May-10	17:17:10	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	112	3	11-May-10	17:21:02	39657186	-76172854
54-141 (A1)	11-May-10	17:22:01	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	105	4	11-May-10	17:25:12	39657186	-76172854
54-141 (A1)	11-May-10	17:22:54	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	62	2	11-May-10	17:23:55	39656488	-76173233
54-141 (A1)	11-May-10	17:22:58	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	151	2	11-May-10	17:24:00	39656845	-76173035
54-141 (A1)	11-May-10	17:23:02	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	101	1	11-May-10	17:23:02	39657480	-76172724
54-141 (A1)	11-May-10	17:25:51	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	99	1	11-May-10	17:25:51	39657308	-76172818
54-141 (A1)	11-May-10	17:27:16	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	99	2	11-May-10	17:30:37	39656488	-76173233
54-141 (A1)	11-May-10	17:27:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	131	1	11-May-10	17:27:20	39656845	-76173035
54-141 (A1)	11-May-10	17:31:45	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	101	3	11-May-10	17:35:06	39656488	-76173233
54-141 (A1)	11-May-10	17:34:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	118	2	11-May-10	17:35:09	39656845	-76173035
54-141 (A1)	11-May-10	17:35:13	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	131	1	11-May-10	17:35:13	39657186	-76172854
54-141 (A1)	11-May-10	17:37:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	109	3	11-May-10	17:40:43	39656845	-76173035
54-141 (A1)	11-May-10	17:38:13	Conowingo Tailrace Units 1-7 Master	17	A	157	1	11-May-10	17:38:13		
54-141 (A1)	11-May-10	17:38:17	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	79	3	11-May-10	17:40:35	39656015	-76173489
54-141 (A1)	11-May-10	17:38:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	130	3	11-May-10	17:40:47	39657186	-76172854
54-141 (A1)	11-May-10	17:39:29	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	157	2	11-May-10	17:40:39	39656488	-76173233
54-141 (A1)	11-May-10	17:41:47	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	118	4	11-May-10	17:45:57	39656488	-76173233
54-141 (A1)	11-May-10	17:41:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	139	4	11-May-10	17:46:01	39656845	-76173035
54-141 (A1)	11-May-10	17:43:56	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	114	3	11-May-10	17:46:05	39657186	-76172854
54-141 (A1)	11-May-10	17:44:48	Conowingo Tailrace Units 1-7 Master	17	A	62	1	11-May-10	17:44:48		



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	11-May-10	17:47:56	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	112	1	11-May-10	17:47:56	39656015	-76173489
54-141 (A1)	11-May-10	17:48:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	166	1	11-May-10	17:48:00	39656488	-76173233
54-141 (A1)	11-May-10	17:48:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	112	3	11-May-10	17:51:06	39656845	-76173035
54-141 (A1)	11-May-10	17:48:09	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	128	3	11-May-10	17:51:10	39657186	-76172854
54-141 (A1)	11-May-10	17:50:00	Conowingo Tailrace Units 1-7 Master	17	A	68	1	11-May-10	17:50:00		
54-141 (A1)	11-May-10	17:50:11	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	114	1	11-May-10	17:50:11	39657308	-76172818
54-141 (A1)	11-May-10	17:52:04	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	138	2	11-May-10	17:54:53	39657308	-76172818
54-141 (A1)	11-May-10	17:52:09	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	177	5	11-May-10	17:56:25	39656845	-76173035
54-141 (A1)	11-May-10	17:52:14	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	124	5	11-May-10	17:56:29	39657186	-76172854
54-141 (A1)	11-May-10	17:53:09	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	120	2	11-May-10	17:55:17	39656488	-76173233
54-141 (A1)	11-May-10	17:55:10	Conowingo Tailrace Units 1-7 Master	17	A	112	1	11-May-10	17:55:10		
54-141 (A1)	11-May-10	17:58:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	145	2	11-May-10	17:59:26	39656488	-76173233
54-141 (A1)	11-May-10	17:59:19	Conowingo Tailrace Units 1-7 Master	17	A	81	1	11-May-10	17:59:19		
54-141 (A1)	11-May-10	17:59:31	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	155	1	11-May-10	17:59:31	39656845	-76173035
54-141 (A1)	11-May-10	17:59:36	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	112	1	11-May-10	17:59:36	39657186	-76172854
54-141 (A1)	11-May-10	18:00:32	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	149	1	11-May-10	18:00:32	39656015	-76173489
54-141 (A1)	11-May-10	18:01:38	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	185	2	11-May-10	18:02:47	39656488	-76173233
54-141 (A1)	11-May-10	18:01:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	148	3	11-May-10	18:04:00	39656845	-76173035
54-141 (A1)	11-May-10	18:01:47	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	125	2	11-May-10	18:02:57	39657186	-76172854
54-141 (A1)	11-May-10	18:02:38	Conowingo Tailrace Units 1-7 Master	17	A	163	1	11-May-10	18:02:38		
54-141 (A1)	11-May-10	18:02:43	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	153	1	11-May-10	18:02:43	39656015	-76173489
54-141 (A1)	11-May-10	18:09:02	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	91	3	11-May-10	18:11:06	39656015	-76173489
54-141 (A1)	11-May-10	18:10:08	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	132	2	11-May-10	18:11:11	39656488	-76173233
54-141 (A1)	11-May-10	18:10:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	154	1	11-May-10	18:10:13	39656845	-76173035
54-141 (A1)	11-May-10	18:12:11	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	122	3	11-May-10	18:14:19	39656015	-76173489
54-141 (A1)	11-May-10	18:12:16	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	124	5	11-May-10	18:16:22	39656488	-76173233
54-141 (A1)	11-May-10	18:12:21	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	121	3	11-May-10	18:14:28	39656845	-76173035
54-141 (A1)	11-May-10	18:17:18	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	134	2	11-May-10	18:18:17	39656488	-76173233
54-141 (A1)	11-May-10	18:18:08	Conowingo Tailrace Units 1-7 Master	17	A	102	1	11-May-10	18:18:08		
54-141 (A1)	11-May-10	18:18:12	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	108	1	11-May-10	18:18:12	39656015	-76173489
54-141 (A1)	11-May-10	18:18:22	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	115	3	11-May-10	18:21:16	39656845	-76173035
54-141 (A1)	11-May-10	18:18:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	124	2	11-May-10	18:20:22	39657186	-76172854
54-141 (A1)	11-May-10	18:22:13	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	139	4	11-May-10	18:26:14	39656488	-76173233
54-141 (A1)	11-May-10	18:22:17	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	128	4	11-May-10	18:26:19	39656845	-76173035
54-141 (A1)	11-May-10	18:25:21	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	103	2	11-May-10	18:26:24	39657186	-76172854
54-141 (A1)	11-May-10	18:27:18	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	99	3	11-May-10	18:30:20	39656488	-76173233
54-141 (A1)	11-May-10	18:27:23	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	149	4	11-May-10	18:30:24	39656845	-76173035
54-141 (A1)	11-May-10	18:28:12	Conowingo Tailrace Units 1-7 Master	17	A	171	1	11-May-10	18:28:12		
54-141 (A1)	11-May-10	18:28:29	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	116	4	11-May-10	18:31:25	39657186	-76172854
54-141 (A1)	11-May-10	18:32:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	95	4	11-May-10	18:36:23	39656845	-76173035
54-141 (A1)	11-May-10	18:32:45	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	74	1	11-May-10	18:32:45	39657308	-76172818
54-141 (A1)	11-May-10	18:33:24	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	121	4	11-May-10	18:36:28	39657186	-76172854
54-141 (A1)	11-May-10	18:36:11	Conowingo Tailrace Units 1-7 Master	17	A	138	1	11-May-10	18:36:11		
54-141 (A1)	11-May-10	18:37:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	141	1	11-May-10	18:37:23	39656488	-76173233
54-141 (A1)	11-May-10	18:37:27	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	95	4	11-May-10	18:41:25	39656845	-76173035
54-141 (A1)	11-May-10	18:37:32	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	146	5	11-May-10	18:41:28	39657186	-76172854
54-141 (A1)	11-May-10	18:39:16	Conowingo Tailrace Units 1-7 Master	17	A	82	1	11-May-10	18:39:16		
54-141 (A1)	11-May-10	18:41:55	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	108	3	11-May-10	18:45:39	39657308	-76172818
54-141 (A1)	11-May-10	18:42:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	189	3	11-May-10	18:44:28	39657186	-76172854
54-141 (A1)	11-May-10	18:43:23	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	4	11-May-10	18:46:23	39656845	-76173035
54-141 (A1)	11-May-10	18:44:14	Conowingo Tailrace Units 1-7 Master	17	A	135	3	11-May-10	18:46:13		
54-141 (A1)	11-May-10	18:44:18	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	63	1	11-May-10	18:44:18	39656015	-76173489
54-141 (A1)	11-May-10	18:45:21	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	171	1	11-May-10	18:45:21	39656488	-76173233
54-141 (A1)	11-May-10	18:47:19	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	118	3	11-May-10	18:50:09	39656845	-76173035
54-141 (A1)	11-May-10	18:47:23	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	131	4	11-May-10	18:51:09	39657186	-76172854
54-141 (A1)	11-May-10	18:49:22	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	105	2	11-May-10	18:50:19	39657308	-76172818
54-141 (A1)	11-May-10	19:34:09	Rowland Island West (Near-Field)	1	A	127	2	11-May-10	19:34:36	39652629	-76168481
54-141 (A1)	11-May-10	19:34:13	Rowland Island East (Near-Field)	1	1	109	4	11-May-10	19:35:35	39654615	-76164570
54-141 (A1)	12-May-10	6:04:30	Rowland Island West (Near-Field)	1	A	87	2	12-May-10	6:08:45	39652629	-76168481
54-141 (A1)	12-May-10	6:11:03	Rowland Island West (Near-Field)	1	A	103	10	12-May-10	6:20:43	39652629	-76168481

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	12-May-10	6:21:09	Rowland Island West (Near-Field)	1	A	94	10	12-May-10	6:29:12	39652629	-76168481
54-141 (A1)	12-May-10	6:28:43	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	80	1	12-May-10	6:28:43	39656845	-76173035
54-141 (A1)	12-May-10	6:35:37	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	1	12-May-10	6:35:37	39656845	-76173035
54-141 (A1)	12-May-10	6:40:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	88	2	12-May-10	6:44:40	39656488	-76173233
54-141 (A1)	12-May-10	6:48:19	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	79	1	12-May-10	6:48:19	39656845	-76173035
54-141 (A1)	12-May-10	6:53:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	60	1	12-May-10	6:53:00	39657186	-76172854
54-141 (A1)	12-May-10	6:54:14	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	1	12-May-10	6:54:14	39656845	-76173035
54-141 (A1)	12-May-10	6:55:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	126	2	12-May-10	6:56:36	39656488	-76173233
54-141 (A1)	12-May-10	6:55:26	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	136	3	12-May-10	6:59:07	39656845	-76173035
54-141 (A1)	12-May-10	6:55:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	116	2	12-May-10	6:56:45	39657186	-76172854
54-141 (A1)	12-May-10	7:07:30	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	61	1	12-May-10	7:07:30	39656845	-76173035
54-141 (A1)	12-May-10	7:10:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	117	1	12-May-10	7:10:13	39656845	-76173035
54-141 (A1)	12-May-10	7:10:18	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	79	1	12-May-10	7:10:18	39657186	-76172854
54-141 (A1)	12-May-10	7:55:38	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	77	1	12-May-10	7:55:38	39657186	-76172854
54-141 (A1)	12-May-10	8:22:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	1	12-May-10	8:22:44	39656845	-76173035
54-141 (A1)	12-May-10	8:32:27	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	64	1	12-May-10	8:32:27	39656845	-76173035
54-141 (A1)	12-May-10	8:33:25	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	99	1	12-May-10	8:33:25	39656488	-76173233
54-141 (A1)	12-May-10	8:35:35	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	74	2	12-May-10	8:36:34	39656845	-76173035
54-141 (A1)	12-May-10	8:40:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	121	4	12-May-10	8:44:49	39657186	-76172854
54-141 (A1)	12-May-10	8:43:33	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	88	1	12-May-10	8:43:33	39656488	-76173233
54-141 (A1)	12-May-10	8:43:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	143	2	12-May-10	8:44:44	39656845	-76173035
54-141 (A1)	12-May-10	8:45:56	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	165	4	12-May-10	8:49:31	39656845	-76173035
54-141 (A1)	12-May-10	8:46:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	132	4	12-May-10	8:49:36	39657186	-76172854
54-141 (A1)	12-May-10	8:46:51	Conowingo Tailrace Units 1-7 Master	17	A	109	2	12-May-10	8:48:03		
54-141 (A1)	12-May-10	8:46:58	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	160	2	12-May-10	8:48:11	39656488	-76173233
54-141 (A1)	12-May-10	8:50:31	Conowingo Tailrace Units 1-7 Master	17	A	122	1	12-May-10	8:50:31		
54-141 (A1)	12-May-10	8:50:43	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	122	3	12-May-10	8:55:26	39656845	-76173035
54-141 (A1)	12-May-10	8:50:49	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	102	1	12-May-10	8:50:49	39657186	-76172854
54-141 (A1)	12-May-10	8:51:52	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	105	1	12-May-10	8:51:52	39656488	-76173233
54-141 (A1)	12-May-10	8:58:56	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	103	1	12-May-10	8:58:56	39656845	-76173035
54-141 (A1)	12-May-10	8:59:01	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	71	1	12-May-10	8:59:01	39657186	-76172854
54-141 (A1)	12-May-10	9:01:15	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	105	2	12-May-10	9:02:31	39656845	-76173035
54-141 (A1)	12-May-10	9:02:22	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	118	2	12-May-10	9:04:39	39656015	-76173489
54-141 (A1)	12-May-10	9:02:26	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	138	3	12-May-10	9:04:43	39656488	-76173233
54-141 (A1)	12-May-10	9:10:27	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	117	1	12-May-10	9:10:27	39656015	-76173489
54-141 (A1)	12-May-10	9:10:32	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	158	1	12-May-10	9:10:32	39656488	-76173233
54-141 (A1)	12-May-10	9:12:48	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	139	1	12-May-10	9:12:48	39656015	-76173489
54-141 (A1)	12-May-10	9:12:53	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	173	3	12-May-10	9:15:16	39656488	-76173233
54-141 (A1)	12-May-10	9:12:58	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	125	2	12-May-10	9:14:10	39656845	-76173035
54-141 (A1)	12-May-10	9:16:28	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	150	3	12-May-10	9:18:56	39656488	-76173233
54-141 (A1)	12-May-10	9:16:39	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	66	2	12-May-10	9:20:15	39657186	-76172854
54-141 (A1)	12-May-10	9:17:38	Conowingo Tailrace Units 1-7 Master	17	A	104	1	12-May-10	9:17:38		
54-141 (A1)	12-May-10	9:17:42	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	125	2	12-May-10	9:20:02	39656015	-76173489
54-141 (A1)	12-May-10	9:17:51	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	115	3	12-May-10	9:20:10	39656845	-76173035
54-141 (A1)	12-May-10	9:21:16	Conowingo Tailrace Units 1-7 Master	17	A	136	1	12-May-10	9:21:16		
54-141 (A1)	12-May-10	9:21:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	114	3	12-May-10	9:23:56	39656488	-76173233
54-141 (A1)	12-May-10	9:22:33	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	103	2	12-May-10	9:23:51	39656015	-76173489
54-141 (A1)	12-May-10	9:25:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	82	1	12-May-10	9:25:24	39656845	-76173035
54-141 (A1)	12-May-10	9:29:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	81	1	12-May-10	9:29:20	39657186	-76172854
54-141 (A1)	12-May-10	9:38:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	89	2	12-May-10	9:40:12	39656845	-76173035
54-141 (A1)	12-May-10	9:50:24	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	119	1	12-May-10	9:50:24	39657186	-76172854
54-141 (A1)	12-May-10	10:10:01	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	113	2	12-May-10	10:13:05	39657308	-76172818
54-141 (A1)	12-May-10	10:21:53	Conowingo Tailrace Units 1-7 Master	17	A	72	1	12-May-10	10:21:53		
54-141 (A1)	12-May-10	10:22:09	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	140	2	12-May-10	10:23:12	39657308	-76172818
54-141 (A1)	12-May-10	10:41:01	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	112	4	12-May-10	10:44:00	39657308	-76172818
54-141 (A1)	12-May-10	10:57:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	1	12-May-10	10:57:50	39656845	-76173035
54-141 (A1)	12-May-10	11:44:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	87	1	12-May-10	11:44:52	39656845	-76173035
54-141 (A1)	12-May-10	11:57:47	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	78	1	12-May-10	11:57:47	39656488	-76173233
54-141 (A1)	12-May-10	11:57:51	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	132	1	12-May-10	11:57:51	39656845	-76173035
54-141 (A1)	12-May-10	11:58:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	66	1	12-May-10	11:58:54	39657186	-76172854

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	12-May-10	12:05:03	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	86	1	12-May-10	12:05:03	39656845	-76173035
54-141 (A1)	12-May-10	12:11:54	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	113	1	12-May-10	12:11:54	39656488	-76173233
54-141 (A1)	12-May-10	12:11:58	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	146	1	12-May-10	12:11:58	39656845	-76173035
54-141 (A1)	12-May-10	12:12:03	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	98	3	12-May-10	12:14:24	39657186	-76172854
54-141 (A1)	12-May-10	12:19:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	123	1	12-May-10	12:19:00	39656845	-76173035
54-141 (A1)	12-May-10	12:21:26	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	3	12-May-10	12:23:58	39656845	-76173035
54-141 (A1)	12-May-10	12:22:36	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	101	2	12-May-10	12:23:53	39656488	-76173233
54-141 (A1)	12-May-10	12:22:49	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	64	1	12-May-10	12:22:49	39657186	-76172854
54-141 (A1)	12-May-10	12:23:43	Conowingo Tailrace Units 1-7 Master	17	A	74	1	12-May-10	12:23:43		
54-141 (A1)	12-May-10	12:25:06	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	76	1	12-May-10	12:25:06	39656015	-76173489
54-141 (A1)	12-May-10	12:27:51	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	83	3	12-May-10	12:30:24	39656845	-76173035
54-141 (A1)	12-May-10	12:29:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	104	2	12-May-10	12:30:19	39656488	-76173233
54-141 (A1)	12-May-10	12:29:11	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	168	2	12-May-10	12:30:29	39657186	-76172854
54-141 (A1)	12-May-10	12:30:27	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	149	1	12-May-10	12:30:27	39657308	-76172818
54-141 (A1)	12-May-10	12:31:33	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	97	3	12-May-10	12:34:06	39656488	-76173233
54-141 (A1)	12-May-10	12:31:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	161	4	12-May-10	12:35:27	39656845	-76173035
54-141 (A1)	12-May-10	12:31:43	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	155	3	12-May-10	12:35:32	39657186	-76172854
54-141 (A1)	12-May-10	12:32:43	Conowingo Tailrace Units 1-7 Master	17	A	78	1	12-May-10	12:32:43		
54-141 (A1)	12-May-10	12:36:37	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	132	4	12-May-10	12:40:05	39656845	-76173035
54-141 (A1)	12-May-10	12:36:41	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	164	3	12-May-10	12:40:10	39657186	-76172854
54-141 (A1)	12-May-10	12:37:19	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	109	2	12-May-10	12:39:13	39657308	-76172818
54-141 (A1)	12-May-10	12:37:23	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	81	3	12-May-10	12:39:17	39657480	-76172724
54-141 (A1)	12-May-10	12:37:38	Conowingo Tailrace Units 1-7 Master	17	A	85	1	12-May-10	12:37:38		
54-141 (A1)	12-May-10	12:40:11	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	178	1	12-May-10	12:40:11	39657308	-76172818
54-141 (A1)	12-May-10	12:41:13	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	95	3	12-May-10	12:43:44	39656488	-76173233
54-141 (A1)	12-May-10	12:41:17	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	132	3	12-May-10	12:45:00	39656845	-76173035
54-141 (A1)	12-May-10	12:41:23	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	144	2	12-May-10	12:45:06	39657186	-76172854
54-141 (A1)	12-May-10	12:46:14	Conowingo Tailrace Units 1-7 Master	17	A	142	1	12-May-10	12:46:14		
54-141 (A1)	12-May-10	12:46:19	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	84	1	12-May-10	12:46:19	39656015	-76173489
54-141 (A1)	12-May-10	12:46:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	181	1	12-May-10	12:46:22	39656488	-76173233
54-141 (A1)	12-May-10	12:46:26	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	142	3	12-May-10	12:50:16	39656845	-76173035
54-141 (A1)	12-May-10	12:46:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	138	4	12-May-10	12:50:20	39657186	-76172854
54-141 (A1)	12-May-10	12:48:45	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	110	1	12-May-10	12:48:45	39657480	-76172724
54-141 (A1)	12-May-10	12:49:42	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	129	1	12-May-10	12:49:42	39657308	-76172818
54-141 (A1)	12-May-10	12:50:42	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	119	4	12-May-10	12:54:42	39657308	-76172818
54-141 (A1)	12-May-10	12:51:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	60	1	12-May-10	12:51:22	39656488	-76173233
54-141 (A1)	12-May-10	12:51:26	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	122	4	12-May-10	12:55:06	39656845	-76173035
54-141 (A1)	12-May-10	12:51:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	147	4	12-May-10	12:55:10	39657186	-76172854
54-141 (A1)	12-May-10	12:53:39	Conowingo Tailrace Units 1-7 Master	17	A	102	1	12-May-10	12:53:39		
54-141 (A1)	12-May-10	12:55:41	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	157	1	12-May-10	12:55:41	39657308	-76172818
54-141 (A1)	12-May-10	12:56:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	111	4	12-May-10	13:00:19	39656845	-76173035
54-141 (A1)	12-May-10	12:56:28	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	113	3	12-May-10	13:00:24	39657186	-76172854
54-141 (A1)	12-May-10	12:57:33	Conowingo Tailrace Units 1-7 Master	17	A	116	1	12-May-10	12:57:33		
54-141 (A1)	12-May-10	12:57:40	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	65	1	12-May-10	12:57:40	39656488	-76173233
54-141 (A1)	12-May-10	13:00:24	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	127	2	12-May-10	13:01:27	39657308	-76172818
54-141 (A1)	12-May-10	13:01:40	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	156	3	12-May-10	13:04:05	39657186	-76172854
54-141 (A1)	12-May-10	13:04:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	85	2	12-May-10	13:05:08	39656845	-76173035
54-141 (A1)	12-May-10	13:06:16	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	135	2	12-May-10	13:09:12	39657480	-76172724
54-141 (A1)	12-May-10	13:06:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	165	4	12-May-10	13:10:22	39657186	-76172854
54-141 (A1)	12-May-10	13:07:09	Conowingo Tailrace Units 8-11 Master	7	A	103	1	12-May-10	13:07:09		
54-141 (A1)	12-May-10	13:07:13	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	135	2	12-May-10	13:09:08	39657308	-76172818
54-141 (A1)	12-May-10	13:08:58	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	149	1	12-May-10	13:08:58	39656845	-76173035
54-141 (A1)	12-May-10	13:10:05	Conowingo Tailrace Units 1-7 Master	17	A	58	1	12-May-10	13:10:05		
54-141 (A1)	12-May-10	13:10:11	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	153	3	12-May-10	13:13:03	39657308	-76172818
54-141 (A1)	12-May-10	13:10:15	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	121	2	12-May-10	13:12:09	39657480	-76172724
54-141 (A1)	12-May-10	13:11:35	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	184	4	12-May-10	13:15:16	39657186	-76172854
54-141 (A1)	12-May-10	13:13:47	Conowingo Tailrace Units 1-7 Master	17	A	108	1	12-May-10	13:13:47		
54-141 (A1)	12-May-10	13:14:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	151	1	12-May-10	13:14:00	39656845	-76173035
54-141 (A1)	12-May-10	13:16:14	Conowingo Tailrace Units 1-7 Master	17	A	72	1	12-May-10	13:16:14		
54-141 (A1)	12-May-10	13:16:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	135	3	12-May-10	13:20:02	39656488	-76173233



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	12-May-10	13:16:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	124	3	12-May-10	13:18:57	39656845	-76173035
54-141 (A1)	12-May-10	13:16:33	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	148	1	12-May-10	13:16:33	39657186	-76172854
54-141 (A1)	12-May-10	13:18:50	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	99	1	12-May-10	13:18:50	39656015	-76173489
54-141 (A1)	12-May-10	13:22:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	121	2	12-May-10	13:26:08	39656488	-76173233
54-141 (A1)	12-May-10	13:22:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	155	2	12-May-10	13:24:56	39656845	-76173035
54-141 (A1)	12-May-10	13:22:33	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	136	3	12-May-10	13:25:01	39657186	-76172854
54-141 (A1)	12-May-10	13:24:40	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	118	1	12-May-10	13:24:40	39657308	-76172818
54-141 (A1)	12-May-10	13:27:17	Conowingo Tailrace Units 1-7 Master	17	A	83	2	12-May-10	13:28:32		
54-141 (A1)	12-May-10	13:27:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	149	2	12-May-10	13:28:40	39656488	-76173233
54-141 (A1)	12-May-10	13:27:30	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	176	3	12-May-10	13:29:57	39656845	-76173035
54-141 (A1)	12-May-10	13:28:36	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	87	1	12-May-10	13:28:36	39656015	-76173489
54-141 (A1)	12-May-10	13:28:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	142	2	12-May-10	13:30:02	39657186	-76172854
54-141 (A1)	12-May-10	13:29:19	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	107	1	12-May-10	13:29:19	39657308	-76172818
54-141 (A1)	12-May-10	13:32:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	107	4	12-May-10	13:35:58	39656845	-76173035
54-141 (A1)	12-May-10	13:32:29	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	128	3	12-May-10	13:36:03	39657186	-76172854
54-141 (A1)	12-May-10	13:35:00	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	149	1	12-May-10	13:35:00	39657308	-76172818
54-141 (A1)	12-May-10	13:35:58	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	125	1	12-May-10	13:35:58	39657308	-76172818
54-141 (A1)	12-May-10	13:37:12	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	81	1	12-May-10	13:37:12	39657186	-76172854
54-141 (A1)	12-May-10	13:58:43	Rowland Island East (Near-Field)	1	1	97	5	12-May-10	14:01:20	39654615	-76164570
54-141 (A1)	12-May-10	13:59:58	Rowland Island West (Near-Field)	1	A	62	2	12-May-10	14:01:43	39652629	-76168481
54-141 (A1)	12-May-10	14:02:44	Rowland Island East (Near-Field)	1	1	69	5	12-May-10	14:11:13	39654615	-76164570
54-141 (A1)	12-May-10	14:03:57	Rowland Island West (Near-Field)	1	A	72	2	12-May-10	14:05:37	39652629	-76168481
54-141 (A1)	12-May-10	14:48:08	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	70	2	12-May-10	14:50:27	39656488	-76173233
54-141 (A1)	12-May-10	14:52:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	88	2	12-May-10	14:53:50	39656845	-76173035
54-141 (A1)	12-May-10	14:55:02	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	60	1	12-May-10	14:55:02	39657186	-76172854
54-141 (A1)	12-May-10	14:57:11	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	108	2	12-May-10	14:58:09	39657308	-76172818
54-141 (A1)	12-May-10	14:57:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	117	2	12-May-10	14:59:40	39657186	-76172854
54-141 (A1)	12-May-10	14:58:27	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	131	2	12-May-10	14:59:36	39656845	-76173035
54-141 (A1)	12-May-10	15:07:39	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	73	2	12-May-10	15:11:12	39656845	-76173035
54-141 (A1)	12-May-10	15:11:17	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	73	1	12-May-10	15:11:17	39657186	-76172854
54-141 (A1)	12-May-10	15:12:16	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	82	2	12-May-10	15:14:34	39656488	-76173233
54-141 (A1)	12-May-10	15:12:21	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	75	1	12-May-10	15:12:21	39656845	-76173035
54-141 (A1)	12-May-10	15:16:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	107	4	12-May-10	15:20:32	39656845	-76173035
54-141 (A1)	12-May-10	15:16:55	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	134	3	12-May-10	15:20:38	39657186	-76172854
54-141 (A1)	12-May-10	15:17:54	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	128	1	12-May-10	15:17:54	39657308	-76172818
54-141 (A1)	12-May-10	15:18:03	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	92	1	12-May-10	15:18:03	39656488	-76173233
54-141 (A1)	12-May-10	15:22:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	4	12-May-10	15:26:30	39656845	-76173035
54-141 (A1)	12-May-10	15:23:53	Conowingo Tailrace Units 1-7 Master	17	A	129	1	12-May-10	15:23:53		
54-141 (A1)	12-May-10	15:24:01	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	147	3	12-May-10	15:26:25	39656488	-76173233
54-141 (A1)	12-May-10	15:24:12	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	185	1	12-May-10	15:24:12	39657186	-76172854
54-141 (A1)	12-May-10	15:26:20	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	99	1	12-May-10	15:26:20	39656015	-76173489
54-141 (A1)	12-May-10	15:26:39	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	83	3	12-May-10	15:31:12	39657186	-76172854
54-141 (A1)	12-May-10	15:28:40	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	89	2	12-May-10	15:31:00	39656015	-76173489
54-141 (A1)	12-May-10	15:28:44	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	165	1	12-May-10	15:28:44	39656488	-76173233
54-141 (A1)	12-May-10	15:28:49	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	131	2	12-May-10	15:31:07	39656845	-76173035
54-141 (A1)	12-May-10	15:29:47	Conowingo Tailrace Units 1-7 Master	17	A	98	2	12-May-10	15:30:54		
54-141 (A1)	12-May-10	15:32:14	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	91	3	12-May-10	15:34:21	39656488	-76173233
54-141 (A1)	12-May-10	15:32:19	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	165	3	12-May-10	15:36:34	39656845	-76173035
54-141 (A1)	12-May-10	15:33:11	Conowingo Tailrace Units 1-7 Master	17	A	127	3	12-May-10	15:36:22		
54-141 (A1)	12-May-10	15:33:16	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	95	1	12-May-10	15:33:16	39656015	-76173489
54-141 (A1)	12-May-10	15:33:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	153	3	12-May-10	15:36:40	39657186	-76172854
54-141 (A1)	12-May-10	15:37:29	Conowingo Tailrace Units 1-7 Master	17	A	119	1	12-May-10	15:37:29		
54-141 (A1)	12-May-10	15:37:33	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	99	2	12-May-10	15:40:36	39656015	-76173489
54-141 (A1)	12-May-10	15:37:37	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	148	3	12-May-10	15:40:40	39656488	-76173233
54-141 (A1)	12-May-10	15:37:41	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	199	1	12-May-10	15:37:41	39656845	-76173035
54-141 (A1)	12-May-10	15:37:45	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	90	2	12-May-10	15:40:46	39657186	-76172854
54-141 (A1)	12-May-10	15:42:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	107	2	12-May-10	15:45:28	39656845	-76173035
54-141 (A1)	12-May-10	15:46:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	50	1	12-May-10	15:46:27	39657186	-76172854
54-141 (A1)	12-May-10	16:03:03	Rowland Island West (Near-Field)	1	A	121	5	12-May-10	16:06:51	39652629	-76168481
54-141 (A1)	12-May-10	16:22:32	Rowland Island West (Near-Field)	1	A	78	2	12-May-10	16:30:49	39652629	-76168481

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	12-May-10	16:32:51	Rowland Island West (Near-Field)	1	A	100	9	12-May-10	16:42:04	39652629	-76168481
54-141 (A1)	12-May-10	16:42:30	Rowland Island West (Near-Field)	1	A	83	8	12-May-10	16:50:52	39652629	-76168481
54-141 (A1)	12-May-10	17:00:38	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	82	1	12-May-10	17:00:38	39656015	-76173489
54-141 (A1)	12-May-10	17:02:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	97	3	12-May-10	17:06:58	39656845	-76173035
54-141 (A1)	12-May-10	17:07:53	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	106	3	12-May-10	17:09:52	39656488	-76173233
54-141 (A1)	12-May-10	17:08:56	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	184	1	12-May-10	17:08:56	39656845	-76173035
54-141 (A1)	12-May-10	17:09:01	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	103	3	12-May-10	17:11:58	39657186	-76172854
54-141 (A1)	12-May-10	17:10:54	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	90	1	12-May-10	17:10:54	39657308	-76172818
54-141 (A1)	12-May-10	17:10:57	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	68	1	12-May-10	17:10:57	39657480	-76172724
54-141 (A1)	12-May-10	17:11:53	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	115	2	12-May-10	17:13:49	39657308	-76172818
54-141 (A1)	12-May-10	17:11:57	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	141	1	12-May-10	17:11:57	39657480	-76172724
54-141 (A1)	12-May-10	17:13:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	173	4	12-May-10	17:16:15	39657186	-76172854
54-141 (A1)	12-May-10	17:13:50	Conowingo Tailrace Units 1-7 Master	17	A	90	2	12-May-10	17:14:57		
54-141 (A1)	12-May-10	17:13:57	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	106	2	12-May-10	17:15:04	39656488	-76173233
54-141 (A1)	12-May-10	17:14:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	160	3	12-May-10	17:16:10	39656845	-76173035
54-141 (A1)	12-May-10	17:16:44	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	80	1	12-May-10	17:16:44	39657480	-76172724
54-141 (A1)	12-May-10	17:17:12	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	115	4	12-May-10	17:22:09	39656845	-76173035
54-141 (A1)	12-May-10	17:17:39	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	104	1	12-May-10	17:17:39	39657308	-76172818
54-141 (A1)	12-May-10	17:18:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	106	1	12-May-10	17:18:16	39657186	-76172854
54-141 (A1)	12-May-10	17:22:06	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	90	1	12-May-10	17:22:06	39656488	-76173233
54-141 (A1)	12-May-10	17:22:13	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	91	1	12-May-10	17:22:13	39657186	-76172854
54-141 (A1)	12-May-10	17:24:13	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	89	1	12-May-10	17:24:13	39656488	-76173233
54-141 (A1)	12-May-10	17:27:11	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	64	1	12-May-10	17:27:11	39656015	-76173489
54-141 (A1)	12-May-10	17:27:15	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	71	1	12-May-10	17:27:15	39656488	-76173233
54-141 (A1)	12-May-10	17:27:18	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	142	4	12-May-10	17:31:26	39656845	-76173035
54-141 (A1)	12-May-10	17:27:22	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	110	5	12-May-10	17:31:30	39657186	-76172854
54-141 (A1)	12-May-10	17:29:14	Conowingo Tailrace Units 1-7 Master	17	A	67	2	12-May-10	17:30:17		
54-141 (A1)	12-May-10	17:29:58	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	117	1	12-May-10	17:29:58	39657308	-76172818
54-141 (A1)	12-May-10	17:32:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	145	5	12-May-10	17:36:43	39657186	-76172854
54-141 (A1)	12-May-10	17:33:30	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	109	1	12-May-10	17:33:30	39656845	-76173035
54-141 (A1)	12-May-10	17:33:42	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	105	3	12-May-10	17:35:38	39657308	-76172818
54-141 (A1)	12-May-10	17:33:46	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	120	2	12-May-10	17:34:43	39657480	-76172724
54-141 (A1)	12-May-10	17:35:28	Conowingo Tailrace Units 1-7 Master	17	A	51	1	12-May-10	17:35:28		
54-141 (A1)	12-May-10	17:35:34	Conowingo Tailrace Units 8-11 Master	7	A	72	1	12-May-10	17:35:34		
54-141 (A1)	12-May-10	17:37:39	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	110	3	12-May-10	17:40:28	39657308	-76172818
54-141 (A1)	12-May-10	17:37:45	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	99	4	12-May-10	17:41:00	39656845	-76173035
54-141 (A1)	12-May-10	17:37:55	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	145	4	12-May-10	17:42:14	39657186	-76172854
54-141 (A1)	12-May-10	17:41:24	Conowingo Tailrace Units 8-11 Master	7	A	133	1	12-May-10	17:41:24		
54-141 (A1)	12-May-10	17:43:14	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	160	4	12-May-10	17:46:22	39656845	-76173035
54-141 (A1)	12-May-10	17:43:18	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	165	4	12-May-10	17:46:26	39657186	-76172854
54-141 (A1)	12-May-10	17:44:13	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	55	1	12-May-10	17:44:13	39656488	-76173233
54-141 (A1)	12-May-10	17:44:14	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	104	1	12-May-10	17:44:14	39657308	-76172818
54-141 (A1)	12-May-10	17:47:28	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	70	1	12-May-10	17:47:28	39657186	-76172854
54-141 (A1)	12-May-10	17:48:19	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	172	3	12-May-10	17:50:24	39656488	-76173233
54-141 (A1)	12-May-10	17:48:23	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	162	4	12-May-10	17:51:26	39656845	-76173035
54-141 (A1)	12-May-10	17:50:16	Conowingo Tailrace Units 1-7 Master	17	A	109	3	12-May-10	17:52:19		
54-141 (A1)	12-May-10	17:50:20	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	63	1	12-May-10	17:50:20	39656015	-76173489
54-141 (A1)	12-May-10	17:52:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	147	2	12-May-10	17:56:40	39656845	-76173035
54-141 (A1)	12-May-10	17:52:32	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	140	5	12-May-10	17:56:44	39657186	-76172854
54-141 (A1)	12-May-10	17:53:22	Conowingo Tailrace Units 1-7 Master	17	A	96	1	12-May-10	17:53:22		
54-141 (A1)	12-May-10	17:53:30	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	126	2	12-May-10	17:56:18	39657480	-76172724
54-141 (A1)	12-May-10	17:54:20	Conowingo Tailrace Units 8-11 Master	7	A	80	1	12-May-10	17:54:20		
54-141 (A1)	12-May-10	17:55:19	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	105	1	12-May-10	17:55:19	39657308	-76172818
54-141 (A1)	12-May-10	17:56:22	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	107	1	12-May-10	17:56:22	39657674	-76172621
54-141 (A1)	12-May-10	17:57:41	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	135	3	12-May-10	18:00:40	39656845	-76173035
54-141 (A1)	12-May-10	17:57:44	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	93	3	12-May-10	17:59:46	39657186	-76172854
54-141 (A1)	12-May-10	17:58:40	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	112	2	12-May-10	17:59:38	39656488	-76173233
54-141 (A1)	12-May-10	17:59:34	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	71	1	12-May-10	17:59:34	39656015	-76173489
54-141 (A1)	12-May-10	18:00:01	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	100	1	12-May-10	18:00:01	39657308	-76172818
54-141 (A1)	12-May-10	18:10:52	Rowland Island West (Near-Field)	1	A	128	4	12-May-10	18:12:10	39652629	-76168481



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	12-May-10	18:12:37	Rowland Island West (Near-Field)	1	A	119	4	12-May-10	18:16:06	39652629	-76168481
54-141 (A1)	13-May-10	2:19:03	Rowland Island West (Near-Field)	1	A	83	4	13-May-10	2:22:49	39652629	-76168481
54-141 (A1)	13-May-10	2:24:04	Rowland Island West (Near-Field)	1	A	111	12	13-May-10	2:32:32	39652629	-76168481
54-141 (A1)	13-May-10	2:33:23	Rowland Island West (Near-Field)	1	A	102	1	13-May-10	2:33:23	39652629	-76168481
54-141 (A1)	13-May-10	2:38:19	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	98	1	13-May-10	2:38:19	39656845	-76173035
54-141 (A1)	13-May-10	2:38:23	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	57	1	13-May-10	2:38:23	39657186	-76172854
54-141 (A1)	13-May-10	2:41:03	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	93	2	13-May-10	2:42:00	39656488	-76173233
54-141 (A1)	13-May-10	2:41:56	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	91	1	13-May-10	2:41:56	39656015	-76173489
54-141 (A1)	13-May-10	2:48:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	115	1	13-May-10	2:48:31	39657186	-76172854
54-141 (A1)	13-May-10	2:49:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	129	3	13-May-10	2:53:14	39656845	-76173035
54-141 (A1)	13-May-10	2:52:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	104	2	13-May-10	2:53:10	39656488	-76173233
54-141 (A1)	13-May-10	2:53:04	Conowingo Tailrace Units 1-7 Master	17	A	83	1	13-May-10	2:53:04		
54-141 (A1)	13-May-10	2:53:18	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	122	1	13-May-10	2:53:18	39657186	-76172854
54-141 (A1)	13-May-10	2:54:09	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	130	5	13-May-10	2:58:57	39656488	-76173233
54-141 (A1)	13-May-10	2:55:09	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	188	4	13-May-10	2:59:01	39656845	-76173035
54-141 (A1)	13-May-10	2:55:13	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	126	3	13-May-10	2:59:05	39657186	-76172854
54-141 (A1)	13-May-10	2:55:58	Conowingo Tailrace Units 1-7 Master	17	A	91	2	13-May-10	2:58:50		
54-141 (A1)	13-May-10	2:59:50	Conowingo Tailrace Units 1-7 Master	17	A	105	2	13-May-10	3:01:47		
54-141 (A1)	13-May-10	2:59:56	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	109	4	13-May-10	3:03:51	39656488	-76173233
54-141 (A1)	13-May-10	3:00:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	173	5	13-May-10	3:03:55	39656845	-76173035
54-141 (A1)	13-May-10	3:00:04	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	135	3	13-May-10	3:03:00	39657186	-76172854
54-141 (A1)	13-May-10	3:04:48	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	146	3	13-May-10	3:07:38	39656488	-76173233
54-141 (A1)	13-May-10	3:04:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	150	4	13-May-10	3:08:40	39656845	-76173035
54-141 (A1)	13-May-10	3:07:46	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	76	1	13-May-10	3:07:46	39657186	-76172854
54-141 (A1)	13-May-10	3:08:31	Conowingo Tailrace Units 1-7 Master	17	A	80	1	13-May-10	3:08:31		
54-141 (A1)	13-May-10	3:09:36	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	188	2	13-May-10	3:10:33	39656845	-76173035
54-141 (A1)	13-May-10	3:09:40	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	165	2	13-May-10	3:10:37	39657186	-76172854
54-141 (A1)	13-May-10	3:11:28	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	69	1	13-May-10	3:11:28	39656488	-76173233
54-141 (A1)	13-May-10	3:14:14	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	4	13-May-10	3:17:11	39656488	-76173233
54-141 (A1)	13-May-10	3:14:18	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	152	2	13-May-10	3:16:16	39656845	-76173035
54-141 (A1)	13-May-10	3:14:22	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	168	2	13-May-10	3:15:21	39657186	-76172854
54-141 (A1)	13-May-10	3:15:08	Conowingo Tailrace Units 1-7 Master	17	A	88	1	13-May-10	3:15:08		
54-141 (A1)	13-May-10	3:21:53	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	96	1	13-May-10	3:21:53	39656845	-76173035
54-141 (A1)	13-May-10	3:50:52	Rowland Island West (Near-Field)	1	A	119	2	13-May-10	3:52:56	39652629	-76168481
54-141 (A1)	13-May-10	3:53:22	Rowland Island West (Near-Field)	1	A	167	25	13-May-10	4:02:53	39652629	-76168481
54-141 (A1)	13-May-10	4:03:46	Rowland Island West (Near-Field)	1	A	125	18	13-May-10	4:12:57	39652629	-76168481
54-141 (A1)	13-May-10	4:13:48	Rowland Island West (Near-Field)	1	A	120	11	13-May-10	4:22:21	39652629	-76168481
54-141 (A1)	13-May-10	4:23:12	Rowland Island West (Near-Field)	1	A	120	19	13-May-10	4:32:48	39652629	-76168481
54-141 (A1)	13-May-10	4:33:14	Rowland Island West (Near-Field)	1	A	114	19	13-May-10	4:42:32	39652629	-76168481
54-141 (A1)	13-May-10	4:43:24	Rowland Island West (Near-Field)	1	A	134	16	13-May-10	4:52:54	39652629	-76168481
54-141 (A1)	13-May-10	4:53:20	Rowland Island West (Near-Field)	1	A	121	18	13-May-10	5:02:57	39652629	-76168481
54-141 (A1)	13-May-10	5:03:26	Rowland Island West (Near-Field)	1	A	126	16	13-May-10	5:13:04	39652629	-76168481
54-141 (A1)	13-May-10	5:13:57	Rowland Island West (Near-Field)	1	A	118	6	13-May-10	5:20:48	39652629	-76168481
54-141 (A1)	13-May-10	5:24:15	Rowland Island West (Near-Field)	1	A	84	3	13-May-10	5:26:01	39652629	-76168481
54-141 (A1)	13-May-10	5:25:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	113	1	13-May-10	5:25:58	39657186	-76172854
54-141 (A1)	13-May-10	5:32:35	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	63	1	13-May-10	5:32:35	39656488	-76173233
54-141 (A1)	13-May-10	5:35:35	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	95	2	13-May-10	5:38:32	39656845	-76173035
54-141 (A1)	13-May-10	5:40:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	132	5	13-May-10	5:44:40	39656845	-76173035
54-141 (A1)	13-May-10	5:40:38	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	111	2	13-May-10	5:42:40	39657186	-76172854
54-141 (A1)	13-May-10	5:41:30	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	100	3	13-May-10	5:44:35	39656488	-76173233
54-141 (A1)	13-May-10	5:45:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	140	3	13-May-10	5:48:57	39657186	-76172854
54-141 (A1)	13-May-10	5:46:36	Conowingo Tailrace Units 1-7 Master	17	A	125	2	13-May-10	5:48:39		
54-141 (A1)	13-May-10	5:46:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	170	3	13-May-10	5:48:52	39656845	-76173035
54-141 (A1)	13-May-10	5:47:43	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	122	2	13-May-10	5:48:47	39656488	-76173233
54-141 (A1)	13-May-10	5:49:48	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	109	2	13-May-10	5:52:54	39656488	-76173233
54-141 (A1)	13-May-10	5:49:56	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	120	4	13-May-10	5:54:00	39657186	-76172854
54-141 (A1)	13-May-10	5:50:43	Conowingo Tailrace Units 1-7 Master	17	A	113	3	13-May-10	5:54:46		
54-141 (A1)	13-May-10	5:50:53	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	151	3	13-May-10	5:52:58	39656845	-76173035
54-141 (A1)	13-May-10	5:54:55	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	143	3	13-May-10	5:57:56	39656845	-76173035
54-141 (A1)	13-May-10	5:55:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	155	4	13-May-10	5:58:00	39657186	-76172854

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	13-May-10	5:55:48	Conowingo Tailrace Units 1-7 Master	17	A	129	1	13-May-10	5:55:48		
54-141 (A1)	13-May-10	5:57:22	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	100	1	13-May-10	5:57:22	39657308	-76172818
54-141 (A1)	13-May-10	5:59:50	"A" Gate Aerial	4	0	58	1	13-May-10	5:59:50	39658424	-76174012
54-141 (A1)	13-May-10	5:59:57	"A" Gate Aerial	4	0	79	1	13-May-10	5:59:57	39658424	-76174012
54-141 (A1)	13-May-10	6:02:57	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	135	1	13-May-10	6:02:57	39657480	-76172724
54-141 (A1)	13-May-10	6:03:33	"A" Gate Aerial	4	0	84	1	13-May-10	6:03:33	39658424	-76174012
54-141 (A1)	13-May-10	6:03:57	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	122	2	13-May-10	6:06:44	39657674	-76172621
54-141 (A1)	13-May-10	6:05:47	"A" Gate Aerial	4	0	60	1	13-May-10	6:05:47	39658424	-76174012
54-141 (A1)	13-May-10	6:06:07	"A" Gate Aerial	4	0	53	1	13-May-10	6:06:07	39658424	-76174012
54-141 (A1)	13-May-10	6:06:33	"A" Gate Aerial	4	0	71	1	13-May-10	6:06:33	39658424	-76174012
54-141 (A1)	13-May-10	6:06:53	"A" Gate Aerial	4	0	72	1	13-May-10	6:06:53	39658424	-76174012
54-141 (A1)	13-May-10	6:08:30	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	83	1	13-May-10	6:08:30	39657308	-76172818
54-141 (A1)	13-May-10	6:08:34	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	136	1	13-May-10	6:08:34	39657480	-76172724
54-141 (A1)	13-May-10	6:11:17	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	118	1	13-May-10	6:11:17	39657308	-76172818
54-141 (A1)	13-May-10	6:12:43	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	172	3	13-May-10	6:14:47	39657186	-76172854
54-141 (A1)	13-May-10	6:13:38	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	96	1	13-May-10	6:13:38	39656488	-76173233
54-141 (A1)	13-May-10	6:13:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	195	2	13-May-10	6:14:42	39656845	-76173035
54-141 (A1)	13-May-10	6:14:33	Conowingo Tailrace Units 1-7 Master	17	A	112	1	13-May-10	6:14:33		
54-141 (A1)	13-May-10	6:15:34	Conowingo Tailrace Units 1-7 Master	17	A	111	2	13-May-10	6:16:34		
54-141 (A1)	13-May-10	6:15:40	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	167	4	13-May-10	6:19:36	39656488	-76173233
54-141 (A1)	13-May-10	6:15:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	137	2	13-May-10	6:17:48	39657186	-76172854
54-141 (A1)	13-May-10	6:16:45	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	151	3	13-May-10	6:19:40	39656845	-76173035
54-141 (A1)	13-May-10	6:17:37	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	100	1	13-May-10	6:17:37	39656015	-76173489
54-141 (A1)	13-May-10	6:20:35	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	161	4	13-May-10	6:24:38	39656488	-76173233
54-141 (A1)	13-May-10	6:20:39	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	139	5	13-May-10	6:24:43	39656845	-76173035
54-141 (A1)	13-May-10	6:23:35	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	154	1	13-May-10	6:23:35	39656015	-76173489
54-141 (A1)	13-May-10	6:25:36	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	58	1	13-May-10	6:25:36	39656015	-76173489
54-141 (A1)	13-May-10	6:25:40	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	183	1	13-May-10	6:25:40	39656488	-76173233
54-141 (A1)	13-May-10	6:25:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	130	3	13-May-10	6:27:43	39656845	-76173035
54-141 (A1)	13-May-10	6:26:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	91	1	13-May-10	6:26:48	39657186	-76172854
54-141 (A1)	13-May-10	6:32:25	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	104	1	13-May-10	6:32:25	39656488	-76173233
54-141 (A1)	13-May-10	6:34:25	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	81	1	13-May-10	6:34:25	39656845	-76173035
54-141 (A1)	13-May-10	6:35:23	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	100	1	13-May-10	6:35:23	39656845	-76173035
54-141 (A1)	13-May-10	6:58:36	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	58	1	13-May-10	6:58:36	39657186	-76172854
54-141 (A1)	13-May-10	7:29:29	Rowland Island West (Near-Field)	1	A	82	6	13-May-10	7:33:17	39652629	-76168481
54-141 (A1)	13-May-10	7:41:42	Rowland Island West (Near-Field)	1	A	108	3	13-May-10	7:43:32	39652629	-76168481
54-141 (A1)	13-May-10	7:51:36	Rowland Island West (Near-Field)	1	A	89	1	13-May-10	7:51:36	39652629	-76168481
54-141 (A1)	13-May-10	7:54:20	Rowland Island West (Near-Field)	1	A	75	1	13-May-10	7:54:20	39652629	-76168481
54-141 (A1)	13-May-10	9:17:06	Rowland Island West (Near-Field)	1	A	56	1	13-May-10	9:17:06	39652629	-76168481
54-141 (A1)	13-May-10	9:24:22	Rowland Island West (Near-Field)	1	A	88	4	13-May-10	9:31:51	39652629	-76168481
54-141 (A1)	13-May-10	9:34:01	Rowland Island West (Near-Field)	1	A	92	6	13-May-10	9:43:35	39652629	-76168481
54-141 (A1)	13-May-10	9:44:03	Rowland Island West (Near-Field)	1	A	86	4	13-May-10	9:49:13	39652629	-76168481
54-141 (A1)	13-May-10	9:55:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	90	1	13-May-10	9:55:38	39656845	-76173035
54-141 (A1)	13-May-10	10:05:33	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	82	1	13-May-10	10:05:33	39657186	-76172854
54-141 (A1)	13-May-10	10:10:55	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	92	1	13-May-10	10:10:55	39657186	-76172854
54-141 (A1)	13-May-10	10:11:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	129	1	13-May-10	10:11:52	39656845	-76173035
54-141 (A1)	13-May-10	10:16:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	177	1	13-May-10	10:16:00	39656488	-76173233
54-141 (A1)	13-May-10	10:17:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	107	1	13-May-10	10:17:04	39656845	-76173035
54-141 (A1)	13-May-10	10:19:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	152	2	13-May-10	10:20:08	39656488	-76173233
54-141 (A1)	13-May-10	10:20:04	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	73	1	13-May-10	10:20:04	39656015	-76173489
54-141 (A1)	13-May-10	10:20:18	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	1	13-May-10	10:20:18	39657186	-76172854
54-141 (A1)	13-May-10	10:21:10	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	127	3	13-May-10	10:25:25	39656488	-76173233
54-141 (A1)	13-May-10	10:22:11	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	108	1	13-May-10	10:22:11	39656015	-76173489
54-141 (A1)	13-May-10	10:23:13	Conowingo Tailrace Units 1-7 Master	17	A	71	1	13-May-10	10:23:13		
54-141 (A1)	13-May-10	10:23:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	180	3	13-May-10	10:25:30	39656845	-76173035
54-141 (A1)	13-May-10	10:23:28	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	138	3	13-May-10	10:25:35	39657186	-76172854
54-141 (A1)	13-May-10	10:24:55	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	92	1	13-May-10	10:24:55	39657308	-76172818
54-141 (A1)	13-May-10	10:26:33	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	169	4	13-May-10	10:30:38	39656845	-76173035
54-141 (A1)	13-May-10	10:27:24	Conowingo Tailrace Units 1-7 Master	17	A	105	2	13-May-10	10:28:27		
54-141 (A1)	13-May-10	10:27:28	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	64	1	13-May-10	10:27:28	39656015	-76173489

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	13-May-10	10:28:34	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	77	2	13-May-10	10:30:34	39656488	-76173233
54-141 (A1)	13-May-10	10:29:40	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	142	2	13-May-10	10:30:42	39657186	-76172854
54-141 (A1)	13-May-10	10:31:36	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	124	5	13-May-10	10:35:51	39656488	-76173233
54-141 (A1)	13-May-10	10:31:46	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	73	1	13-May-10	10:31:46	39657186	-76172854
54-141 (A1)	13-May-10	10:32:41	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	127	1	13-May-10	10:32:41	39656845	-76173035
54-141 (A1)	13-May-10	10:33:32	Conowingo Tailrace Units 1-7 Master	17	A	73	1	13-May-10	10:33:32		
54-141 (A1)	13-May-10	10:35:47	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	123	1	13-May-10	10:35:47	39656015	-76173489
54-141 (A1)	13-May-10	10:36:58	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	143	4	13-May-10	10:40:20	39656845	-76173035
54-141 (A1)	13-May-10	10:37:04	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	99	3	13-May-10	10:40:26	39657186	-76172854
54-141 (A1)	13-May-10	10:38:01	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	102	3	13-May-10	10:40:15	39656488	-76173233
54-141 (A1)	13-May-10	10:41:27	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	110	3	13-May-10	10:45:41	39656845	-76173035
54-141 (A1)	13-May-10	10:42:27	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	79	3	13-May-10	10:44:34	39656488	-76173233
54-141 (A1)	13-May-10	10:43:37	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	99	2	13-May-10	10:44:41	39657186	-76172854
54-141 (A1)	13-May-10	10:44:27	Conowingo Tailrace Units 1-7 Master	17	A	74	1	13-May-10	10:44:27		
54-141 (A1)	13-May-10	10:46:40	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	2	13-May-10	10:47:47	39656488	-76173233
54-141 (A1)	13-May-10	10:46:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	92	2	13-May-10	10:48:50	39656845	-76173035
54-141 (A1)	13-May-10	10:46:50	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	94	2	13-May-10	10:47:56	39657186	-76172854
54-141 (A1)	13-May-10	10:49:44	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	102	2	13-May-10	10:50:45	39656015	-76173489
54-141 (A1)	13-May-10	10:51:51	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	150	1	13-May-10	10:51:51	39656488	-76173233
54-141 (A1)	13-May-10	10:51:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	92	1	13-May-10	10:51:58	39657186	-76172854
54-141 (A1)	13-May-10	10:56:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	173	1	13-May-10	10:56:04	39656845	-76173035
54-141 (A1)	13-May-10	10:58:06	Conowingo Tailrace Units 1-7 Master	17	A	74	1	13-May-10	10:58:06		
54-141 (A1)	13-May-10	11:01:32	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	99	1	13-May-10	11:01:32	39656015	-76173489
54-141 (A1)	13-May-10	11:01:47	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	142	2	13-May-10	11:04:04	39657186	-76172854
54-141 (A1)	13-May-10	11:05:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	174	1	13-May-10	11:05:05	39656488	-76173233
54-141 (A1)	13-May-10	11:06:12	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	89	1	13-May-10	11:06:12	39657308	-76172818
54-141 (A1)	13-May-10	11:09:37	Conowingo Tailrace Units 1-7 Master	17	A	84	1	13-May-10	11:09:37		
54-141 (A1)	13-May-10	11:14:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	161	1	13-May-10	11:14:23	39656488	-76173233
54-141 (A1)	13-May-10	11:15:22	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	69	1	13-May-10	11:15:22	39656015	-76173489
54-141 (A1)	13-May-10	11:16:34	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	123	1	13-May-10	11:16:34	39656488	-76173233
54-141 (A1)	13-May-10	11:17:41	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	105	1	13-May-10	11:17:41	39656015	-76173489
54-141 (A1)	13-May-10	11:24:41	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	106	1	13-May-10	11:24:41	39657308	-76172818
54-141 (A1)	13-May-10	11:24:45	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	132	1	13-May-10	11:24:45	39657480	-76172724
54-141 (A1)	13-May-10	11:25:50	"A" Gate Aerial	4	0	75	1	13-May-10	11:25:50	39658424	-76174012
54-141 (A1)	13-May-10	11:26:36	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	104	2	13-May-10	11:28:27	39657480	-76172724
54-141 (A1)	13-May-10	11:30:16	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	150	1	13-May-10	11:30:16	39657308	-76172818
54-141 (A1)	13-May-10	11:32:11	Conowingo Tailrace Units 1-7 Master	17	A	71	1	13-May-10	11:32:11		
54-141 (A1)	13-May-10	11:38:33	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	114	1	13-May-10	11:38:33	39657308	-76172818
54-141 (A1)	13-May-10	11:38:37	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	146	1	13-May-10	11:38:37	39657480	-76172724
54-141 (A1)	13-May-10	11:40:22	Conowingo Tailrace Units 8-11 Master	7	A	85	1	13-May-10	11:40:22		
54-141 (A1)	13-May-10	11:40:26	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	83	1	13-May-10	11:40:26	39657308	-76172818
54-141 (A1)	13-May-10	11:40:34	"A" Gate Aerial	4	0	65	1	13-May-10	11:40:34	39658424	-76174012
54-141 (A1)	13-May-10	11:42:35	"A" Gate Aerial	4	0	83	1	13-May-10	11:42:35	39658424	-76174012
54-141 (A1)	13-May-10	11:46:58	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	106	3	13-May-10	11:49:46	39657674	-76172621
54-141 (A1)	13-May-10	11:50:04	"A" Gate Aerial	4	0	66	1	13-May-10	11:50:04	39658424	-76174012
54-141 (A1)	13-May-10	11:50:39	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	107	1	13-May-10	11:50:39	39657480	-76172724
54-141 (A1)	13-May-10	11:51:38	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	114	1	13-May-10	11:51:38	39657674	-76172621
54-141 (A1)	13-May-10	12:09:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	103	1	13-May-10	12:09:52	39656845	-76173035
54-141 (A1)	13-May-10	12:13:15	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	57	1	13-May-10	12:13:15	39657186	-76172854
54-141 (A1)	13-May-10	12:19:43	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	111	1	13-May-10	12:19:43	39657186	-76172854
54-141 (A1)	13-May-10	12:23:06	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	83	1	13-May-10	12:23:06	39657308	-76172818
54-141 (A1)	13-May-10	12:25:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	115	1	13-May-10	12:25:02	39656845	-76173035
54-141 (A1)	13-May-10	12:30:13	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	96	1	13-May-10	12:30:13	39656488	-76173233
54-141 (A1)	13-May-10	12:31:29	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	98	2	13-May-10	12:33:32	39657186	-76172854
54-141 (A1)	13-May-10	12:40:49	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	115	1	13-May-10	12:40:49	39656845	-76173035
54-141 (A1)	13-May-10	12:44:08	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	133	4	13-May-10	12:47:21	39656488	-76173233
54-141 (A1)	13-May-10	12:45:05	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	102	2	13-May-10	12:48:25	39656015	-76173489
54-141 (A1)	13-May-10	12:49:42	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	77	3	13-May-10	12:52:51	39656488	-76173233
54-141 (A1)	13-May-10	12:53:01	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	171	2	13-May-10	12:53:58	39657186	-76172854
54-141 (A1)	13-May-10	12:53:54	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	108	1	13-May-10	12:53:54	39656845	-76173035



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	13-May-10	12:54:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	166	1	13-May-10	12:54:58	39657186	-76172854
54-141 (A1)	13-May-10	12:55:46	Conowingo Tailrace Units 1-7 Master	17	A	68	2	13-May-10	12:58:55		
54-141 (A1)	13-May-10	12:55:55	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	168	2	13-May-10	12:57:00	39656845	-76173035
54-141 (A1)	13-May-10	12:58:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	130	1	13-May-10	12:58:00	39656488	-76173233
54-141 (A1)	13-May-10	12:59:55	Conowingo Tailrace Units 1-7 Master	17	A	96	2	13-May-10	13:02:02		
54-141 (A1)	13-May-10	13:00:09	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	140	2	13-May-10	13:01:12	39657186	-76172854
54-141 (A1)	13-May-10	13:01:08	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	157	1	13-May-10	13:01:08	39656845	-76173035
54-141 (A1)	13-May-10	13:01:25	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	136	2	13-May-10	13:03:17	39657308	-76172818
54-141 (A1)	13-May-10	13:04:19	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	103	1	13-May-10	13:04:19	39657480	-76172724
54-141 (A1)	13-May-10	13:05:25	"A" Gate Aerial	4	0	58	1	13-May-10	13:05:25	39658424	-76174012
54-141 (A1)	13-May-10	13:06:12	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	146	1	13-May-10	13:06:12	39657480	-76172724
54-141 (A1)	13-May-10	13:08:00	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	122	4	13-May-10	13:10:49	39657308	-76172818
54-141 (A1)	13-May-10	13:10:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	116	2	13-May-10	13:11:31	39657186	-76172854
54-141 (A1)	13-May-10	13:12:46	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	78	1	13-May-10	13:12:46	39656764	-76172621
54-141 (A1)	13-May-10	13:16:22	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	89	2	13-May-10	13:17:23	39657308	-76172818
54-141 (A1)	13-May-10	13:16:26	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	141	1	13-May-10	13:16:26	39657480	-76172724
54-141 (A1)	13-May-10	13:17:19	Conowingo Tailrace Units 8-11 Master	7	A	124	1	13-May-10	13:17:19		
54-141 (A1)	13-May-10	13:18:57	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	53	1	13-May-10	13:18:57	39656015	-76173489
54-141 (A1)	13-May-10	13:20:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	96	2	13-May-10	13:21:19	39657186	-76172854
54-141 (A1)	13-May-10	13:21:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	213	1	13-May-10	13:21:13	39656845	-76173035
54-141 (A1)	13-May-10	13:27:50	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	84	1	13-May-10	13:27:50	39657186	-76172854
54-141 (A1)	13-May-10	13:28:39	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	56	1	13-May-10	13:28:39	39656015	-76173489
54-141 (A1)	13-May-10	13:28:43	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	168	1	13-May-10	13:28:43	39656488	-76173233
54-141 (A1)	13-May-10	13:31:02	Conowingo Tailrace Units 1-7 Master	17	A	95	2	13-May-10	13:32:11		
54-141 (A1)	13-May-10	13:31:09	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	99	1	13-May-10	13:31:09	39656488	-76173233
54-141 (A1)	13-May-10	13:36:08	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	82	1	13-May-10	13:36:08	39657308	-76172818
54-141 (A1)	13-May-10	15:29:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	106	1	13-May-10	15:29:06	39656845	-76173035
54-141 (A1)	13-May-10	18:26:35	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	81	1	13-May-10	18:26:35	39656845	-76173035
54-141 (A1)	13-May-10	18:29:47	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	122	2	13-May-10	18:30:51	39656015	-76173489
54-141 (A1)	13-May-10	18:29:50	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	128	1	13-May-10	18:29:50	39656488	-76173233
54-141 (A1)	13-May-10	18:31:54	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	129	5	13-May-10	18:36:08	39656015	-76173489
54-141 (A1)	13-May-10	18:31:58	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	129	3	13-May-10	18:35:10	39656488	-76173233
54-141 (A1)	13-May-10	18:34:07	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	86	1	13-May-10	18:34:07	39656845	-76173035
54-141 (A1)	13-May-10	18:38:19	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	123	1	13-May-10	18:38:19	39656845	-76173035
54-141 (A1)	13-May-10	18:39:20	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	139	2	13-May-10	18:40:23	39656488	-76173233
54-141 (A1)	13-May-10	18:40:19	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	155	1	13-May-10	18:40:19	39656015	-76173489
54-141 (A1)	13-May-10	18:41:21	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	153	2	13-May-10	18:42:22	39656015	-76173489
54-141 (A1)	13-May-10	18:42:26	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	122	2	13-May-10	18:43:27	39656488	-76173233
54-141 (A1)	13-May-10	18:42:30	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	85	2	13-May-10	18:43:31	39656845	-76173035
54-141 (A1)	13-May-10	18:49:20	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	79	2	13-May-10	18:50:23	39656488	-76173233
54-141 (A1)	13-May-10	18:51:27	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	129	4	13-May-10	18:55:54	39656488	-76173233
54-141 (A1)	13-May-10	18:51:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	87	1	13-May-10	18:51:34	39656845	-76173035
54-141 (A1)	13-May-10	18:56:53	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	166	3	13-May-10	19:01:01	39656015	-76173489
54-141 (A1)	13-May-10	18:57:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	142	2	13-May-10	19:01:05	39656488	-76173233
54-141 (A1)	13-May-10	18:57:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	96	4	13-May-10	19:01:10	39656845	-76173035
54-141 (A1)	13-May-10	19:02:03	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	140	2	13-May-10	19:03:04	39656015	-76173489
54-141 (A1)	13-May-10	19:02:07	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	106	2	13-May-10	19:04:10	39656488	-76173233
54-141 (A1)	13-May-10	19:10:30	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	199	1	13-May-10	19:10:30	39657186	-76172854
54-141 (A1)	13-May-10	19:12:27	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	150	2	13-May-10	19:15:47	39656845	-76173035
54-141 (A1)	13-May-10	19:13:26	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	129	3	13-May-10	19:15:42	39656488	-76173233
54-141 (A1)	13-May-10	19:15:32	Conowingo Tailrace Units 1-7 Master	17	A	82	1	13-May-10	19:15:32		
54-141 (A1)	13-May-10	19:15:36	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	146	1	13-May-10	19:15:36	39656015	-76173489
54-141 (A1)	13-May-10	19:16:38	Conowingo Tailrace Units 1-7 Master	17	A	120	2	13-May-10	19:17:47		
54-141 (A1)	13-May-10	19:16:42	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	88	2	13-May-10	19:19:51	39656015	-76173489
54-141 (A1)	13-May-10	19:16:49	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	127	2	13-May-10	19:20:58	39656488	-76173233
54-141 (A1)	13-May-10	19:16:56	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	65	1	13-May-10	19:16:56	39656845	-76173035
54-141 (A1)	13-May-10	19:22:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	152	2	13-May-10	19:26:10	39656845	-76173035
54-141 (A1)	13-May-10	19:24:40	Rowland Island West (Near-Field)	0	2	118	1	13-May-10	19:24:40	39652629	-76168481
54-141 (A1)	13-May-10	19:25:00	Conowingo Tailrace Units 1-7 Master	17	A	80	1	13-May-10	19:25:00		
54-141 (A1)	13-May-10	19:25:14	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	140	1	13-May-10	19:25:14	39657186	-76172854

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	13-May-10	19:26:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	167	1	13-May-10	19:26:05	39656488	-76173233
54-141 (A1)	13-May-10	19:28:01	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	136	3	13-May-10	19:30:00	39656015	-76173489
54-141 (A1)	13-May-10	19:31:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	103	1	13-May-10	19:31:02	39656488	-76173233
54-141 (A1)	13-May-10	19:34:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	176	1	13-May-10	19:34:05	39656845	-76173035
54-141 (A1)	13-May-10	19:35:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	169	1	13-May-10	19:35:00	39656488	-76173233
54-141 (A1)	13-May-10	19:35:57	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	133	1	13-May-10	19:35:57	39656015	-76173489
54-141 (A1)	13-May-10	19:37:55	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	112	1	13-May-10	19:37:55	39656488	-76173233
54-141 (A1)	13-May-10	19:38:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	165	1	13-May-10	19:38:57	39656845	-76173035
54-141 (A1)	13-May-10	19:39:01	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	145	2	13-May-10	19:40:00	39657186	-76172854
54-141 (A1)	13-May-10	19:51:38	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	134	1	13-May-10	19:51:38	39657186	-76172854
54-141 (A1)	13-May-10	19:57:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	62	1	13-May-10	19:57:16	39657186	-76172854
54-141 (A1)	13-May-10	20:43:50	Rowland Island West (Near-Field)	0	2	63	5	13-May-10	20:53:02	39652629	-76168481
54-141 (A1)	13-May-10	21:01:28	Rowland Island West (Near-Field)	0	2	67	6	13-May-10	21:11:04	39652629	-76168481
54-141 (A1)	13-May-10	21:36:39	Rowland Island West (Near-Field)	0	2	76	8	13-May-10	21:45:25	39652629	-76168481
54-141 (A1)	13-May-10	21:47:03	Rowland Island West (Near-Field)	0	2	85	16	13-May-10	21:56:14	39652629	-76168481
54-141 (A1)	13-May-10	23:14:16	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	99	2	13-May-10	23:15:13	39656845	-76173035
54-141 (A1)	13-May-10	23:15:17	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	129	1	13-May-10	23:15:17	39657186	-76172854
54-141 (A1)	13-May-10	23:19:56	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	76	2	13-May-10	23:21:47	39657308	-76172818
54-141 (A1)	13-May-10	23:20:45	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	131	2	13-May-10	23:21:41	39656845	-76173035
54-141 (A1)	13-May-10	23:21:45	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	149	1	13-May-10	23:21:45	39657186	-76172854
54-141 (A1)	13-May-10	23:22:30	Conowingo Tailrace Units 1-7 Master	17	A	75	1	13-May-10	23:22:30		
54-141 (A1)	13-May-10	23:22:39	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	110	2	13-May-10	23:24:30	39656845	-76173035
54-141 (A1)	13-May-10	23:24:34	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	73	1	13-May-10	23:24:34	39657186	-76172854
54-141 (A1)	13-May-10	23:27:17	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	107	5	13-May-10	23:31:04	39656845	-76173035
54-141 (A1)	13-May-10	23:28:17	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	85	2	13-May-10	23:29:14	39657186	-76172854
54-141 (A1)	13-May-10	23:32:55	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	144	4	13-May-10	23:35:47	39656845	-76173035
54-141 (A1)	13-May-10	23:33:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	131	3	13-May-10	23:35:51	39657186	-76172854
54-141 (A1)	13-May-10	23:35:37	Conowingo Tailrace Units 1-7 Master	17	A	50	1	13-May-10	23:35:37		
54-141 (A1)	13-May-10	23:35:43	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	119	1	13-May-10	23:35:43	39656488	-76173233
54-141 (A1)	13-May-10	23:38:38	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	81	2	13-May-10	23:39:35	39657186	-76172854
54-141 (A1)	13-May-10	23:41:03	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	104	1	13-May-10	23:41:03	39657308	-76172818
54-141 (A1)	13-May-10	23:50:31	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	1	13-May-10	23:50:31	39656488	-76173233
54-141 (A1)	13-May-10	23:50:35	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	102	2	13-May-10	23:51:31	39656845	-76173035
54-141 (A1)	13-May-10	23:58:55	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	52	1	13-May-10	23:58:55	39657186	-76172854
54-141 (A1)	14-May-10	0:06:19	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	66	1	14-May-10	0:06:19	39657186	-76172854
54-141 (A1)	14-May-10	0:12:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	78	1	14-May-10	0:12:42	39656845	-76173035
54-141 (A1)	14-May-10	4:14:35	Rowland Island West (Near-Field)	0	2	85	1	14-May-10	4:14:35	39652629	-76168481
54-141 (A1)	14-May-10	5:43:24	Rowland Island West (Near-Field)	0	2	130	10	14-May-10	5:48:37	39652629	-76168481
54-141 (A1)	14-May-10	10:25:49	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	144	4	14-May-10	10:29:06	39656845	-76173035
54-141 (A1)	14-May-10	10:25:55	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	138	3	14-May-10	10:29:14	39657186	-76172854
54-141 (A1)	14-May-10	10:27:46	Conowingo Tailrace Units 1-7 Master	17	A	141	1	14-May-10	10:27:46		
54-141 (A1)	14-May-10	10:27:56	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	80	1	14-May-10	10:27:56	39656488	-76173233
54-141 (A1)	14-May-10	10:30:08	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	141	4	14-May-10	10:34:32	39656488	-76173233
54-141 (A1)	14-May-10	10:30:15	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	111	3	14-May-10	10:34:41	39656845	-76173035
54-141 (A1)	14-May-10	10:32:18	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	139	1	14-May-10	10:32:18	39656015	-76173489
54-141 (A1)	14-May-10	10:33:19	Conowingo Tailrace Units 1-7 Master	17	A	81	1	14-May-10	10:33:19		
54-141 (A1)	14-May-10	10:33:38	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	127	1	14-May-10	10:33:38	39657186	-76172854
54-141 (A1)	14-May-10	10:34:47	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	76	3	14-May-10	10:39:45	39657186	-76172854
54-141 (A1)	14-May-10	10:35:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	96	2	14-May-10	10:38:42	39656845	-76173035
54-141 (A1)	14-May-10	10:40:40	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	125	4	14-May-10	10:44:38	39656845	-76173035
54-141 (A1)	14-May-10	10:40:45	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	145	5	14-May-10	10:44:43	39657186	-76172854
54-141 (A1)	14-May-10	10:41:27	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	118	1	14-May-10	10:41:27	39657308	-76172818
54-141 (A1)	14-May-10	10:41:30	Conowingo Tailrace Units 1-7 Master	17	A	67	1	14-May-10	10:41:30		
54-141 (A1)	14-May-10	10:54:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	77	1	14-May-10	10:54:25	39657186	-76172854
54-141 (A1)	14-May-10	10:59:05	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	97	1	14-May-10	10:59:05	39657186	-76172854
54-141 (A1)	14-May-10	11:00:52	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	125	2	14-May-10	11:03:39	39657308	-76172818
54-141 (A1)	14-May-10	11:00:54	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	66	3	14-May-10	11:04:41	39656845	-76173035
54-141 (A1)	14-May-10	11:01:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	113	1	14-May-10	11:01:54	39657186	-76172854
54-141 (A1)	14-May-10	11:05:40	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	102	2	14-May-10	11:08:33	39656845	-76173035
54-141 (A1)	14-May-10	11:08:37	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	142	2	14-May-10	11:09:34	39657186	-76172854



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	14-May-10	11:10:22	Conowingo Tailrace Units 1-7 Master	17	A	94	2	14-May-10	11:11:22		
54-141 (A1)	14-May-10	11:10:31	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	130	3	14-May-10	11:14:26	39656845	-76173035
54-141 (A1)	14-May-10	11:10:35	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	142	3	14-May-10	11:13:32	39657186	-76172854
54-141 (A1)	14-May-10	11:14:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	84	1	14-May-10	11:14:22	39656488	-76173233
54-141 (A1)	14-May-10	11:15:25	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	136	3	14-May-10	11:17:23	39656845	-76173035
54-141 (A1)	14-May-10	11:16:28	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	146	1	14-May-10	11:16:28	39657186	-76172854
54-141 (A1)	14-May-10	12:34:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	57	1	14-May-10	12:34:06	39656845	-76173035
54-141 (A1)	14-May-10	12:43:22	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	61	1	14-May-10	12:43:22	39656845	-76173035
54-141 (A1)	14-May-10	13:43:04	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	82	1	14-May-10	13:43:04	39656488	-76173233
54-141 (A1)	14-May-10	13:53:25	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	95	1	14-May-10	13:53:25	39656488	-76173233
54-141 (A1)	14-May-10	13:53:29	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	1	14-May-10	13:53:29	39656845	-76173035
54-141 (A1)	14-May-10	13:56:11	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	74	1	14-May-10	13:56:11	39656015	-76173489
54-141 (A1)	14-May-10	14:04:01	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	117	2	14-May-10	14:05:05	39656488	-76173233
54-141 (A1)	14-May-10	14:04:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	64	1	14-May-10	14:04:06	39656845	-76173035
54-141 (A1)	14-May-10	14:06:03	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	138	5	14-May-10	14:10:09	39656488	-76173233
54-141 (A1)	14-May-10	14:07:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	144	2	14-May-10	14:10:15	39656845	-76173035
54-141 (A1)	14-May-10	14:07:11	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	80	1	14-May-10	14:07:11	39657186	-76172854
54-141 (A1)	14-May-10	14:08:00	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	108	2	14-May-10	14:09:01	39656015	-76173489
54-141 (A1)	14-May-10	14:12:11	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	113	1	14-May-10	14:12:11	39656845	-76173035
54-141 (A1)	14-May-10	14:16:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	139	5	14-May-10	14:20:12	39656845	-76173035
54-141 (A1)	14-May-10	14:16:06	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	136	4	14-May-10	14:20:16	39657186	-76172854
54-141 (A1)	14-May-10	14:17:01	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	1	14-May-10	14:17:01	39656488	-76173233
54-141 (A1)	14-May-10	14:21:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	145	5	14-May-10	14:25:26	39656845	-76173035
54-141 (A1)	14-May-10	14:21:17	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	147	5	14-May-10	14:25:29	39657186	-76172854
54-141 (A1)	14-May-10	14:23:13	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	79	1	14-May-10	14:23:13	39656488	-76173233
54-141 (A1)	14-May-10	14:23:51	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	115	2	14-May-10	14:24:47	39657308	-76172818
54-141 (A1)	14-May-10	14:26:30	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	103	1	14-May-10	14:26:30	39656845	-76173035
54-141 (A1)	14-May-10	14:26:34	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	139	2	14-May-10	14:28:56	39657186	-76172854
54-141 (A1)	14-May-10	14:27:43	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	116	1	14-May-10	14:27:43	39657308	-76172818
54-141 (A1)	14-May-10	14:34:14	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	57	1	14-May-10	14:34:14	39656845	-76173035
54-141 (A1)	14-May-10	15:23:18	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	111	3	14-May-10	15:25:39	39656015	-76173489
54-141 (A1)	14-May-10	15:23:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	118	3	14-May-10	15:25:44	39656488	-76173233
54-141 (A1)	14-May-10	15:27:56	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	135	1	14-May-10	15:27:56	39656488	-76173233
54-141 (A1)	14-May-10	15:28:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	129	2	14-May-10	15:29:08	39656845	-76173035
54-141 (A1)	14-May-10	15:33:17	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	158	2	14-May-10	15:34:21	39656845	-76173035
54-141 (A1)	14-May-10	15:33:23	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	118	2	14-May-10	15:34:26	39657186	-76172854
54-141 (A1)	14-May-10	15:35:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	112	1	14-May-10	15:35:22	39656488	-76173233
54-141 (A1)	14-May-10	15:36:40	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	171	3	14-May-10	15:38:56	39656845	-76173035
54-141 (A1)	14-May-10	15:36:45	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	98	3	14-May-10	15:40:16	39657186	-76172854
54-141 (A1)	14-May-10	15:37:35	Conowingo Tailrace Units 1-7 Master	17	A	106	1	14-May-10	15:37:35		
54-141 (A1)	14-May-10	15:37:43	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	132	1	14-May-10	15:37:43	39656488	-76173233
54-141 (A1)	14-May-10	17:45:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	131	3	14-May-10	17:47:18	39656845	-76173035
54-141 (A1)	14-May-10	17:48:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	94	3	14-May-10	17:51:27	39656488	-76173233
54-141 (A1)	14-May-10	17:48:21	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	148	4	14-May-10	17:51:32	39656845	-76173035
54-141 (A1)	14-May-10	17:48:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	133	3	14-May-10	17:51:38	39657186	-76172854
54-141 (A1)	14-May-10	17:55:35	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	84	1	14-May-10	17:55:35	39656845	-76173035
54-141 (A1)	14-May-10	19:39:20	Spencer Island West (Near-Field)	8	1	109	2	14-May-10	19:40:22	39605974	-76130720
54-141 (A1)	14-May-10	19:42:21	Spencer Island West (Near-Field)	8	1	163	1	14-May-10	19:42:21	39605974	-76130720
54-141 (A1)	14-May-10	19:44:48	Lapidum (West Shore) (Near-Field)	10	0	104	1	14-May-10	19:44:48	39601082	-76126821
54-141 (A1)	14-May-10	19:48:04	Lapidum (West Shore) (Near-Field)	10	0	84	2	14-May-10	19:48:49	39601082	-76126821
54-141 (A1)	14-May-10	23:55:57	Lapidum (West Shore) (Near-Field)	10	0	151	1	14-May-10	23:55:57	39601082	-76126821
54-141 (A1)	15-May-10	0:00:04	Spencer Island West (Near-Field)	8	1	73	3	15-May-10	0:03:00	39605974	-76130720
54-141 (A1)	15-May-10	0:03:50	Spencer Island West (Near-Field)	8	1	123	2	15-May-10	0:05:56	39605974	-76130720
54-141 (A1)	15-May-10	0:08:51	Spencer Island West (Near-Field)	8	1	90	5	15-May-10	0:11:24	39605974	-76130720
54-141 (A1)	15-May-10	0:13:56	Spencer Island West (Near-Field)	8	1	112	7	15-May-10	0:17:46	39605974	-76130720
54-141 (A1)	15-May-10	0:19:03	Spencer Island West (Near-Field)	8	1	113	5	15-May-10	0:22:00	39605974	-76130720
54-141 (A1)	15-May-10	0:24:31	Spencer Island West (Near-Field)	8	1	86	2	15-May-10	0:25:21	39605974	-76130720
54-141 (A1)	15-May-10	0:29:05	Spencer Island West (Near-Field)	8	1	71	2	15-May-10	0:32:25	39605974	-76130720
54-141 (A1)	15-May-10	5:42:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	108	1	15-May-10	5:42:00	39657186	-76172854
54-141 (A1)	15-May-10	5:50:32	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	86	2	15-May-10	5:54:48	39657186	-76172854

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	15-May-10	5:55:49	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	77	2	15-May-10	5:59:08	39656845	-76173035
54-141 (A1)	15-May-10	6:00:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	109	2	15-May-10	6:01:11	39656488	-76173233
54-141 (A1)	15-May-10	6:01:07	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	73	2	15-May-10	6:02:16	39656015	-76173489
54-141 (A1)	15-May-10	6:01:16	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	167	4	15-May-10	6:04:34	39656845	-76173035
54-141 (A1)	15-May-10	6:01:21	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	137	4	15-May-10	6:04:39	39657186	-76172854
54-141 (A1)	15-May-10	6:02:12	Conowingo Tailrace Units 1-7 Master	17	A	57	1	15-May-10	6:02:12		
54-141 (A1)	15-May-10	6:04:33	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	98	1	15-May-10	6:04:33	39657308	-76172818
54-141 (A1)	15-May-10	6:05:41	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	130	2	15-May-10	6:06:51	39656845	-76173035
54-141 (A1)	15-May-10	6:05:46	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	1	15-May-10	6:05:46	39657186	-76172854
54-141 (A1)	15-May-10	6:07:48	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	72	1	15-May-10	6:07:48	39656015	-76173489
54-141 (A1)	15-May-10	6:09:07	Rowland Island West (Near-Field)	0	2	122	17	15-May-10	6:17:55	39652629	-76168481
54-141 (A1)	15-May-10	6:10:04	Conowingo Tailrace Units 1-7 Master	17	A	76	1	15-May-10	6:10:04		
54-141 (A1)	15-May-10	6:10:15	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	144	5	15-May-10	6:14:30	39656845	-76173035
54-141 (A1)	15-May-10	6:11:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	126	3	15-May-10	6:13:25	39656488	-76173233
54-141 (A1)	15-May-10	6:12:19	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	64	1	15-May-10	6:12:19	39656015	-76173489
54-141 (A1)	15-May-10	6:15:31	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	122	4	15-May-10	6:18:28	39656845	-76173035
54-141 (A1)	15-May-10	6:16:27	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	91	1	15-May-10	6:16:27	39656488	-76173233
54-141 (A1)	15-May-10	6:17:34	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	112	2	15-May-10	6:19:30	39657186	-76172854
54-141 (A1)	15-May-10	6:19:08	Rowland Island West (Near-Field)	0	2	84	1	15-May-10	6:19:08	39652629	-76168481
54-141 (A1)	15-May-10	6:21:26	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	103	1	15-May-10	6:21:26	39657186	-76172854
54-141 (A1)	15-May-10	6:22:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	133	3	15-May-10	6:24:24	39656845	-76173035
54-141 (A1)	15-May-10	6:23:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	65	2	15-May-10	6:24:20	39656488	-76173233
54-141 (A1)	15-May-10	6:25:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	166	1	15-May-10	6:25:23	39656488	-76173233
54-141 (A1)	15-May-10	6:25:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	139	1	15-May-10	6:25:28	39656845	-76173035
54-141 (A1)	15-May-10	6:30:20	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	140	2	15-May-10	6:33:19	39656488	-76173233
54-141 (A1)	15-May-10	6:35:16	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	145	1	15-May-10	6:35:16	39656015	-76173489
54-141 (A1)	15-May-10	6:35:20	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	142	2	15-May-10	6:36:23	39656488	-76173233
54-141 (A1)	15-May-10	6:40:56	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	149	4	15-May-10	6:45:08	39657186	-76172854
54-141 (A1)	15-May-10	6:46:00	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	84	1	15-May-10	6:46:00	39657308	-76172818
54-141 (A1)	15-May-10	6:46:11	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	116	1	15-May-10	6:46:11	39657186	-76172854
54-141 (A1)	15-May-10	15:56:57	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	64	1	15-May-10	15:56:57	39657186	-76172854
54-141 (A1)	15-May-10	16:24:02	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	2	15-May-10	16:26:00	39657186	-76172854
54-141 (A1)	15-May-10	16:26:56	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	2	15-May-10	16:27:58	39656845	-76173035
54-141 (A1)	15-May-10	16:28:57	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	110	2	15-May-10	16:30:05	39656488	-76173233
54-141 (A1)	15-May-10	16:29:07	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	121	5	15-May-10	16:33:21	39657186	-76172854
54-141 (A1)	15-May-10	16:30:11	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	128	3	15-May-10	16:33:16	39656845	-76173035
54-141 (A1)	15-May-10	16:31:01	Rowland Island West (Near-Field)	0	2	98	5	15-May-10	16:32:37	39652629	-76168481
54-141 (A1)	15-May-10	16:31:47	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	100	1	15-May-10	16:31:47	39657308	-76172818
54-141 (A1)	15-May-10	16:34:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	2	15-May-10	16:36:24	39656845	-76173035
54-141 (A1)	15-May-10	16:36:16	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	101	1	15-May-10	16:36:16	39656015	-76173489
54-141 (A1)	15-May-10	16:36:20	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	164	1	15-May-10	16:36:20	39656488	-76173233
54-141 (A1)	15-May-10	16:36:29	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	58	1	15-May-10	16:36:29	39657186	-76172854
54-141 (A1)	16-May-10	8:24:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	96	2	16-May-10	8:27:01	39656488	-76173233
54-141 (A1)	16-May-10	8:24:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	94	2	16-May-10	8:27:06	39656845	-76173035
54-141 (A1)	16-May-10	8:29:16	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	87	2	16-May-10	8:30:25	39656845	-76173035
54-141 (A1)	16-May-10	8:35:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	64	1	16-May-10	8:35:34	39656845	-76173035
54-141 (A1)	16-May-10	8:40:37	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	67	1	16-May-10	8:40:37	39656488	-76173233
54-141 (A1)	16-May-10	8:43:40	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	129	3	16-May-10	8:46:52	39656488	-76173233
54-141 (A1)	16-May-10	8:43:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	117	1	16-May-10	8:43:46	39656845	-76173035
54-141 (A1)	16-May-10	8:46:48	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	95	1	16-May-10	8:46:48	39656015	-76173489
54-141 (A1)	16-May-10	8:47:53	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	120	3	16-May-10	8:50:00	39656488	-76173233
54-141 (A1)	16-May-10	8:48:51	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	97	4	16-May-10	8:51:58	39656015	-76173489
54-141 (A1)	16-May-10	8:49:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	132	2	16-May-10	8:50:05	39656845	-76173035
54-141 (A1)	16-May-10	8:53:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	134	2	16-May-10	8:56:13	39656488	-76173233
54-141 (A1)	16-May-10	8:53:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	70	2	16-May-10	8:55:14	39656845	-76173035
54-141 (A1)	16-May-10	8:55:18	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	80	1	16-May-10	8:55:18	39657186	-76172854
54-141 (A1)	16-May-10	8:56:09	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	92	2	16-May-10	8:57:11	39656015	-76173489
54-141 (A1)	16-May-10	8:58:11	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	136	5	16-May-10	9:02:28	39656015	-76173489
54-141 (A1)	16-May-10	8:58:17	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	102	3	16-May-10	9:01:32	39656845	-76173035
54-141 (A1)	16-May-10	8:59:15	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	154	4	16-May-10	9:02:32	39656488	-76173233

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	16-May-10	9:02:24	Conowingo Tailrace Units 1-7 Master	17	A	100	1	16-May-10	9:02:24		
54-141 (A1)	16-May-10	9:03:47	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	174	2	16-May-10	9:04:49	39656488	-76173233
54-141 (A1)	16-May-10	9:03:51	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	99	4	16-May-10	9:07:51	39656845	-76173035
54-141 (A1)	16-May-10	9:04:45	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	152	1	16-May-10	9:04:45	39656015	-76173489
54-141 (A1)	16-May-10	9:06:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	104	2	16-May-10	9:07:57	39657186	-76172854
54-141 (A1)	16-May-10	9:09:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	105	3	16-May-10	9:13:16	39657186	-76172854
54-141 (A1)	16-May-10	9:10:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	103	3	16-May-10	9:13:12	39656845	-76173035
54-141 (A1)	16-May-10	9:18:33	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	53	1	16-May-10	9:18:33	39657186	-76172854
54-141 (A1)	16-May-10	13:38:45	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	120	1	16-May-10	13:38:45	39656845	-76173035
54-141 (A1)	16-May-10	13:55:33	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	99	1	16-May-10	13:55:33	39656015	-76173489
54-141 (A1)	16-May-10	14:34:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	79	1	16-May-10	14:34:13	39656845	-76173035
54-141 (A1)	16-May-10	14:37:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	127	1	16-May-10	14:37:20	39656845	-76173035
54-141 (A1)	16-May-10	14:42:08	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	98	2	16-May-10	14:44:14	39656488	-76173233
54-141 (A1)	16-May-10	14:52:46	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	76	2	16-May-10	14:53:53	39657186	-76172854
54-141 (A1)	16-May-10	16:37:26	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	54	1	16-May-10	16:37:26	39656488	-76173233
54-141 (A1)	16-May-10	16:41:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	106	2	16-May-10	16:43:08	39656845	-76173035
54-141 (A1)	16-May-10	16:41:18	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	95	2	16-May-10	16:42:14	39657186	-76172854
54-141 (A1)	16-May-10	18:28:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	78	1	16-May-10	18:28:48	39657186	-76172854
54-141 (A1)	16-May-10	18:32:36	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	108	1	16-May-10	18:32:36	39656845	-76173035
54-141 (A1)	16-May-10	18:37:22	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	147	2	16-May-10	18:38:23	39656845	-76173035
54-141 (A1)	16-May-10	18:38:19	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	147	1	16-May-10	18:38:19	39656488	-76173233
54-141 (A1)	16-May-10	18:39:16	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	111	2	16-May-10	18:40:19	39656015	-76173489
54-141 (A1)	16-May-10	18:41:16	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	144	3	16-May-10	18:45:05	39656015	-76173489
54-141 (A1)	16-May-10	18:42:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	134	2	16-May-10	18:45:09	39656488	-76173233
54-141 (A1)	16-May-10	18:46:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	130	1	16-May-10	18:46:05	39656488	-76173233
54-141 (A1)	16-May-10	18:47:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	56	1	16-May-10	18:47:05	39656845	-76173035
54-141 (A1)	16-May-10	20:16:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	103	1	16-May-10	20:16:00	39656845	-76173035
54-141 (A1)	16-May-10	20:26:08	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	95	1	16-May-10	20:26:08	39656845	-76173035
54-141 (A1)	17-May-10	6:49:46	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	92	3	17-May-10	6:52:01	39656015	-76173489
54-141 (A1)	17-May-10	6:51:11	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	73	1	17-May-10	6:51:11	39657186	-76172854
54-141 (A1)	17-May-10	6:54:07	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	107	4	17-May-10	6:57:24	39656015	-76173489
54-141 (A1)	17-May-10	6:56:26	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	124	1	17-May-10	6:56:26	39656488	-76173233
54-141 (A1)	17-May-10	6:58:30	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	124	1	17-May-10	6:58:30	39656488	-76173233
54-141 (A1)	17-May-10	6:59:27	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	102	2	17-May-10	7:00:31	39656015	-76173489
54-141 (A1)	17-May-10	7:00:46	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	105	1	17-May-10	7:00:46	39657186	-76172854
54-141 (A1)	17-May-10	7:04:37	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	116	3	17-May-10	7:07:41	39656015	-76173489
54-141 (A1)	17-May-10	7:04:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	109	1	17-May-10	7:04:44	39656845	-76173035
54-141 (A1)	17-May-10	7:04:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	102	1	17-May-10	7:04:48	39657186	-76172854
54-141 (A1)	17-May-10	7:09:42	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	137	1	17-May-10	7:09:42	39656015	-76173489
54-141 (A1)	17-May-10	7:11:49	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	89	1	17-May-10	7:11:49	39656488	-76173233
54-141 (A1)	17-May-10	7:12:56	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	89	1	17-May-10	7:12:56	39656845	-76173035
54-141 (A1)	17-May-10	7:15:58	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	77	1	17-May-10	7:15:58	39656015	-76173489
54-141 (A1)	17-May-10	7:16:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	116	3	17-May-10	7:18:06	39656488	-76173233
54-141 (A1)	17-May-10	7:17:09	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	120	1	17-May-10	7:17:09	39656845	-76173035
54-141 (A1)	17-May-10	7:18:00	Conowingo Tailrace Units 1-7 Master	17	A	71	1	17-May-10	7:18:00		
54-141 (A1)	17-May-10	7:19:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	118	2	17-May-10	7:20:58	39656488	-76173233
54-141 (A1)	17-May-10	7:19:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	129	3	17-May-10	7:22:00	39656845	-76173035
54-141 (A1)	17-May-10	7:23:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	151	1	17-May-10	7:23:00	39657186	-76172854
54-141 (A1)	17-May-10	7:23:46	Conowingo Tailrace Units 1-7 Master	17	A	98	1	17-May-10	7:23:46		
54-141 (A1)	17-May-10	7:23:52	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	2	17-May-10	7:27:49	39656488	-76173233
54-141 (A1)	17-May-10	7:23:56	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	131	3	17-May-10	7:26:53	39656845	-76173035
54-141 (A1)	17-May-10	7:24:21	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	110	2	17-May-10	7:25:19	39657308	-76172818
54-141 (A1)	17-May-10	7:25:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	159	2	17-May-10	7:25:58	39657186	-76172854
54-141 (A1)	17-May-10	7:25:23	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	96	1	17-May-10	7:25:23	39657480	-76172724
54-141 (A1)	17-May-10	7:29:46	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	97	1	17-May-10	7:29:46	39656488	-76173233
54-141 (A1)	17-May-10	7:29:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	87	1	17-May-10	7:29:50	39656845	-76173035
54-141 (A1)	17-May-10	15:48:04	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	128	1	17-May-10	15:48:04	39656488	-76173233
54-141 (A1)	17-May-10	15:49:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	146	5	17-May-10	15:53:17	39656488	-76173233
54-141 (A1)	17-May-10	15:50:03	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	133	1	17-May-10	15:50:03	39656015	-76173489
54-141 (A1)	17-May-10	15:51:05	Conowingo Tailrace Units 1-7 Master	17	A	61	2	17-May-10	15:53:09		



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	17-May-10	15:52:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	109	2	17-May-10	15:53:22	39656845	-76173035
54-141 (A1)	17-May-10	15:53:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	114	1	17-May-10	15:53:27	39657186	-76172854
54-141 (A1)	17-May-10	15:54:23	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	123	4	17-May-10	15:58:34	39656845	-76173035
54-141 (A1)	17-May-10	15:54:30	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	178	1	17-May-10	15:54:30	39657186	-76172854
54-141 (A1)	17-May-10	15:55:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	151	3	17-May-10	15:57:31	39656488	-76173233
54-141 (A1)	17-May-10	15:59:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	102	2	17-May-10	16:02:43	39656845	-76173035
54-141 (A1)	17-May-10	16:00:24	Conowingo Tailrace Units 1-7 Master	17	A	152	1	17-May-10	16:00:24		
54-141 (A1)	17-May-10	16:02:34	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	75	1	17-May-10	16:02:34	39656015	-76173489
54-141 (A1)	17-May-10	16:03:43	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	125	3	17-May-10	16:08:00	39656488	-76173233
54-141 (A1)	17-May-10	16:03:48	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	115	2	17-May-10	16:04:51	39656845	-76173035
54-141 (A1)	17-May-10	16:05:57	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	146	2	17-May-10	16:07:02	39657186	-76172854
54-141 (A1)	17-May-10	16:07:54	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	85	1	17-May-10	16:07:54	39656015	-76173489
54-141 (A1)	17-May-10	20:21:48	Rowland Island West (Near-Field)	0	2	61	2	17-May-10	20:29:00	39652629	-76168481
54-141 (A1)	17-May-10	20:43:24	Rowland Island West (Near-Field)	0	2	60	3	17-May-10	20:49:44	39652629	-76168481
54-141 (A1)	17-May-10	21:04:57	Rowland Island West (Near-Field)	0	2	54	2	17-May-10	21:08:10	39652629	-76168481
54-141 (A1)	17-May-10	21:18:10	Rowland Island West (Near-Field)	0	2	72	3	17-May-10	21:24:32	39652629	-76168481
54-141 (A1)	17-May-10	21:31:23	Rowland Island West (Near-Field)	0	2	69	3	17-May-10	21:40:58	39652629	-76168481
54-141 (A1)	17-May-10	21:44:11	Rowland Island West (Near-Field)	0	2	56	2	17-May-10	21:49:22	39652629	-76168481
54-141 (A1)	17-May-10	21:56:58	Rowland Island West (Near-Field)	0	2	72	5	17-May-10	22:04:58	39652629	-76168481
54-141 (A1)	17-May-10	22:10:08	Rowland Island West (Near-Field)	0	2	69	7	17-May-10	22:18:09	39652629	-76168481
54-141 (A1)	17-May-10	22:20:08	Rowland Island West (Near-Field)	0	2	61	4	17-May-10	22:27:45	39652629	-76168481
54-141 (A1)	17-May-10	22:32:08	Rowland Island West (Near-Field)	0	2	65	7	17-May-10	22:39:45	39652629	-76168481
54-141 (A1)	17-May-10	22:47:46	Rowland Island West (Near-Field)	0	2	65	5	17-May-10	22:57:21	39652629	-76168481
54-141 (A1)	17-May-10	23:00:55	Rowland Island West (Near-Field)	0	2	66	8	17-May-10	23:10:07	39652629	-76168481
54-141 (A1)	17-May-10	23:12:33	Rowland Island West (Near-Field)	0	2	88	1	17-May-10	23:12:33	39652629	-76168481
54-141 (A1)	17-May-10	23:30:31	Rowland Island West (Near-Field)	0	2	74	8	17-May-10	23:39:43	39652629	-76168481
54-141 (A1)	17-May-10	23:42:08	Rowland Island West (Near-Field)	0	2	58	5	17-May-10	23:51:43	39652629	-76168481
54-141 (A1)	17-May-10	23:59:44	Rowland Island West (Near-Field)	0	2	70	6	18-May-10	0:05:43	39652629	-76168481
54-141 (A1)	18-May-10	0:10:31	Rowland Island West (Near-Field)	0	2	62	5	18-May-10	0:19:42	39652629	-76168481
54-141 (A1)	18-May-10	0:24:31	Rowland Island West (Near-Field)	0	2	64	7	18-May-10	0:34:06	39652629	-76168481
54-141 (A1)	18-May-10	0:34:31	Rowland Island West (Near-Field)	0	2	58	3	18-May-10	0:41:18	39652629	-76168481
54-141 (A1)	18-May-10	0:46:06	Rowland Island West (Near-Field)	0	2	79	3	18-May-10	0:54:32	39652629	-76168481
54-141 (A1)	18-May-10	1:03:19	Rowland Island West (Near-Field)	0	2	69	2	18-May-10	1:08:54	39652629	-76168481
54-141 (A1)	18-May-10	1:17:19	Rowland Island West (Near-Field)	0	2	66	4	18-May-10	1:21:42	39652629	-76168481
54-141 (A1)	18-May-10	1:35:18	Rowland Island West (Near-Field)	0	2	65	2	18-May-10	1:44:53	39652629	-76168481
54-141 (A1)	18-May-10	1:50:06	Rowland Island West (Near-Field)	0	2	68	1	18-May-10	1:50:06	39652629	-76168481
54-141 (A1)	18-May-10	2:00:28	Rowland Island West (Near-Field)	0	2	69	2	18-May-10	2:00:54	39652629	-76168481
54-141 (A1)	18-May-10	2:14:29	Rowland Island West (Near-Field)	0	2	64	2	18-May-10	2:15:17	39652629	-76168481
54-141 (A1)	18-May-10	2:38:54	Rowland Island West (Near-Field)	0	2	57	4	18-May-10	2:46:29	39652629	-76168481
54-141 (A1)	18-May-10	2:49:41	Rowland Island West (Near-Field)	0	2	74	2	18-May-10	2:52:03	39652629	-76168481
54-141 (A1)	18-May-10	3:04:30	Rowland Island West (Near-Field)	0	2	73	11	18-May-10	3:13:41	39652629	-76168481
54-141 (A1)	18-May-10	3:14:30	Rowland Island West (Near-Field)	0	2	71	6	18-May-10	3:22:30	39652629	-76168481
54-141 (A1)	18-May-10	4:00:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	95	1	18-May-10	4:00:46	39656845	-76173035
54-141 (A1)	18-May-10	4:01:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	73	1	18-May-10	4:01:48	39657186	-76172854
54-141 (A1)	18-May-10	4:03:40	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	102	2	18-May-10	4:06:41	39656845	-76173035
54-141 (A1)	18-May-10	4:06:45	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	75	1	18-May-10	4:06:45	39657186	-76172854
54-141 (A1)	18-May-10	4:07:43	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	151	4	18-May-10	4:11:49	39656845	-76173035
54-141 (A1)	18-May-10	4:08:40	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	82	3	18-May-10	4:11:45	39656488	-76173233
54-141 (A1)	18-May-10	4:08:47	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	163	4	18-May-10	4:11:53	39657186	-76172854
54-141 (A1)	18-May-10	4:09:34	Conowingo Tailrace Units 1-7 Master	17	A	67	2	18-May-10	4:10:39		
54-141 (A1)	18-May-10	4:10:43	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	70	1	18-May-10	4:10:43	39656015	-76173489
54-141 (A1)	18-May-10	4:11:25	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	73	1	18-May-10	4:11:25	39657308	-76172818
54-141 (A1)	18-May-10	4:12:38	Conowingo Tailrace Units 1-7 Master	17	A	118	4	18-May-10	4:16:41		
54-141 (A1)	18-May-10	4:12:47	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	175	3	18-May-10	4:15:49	39656845	-76173035
54-141 (A1)	18-May-10	4:12:51	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	139	5	18-May-10	4:16:54	39657186	-76172854
54-141 (A1)	18-May-10	4:14:43	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	82	1	18-May-10	4:14:43	39656015	-76173489
54-141 (A1)	18-May-10	4:17:41	Conowingo Tailrace Units 1-7 Master	17	A	84	2	18-May-10	4:20:34		
54-141 (A1)	18-May-10	4:17:48	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	143	4	18-May-10	4:21:39	39656488	-76173233
54-141 (A1)	18-May-10	4:17:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	179	1	18-May-10	4:17:54	39657186	-76172854
54-141 (A1)	18-May-10	4:18:48	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	109	4	18-May-10	4:21:43	39656845	-76173035

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	18-May-10	4:19:38	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	59	1	18-May-10	4:19:38	39656015	-76173489
54-141 (A1)	18-May-10	4:23:38	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	131	2	18-May-10	4:25:33	39656488	-76173233
54-141 (A1)	18-May-10	4:23:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	98	3	18-May-10	4:25:37	39656845	-76173035
54-141 (A1)	18-May-10	4:25:41	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	85	1	18-May-10	4:25:41	39657186	-76172854
54-141 (A1)	18-May-10	4:28:26	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	129	1	18-May-10	4:28:26	39656488	-76173233
54-141 (A1)	18-May-10	4:28:30	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	124	1	18-May-10	4:28:30	39656845	-76173035
54-141 (A1)	18-May-10	4:28:33	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	57	1	18-May-10	4:28:33	39657186	-76172854
54-141 (A1)	18-May-10	4:44:22	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	67	2	18-May-10	4:46:19	39656845	-76173035
54-141 (A1)	18-May-10	4:54:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	66	1	18-May-10	4:54:46	39656845	-76173035
54-141 (A1)	18-May-10	5:15:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	101	1	18-May-10	5:15:20	39657186	-76172854
54-141 (A1)	18-May-10	5:20:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	54	1	18-May-10	5:20:50	39656845	-76173035
54-141 (A1)	18-May-10	5:31:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	2	18-May-10	5:32:02	39656845	-76173035
54-141 (A1)	18-May-10	5:32:06	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	103	1	18-May-10	5:32:06	39657186	-76172854
54-141 (A1)	18-May-10	5:32:58	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	85	2	18-May-10	5:33:56	39656488	-76173233
54-141 (A1)	18-May-10	5:33:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	132	3	18-May-10	5:35:58	39656845	-76173035
54-141 (A1)	18-May-10	5:33:06	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	76	2	18-May-10	5:36:02	39657186	-76172854
54-141 (A1)	18-May-10	5:37:56	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	108	2	18-May-10	5:41:56	39656488	-76173233
54-141 (A1)	18-May-10	5:38:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	148	3	18-May-10	5:42:00	39656845	-76173035
54-141 (A1)	18-May-10	5:42:04	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	124	1	18-May-10	5:42:04	39657186	-76172854
54-141 (A1)	18-May-10	5:43:03	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	161	5	18-May-10	5:47:12	39656845	-76173035
54-141 (A1)	18-May-10	5:44:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	108	3	18-May-10	5:46:07	39656488	-76173233
54-141 (A1)	18-May-10	5:44:08	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	159	3	18-May-10	5:46:14	39657186	-76172854
54-141 (A1)	18-May-10	5:48:11	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	105	2	18-May-10	5:50:13	39656488	-76173233
54-141 (A1)	18-May-10	5:48:15	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	176	4	18-May-10	5:51:23	39656845	-76173035
54-141 (A1)	18-May-10	5:49:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	104	3	18-May-10	5:51:28	39657186	-76172854
54-141 (A1)	18-May-10	5:50:06	Conowingo Tailrace Units 1-7 Master	17	A	102	2	18-May-10	5:51:11		
54-141 (A1)	18-May-10	5:52:22	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	130	4	18-May-10	5:56:31	39656015	-76173489
54-141 (A1)	18-May-10	5:53:25	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	194	3	18-May-10	5:55:30	39656488	-76173233
54-141 (A1)	18-May-10	5:54:29	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	151	2	18-May-10	5:55:35	39656845	-76173035
54-141 (A1)	18-May-10	5:55:22	Conowingo Tailrace Units 1-7 Master	17	A	155	1	18-May-10	5:55:22		
54-141 (A1)	18-May-10	5:57:38	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	140	3	18-May-10	6:00:57	39656488	-76173233
54-141 (A1)	18-May-10	5:57:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	193	3	18-May-10	6:02:06	39656845	-76173035
54-141 (A1)	18-May-10	5:58:39	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	136	2	18-May-10	5:59:44	39656015	-76173489
54-141 (A1)	18-May-10	6:00:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	145	3	18-May-10	6:02:11	39657186	-76172854
54-141 (A1)	18-May-10	6:01:55	Conowingo Tailrace Units 1-7 Master	17	A	71	1	18-May-10	6:01:55		
54-141 (A1)	18-May-10	6:02:20	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	81	1	18-May-10	6:02:20	39657480	-76172724
54-141 (A1)	18-May-10	6:03:03	Conowingo Tailrace Units 1-7 Master	17	A	53	1	18-May-10	6:03:03		
54-141 (A1)	18-May-10	6:03:14	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	137	2	18-May-10	6:05:21	39656845	-76173035
54-141 (A1)	18-May-10	6:03:19	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	157	4	18-May-10	6:06:33	39657186	-76172854
54-141 (A1)	18-May-10	6:04:08	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	171	1	18-May-10	6:04:08	39657308	-76172818
54-141 (A1)	18-May-10	6:07:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	119	2	18-May-10	6:08:35	39656845	-76173035
54-141 (A1)	18-May-10	6:07:37	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	146	2	18-May-10	6:08:40	39657186	-76172854
54-141 (A1)	18-May-10	6:09:31	Conowingo Tailrace Units 1-7 Master	17	A	118	1	18-May-10	6:09:31		
54-141 (A1)	18-May-10	6:09:42	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	85	1	18-May-10	6:09:42	39657480	-76172724
54-141 (A1)	18-May-10	6:11:27	Conowingo Tailrace Units 8-11 Master	7	A	90	1	18-May-10	6:11:27		
54-141 (A1)	18-May-10	6:11:31	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	181	1	18-May-10	6:11:31	39657308	-76172818
54-141 (A1)	18-May-10	6:12:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	179	4	18-May-10	6:16:01	39656845	-76173035
54-141 (A1)	18-May-10	6:13:36	Conowingo Tailrace Units 1-7 Master	17	A	136	2	18-May-10	6:14:45		
54-141 (A1)	18-May-10	6:13:45	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	73	1	18-May-10	6:13:45	39656488	-76173233
54-141 (A1)	18-May-10	6:13:55	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	172	2	18-May-10	6:15:03	39657186	-76172854
54-141 (A1)	18-May-10	6:18:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	140	5	18-May-10	6:22:16	39656488	-76173233
54-141 (A1)	18-May-10	6:18:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	123	4	18-May-10	6:22:20	39656845	-76173035
54-141 (A1)	18-May-10	6:19:00	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	98	2	18-May-10	6:20:08	39656015	-76173489
54-141 (A1)	18-May-10	6:19:15	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	86	2	18-May-10	6:22:24	39657186	-76172854
54-141 (A1)	18-May-10	6:20:03	Conowingo Tailrace Units 1-7 Master	17	A	98	1	18-May-10	6:20:03		
54-141 (A1)	18-May-10	6:24:28	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	107	2	18-May-10	6:26:31	39657186	-76172854
54-141 (A1)	18-May-10	6:26:26	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	108	2	18-May-10	6:27:29	39656845	-76173035
54-141 (A1)	18-May-10	6:28:27	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	134	4	18-May-10	6:31:41	39656488	-76173233
54-141 (A1)	18-May-10	6:28:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	145	2	18-May-10	6:30:40	39656845	-76173035
54-141 (A1)	18-May-10	6:30:29	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	132	1	18-May-10	6:30:29	39656015	-76173489



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	18-May-10	6:31:53	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	128	1	18-May-10	6:31:53	39657186	-76172854
54-141 (A1)	18-May-10	6:34:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	154	3	18-May-10	6:37:07	39657186	-76172854
54-141 (A1)	18-May-10	6:34:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	158	1	18-May-10	6:34:57	39656845	-76173035
54-141 (A1)	18-May-10	6:38:17	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	78	1	18-May-10	6:38:17	39657308	-76172818
54-141 (A1)	18-May-10	6:39:14	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	195	2	18-May-10	6:40:20	39656845	-76173035
54-141 (A1)	18-May-10	6:39:19	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	182	3	18-May-10	6:41:35	39657186	-76172854
54-141 (A1)	18-May-10	6:40:07	Conowingo Tailrace Units 1-7 Master	17	A	102	2	18-May-10	6:42:27		
54-141 (A1)	18-May-10	6:42:57	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	97	2	18-May-10	6:43:53	39657308	-76172818
54-141 (A1)	18-May-10	6:43:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	152	1	18-May-10	6:43:58	39657186	-76172854
54-141 (A1)	18-May-10	6:54:01	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	137	1	18-May-10	6:54:01	39657480	-76172724
54-141 (A1)	18-May-10	6:57:02	Conowingo Tailrace Units 1-7 Master	17	A	51	1	18-May-10	6:57:02		
54-141 (A1)	18-May-10	6:59:12	Conowingo Tailrace Units 1-7 Master	17	A	101	1	18-May-10	6:59:12		
54-141 (A1)	18-May-10	6:59:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	152	1	18-May-10	6:59:31	39657186	-76172854
54-141 (A1)	18-May-10	6:59:32	Conowingo Tailrace Units 8-11 Master	7	A	123	1	18-May-10	6:59:32		
54-141 (A1)	18-May-10	7:00:35	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	146	1	18-May-10	7:00:35	39657480	-76172724
54-141 (A1)	18-May-10	7:04:34	"A" Gate Aerial	4	0	88	1	18-May-10	7:04:34	39658424	-76174012
54-141 (A1)	18-May-10	7:04:42	"A" Gate Aerial	4	0	52	1	18-May-10	7:04:42	39658424	-76174012
54-141 (A1)	18-May-10	7:05:19	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	149	1	18-May-10	7:05:19	39657674	-76172621
54-141 (A1)	18-May-10	7:06:09	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	102	1	18-May-10	7:06:09	39657308	-76172818
54-141 (A1)	18-May-10	7:07:51	Conowingo Tailrace Units 1-7 Master	17	A	125	3	18-May-10	7:10:11		
54-141 (A1)	18-May-10	7:08:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	84	1	18-May-10	7:08:04	39656845	-76173035
54-141 (A1)	18-May-10	7:08:09	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	133	3	18-May-10	7:12:45	39657186	-76172854
54-141 (A1)	18-May-10	7:09:06	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	112	1	18-May-10	7:09:06	39656015	-76173489
54-141 (A1)	18-May-10	7:09:57	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	82	2	18-May-10	7:10:54	39657308	-76172818
54-141 (A1)	18-May-10	7:13:31	Conowingo Tailrace Units 1-7 Master	17	A	91	1	18-May-10	7:13:31		
54-141 (A1)	18-May-10	7:13:38	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	96	3	18-May-10	7:17:00	39656488	-76173233
54-141 (A1)	18-May-10	7:15:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	115	2	18-May-10	7:16:09	39657186	-76172854
54-141 (A1)	18-May-10	7:15:34	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	74	1	18-May-10	7:15:34	39657308	-76172818
54-141 (A1)	18-May-10	7:17:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	166	1	18-May-10	7:17:06	39656845	-76173035
54-141 (A1)	18-May-10	7:18:26	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	124	1	18-May-10	7:18:26	39657186	-76172854
54-141 (A1)	18-May-10	7:20:27	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	104	2	18-May-10	7:21:35	39656488	-76173233
54-141 (A1)	18-May-10	7:20:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	96	2	18-May-10	7:21:41	39656845	-76173035
54-141 (A1)	18-May-10	7:23:52	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	112	2	18-May-10	7:27:23	39656488	-76173233
54-141 (A1)	18-May-10	7:24:58	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	73	2	18-May-10	7:27:19	39656015	-76173489
54-141 (A1)	18-May-10	7:25:15	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	92	3	18-May-10	7:27:33	39657186	-76172854
54-141 (A1)	18-May-10	7:29:41	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	90	1	18-May-10	7:29:41	39656488	-76173233
54-141 (A1)	18-May-10	7:30:44	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	124	1	18-May-10	7:30:44	39656015	-76173489
54-141 (A1)	18-May-10	7:30:53	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	82	1	18-May-10	7:30:53	39656845	-76173035
54-141 (A1)	18-May-10	7:33:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	148	3	18-May-10	7:35:29	39656488	-76173233
54-141 (A1)	18-May-10	7:33:10	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	154	1	18-May-10	7:33:10	39656845	-76173035
54-141 (A1)	18-May-10	7:33:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	113	3	18-May-10	7:35:41	39657186	-76172854
54-141 (A1)	18-May-10	7:36:33	Conowingo Tailrace Units 1-7 Master	17	A	66	1	18-May-10	7:36:33		
54-141 (A1)	18-May-10	7:38:49	Conowingo Tailrace Units 1-7 Master	17	A	100	1	18-May-10	7:38:49		
54-141 (A1)	18-May-10	7:41:25	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	120	2	18-May-10	7:42:33	39656845	-76173035
54-141 (A1)	18-May-10	7:43:42	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	93	2	18-May-10	7:44:52	39656488	-76173233
54-141 (A1)	18-May-10	7:45:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	152	3	18-May-10	7:47:31	39656845	-76173035
54-141 (A1)	18-May-10	7:45:06	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	156	3	18-May-10	7:47:38	39657186	-76172854
54-141 (A1)	18-May-10	7:47:19	Conowingo Tailrace Units 1-7 Master	17	A	103	1	18-May-10	7:47:19		
54-141 (A1)	18-May-10	7:48:33	Conowingo Tailrace Units 1-7 Master	17	A	112	2	18-May-10	7:49:44		
54-141 (A1)	18-May-10	7:51:05	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	128	2	18-May-10	7:52:23	39656015	-76173489
54-141 (A1)	18-May-10	7:52:28	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	147	1	18-May-10	7:52:28	39656488	-76173233
54-141 (A1)	18-May-10	7:54:51	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	101	1	18-May-10	7:54:51	39656488	-76173233
54-141 (A1)	18-May-10	7:56:02	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	131	2	18-May-10	7:57:17	39656015	-76173489
54-141 (A1)	18-May-10	7:57:33	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	67	1	18-May-10	7:57:33	39657186	-76172854
54-141 (A1)	18-May-10	7:58:36	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	140	1	18-May-10	7:58:36	39656015	-76173489
54-141 (A1)	18-May-10	7:58:42	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	140	2	18-May-10	8:01:21	39656488	-76173233
54-141 (A1)	18-May-10	8:01:12	Conowingo Tailrace Units 1-7 Master	17	A	147	1	18-May-10	8:01:12		
54-141 (A1)	18-May-10	8:03:54	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	92	3	18-May-10	8:07:42	39656488	-76173233
54-141 (A1)	18-May-10	8:04:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	161	3	18-May-10	8:07:49	39656845	-76173035
54-141 (A1)	18-May-10	8:05:05	Conowingo Tailrace Units 1-7 Master	17	A	86	2	18-May-10	8:06:25		

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	18-May-10	8:05:10	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	69	1	18-May-10	8:05:10	39656015	-76173489
54-141 (A1)	18-May-10	8:10:03	Conowingo Tailrace Units 1-7 Master	17	A	172	1	18-May-10	8:10:03		
54-141 (A1)	18-May-10	8:10:18	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	161	3	18-May-10	8:12:40	39656845	-76173035
54-141 (A1)	18-May-10	8:13:41	Conowingo Tailrace Units 1-7 Master	17	A	91	2	18-May-10	8:16:08		
54-141 (A1)	18-May-10	8:14:04	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	148	3	18-May-10	8:16:28	39657186	-76172854
54-141 (A1)	18-May-10	8:16:16	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	138	1	18-May-10	8:16:16	39656488	-76173233
54-141 (A1)	18-May-10	8:16:22	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	201	1	18-May-10	8:16:22	39656845	-76173035
54-141 (A1)	18-May-10	8:18:05	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	101	1	18-May-10	8:18:05	39657308	-76172818
54-141 (A1)	18-May-10	8:18:35	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	118	2	18-May-10	8:22:00	39656845	-76173035
54-141 (A1)	18-May-10	8:18:40	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	152	1	18-May-10	8:18:40	39657186	-76172854
54-141 (A1)	18-May-10	8:24:09	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	102	2	18-May-10	8:26:24	39656488	-76173233
54-141 (A1)	18-May-10	8:26:29	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	114	2	18-May-10	8:27:35	39656845	-76173035
54-141 (A1)	18-May-10	8:26:36	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	115	1	18-May-10	8:26:36	39657186	-76172854
54-141 (A1)	18-May-10	8:28:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	106	2	18-May-10	8:30:01	39656845	-76173035
54-141 (A1)	18-May-10	8:31:07	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	60	1	18-May-10	8:31:07	39656488	-76173233
54-141 (A1)	18-May-10	8:31:22	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	112	2	18-May-10	8:32:34	39657186	-76172854
54-141 (A1)	18-May-10	8:33:33	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	87	1	18-May-10	8:33:33	39656488	-76173233
54-141 (A1)	18-May-10	8:33:50	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	90	3	18-May-10	8:37:32	39657186	-76172854
54-141 (A1)	18-May-10	8:35:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	111	1	18-May-10	8:35:00	39656845	-76173035
54-141 (A1)	18-May-10	8:38:41	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	2	18-May-10	8:42:30	39656845	-76173035
54-141 (A1)	18-May-10	8:40:02	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	65	1	18-May-10	8:40:02	39657186	-76172854
54-141 (A1)	18-May-10	8:43:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	125	2	18-May-10	8:45:05	39656845	-76173035
54-141 (A1)	18-May-10	8:43:55	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	84	1	18-May-10	8:43:55	39657186	-76172854
54-141 (A1)	18-May-10	8:49:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	134	2	18-May-10	8:51:36	39656845	-76173035
54-141 (A1)	18-May-10	8:51:23	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	103	1	18-May-10	8:51:23	39656015	-76173489
54-141 (A1)	18-May-10	8:51:43	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	1	18-May-10	8:51:43	39657186	-76172854
54-141 (A1)	18-May-10	8:52:51	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	165	1	18-May-10	8:52:51	39656488	-76173233
54-141 (A1)	18-May-10	8:54:12	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	134	3	18-May-10	8:58:03	39656488	-76173233
54-141 (A1)	18-May-10	8:54:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	117	2	18-May-10	8:55:43	39657186	-76172854
54-141 (A1)	18-May-10	8:56:40	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	81	1	18-May-10	8:56:40	39656015	-76173489
54-141 (A1)	18-May-10	8:58:10	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	113	1	18-May-10	8:58:10	39656845	-76173035
54-141 (A1)	18-May-10	8:59:16	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	98	3	18-May-10	9:02:51	39656488	-76173233
54-141 (A1)	18-May-10	9:00:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	138	3	18-May-10	9:03:00	39656845	-76173035
54-141 (A1)	18-May-10	9:00:42	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	75	1	18-May-10	9:00:42	39657186	-76172854
54-141 (A1)	18-May-10	9:04:23	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	83	2	18-May-10	9:08:09	39657186	-76172854
54-141 (A1)	18-May-10	9:05:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	127	2	18-May-10	9:06:45	39656845	-76173035
54-141 (A1)	18-May-10	9:05:33	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	115	1	18-May-10	9:05:33	39657308	-76172818
54-141 (A1)	18-May-10	9:11:36	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	79	1	18-May-10	9:11:36	39656488	-76173233
54-141 (A1)	18-May-10	9:50:48	Rowland Island West (Near-Field)	0	2	83	1	18-May-10	9:50:48	39652629	-76168481
54-141 (A1)	18-May-10	10:42:22	Rowland Island West (Near-Field)	0	2	79	4	18-May-10	10:43:33	39652629	-76168481
54-141 (A1)	18-May-10	11:33:30	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	105	1	18-May-10	11:33:30	39656845	-76173035
54-141 (A1)	18-May-10	11:34:37	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	91	1	18-May-10	11:34:37	39657186	-76172854
54-141 (A1)	18-May-10	11:41:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	77	1	18-May-10	11:41:52	39656845	-76173035
54-141 (A1)	18-May-10	11:41:57	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	115	1	18-May-10	11:41:57	39657186	-76172854
54-141 (A1)	18-May-10	11:50:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	62	1	18-May-10	11:50:58	39657186	-76172854
54-141 (A1)	18-May-10	11:57:57	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	134	1	18-May-10	11:57:57	39656488	-76173233
54-141 (A1)	18-May-10	11:59:12	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	131	1	18-May-10	11:59:12	39656015	-76173489
54-141 (A1)	18-May-10	11:59:34	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	99	1	18-May-10	11:59:34	39657186	-76172854
54-141 (A1)	18-May-10	12:00:34	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	161	4	18-May-10	12:04:29	39656488	-76173233
54-141 (A1)	18-May-10	12:00:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	152	3	18-May-10	12:04:39	39656845	-76173035
54-141 (A1)	18-May-10	12:01:48	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	109	2	18-May-10	12:03:05	39656015	-76173489
54-141 (A1)	18-May-10	12:03:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	69	2	18-May-10	12:04:47	39657186	-76172854
54-141 (A1)	18-May-10	12:05:46	Conowingo Tailrace Units 1-7 Master	17	A	90	1	18-May-10	12:05:46		
54-141 (A1)	18-May-10	12:05:51	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	73	1	18-May-10	12:05:51	39657308	-76172818
54-141 (A1)	18-May-10	12:06:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	153	3	18-May-10	12:08:50	39656845	-76173035
54-141 (A1)	18-May-10	12:06:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	112	2	18-May-10	12:09:00	39657186	-76172854
54-141 (A1)	18-May-10	12:07:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	123	2	18-May-10	12:08:41	39656488	-76173233
54-141 (A1)	18-May-10	12:10:12	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	126	2	18-May-10	12:11:31	39656845	-76173035
54-141 (A1)	18-May-10	12:10:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	63	2	18-May-10	12:14:08	39657186	-76172854
54-141 (A1)	18-May-10	12:11:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	104	1	18-May-10	12:11:23	39656488	-76173233

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	18-May-10	12:15:18	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	136	3	18-May-10	12:19:10	39656845	-76173035
54-141 (A1)	18-May-10	12:16:28	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	143	2	18-May-10	12:19:03	39656488	-76173233
54-141 (A1)	18-May-10	12:20:21	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	151	3	18-May-10	12:22:57	39656488	-76173233
54-141 (A1)	18-May-10	12:20:29	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	126	3	18-May-10	12:23:05	39656845	-76173035
54-141 (A1)	18-May-10	12:22:46	Conowingo Tailrace Units 1-7 Master	17	A	72	1	18-May-10	12:22:46		
54-141 (A1)	18-May-10	12:22:52	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	86	1	18-May-10	12:22:52	39656015	-76173489
54-141 (A1)	18-May-10	12:23:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	146	1	18-May-10	12:23:16	39657186	-76172854
54-141 (A1)	18-May-10	12:25:23	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	153	1	18-May-10	12:25:23	39656015	-76173489
54-141 (A1)	18-May-10	12:25:28	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	161	4	18-May-10	12:29:12	39656488	-76173233
54-141 (A1)	18-May-10	12:25:42	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	99	2	18-May-10	12:29:30	39657186	-76172854
54-141 (A1)	18-May-10	12:26:48	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	152	3	18-May-10	12:29:21	39656845	-76173035
54-141 (A1)	18-May-10	12:30:26	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	144	2	18-May-10	12:31:43	39656488	-76173233
54-141 (A1)	18-May-10	12:30:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	148	4	18-May-10	12:34:20	39656845	-76173035
54-141 (A1)	18-May-10	12:30:42	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	120	4	18-May-10	12:34:28	39657186	-76172854
54-141 (A1)	18-May-10	12:33:24	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	92	1	18-May-10	12:33:24	39657308	-76172818
54-141 (A1)	18-May-10	12:35:22	Conowingo Tailrace Units 1-7 Master	17	A	80	3	18-May-10	12:38:03		
54-141 (A1)	18-May-10	12:35:30	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	150	3	18-May-10	12:39:32	39656488	-76173233
54-141 (A1)	18-May-10	12:35:37	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	160	4	18-May-10	12:39:38	39656845	-76173035
54-141 (A1)	18-May-10	12:35:46	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	96	1	18-May-10	12:35:46	39657186	-76172854
54-141 (A1)	18-May-10	12:39:28	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	165	1	18-May-10	12:39:28	39656015	-76173489
54-141 (A1)	18-May-10	12:40:39	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	148	2	18-May-10	12:43:02	39656015	-76173489
54-141 (A1)	18-May-10	12:40:44	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	159	3	18-May-10	12:43:07	39656488	-76173233
54-141 (A1)	18-May-10	12:40:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	123	3	18-May-10	12:44:26	39656845	-76173035
54-141 (A1)	18-May-10	12:43:22	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	106	1	18-May-10	12:43:22	39657186	-76172854
54-141 (A1)	18-May-10	12:46:52	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	69	3	18-May-10	12:50:06	39657186	-76172854
54-141 (A1)	18-May-10	12:48:49	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	89	1	18-May-10	12:48:49	39656488	-76173233
54-141 (A1)	18-May-10	12:48:55	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	146	1	18-May-10	12:48:55	39656845	-76173035
54-141 (A1)	18-May-10	12:51:09	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	149	1	18-May-10	12:51:09	39656845	-76173035
54-141 (A1)	18-May-10	12:51:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	160	1	18-May-10	12:51:16	39657186	-76172854
54-141 (A1)	18-May-10	12:51:51	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	90	1	18-May-10	12:51:51	39657480	-76172724
54-141 (A1)	18-May-10	12:52:47	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	132	2	18-May-10	12:54:45	39657480	-76172724
54-141 (A1)	18-May-10	12:55:09	"A" Gate Aerial	4	0	63	1	18-May-10	12:55:09	39658424	-76174012
54-141 (A1)	18-May-10	12:56:47	"A" Gate Aerial	4	0	63	1	18-May-10	12:56:47	39658424	-76174012
54-141 (A1)	18-May-10	12:57:44	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	102	1	18-May-10	12:57:44	39657674	-76172621
54-141 (A1)	18-May-10	13:03:22	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	81	1	18-May-10	13:03:22	39657674	-76172621
54-141 (A1)	18-May-10	13:06:43	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	101	1	18-May-10	13:06:43	39657186	-76172854
54-141 (A1)	18-May-10	13:07:57	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	122	4	18-May-10	13:12:38	39657480	-76172724
54-141 (A1)	18-May-10	13:08:00	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	129	2	18-May-10	13:10:48	39657674	-76172621
54-141 (A1)	18-May-10	13:11:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	122	2	18-May-10	13:12:48	39657186	-76172854
54-141 (A1)	18-May-10	13:12:34	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	104	1	18-May-10	13:12:34	39657308	-76172818
54-141 (A1)	18-May-10	13:13:34	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	94	1	18-May-10	13:13:34	39657480	-76172724
54-141 (A1)	18-May-10	13:15:24	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	113	2	18-May-10	13:16:20	39657308	-76172818
54-141 (A1)	18-May-10	13:15:50	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	75	2	18-May-10	13:17:47	39657186	-76172854
54-141 (A1)	18-May-10	13:17:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	71	1	18-May-10	13:17:42	39656845	-76173035
54-141 (A1)	18-May-10	13:45:15	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	70	1	18-May-10	13:45:15	39657186	-76172854
54-141 (A1)	18-May-10	13:49:07	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	126	2	18-May-10	13:50:05	39656845	-76173035
54-141 (A1)	18-May-10	13:50:09	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	95	1	18-May-10	13:50:09	39657186	-76172854
54-141 (A1)	18-May-10	13:51:07	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	80	1	18-May-10	13:51:07	39657186	-76172854
54-141 (A1)	18-May-10	13:56:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	94	2	18-May-10	13:57:58	39657186	-76172854
54-141 (A1)	18-May-10	13:57:54	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	95	1	18-May-10	13:57:54	39656845	-76173035
54-141 (A1)	18-May-10	14:04:04	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	116	1	18-May-10	14:04:04	39657186	-76172854
54-141 (A1)	18-May-10	14:07:11	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	138	1	18-May-10	14:07:11	39656845	-76173035
54-141 (A1)	18-May-10	14:07:17	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	98	2	18-May-10	14:10:17	39657186	-76172854
54-141 (A1)	18-May-10	14:07:54	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	97	1	18-May-10	14:07:54	39657308	-76172818
54-141 (A1)	18-May-10	14:11:15	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	135	2	18-May-10	14:12:17	39657186	-76172854
54-141 (A1)	18-May-10	14:12:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	96	2	18-May-10	14:15:13	39656845	-76173035
54-141 (A1)	18-May-10	14:13:03	Conowingo Tailrace Units 1-7 Master	17	A	104	1	18-May-10	14:13:03		
54-141 (A1)	18-May-10	14:16:10	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	111	3	18-May-10	14:20:13	39656845	-76173035
54-141 (A1)	18-May-10	14:16:14	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	109	5	18-May-10	14:20:18	39657186	-76172854
54-141 (A1)	18-May-10	14:19:04	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	112	1	18-May-10	14:19:04	39657308	-76172818



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	18-May-10	14:22:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	114	2	18-May-10	14:24:21	39657186	-76172854
54-141 (A1)	18-May-10	14:32:21	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	88	1	18-May-10	14:32:21	39657186	-76172854
54-141 (A1)	18-May-10	14:38:47	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	80	2	18-May-10	14:39:54	39656845	-76173035
54-141 (A1)	18-May-10	14:41:05	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	111	2	18-May-10	14:42:12	39657186	-76172854
54-141 (A1)	18-May-10	14:46:36	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	81	1	18-May-10	14:46:36	39657186	-76172854
54-141 (A1)	18-May-10	15:13:33	"C" Gate Aerial	2	A	68	1	18-May-10	15:13:33	39658449	-76173476
54-141 (A1)	18-May-10	15:14:09	"C" Gate Aerial	2	A	83	1	18-May-10	15:14:09	39658449	-76173476
54-141 (A1)	18-May-10	15:14:27	"C" Gate Aerial	2	A	87	1	18-May-10	15:14:27	39658449	-76173476
54-141 (A1)	18-May-10	15:17:42	"C" Gate Aerial	2	A	65	1	18-May-10	15:17:42	39658449	-76173476
54-141 (A1)	18-May-10	15:17:49	"C" Gate Aerial	2	A	122	1	18-May-10	15:17:49	39658449	-76173476
54-141 (A1)	18-May-10	15:17:56	"C" Gate Aerial	2	A	169	1	18-May-10	15:17:56	39658449	-76173476
54-141 (A1)	18-May-10	15:18:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	84	1	18-May-10	15:18:06	39656845	-76173035
54-141 (A1)	18-May-10	15:18:09	"C" Gate Aerial	2	A	150	1	18-May-10	15:18:09	39658449	-76173476
54-141 (A1)	18-May-10	15:18:27	"C" Gate Aerial	2	A	73	1	18-May-10	15:18:27	39658449	-76173476
54-141 (A1)	18-May-10	15:21:00	"C" Gate Aerial	2	A	71	1	18-May-10	15:21:00	39658449	-76173476
54-141 (A1)	18-May-10	15:23:22	"C" Gate Aerial	2	A	122	1	18-May-10	15:23:22	39658449	-76173476
54-141 (A1)	18-May-10	15:23:46	"C" Gate Aerial	2	A	87	1	18-May-10	15:23:46	39658449	-76173476
54-141 (A1)	18-May-10	15:23:53	"C" Gate Aerial	2	A	84	1	18-May-10	15:23:53	39658449	-76173476
54-141 (A1)	18-May-10	15:29:27	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	114	1	18-May-10	15:29:27	39657674	-76172621
54-141 (A1)	18-May-10	15:32:47	"A" Gate Aerial	4	0	62	1	18-May-10	15:32:47	39658424	-76174012
54-141 (A1)	18-May-10	15:36:00	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	169	1	18-May-10	15:36:00	39657480	-76172724
54-141 (A1)	18-May-10	15:46:33	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	83	2	18-May-10	15:50:47	39657186	-76172854
54-141 (A1)	18-May-10	15:53:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	115	3	18-May-10	15:55:48	39656845	-76173035
54-141 (A1)	18-May-10	15:55:43	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	80	1	18-May-10	15:55:43	39656488	-76173233
54-141 (A1)	18-May-10	15:55:52	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	88	1	18-May-10	15:55:52	39657186	-76172854
54-141 (A1)	18-May-10	15:56:53	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	135	1	18-May-10	15:56:53	39656845	-76173035
54-141 (A1)	18-May-10	16:00:49	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	93	1	18-May-10	16:00:49	39656488	-76173233
54-141 (A1)	18-May-10	16:01:49	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	109	5	18-May-10	16:06:06	39656488	-76173233
54-141 (A1)	18-May-10	16:08:16	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	170	1	18-May-10	16:08:16	39656488	-76173233
54-141 (A1)	18-May-10	16:08:23	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	164	1	18-May-10	16:08:23	39656845	-76173035
54-141 (A1)	18-May-10	16:08:30	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	82	1	18-May-10	16:08:30	39657186	-76172854
54-141 (A1)	18-May-10	16:12:36	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	129	2	18-May-10	16:13:42	39656488	-76173233
54-141 (A1)	18-May-10	16:12:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	82	4	18-May-10	16:15:56	39656845	-76173035
54-141 (A1)	18-May-10	16:13:53	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	135	1	18-May-10	16:13:53	39657186	-76172854
54-141 (A1)	18-May-10	16:17:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	118	1	18-May-10	16:17:00	39656488	-76173233
54-141 (A1)	18-May-10	16:17:10	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	130	1	18-May-10	16:17:10	39656845	-76173035
54-141 (A1)	18-May-10	16:24:13	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	121	2	18-May-10	16:25:16	39656015	-76173489
54-141 (A1)	18-May-10	16:24:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	66	1	18-May-10	16:24:17	39656488	-76173233
54-141 (A1)	18-May-10	16:25:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	1	18-May-10	16:25:28	39656845	-76173035
54-141 (A1)	18-May-10	16:26:26	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	140	5	18-May-10	16:30:37	39656015	-76173489
54-141 (A1)	18-May-10	16:26:29	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	123	4	18-May-10	16:30:41	39656488	-76173233
54-141 (A1)	18-May-10	16:26:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	129	2	18-May-10	16:29:45	39656845	-76173035
54-141 (A1)	18-May-10	16:31:39	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	142	2	18-May-10	16:34:47	39656015	-76173489
54-141 (A1)	18-May-10	16:31:43	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	142	5	18-May-10	16:35:58	39656488	-76173233
54-141 (A1)	18-May-10	16:31:47	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	124	3	18-May-10	16:34:56	39656845	-76173035
54-141 (A1)	18-May-10	16:35:49	Conowingo Tailrace Units 1-7 Master	17	A	86	1	18-May-10	16:35:49		
54-141 (A1)	18-May-10	16:39:05	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	108	3	18-May-10	16:41:15	39656015	-76173489
54-141 (A1)	18-May-10	16:39:10	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	140	3	18-May-10	16:41:20	39656488	-76173233
54-141 (A1)	18-May-10	16:40:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	125	2	18-May-10	16:41:24	39656845	-76173035
54-141 (A1)	18-May-10	16:41:29	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	147	1	18-May-10	16:41:29	39657186	-76172854
54-141 (A1)	18-May-10	16:43:20	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	101	2	18-May-10	16:44:19	39656488	-76173233
54-141 (A1)	18-May-10	16:44:23	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	124	1	18-May-10	16:44:23	39656845	-76173035
54-141 (A1)	18-May-10	16:47:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	127	4	18-May-10	16:50:20	39656845	-76173035
54-141 (A1)	18-May-10	16:48:10	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	132	3	18-May-10	16:50:14	39656488	-76173233
54-141 (A1)	18-May-10	16:49:04	Conowingo Tailrace Units 1-7 Master	17	A	80	1	18-May-10	16:49:04		
54-141 (A1)	18-May-10	16:49:08	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	111	1	18-May-10	16:49:08	39656015	-76173489
54-141 (A1)	18-May-10	16:57:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	104	4	18-May-10	17:00:35	39656488	-76173233
54-141 (A1)	18-May-10	16:59:24	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	130	3	18-May-10	17:01:33	39656015	-76173489
54-141 (A1)	18-May-10	16:59:36	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	109	2	18-May-10	17:00:39	39656845	-76173035
54-141 (A1)	18-May-10	17:01:39	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	131	3	18-May-10	17:04:52	39656488	-76173233

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-141 (A1)	18-May-10	17:01:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	111	2	18-May-10	17:02:49	39656845	-76173035
54-141 (A1)	18-May-10	17:02:38	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	129	3	18-May-10	17:04:46	39656015	-76173489
54-141 (A1)	18-May-10	17:06:47	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	133	5	18-May-10	17:10:51	39656015	-76173489
54-141 (A1)	18-May-10	17:06:53	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	121	4	18-May-10	17:10:56	39656488	-76173233
54-141 (A1)	18-May-10	17:09:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	72	3	18-May-10	17:11:01	39656845	-76173035
54-141 (A1)	18-May-10	17:10:47	Conowingo Tailrace Units 1-7 Master	17	A	74	1	18-May-10	17:10:47		
54-141 (A1)	18-May-10	17:11:52	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	124	4	18-May-10	17:15:55	39656015	-76173489
54-141 (A1)	18-May-10	17:11:57	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	116	2	18-May-10	17:15:00	39656488	-76173233
54-141 (A1)	18-May-10	17:12:03	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	101	3	18-May-10	17:15:04	39656845	-76173035
54-141 (A1)	18-May-10	17:12:08	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	1	18-May-10	17:12:08	39657186	-76172854
54-141 (A1)	18-May-10	17:16:56	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	132	4	18-May-10	17:21:11	39656015	-76173489
54-141 (A1)	18-May-10	17:17:01	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	5	18-May-10	17:21:16	39656488	-76173233
54-141 (A1)	18-May-10	17:18:11	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	78	3	18-May-10	17:21:21	39656845	-76173035
54-141 (A1)	18-May-10	17:19:19	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	2	18-May-10	17:21:25	39657186	-76172854
54-141 (A1)	18-May-10	17:22:13	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	126	5	18-May-10	17:26:31	39656015	-76173489
54-141 (A1)	18-May-10	17:22:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	132	5	18-May-10	17:26:36	39656488	-76173233
54-141 (A1)	18-May-10	17:22:21	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	111	4	18-May-10	17:26:41	39656845	-76173035
54-141 (A1)	18-May-10	17:22:26	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	106	1	18-May-10	17:22:26	39657186	-76172854
54-141 (A1)	18-May-10	17:27:35	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	141	2	18-May-10	17:30:39	39656015	-76173489
54-141 (A1)	18-May-10	17:27:40	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	150	5	18-May-10	17:31:45	39656488	-76173233
54-141 (A1)	18-May-10	17:27:47	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	96	3	18-May-10	17:30:48	39656845	-76173035
54-141 (A1)	18-May-10	17:28:37	Conowingo Tailrace Units 1-7 Master	17	A	92	2	18-May-10	17:30:35		
54-141 (A1)	18-May-10	17:28:52	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	66	1	18-May-10	17:28:52	39657186	-76172854
54-141 (A1)	18-May-10	17:31:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	111	4	18-May-10	17:36:06	39656845	-76173035
54-141 (A1)	18-May-10	17:31:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	62	1	18-May-10	17:31:54	39657186	-76172854
54-141 (A1)	18-May-10	17:33:50	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	173	3	18-May-10	17:36:01	39656488	-76173233
54-141 (A1)	18-May-10	17:34:49	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	162	2	18-May-10	17:35:57	39656015	-76173489
54-141 (A1)	18-May-10	17:35:53	Conowingo Tailrace Units 1-7 Master	17	A	148	1	18-May-10	17:35:53		
54-141 (A1)	18-May-10	17:36:58	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	130	3	18-May-10	17:38:57	39656015	-76173489
54-141 (A1)	18-May-10	17:37:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	133	4	18-May-10	17:41:00	39656488	-76173233
54-141 (A1)	18-May-10	17:38:08	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	90	2	18-May-10	17:41:08	39657186	-76172854
54-141 (A1)	18-May-10	17:39:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	132	2	18-May-10	17:41:03	39656845	-76173035
54-141 (A1)	18-May-10	17:41:55	Conowingo Tailrace Units 1-7 Master	17	A	73	3	18-May-10	17:46:03		
54-141 (A1)	18-May-10	17:42:00	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	114	2	18-May-10	17:44:03	39656015	-76173489
54-141 (A1)	18-May-10	17:42:04	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	155	5	18-May-10	17:46:10	39656488	-76173233
54-141 (A1)	18-May-10	17:42:08	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	133	4	18-May-10	17:46:16	39656845	-76173035
54-141 (A1)	18-May-10	17:42:13	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	146	1	18-May-10	17:42:13	39657186	-76172854
54-141 (A1)	18-May-10	17:47:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	140	3	18-May-10	17:51:23	39656488	-76173233
54-141 (A1)	18-May-10	17:47:21	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	116	4	18-May-10	17:51:29	39656845	-76173035
54-141 (A1)	18-May-10	17:48:14	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	163	2	18-May-10	17:49:13	39656015	-76173489
54-141 (A1)	18-May-10	17:49:26	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	62	1	18-May-10	17:49:26	39657186	-76172854
54-141 (A1)	18-May-10	17:58:39	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	134	3	18-May-10	18:01:51	39656488	-76173233
54-141 (A1)	18-May-10	17:58:43	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	80	2	18-May-10	18:01:55	39656845	-76173035
54-141 (A1)	18-May-10	17:59:38	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	94	1	18-May-10	17:59:38	39656015	-76173489
54-141 (A1)	18-May-10	18:00:38	Conowingo Tailrace Units 1-7 Master	17	A	108	2	18-May-10	18:01:41		
54-141 (A1)	18-May-10	18:02:48	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	125	5	18-May-10	18:06:52	39656015	-76173489
54-141 (A1)	18-May-10	18:03:44	Conowingo Tailrace Units 1-7 Master	17	A	113	1	18-May-10	18:03:44		
54-141 (A1)	18-May-10	18:05:54	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	120	1	18-May-10	18:05:54	39656488	-76173233
54-141 (A1)	18-May-10	18:06:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	136	1	18-May-10	18:06:00	39656845	-76173035
54-141 (A1)	18-May-10	18:07:52	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	115	1	18-May-10	18:07:52	39656015	-76173489
54-141 (A1)	18-May-10	18:07:56	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	112	2	18-May-10	18:11:53	39656488	-76173233
54-141 (A1)	18-May-10	18:08:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	95	2	18-May-10	18:11:57	39656845	-76173035
54-141 (A1)	18-May-10	18:08:06	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	92	1	18-May-10	18:08:06	39657186	-76172854
54-141 (A1)	18-May-10	18:12:47	Conowingo Tailrace Units 1-7 Master	17	A	117	1	18-May-10	18:12:47		
54-141 (A1)	18-May-10	18:12:52	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	91	1	18-May-10	18:12:52	39656015	-76173489
54-141 (A1)	18-May-10	18:12:56	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	196	1	18-May-10	18:12:56	39656488	-76173233
54-141 (A1)	18-May-10	18:14:01	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	84	1	18-May-10	18:14:01	39657186	-76172854
54-141 (A1)	18-May-10	18:16:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	145	1	18-May-10	18:16:57	39656845	-76173035
54-141 (A1)	18-May-10	18:20:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	134	1	18-May-10	18:20:54	39657186	-76172854
54-141 (A1)	18-May-10	19:46:37	Spencer Island West (Near-Field)	8	1	116	3	18-May-10	19:48:18	39605974	-76130720



<b>Fish</b>	<b>StartDate</b>	<b>StartTime</b>	<b>Location</b>	<b>Rec.</b>	<b>Ant.</b>	<b>Pwr.</b>	<b>Eve.</b>	<b>StopDate</b>	<b>StopTime</b>	<b>Lat.</b>	<b>Long.</b>
54-141 (A1)	18-May-10	19:51:14	Lapidum (West Shore) (Near-Field)	10	0	140	13	18-May-10	19:54:06	39601082	-76126821
54-141 (A1)	18-May-10	19:54:20	Lapidum (West Shore) (Near-Field)	10	0	107	7	18-May-10	19:57:41	39601082	-76126821

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	07-May-10	13:10:00	Conowingo Tailrace					07-May-10	13:10:00	39657697	-76171191
54-144 (A1)	07-May-10	14:27:55	Rowland Island West (Near-Field)	1	A	74	1	07-May-10	14:27:55	39652629	-76168481
54-144 (A1)	07-May-10	14:36:20	Rowland Island East (Near-Field)	1	1	104	1	07-May-10	14:36:20	39654615	-76164570
54-144 (A1)	07-May-10	14:48:18	Rowland Island East (Near-Field)	1	1	80	1	07-May-10	14:48:18	39654615	-76164570
54-144 (A1)	08-May-10	16:32:58	Lapidum (West Shore) (Near-Field)	10	0	57	1	08-May-10	16:32:58	39601082	-76126821
54-144 (A1)	08-May-10	16:37:45	Lapidum (West Shore) (Near-Field)	10	0	64	1	08-May-10	16:37:45	39601082	-76126821
54-144 (A1)	13-May-10	5:25:23	Lapidum (West Shore) (Near-Field)	10	0	84	1	13-May-10	5:25:23	39601082	-76126821
54-144 (A1)	13-May-10	8:22:48	Spencer Island West (Near-Field)	8	1	106	5	13-May-10	8:26:21	39605974	-76130720
54-144 (A1)	13-May-10	8:26:49	Spencer Island West (Near-Field)	8	1	122	7	13-May-10	8:29:54	39605974	-76130720
54-144 (A1)	13-May-10	10:02:13	Spencer Island West (Near-Field)	8	1	81	2	13-May-10	10:04:46	39605974	-76130720
54-144 (A1)	13-May-10	11:05:57	Spencer Island West (Near-Field)	8	1	73	1	13-May-10	11:05:57	39605974	-76130720
54-144 (A1)	13-May-10	11:08:08	Spencer Island West (Near-Field)	8	1	86	6	13-May-10	11:12:00	39605974	-76130720
54-144 (A1)	13-May-10	11:26:15	Spencer Island West (Near-Field)	8	1	83	1	13-May-10	11:26:15	39605974	-76130720
54-144 (A1)	13-May-10	14:13:18	Spencer Island West (Near-Field)	8	1	78	2	13-May-10	14:16:22	39605974	-76130720
54-144 (A1)	13-May-10	14:19:00	Spencer Island West (Near-Field)	8	1	97	2	13-May-10	14:20:45	39605974	-76130720
54-144 (A1)	13-May-10	14:37:37	Spencer Island West (Near-Field)	8	1	70	1	13-May-10	14:37:37	39605974	-76130720
54-144 (A1)	13-May-10	16:05:44	Lapidum (West Shore) (Near-Field)	10	0	88	1	13-May-10	16:05:44	39601082	-76126821
54-144 (A1)	13-May-10	19:03:24	Spencer Island West (Near-Field)	8	1	78	1	13-May-10	19:03:24	39605974	-76130720
54-144 (A1)	13-May-10	19:06:48	Spencer Island West (Near-Field)	8	1	86	2	13-May-10	19:08:30	39605974	-76130720
54-144 (A1)	13-May-10	19:47:00	Eddy below last river Ledge, Opposite of Robert Is	-1		0	1			39614067	-76148333
54-144 (A1)	14-May-10	0:41:50	Rowland Island West (Near-Field)	0	2	59	6	14-May-10	0:49:51	39652629	-76168481
54-144 (A1)	14-May-10	0:51:50	Rowland Island West (Near-Field)	0	2	69	10	14-May-10	1:01:03	39652629	-76168481
54-144 (A1)	14-May-10	1:01:50	Rowland Island West (Near-Field)	0	2	67	9	14-May-10	1:11:01	39652629	-76168481
54-144 (A1)	14-May-10	1:13:03	Rowland Island West (Near-Field)	0	2	64	6	14-May-10	1:22:14	39652629	-76168481
54-144 (A1)	14-May-10	1:23:50	Rowland Island West (Near-Field)	0	2	62	3	14-May-10	1:32:38	39652629	-76168481
54-144 (A1)	14-May-10	1:37:01	Rowland Island West (Near-Field)	0	2	83	1	14-May-10	1:37:01	39652629	-76168481
54-144 (A1)	14-May-10	4:18:37	Rowland Island West (Near-Field)	0	2	86	5	14-May-10	4:22:34	39652629	-76168481
54-144 (A1)	14-May-10	4:50:26	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	96	1	14-May-10	4:50:26	39657186	-76172854
54-144 (A1)	14-May-10	4:56:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	51	1	14-May-10	4:56:52	39656845	-76173035
54-144 (A1)	14-May-10	5:00:33	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	103	2	14-May-10	5:01:31	39656845	-76173035
54-144 (A1)	14-May-10	5:00:37	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	70	1	14-May-10	5:00:37	39657186	-76172854
54-144 (A1)	14-May-10	5:06:38	Rowland Island West (Near-Field)	0	2	63	4	14-May-10	5:13:27	39652629	-76168481
54-144 (A1)	14-May-10	5:08:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	80	1	14-May-10	5:08:00	39656845	-76173035
54-144 (A1)	14-May-10	7:14:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	97	3	14-May-10	7:17:00	39656845	-76173035
54-144 (A1)	14-May-10	7:16:56	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	70	1	14-May-10	7:16:56	39656488	-76173233
54-144 (A1)	14-May-10	7:18:54	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	108	5	14-May-10	7:23:02	39656015	-76173489
54-144 (A1)	14-May-10	7:18:58	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	4	14-May-10	7:23:09	39656488	-76173233
54-144 (A1)	14-May-10	7:24:08	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	108	3	14-May-10	7:26:15	39656015	-76173489
54-144 (A1)	14-May-10	7:24:13	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	118	4	14-May-10	7:27:25	39656488	-76173233
54-144 (A1)	14-May-10	7:29:27	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	89	3	14-May-10	7:33:39	39656015	-76173489
54-144 (A1)	14-May-10	7:30:33	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	105	2	14-May-10	7:31:35	39656488	-76173233
54-144 (A1)	14-May-10	7:39:43	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	127	2	14-May-10	7:41:49	39656015	-76173489
54-144 (A1)	14-May-10	7:42:49	Conowingo Tailrace Units 1-7 Master	17	A	81	1	14-May-10	7:42:49		
54-144 (A1)	14-May-10	7:42:55	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	128	1	14-May-10	7:42:55	39656488	-76173233
54-144 (A1)	14-May-10	8:00:08	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	93	2	14-May-10	8:02:09	39656845	-76173035
54-144 (A1)	14-May-10	8:02:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	102	1	14-May-10	8:02:05	39656488	-76173233
54-144 (A1)	14-May-10	8:04:56	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	119	2	14-May-10	8:09:00	39656015	-76173489
54-144 (A1)	14-May-10	8:05:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	186	1	14-May-10	8:05:02	39656488	-76173233
54-144 (A1)	14-May-10	8:05:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	1	14-May-10	8:05:05	39656845	-76173035
54-144 (A1)	14-May-10	8:09:11	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	62	2	14-May-10	8:12:15	39656845	-76173035
54-144 (A1)	14-May-10	8:12:06	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	70	1	14-May-10	8:12:06	39656015	-76173489
54-144 (A1)	14-May-10	8:12:11	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	95	1	14-May-10	8:12:11	39656488	-76173233
54-144 (A1)	14-May-10	8:48:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	69	2	14-May-10	8:48:57	39656488	-76173233
54-144 (A1)	14-May-10	8:52:46	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	104	1	14-May-10	8:52:46	39656488	-76173233
54-144 (A1)	14-May-10	8:53:42	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	124	1	14-May-10	8:53:42	39656015	-76173489
54-144 (A1)	14-May-10	8:54:41	Conowingo Tailrace Units 1-7 Master	17	A	68	1	14-May-10	8:54:41		
54-144 (A1)	14-May-10	8:54:45	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	109	2	14-May-10	8:58:50	39656015	-76173489
54-144 (A1)	14-May-10	9:02:58	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	91	2	14-May-10	9:04:01	39656488	-76173233
54-144 (A1)	14-May-10	9:04:09	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	109	2	14-May-10	9:04:09	39656845	-76173035
54-144 (A1)	14-May-10	10:30:24	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	161	2	14-May-10	10:31:28	39657186	-76172854
54-144 (A1)	14-May-10	10:31:10	Conowingo Tailrace Units 1-7 Master	17	A	119	3	14-May-10	10:33:19		
54-144 (A1)	14-May-10	10:31:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	151	1	14-May-10	10:31:17	39656488	-76173233
54-144 (A1)	14-May-10	10:31:23	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	163	3	14-May-10	10:33:32	39656845	-76173035
54-144 (A1)	14-May-10	10:35:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	128	1	14-May-10	10:35:42	39656845	-76173035
54-144 (A1)	14-May-10	10:35:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	82	2	14-May-10	10:36:49	39657186	-76172854

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	14-May-10	10:35:52	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	76	1	14-May-10	10:35:52	39657308	-76172818
54-144 (A1)	14-May-10	10:35:56	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	116	1	14-May-10	10:35:56	39657480	-76172724
54-144 (A1)	14-May-10	10:44:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	80	1	14-May-10	10:44:38	39656845	-76173035
54-144 (A1)	14-May-10	10:44:43	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	116	1	14-May-10	10:44:43	39657186	-76172854
54-144 (A1)	14-May-10	10:45:45	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	107	3	14-May-10	10:48:41	39657186	-76172854
54-144 (A1)	14-May-10	10:48:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	69	1	14-May-10	10:48:38	39656845	-76173035
54-144 (A1)	14-May-10	11:03:38	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	118	1	14-May-10	11:04:34	39656015	-76173489
54-144 (A1)	14-May-10	11:05:36	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	99	1	14-May-10	11:05:36	39656488	-76173233
54-144 (A1)	14-May-10	12:38:06	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	82	2	14-May-10	12:39:12	39656488	-76173233
54-144 (A1)	14-May-10	12:53:06	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	97	1	14-May-10	12:53:06	39656488	-76173233
54-144 (A1)	14-May-10	12:55:09	Conowingo Tailrace Units 1-7 Master	17	A	101	1	14-May-10	12:55:09		
54-144 (A1)	14-May-10	13:06:30	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	101	2	14-May-10	13:07:28	39656845	-76173035
54-144 (A1)	14-May-10	13:20:00	Conowingo Tailrace Units 1-7 Master	17	A	80	1	14-May-10	13:20:00		
54-144 (A1)	14-May-10	13:23:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	84	1	14-May-10	13:23:02	39656845	-76173035
54-144 (A1)	14-May-10	13:27:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	106	1	14-May-10	13:27:04	39656845	-76173035
54-144 (A1)	14-May-10	13:46:47	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	108	2	14-May-10	13:48:40	39656488	-76173233
54-144 (A1)	14-May-10	13:46:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	130	2	14-May-10	13:48:43	39656845	-76173035
54-144 (A1)	14-May-10	13:51:30	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	120	2	14-May-10	13:52:28	39656488	-76173233
54-144 (A1)	14-May-10	13:52:24	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	88	1	14-May-10	13:52:24	39656015	-76173489
54-144 (A1)	14-May-10	14:02:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	110	3	14-May-10	14:04:01	39656488	-76173233
54-144 (A1)	14-May-10	14:02:58	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	130	1	14-May-10	14:02:58	39656015	-76173489
54-144 (A1)	14-May-10	14:04:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	57	1	14-May-10	14:04:06	39656845	-76173035
54-144 (A1)	14-May-10	14:06:03	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	119	1	14-May-10	14:06:03	39656488	-76173233
54-144 (A1)	14-May-10	14:07:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	115	2	14-May-10	14:08:08	39656845	-76173035
54-144 (A1)	14-May-10	14:08:12	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	90	1	14-May-10	14:08:12	39657186	-76172854
54-144 (A1)	14-May-10	14:14:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	120	1	14-May-10	14:14:02	39656488	-76173233
54-144 (A1)	14-May-10	14:15:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	90	1	14-May-10	14:15:01	39656845	-76173035
54-144 (A1)	14-May-10	14:15:57	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	104	1	14-May-10	14:15:57	39656488	-76173233
54-144 (A1)	14-May-10	14:16:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	139	2	14-May-10	14:17:05	39656845	-76173035
54-144 (A1)	14-May-10	14:16:06	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	146	2	14-May-10	14:17:10	39657186	-76172854
54-144 (A1)	14-May-10	14:26:34	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	1	14-May-10	14:26:34	39657186	-76172854
54-144 (A1)	14-May-10	14:33:14	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	58	1	14-May-10	14:33:14	39657186	-76172854
54-144 (A1)	14-May-10	14:35:05	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	106	1	14-May-10	14:35:05	39657308	-76172818
54-144 (A1)	14-May-10	14:44:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	86	2	14-May-10	14:45:27	39657186	-76172854
54-144 (A1)	14-May-10	14:45:15	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	117	1	14-May-10	14:45:15	39657480	-76172724
54-144 (A1)	14-May-10	14:48:33	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	65	1	14-May-10	14:48:33	39657186	-76172854
54-144 (A1)	14-May-10	14:56:52	Conowingo Tailrace Units 1-7 Master	17	A	111	1	14-May-10	14:56:52		
54-144 (A1)	14-May-10	14:57:09	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	131	1	14-May-10	14:57:09	39657186	-76172854
54-144 (A1)	14-May-10	15:00:12	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	91	1	14-May-10	15:00:12	39656015	-76173489
54-144 (A1)	14-May-10	15:00:16	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	128	1	14-May-10	15:00:16	39656488	-76173233
54-144 (A1)	14-May-10	15:00:21	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	69	1	14-May-10	15:00:21	39656845	-76173035
54-144 (A1)	14-May-10	15:02:26	Conowingo Tailrace Units 1-7 Master	17	A	110	1	14-May-10	15:02:26		
54-144 (A1)	14-May-10	15:02:32	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	162	3	14-May-10	15:05:41	39656488	-76173233
54-144 (A1)	14-May-10	15:05:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	51	1	14-May-10	15:05:46	39656845	-76173035
54-144 (A1)	14-May-10	15:06:51	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	117	4	14-May-10	15:09:55	39656845	-76173035
54-144 (A1)	14-May-10	15:07:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	119	1	14-May-10	15:07:58	39657186	-76172854
54-144 (A1)	14-May-10	15:08:45	Conowingo Tailrace Units 1-7 Master	17	A	112	1	14-May-10	15:08:45		
54-144 (A1)	14-May-10	15:08:51	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	146	1	14-May-10	15:08:51	39656488	-76173233
54-144 (A1)	14-May-10	15:10:47	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	128	1	14-May-10	15:10:47	39656015	-76173489
54-144 (A1)	14-May-10	15:11:55	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	85	1	14-May-10	15:11:55	39656015	-76173489
54-144 (A1)	14-May-10	15:13:10	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	145	1	14-May-10	15:13:10	39656488	-76173233
54-144 (A1)	14-May-10	15:14:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	58	1	14-May-10	15:14:27	39657186	-76172854
54-144 (A1)	14-May-10	15:15:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	122	1	14-May-10	15:15:32	39656845	-76173035
54-144 (A1)	14-May-10	15:17:51	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	57	1	14-May-10	15:17:51	39656845	-76173035
54-144 (A1)	14-May-10	15:19:52	Conowingo Tailrace Units 1-7 Master	17	A	90	1	14-May-10	15:19:52		
54-144 (A1)	14-May-10	15:22:15	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	147	1	14-May-10	15:22:15	39656845	-76173035
54-144 (A1)	14-May-10	15:23:14	Conowingo Tailrace Units 1-7 Master	17	A	128	1	14-May-10	15:23:14		
54-144 (A1)	14-May-10	15:23:33	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	148	1	14-May-10	15:23:33	39657186	-76172854
54-144 (A1)	14-May-10	15:26:57	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	66	2	14-May-10	15:28:07	39657186	-76172854
54-144 (A1)	14-May-10	17:28:09	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	53	1	14-May-10	17:28:09	39656488	-76173233
54-144 (A1)	14-May-10	17:39:58	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	109	2	14-May-10	17:41:03	39656488	-76173233
54-144 (A1)	14-May-10	17:40:03	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	88	1	14-May-10	17:40:03	39656845	-76173035
54-144 (A1)	14-May-10	17:43:57	Conowingo Tailrace Units 1-7 Master	17	A	79	1	14-May-10	17:43:57		
54-144 (A1)	14-May-10	17:44:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	68	2	14-May-10	17:45:08	39656488	-76173233
54-144 (A1)	14-May-10	17:44:10	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	1	14-May-10	17:44:10	39656845	-76173035

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	14-May-10	17:49:17	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	64	1	14-May-10	17:49:17	39656015	-76173489
54-144 (A1)	14-May-10	17:49:21	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	67	2	14-May-10	17:50:25	39656488	-76173233
54-144 (A1)	14-May-10	17:49:26	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	115	1	14-May-10	17:49:26	39656845	-76173035
54-144 (A1)	15-May-10	6:58:26	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	80	2	15-May-10	6:59:35	39656015	-76173489
54-144 (A1)	15-May-10	6:58:31	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	151	1	15-May-10	6:58:31	39656488	-76173233
54-144 (A1)	15-May-10	7:00:41	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	73	1	15-May-10	7:00:41	39656488	-76173233
54-144 (A1)	15-May-10	7:01:42	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	74	2	15-May-10	7:02:44	39656015	-76173489
54-144 (A1)	15-May-10	7:12:02	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	121	1	15-May-10	7:12:02	39656015	-76173489
54-144 (A1)	15-May-10	7:16:29	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	56	1	15-May-10	7:16:29	39656845	-76173035
54-144 (A1)	15-May-10	7:19:56	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	146	1	15-May-10	7:19:56	39656015	-76173489
54-144 (A1)	15-May-10	7:22:30	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	101	1	15-May-10	7:22:30	39656845	-76173035
54-144 (A1)	15-May-10	7:23:27	Conowingo Tailrace Units 1-7 Master	17	A	81	1	15-May-10	7:23:27		
54-144 (A1)	15-May-10	7:24:43	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	178	1	15-May-10	7:24:43	39656015	-76173489
54-144 (A1)	15-May-10	7:25:44	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	127	1	15-May-10	7:25:44	39656015	-76173489
54-144 (A1)	15-May-10	7:32:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	98	1	15-May-10	7:32:34	39656845	-76173035
54-144 (A1)	15-May-10	7:35:38	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	107	2	15-May-10	7:38:26	39657308	-76172818
54-144 (A1)	15-May-10	7:37:12	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	157	2	15-May-10	7:38:21	39657186	-76172854
54-144 (A1)	15-May-10	7:40:18	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	86	2	15-May-10	7:43:08	39657308	-76172818
54-144 (A1)	15-May-10	7:41:39	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	136	3	15-May-10	7:45:07	39657186	-76172854
54-144 (A1)	15-May-10	7:44:08	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	125	1	15-May-10	7:44:08	39657480	-76172724
54-144 (A1)	15-May-10	7:47:48	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	114	1	15-May-10	7:47:48	39657308	-76172818
54-144 (A1)	15-May-10	8:12:41	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	137	4	15-May-10	8:15:45	39656015	-76173489
54-144 (A1)	15-May-10	8:13:49	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	102	3	15-May-10	8:15:49	39656488	-76173233
54-144 (A1)	15-May-10	8:16:46	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	123	3	15-May-10	8:19:51	39656015	-76173489
54-144 (A1)	15-May-10	8:16:50	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	104	3	15-May-10	8:18:52	39656488	-76173233
54-144 (A1)	15-May-10	8:20:54	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	100	3	15-May-10	8:25:49	39656488	-76173233
54-144 (A1)	15-May-10	8:23:53	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	121	2	15-May-10	8:25:54	39656845	-76173035
54-144 (A1)	15-May-10	8:25:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	168	1	15-May-10	8:25:58	39657186	-76172854
54-144 (A1)	15-May-10	8:27:50	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	138	3	15-May-10	8:30:50	39656488	-76173233
54-144 (A1)	15-May-10	8:28:46	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	146	2	15-May-10	8:29:45	39656015	-76173489
54-144 (A1)	15-May-10	8:31:52	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	108	2	15-May-10	8:33:54	39656488	-76173233
54-144 (A1)	15-May-10	8:32:50	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	96	2	15-May-10	8:33:50	39656015	-76173489
54-144 (A1)	15-May-10	8:38:15	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	145	1	15-May-10	8:38:15	39657308	-76172818
54-144 (A1)	15-May-10	8:38:19	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	156	1	15-May-10	8:38:19	39657480	-76172724
54-144 (A1)	15-May-10	9:00:56	"C" Gate Aerial	2	A	69	1	15-May-10	9:00:56	39658449	-76173476
54-144 (A1)	15-May-10	9:01:28	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	78	2	15-May-10	9:02:24	39657674	-76172621
54-144 (A1)	15-May-10	9:07:03	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	120	1	15-May-10	9:07:03	39657674	-76172621
54-144 (A1)	15-May-10	9:08:22	"C" Gate Aerial	2	A	108	1	15-May-10	9:08:22	39658449	-76173476
54-144 (A1)	15-May-10	9:08:35	"C" Gate Aerial	2	A	92	1	15-May-10	9:08:35	39658449	-76173476
54-144 (A1)	15-May-10	9:08:47	"C" Gate Aerial	2	A	74	1	15-May-10	9:08:47	39658449	-76173476
54-144 (A1)	15-May-10	9:09:00	"C" Gate Aerial	2	A	71	1	15-May-10	9:09:00	39658449	-76173476
54-144 (A1)	15-May-10	9:09:18	"C" Gate Aerial	2	A	90	1	15-May-10	9:09:18	39658449	-76173476
54-144 (A1)	15-May-10	9:09:36	"C" Gate Aerial	2	A	119	1	15-May-10	9:09:36	39658449	-76173476
54-144 (A1)	15-May-10	9:09:48	"C" Gate Aerial	2	A	64	1	15-May-10	9:09:48	39658449	-76173476
54-144 (A1)	15-May-10	9:10:06	"C" Gate Aerial	2	A	72	1	15-May-10	9:10:06	39658449	-76173476
54-144 (A1)	15-May-10	9:10:24	"C" Gate Aerial	2	A	70	1	15-May-10	9:10:24	39658449	-76173476
54-144 (A1)	15-May-10	9:11:35	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	75	1	15-May-10	9:11:35	39657308	-76172818
54-144 (A1)	15-May-10	9:12:36	"C" Gate Aerial	2	A	84	1	15-May-10	9:12:36	39658449	-76173476
54-144 (A1)	15-May-10	9:12:43	"C" Gate Aerial	2	A	61	1	15-May-10	9:12:43	39658449	-76173476
54-144 (A1)	15-May-10	9:13:46	"C" Gate Aerial	2	A	51	1	15-May-10	9:13:46	39658449	-76173476
54-144 (A1)	15-May-10	9:14:34	"C" Gate Aerial	2	A	115	1	15-May-10	9:14:34	39658449	-76173476
54-144 (A1)	15-May-10	9:14:52	"C" Gate Aerial	2	A	139	1	15-May-10	9:14:52	39658449	-76173476
54-144 (A1)	15-May-10	9:15:10	"C" Gate Aerial	2	A	69	1	15-May-10	9:15:10	39658449	-76173476
54-144 (A1)	15-May-10	9:15:16	"C" Gate Aerial	2	A	63	1	15-May-10	9:15:16	39658449	-76173476
54-144 (A1)	15-May-10	9:15:35	"C" Gate Aerial	2	A	96	1	15-May-10	9:15:35	39658449	-76173476
54-144 (A1)	15-May-10	9:15:47	"C" Gate Aerial	2	A	120	1	15-May-10	9:15:47	39658449	-76173476
54-144 (A1)	15-May-10	9:15:54	"C" Gate Aerial	2	A	58	1	15-May-10	9:15:54	39658449	-76173476
54-144 (A1)	15-May-10	9:16:00	"C" Gate Aerial	2	A	87	1	15-May-10	9:16:00	39658449	-76173476
54-144 (A1)	15-May-10	9:16:07	"C" Gate Aerial	2	A	138	1	15-May-10	9:16:07	39658449	-76173476
54-144 (A1)	15-May-10	9:16:14	"C" Gate Aerial	2	A	122	1	15-May-10	9:16:14	39658449	-76173476
54-144 (A1)	15-May-10	9:16:17	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	107	2	15-May-10	9:17:13	39657674	-76172621
54-144 (A1)	15-May-10	9:16:21	"C" Gate Aerial	2	A	141	1	15-May-10	9:16:21	39658449	-76173476
54-144 (A1)	15-May-10	9:16:28	"C" Gate Aerial	2	A	118	1	15-May-10	9:16:28	39658449	-76173476
54-144 (A1)	15-May-10	9:16:46	"C" Gate Aerial	2	A	57	1	15-May-10	9:16:46	39658449	-76173476
54-144 (A1)	15-May-10	9:16:52	"C" Gate Aerial	2	A	101	1	15-May-10	9:16:52	39658449	-76173476

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	15-May-10	9:17:05	"C" Gate Aerial	2	A	154	1	15-May-10	9:17:05	39658449	-76173476
54-144 (A1)	15-May-10	9:17:12	"C" Gate Aerial	2	A	118	1	15-May-10	9:17:12	39658449	-76173476
54-144 (A1)	15-May-10	9:33:39	"C" Gate Aerial	2	A	105	1	15-May-10	9:33:39	39658449	-76173476
54-144 (A1)	15-May-10	9:33:45	"C" Gate Aerial	2	A	131	1	15-May-10	9:33:45	39658449	-76173476
54-144 (A1)	15-May-10	9:33:52	"C" Gate Aerial	2	A	103	1	15-May-10	9:33:52	39658449	-76173476
54-144 (A1)	15-May-10	9:34:05	"C" Gate Aerial	2	A	70	1	15-May-10	9:34:05	39658449	-76173476
54-144 (A1)	15-May-10	9:34:18	"C" Gate Aerial	2	A	135	1	15-May-10	9:34:18	39658449	-76173476
54-144 (A1)	15-May-10	9:35:00	"C" Gate Aerial	2	A	81	1	15-May-10	9:35:00	39658449	-76173476
54-144 (A1)	15-May-10	9:41:38	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	104	1	15-May-10	9:41:38	39657186	-76172854
54-144 (A1)	15-May-10	9:46:33	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	103	2	15-May-10	9:49:37	39656845	-76173035
54-144 (A1)	15-May-10	9:48:40	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	106	1	15-May-10	9:48:40	39657186	-76172854
54-144 (A1)	15-May-10	9:52:36	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	109	4	15-May-10	9:55:44	39657186	-76172854
54-144 (A1)	15-May-10	9:55:40	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	119	1	15-May-10	9:55:40	39656845	-76173035
54-144 (A1)	15-May-10	9:57:41	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	135	2	15-May-10	10:00:00	39657186	-76172854
54-144 (A1)	15-May-10	10:04:19	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	161	2	15-May-10	10:05:26	39656845	-76173035
54-144 (A1)	15-May-10	10:05:30	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	130	1	15-May-10	10:05:30	39657186	-76172854
54-144 (A1)	15-May-10	10:08:41	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	137	2	15-May-10	10:10:50	39656845	-76173035
54-144 (A1)	15-May-10	10:08:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	3	122	2	15-May-10	10:10:54	39657186	-76172854
54-144 (A1)	15-May-10	10:08:47	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	82	1	15-May-10	10:08:47	39657308	-76172818
54-144 (A1)	15-May-10	10:11:33	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	99	1	15-May-10	10:11:33	39657308	-76172818
54-144 (A1)	15-May-10	10:11:56	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	62	1	15-May-10	10:11:56	39657186	-76172854
54-144 (A1)	15-May-10	10:33:58	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	97	2	15-May-10	10:35:05	39656845	-76173035
54-144 (A1)	15-May-10	12:57:07	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	60	1	15-May-10	12:57:07	39656015	-76173489
54-144 (A1)	15-May-10	12:57:16	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	72	1	15-May-10	12:57:16	39656845	-76173035
54-144 (A1)	15-May-10	12:59:17	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	61	1	15-May-10	12:59:17	39657186	-76172854
54-144 (A1)	15-May-10	13:06:00	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	149	2	15-May-10	13:07:01	39656015	-76173489
54-144 (A1)	15-May-10	13:08:02	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	85	2	15-May-10	13:10:05	39656015	-76173489
54-144 (A1)	15-May-10	13:09:12	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	89	2	15-May-10	13:10:13	39656845	-76173035
54-144 (A1)	15-May-10	13:16:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	141	1	15-May-10	13:16:05	39656488	-76173233
54-144 (A1)	15-May-10	13:22:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	94	1	15-May-10	13:22:06	39656845	-76173035
54-144 (A1)	15-May-10	13:25:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	153	1	15-May-10	13:25:01	39656845	-76173035
54-144 (A1)	15-May-10	13:25:06	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	122	2	15-May-10	13:26:07	39657186	-76172854
54-144 (A1)	15-May-10	13:25:51	Conowingo Tailrace Units 1-7 Master	17	A	58	1	15-May-10	13:25:51		
54-144 (A1)	15-May-10	13:29:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	116	2	15-May-10	13:30:00	39656488	-76173233
54-144 (A1)	15-May-10	13:29:55	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	177	1	15-May-10	13:29:55	39656015	-76173489
54-144 (A1)	15-May-10	13:34:03	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	133	4	15-May-10	13:37:05	39657186	-76172854
54-144 (A1)	15-May-10	13:34:14	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	105	1	15-May-10	13:34:14	39657308	-76172818
54-144 (A1)	15-May-10	13:38:05	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	131	3	15-May-10	13:41:09	39657186	-76172854
54-144 (A1)	15-May-10	13:44:03	Conowingo Tailrace Units 1-7 Master	17	A	133	1	15-May-10	13:44:03		
54-144 (A1)	15-May-10	13:44:23	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	141	1	15-May-10	13:44:23	39657308	-76172818
54-144 (A1)	15-May-10	13:45:22	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	132	1	15-May-10	13:45:22	39657480	-76172724
54-144 (A1)	15-May-10	13:51:44	"A" Gate Aerial	4	0	91	1	15-May-10	13:51:44	39658424	-76174012
54-144 (A1)	15-May-10	13:57:25	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	73	1	15-May-10	13:57:25	39657674	-76172621
54-144 (A1)	15-May-10	14:05:38	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	82	1	15-May-10	14:05:38	39657308	-76172818
54-144 (A1)	15-May-10	14:20:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	90	1	15-May-10	14:20:58	39657186	-76172854
54-144 (A1)	15-May-10	14:25:09	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	90	1	15-May-10	14:25:09	39657186	-76172854
54-144 (A1)	15-May-10	14:31:28	"C" Gate Aerial	2	A	57	1	15-May-10	14:31:28	39658449	-76173476
54-144 (A1)	15-May-10	14:31:52	"C" Gate Aerial	2	A	65	1	15-May-10	14:31:52	39658449	-76173476
54-144 (A1)	15-May-10	14:31:58	"C" Gate Aerial	2	A	96	1	15-May-10	14:31:58	39658449	-76173476
54-144 (A1)	15-May-10	14:32:17	"C" Gate Aerial	2	A	95	1	15-May-10	14:32:17	39658449	-76173476
54-144 (A1)	15-May-10	14:32:19	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	155	1	15-May-10	14:32:19	39657674	-76172621
54-144 (A1)	15-May-10	14:32:23	"C" Gate Aerial	2	A	69	1	15-May-10	14:32:23	39658449	-76173476
54-144 (A1)	15-May-10	14:32:30	"C" Gate Aerial	2	A	136	1	15-May-10	14:32:30	39658449	-76173476
54-144 (A1)	15-May-10	14:32:42	"C" Gate Aerial	2	A	54	1	15-May-10	14:32:42	39658449	-76173476
54-144 (A1)	15-May-10	14:32:55	"C" Gate Aerial	2	A	138	1	15-May-10	14:32:55	39658449	-76173476
54-144 (A1)	15-May-10	14:33:08	"C" Gate Aerial	2	A	139	1	15-May-10	14:33:08	39658449	-76173476
54-144 (A1)	15-May-10	14:33:54	"C" Gate Aerial	2	A	105	1	15-May-10	14:33:54	39658449	-76173476
54-144 (A1)	15-May-10	14:34:07	"C" Gate Aerial	2	A	74	1	15-May-10	14:34:07	39658449	-76173476
54-144 (A1)	15-May-10	14:34:19	"C" Gate Aerial	2	A	107	1	15-May-10	14:34:19	39658449	-76173476
54-144 (A1)	15-May-10	14:34:49	"C" Gate Aerial	2	A	165	1	15-May-10	14:34:49	39658449	-76173476
54-144 (A1)	15-May-10	14:35:01	"C" Gate Aerial	2	A	167	1	15-May-10	14:35:01	39658449	-76173476
54-144 (A1)	15-May-10	14:35:19	"C" Gate Aerial	2	A	145	1	15-May-10	14:35:19	39658449	-76173476
54-144 (A1)	15-May-10	14:35:43	"C" Gate Aerial	2	A	78	1	15-May-10	14:35:43	39658449	-76173476
54-144 (A1)	15-May-10	14:35:50	"C" Gate Aerial	2	A	87	1	15-May-10	14:35:50	39658449	-76173476
54-144 (A1)	15-May-10	14:35:56	"C" Gate Aerial	2	A	156	1	15-May-10	14:35:56	39658449	-76173476



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	15-May-10	14:36:20	"C" Gate Aerial	2	A	148	1	15-May-10	14:36:20	39658449	-76173476
54-144 (A1)	15-May-10	14:36:27	"C" Gate Aerial	2	A	118	1	15-May-10	14:36:27	39658449	-76173476
54-144 (A1)	15-May-10	14:36:34	"C" Gate Aerial	2	A	149	1	15-May-10	14:36:34	39658449	-76173476
54-144 (A1)	15-May-10	14:36:52	"C" Gate Aerial	2	A	137	1	15-May-10	14:36:52	39658449	-76173476
54-144 (A1)	15-May-10	14:36:58	"C" Gate Aerial	2	A	73	1	15-May-10	14:36:58	39658449	-76173476
54-144 (A1)	15-May-10	14:37:22	"C" Gate Aerial	2	A	108	1	15-May-10	14:37:22	39658449	-76173476
54-144 (A1)	15-May-10	14:37:35	"C" Gate Aerial	2	A	77	1	15-May-10	14:37:35	39658449	-76173476
54-144 (A1)	15-May-10	14:39:34	"C" Gate Aerial	2	A	54	1	15-May-10	14:39:34	39658449	-76173476
54-144 (A1)	15-May-10	14:39:41	"C" Gate Aerial	2	A	87	1	15-May-10	14:39:41	39658449	-76173476
54-144 (A1)	15-May-10	14:40:39	"C" Gate Aerial	2	A	102	1	15-May-10	14:40:39	39658449	-76173476
54-144 (A1)	15-May-10	14:40:46	"C" Gate Aerial	2	A	51	1	15-May-10	14:40:46	39658449	-76173476
54-144 (A1)	15-May-10	14:40:53	"C" Gate Aerial	2	A	121	1	15-May-10	14:40:53	39658449	-76173476
54-144 (A1)	15-May-10	14:41:00	"C" Gate Aerial	2	A	60	1	15-May-10	14:41:00	39658449	-76173476
54-144 (A1)	15-May-10	14:41:06	"C" Gate Aerial	2	A	74	1	15-May-10	14:41:06	39658449	-76173476
54-144 (A1)	15-May-10	14:41:13	"C" Gate Aerial	2	A	79	1	15-May-10	14:41:13	39658449	-76173476
54-144 (A1)	15-May-10	14:41:20	"C" Gate Aerial	2	A	130	1	15-May-10	14:41:20	39658449	-76173476
54-144 (A1)	15-May-10	14:41:27	"C" Gate Aerial	2	A	134	1	15-May-10	14:41:27	39658449	-76173476
54-144 (A1)	15-May-10	14:41:33	"C" Gate Aerial	2	A	147	1	15-May-10	14:41:33	39658449	-76173476
54-144 (A1)	15-May-10	14:41:51	"C" Gate Aerial	2	A	79	1	15-May-10	14:41:51	39658449	-76173476
54-144 (A1)	15-May-10	14:42:09	"C" Gate Aerial	2	A	113	1	15-May-10	14:42:09	39658449	-76173476
54-144 (A1)	15-May-10	14:42:22	"C" Gate Aerial	2	A	64	1	15-May-10	14:42:22	39658449	-76173476
54-144 (A1)	15-May-10	14:42:29	"C" Gate Aerial	2	A	136	1	15-May-10	14:42:29	39658449	-76173476
54-144 (A1)	15-May-10	14:42:42	"C" Gate Aerial	2	A	90	1	15-May-10	14:42:42	39658449	-76173476
54-144 (A1)	15-May-10	14:43:06	"C" Gate Aerial	2	A	131	1	15-May-10	14:43:06	39658449	-76173476
54-144 (A1)	15-May-10	14:43:18	"C" Gate Aerial	2	A	74	1	15-May-10	14:43:18	39658449	-76173476
54-144 (A1)	15-May-10	14:43:48	"C" Gate Aerial	2	A	70	1	15-May-10	14:43:48	39658449	-76173476
54-144 (A1)	15-May-10	14:43:55	"C" Gate Aerial	2	A	125	1	15-May-10	14:43:55	39658449	-76173476
54-144 (A1)	15-May-10	14:44:02	"C" Gate Aerial	2	A	75	1	15-May-10	14:44:02	39658449	-76173476
54-144 (A1)	15-May-10	14:49:36	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	55	1	15-May-10	14:49:36	39657186	-76172854
54-144 (A1)	15-May-10	14:49:39	"C" Gate Aerial	2	A	80	1	15-May-10	14:49:39	39658449	-76173476
54-144 (A1)	15-May-10	14:49:45	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	107	1	15-May-10	14:49:45	39657480	-76172724
54-144 (A1)	15-May-10	14:49:46	"C" Gate Aerial	2	A	135	1	15-May-10	14:49:46	39658449	-76173476
54-144 (A1)	15-May-10	14:49:49	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	101	1	15-May-10	14:49:49	39657674	-76172621
54-144 (A1)	15-May-10	14:49:58	"C" Gate Aerial	2	A	91	1	15-May-10	14:49:58	39658449	-76173476
54-144 (A1)	15-May-10	14:50:11	"C" Gate Aerial	2	A	121	1	15-May-10	14:50:11	39658449	-76173476
54-144 (A1)	15-May-10	14:50:18	"C" Gate Aerial	2	A	72	1	15-May-10	14:50:18	39658449	-76173476
54-144 (A1)	15-May-10	14:50:24	"C" Gate Aerial	2	A	75	1	15-May-10	14:50:24	39658449	-76173476
54-144 (A1)	15-May-10	14:50:31	"C" Gate Aerial	2	A	118	1	15-May-10	14:50:31	39658449	-76173476
54-144 (A1)	15-May-10	14:50:55	"C" Gate Aerial	2	A	114	1	15-May-10	14:50:55	39658449	-76173476
54-144 (A1)	15-May-10	14:51:02	"C" Gate Aerial	2	A	96	1	15-May-10	14:51:02	39658449	-76173476
54-144 (A1)	15-May-10	14:51:09	"C" Gate Aerial	2	A	105	1	15-May-10	14:51:09	39658449	-76173476
54-144 (A1)	15-May-10	14:51:16	"C" Gate Aerial	2	A	82	1	15-May-10	14:51:16	39658449	-76173476
54-144 (A1)	15-May-10	14:51:23	"C" Gate Aerial	2	A	105	1	15-May-10	14:51:23	39658449	-76173476
54-144 (A1)	15-May-10	14:51:30	"C" Gate Aerial	2	A	117	1	15-May-10	14:51:30	39658449	-76173476
54-144 (A1)	15-May-10	14:51:41	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	109	2	15-May-10	14:55:22	39657674	-76172621
54-144 (A1)	15-May-10	14:51:42	"C" Gate Aerial	2	A	80	1	15-May-10	14:51:42	39658449	-76173476
54-144 (A1)	15-May-10	14:51:49	"C" Gate Aerial	2	A	75	1	15-May-10	14:51:49	39658449	-76173476
54-144 (A1)	15-May-10	14:52:07	"C" Gate Aerial	2	A	116	1	15-May-10	14:52:07	39658449	-76173476
54-144 (A1)	15-May-10	14:52:25	"C" Gate Aerial	2	A	50	1	15-May-10	14:52:25	39658449	-76173476
54-144 (A1)	15-May-10	14:53:22	"C" Gate Aerial	2	A	91	1	15-May-10	14:53:22	39658449	-76173476
54-144 (A1)	15-May-10	14:53:35	"C" Gate Aerial	2	A	112	1	15-May-10	14:53:35	39658449	-76173476
54-144 (A1)	15-May-10	14:53:41	"C" Gate Aerial	2	A	141	1	15-May-10	14:53:41	39658449	-76173476
54-144 (A1)	15-May-10	14:53:48	"C" Gate Aerial	2	A	152	1	15-May-10	14:53:48	39658449	-76173476
54-144 (A1)	15-May-10	14:53:55	"C" Gate Aerial	2	A	120	1	15-May-10	14:53:55	39658449	-76173476
54-144 (A1)	15-May-10	14:54:02	"C" Gate Aerial	2	A	157	1	15-May-10	14:54:02	39658449	-76173476
54-144 (A1)	15-May-10	14:54:09	"C" Gate Aerial	2	A	137	1	15-May-10	14:54:09	39658449	-76173476
54-144 (A1)	15-May-10	14:54:33	"C" Gate Aerial	2	A	120	1	15-May-10	14:54:33	39658449	-76173476
54-144 (A1)	15-May-10	14:54:40	"C" Gate Aerial	2	A	149	1	15-May-10	14:54:40	39658449	-76173476
54-144 (A1)	15-May-10	14:55:32	"C" Gate Aerial	2	A	122	1	15-May-10	14:55:32	39658449	-76173476
54-144 (A1)	15-May-10	14:55:38	"C" Gate Aerial	2	A	83	1	15-May-10	14:55:38	39658449	-76173476
54-144 (A1)	15-May-10	14:55:45	"C" Gate Aerial	2	A	125	1	15-May-10	14:55:45	39658449	-76173476
54-144 (A1)	15-May-10	14:55:52	"C" Gate Aerial	2	A	112	1	15-May-10	14:55:52	39658449	-76173476
54-144 (A1)	15-May-10	14:56:00	"C" Gate Aerial	2	A	135	1	15-May-10	14:56:00	39658449	-76173476
54-144 (A1)	15-May-10	14:56:06	"C" Gate Aerial	2	A	140	1	15-May-10	14:56:06	39658449	-76173476
54-144 (A1)	15-May-10	14:56:24	"C" Gate Aerial	2	A	147	1	15-May-10	14:56:24	39658449	-76173476

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	15-May-10	14:56:31	"C" Gate Aerial	2	A	150	1	15-May-10	14:56:31	39658449	-76173476
54-144 (A1)	15-May-10	14:56:38	"C" Gate Aerial	2	A	131	1	15-May-10	14:56:38	39658449	-76173476
54-144 (A1)	15-May-10	14:56:45	"C" Gate Aerial	2	A	74	1	15-May-10	14:56:45	39658449	-76173476
54-144 (A1)	15-May-10	14:56:57	"C" Gate Aerial	2	A	142	1	15-May-10	14:56:57	39658449	-76173476
54-144 (A1)	15-May-10	14:57:15	"C" Gate Aerial	2	A	118	1	15-May-10	14:57:15	39658449	-76173476
54-144 (A1)	15-May-10	14:57:33	"C" Gate Aerial	2	A	131	1	15-May-10	14:57:33	39658449	-76173476
54-144 (A1)	15-May-10	14:57:40	"C" Gate Aerial	2	A	151	1	15-May-10	14:57:40	39658449	-76173476
54-144 (A1)	15-May-10	14:57:47	"C" Gate Aerial	2	A	134	1	15-May-10	14:57:47	39658449	-76173476
54-144 (A1)	15-May-10	14:57:53	"C" Gate Aerial	2	A	118	1	15-May-10	14:57:53	39658449	-76173476
54-144 (A1)	15-May-10	14:58:06	"C" Gate Aerial	2	A	148	1	15-May-10	14:58:06	39658449	-76173476
54-144 (A1)	15-May-10	14:58:08	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	130	2	15-May-10	15:00:00	39657674	-76172621
54-144 (A1)	15-May-10	14:58:35	"C" Gate Aerial	2	A	120	1	15-May-10	14:58:35	39658449	-76173476
54-144 (A1)	15-May-10	14:58:42	"C" Gate Aerial	2	A	142	1	15-May-10	14:58:42	39658449	-76173476
54-144 (A1)	15-May-10	14:58:49	"C" Gate Aerial	2	A	150	1	15-May-10	14:58:49	39658449	-76173476
54-144 (A1)	15-May-10	14:59:01	"C" Gate Aerial	2	A	64	1	15-May-10	14:59:01	39658449	-76173476
54-144 (A1)	15-May-10	14:59:08	"C" Gate Aerial	2	A	128	1	15-May-10	14:59:08	39658449	-76173476
54-144 (A1)	15-May-10	14:59:15	"C" Gate Aerial	2	A	151	1	15-May-10	14:59:15	39658449	-76173476
54-144 (A1)	15-May-10	14:59:27	"C" Gate Aerial	2	A	112	1	15-May-10	14:59:27	39658449	-76173476
54-144 (A1)	15-May-10	14:59:40	"C" Gate Aerial	2	A	99	1	15-May-10	14:59:40	39658449	-76173476
54-144 (A1)	15-May-10	14:59:46	"C" Gate Aerial	2	A	134	1	15-May-10	14:59:46	39658449	-76173476
54-144 (A1)	15-May-10	15:00:00	"C" Gate Aerial	2	A	167	1	15-May-10	15:00:00	39658449	-76173476
54-144 (A1)	15-May-10	15:00:06	"C" Gate Aerial	2	A	62	1	15-May-10	15:00:06	39658449	-76173476
54-144 (A1)	15-May-10	15:00:19	"C" Gate Aerial	2	A	108	1	15-May-10	15:00:19	39658449	-76173476
54-144 (A1)	15-May-10	15:00:25	"C" Gate Aerial	2	A	83	1	15-May-10	15:00:25	39658449	-76173476
54-144 (A1)	15-May-10	15:00:32	"C" Gate Aerial	2	A	124	1	15-May-10	15:00:32	39658449	-76173476
54-144 (A1)	15-May-10	15:00:56	"C" Gate Aerial	2	A	121	1	15-May-10	15:00:56	39658449	-76173476
54-144 (A1)	15-May-10	15:01:03	"C" Gate Aerial	2	A	158	1	15-May-10	15:01:03	39658449	-76173476
54-144 (A1)	15-May-10	15:01:10	"C" Gate Aerial	2	A	158	1	15-May-10	15:01:10	39658449	-76173476
54-144 (A1)	15-May-10	15:01:16	"C" Gate Aerial	2	A	156	1	15-May-10	15:01:16	39658449	-76173476
54-144 (A1)	15-May-10	15:01:34	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	67	1	15-May-10	15:01:34	39657186	-76172854
54-144 (A1)	15-May-10	15:01:34	"C" Gate Aerial	2	A	151	1	15-May-10	15:01:34	39658449	-76173476
54-144 (A1)	15-May-10	15:01:41	"C" Gate Aerial	2	A	61	1	15-May-10	15:01:41	39658449	-76173476
54-144 (A1)	15-May-10	15:01:48	"C" Gate Aerial	2	A	158	1	15-May-10	15:01:48	39658449	-76173476
54-144 (A1)	15-May-10	15:01:55	"C" Gate Aerial	2	A	112	1	15-May-10	15:01:55	39658449	-76173476
54-144 (A1)	15-May-10	15:02:19	"C" Gate Aerial	2	A	137	1	15-May-10	15:02:19	39658449	-76173476
54-144 (A1)	15-May-10	15:02:26	"C" Gate Aerial	2	A	79	1	15-May-10	15:02:26	39658449	-76173476
54-144 (A1)	15-May-10	15:02:38	"C" Gate Aerial	2	A	139	1	15-May-10	15:02:38	39658449	-76173476
54-144 (A1)	15-May-10	15:02:51	"C" Gate Aerial	2	A	56	1	15-May-10	15:02:51	39658449	-76173476
54-144 (A1)	15-May-10	15:02:58	"C" Gate Aerial	2	A	157	1	15-May-10	15:02:58	39658449	-76173476
54-144 (A1)	15-May-10	15:03:05	"C" Gate Aerial	2	A	138	1	15-May-10	15:03:05	39658449	-76173476
54-144 (A1)	15-May-10	15:03:12	"C" Gate Aerial	2	A	108	1	15-May-10	15:03:12	39658449	-76173476
54-144 (A1)	15-May-10	15:03:19	"C" Gate Aerial	2	A	139	1	15-May-10	15:03:19	39658449	-76173476
54-144 (A1)	15-May-10	15:03:42	"C" Gate Aerial	2	A	79	1	15-May-10	15:03:42	39658449	-76173476
54-144 (A1)	15-May-10	15:04:23	"C" Gate Aerial	2	A	151	1	15-May-10	15:04:23	39658449	-76173476
54-144 (A1)	15-May-10	15:04:30	"C" Gate Aerial	2	A	113	1	15-May-10	15:04:30	39658449	-76173476
54-144 (A1)	15-May-10	15:04:37	"C" Gate Aerial	2	A	131	1	15-May-10	15:04:37	39658449	-76173476
54-144 (A1)	15-May-10	15:04:49	"C" Gate Aerial	2	A	59	1	15-May-10	15:04:49	39658449	-76173476
54-144 (A1)	15-May-10	15:04:56	"C" Gate Aerial	2	A	109	1	15-May-10	15:04:56	39658449	-76173476
54-144 (A1)	15-May-10	15:05:31	"C" Gate Aerial	2	A	68	1	15-May-10	15:05:31	39658449	-76173476
54-144 (A1)	15-May-10	15:05:31	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	124	1	15-May-10	15:05:31	39657674	-76172621
54-144 (A1)	15-May-10	15:05:42	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	57	1	15-May-10	15:05:42	39657186	-76172854
54-144 (A1)	15-May-10	15:05:43	"C" Gate Aerial	2	A	103	1	15-May-10	15:05:43	39658449	-76173476
54-144 (A1)	15-May-10	15:05:50	"C" Gate Aerial	2	A	58	1	15-May-10	15:05:50	39658449	-76173476
54-144 (A1)	15-May-10	15:06:02	"C" Gate Aerial	2	A	80	1	15-May-10	15:06:02	39658449	-76173476
54-144 (A1)	15-May-10	15:06:15	"C" Gate Aerial	2	A	138	1	15-May-10	15:06:15	39658449	-76173476
54-144 (A1)	15-May-10	15:06:22	"C" Gate Aerial	2	A	129	1	15-May-10	15:06:22	39658449	-76173476
54-144 (A1)	15-May-10	15:06:34	"C" Gate Aerial	2	A	121	1	15-May-10	15:06:34	39658449	-76173476
54-144 (A1)	15-May-10	15:06:41	"C" Gate Aerial	2	A	117	1	15-May-10	15:06:41	39658449	-76173476
54-144 (A1)	15-May-10	15:06:48	"C" Gate Aerial	2	A	66	1	15-May-10	15:06:48	39658449	-76173476
54-144 (A1)	15-May-10	15:06:54	"C" Gate Aerial	2	A	95	1	15-May-10	15:06:54	39658449	-76173476
54-144 (A1)	15-May-10	15:07:01	"C" Gate Aerial	2	A	160	1	15-May-10	15:07:01	39658449	-76173476
54-144 (A1)	15-May-10	15:07:08	"C" Gate Aerial	2	A	128	1	15-May-10	15:07:08	39658449	-76173476
54-144 (A1)	15-May-10	15:07:15	"C" Gate Aerial	2	A	133	1	15-May-10	15:07:15	39658449	-76173476
54-144 (A1)	15-May-10	15:07:27	"C" Gate Aerial	2	A	60	1	15-May-10	15:07:27	39658449	-76173476
54-144 (A1)	15-May-10	15:07:34	"C" Gate Aerial	2	A	89	1	15-May-10	15:07:34	39658449	-76173476

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	15-May-10	15:07:46	"C" Gate Aerial	2	A	147	1	15-May-10	15:07:46	39658449	-76173476
54-144 (A1)	15-May-10	15:07:53	"C" Gate Aerial	2	A	124	1	15-May-10	15:07:53	39658449	-76173476
54-144 (A1)	15-May-10	15:08:05	"C" Gate Aerial	2	A	89	1	15-May-10	15:08:05	39658449	-76173476
54-144 (A1)	15-May-10	15:08:17	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	74	1	15-May-10	15:08:17	39657674	-76172621
54-144 (A1)	15-May-10	15:08:18	"C" Gate Aerial	2	A	139	1	15-May-10	15:08:18	39658449	-76173476
54-144 (A1)	15-May-10	15:08:25	"C" Gate Aerial	2	A	153	1	15-May-10	15:08:25	39658449	-76173476
54-144 (A1)	15-May-10	15:08:37	"C" Gate Aerial	2	A	99	1	15-May-10	15:08:37	39658449	-76173476
54-144 (A1)	15-May-10	15:08:44	"C" Gate Aerial	2	A	66	1	15-May-10	15:08:44	39658449	-76173476
54-144 (A1)	15-May-10	15:08:57	"C" Gate Aerial	2	A	139	1	15-May-10	15:08:57	39658449	-76173476
54-144 (A1)	15-May-10	15:09:05	"C" Gate Aerial	2	A	122	1	15-May-10	15:09:05	39658449	-76173476
54-144 (A1)	15-May-10	15:09:12	"C" Gate Aerial	2	A	92	1	15-May-10	15:09:12	39658449	-76173476
54-144 (A1)	15-May-10	15:09:19	"C" Gate Aerial	2	A	134	1	15-May-10	15:09:19	39658449	-76173476
54-144 (A1)	15-May-10	15:09:31	"C" Gate Aerial	2	A	66	1	15-May-10	15:09:31	39658449	-76173476
54-144 (A1)	15-May-10	15:09:44	"C" Gate Aerial	2	A	123	1	15-May-10	15:09:44	39658449	-76173476
54-144 (A1)	15-May-10	15:09:50	"C" Gate Aerial	2	A	152	1	15-May-10	15:09:50	39658449	-76173476
54-144 (A1)	15-May-10	15:09:57	"C" Gate Aerial	2	A	89	1	15-May-10	15:09:57	39658449	-76173476
54-144 (A1)	15-May-10	15:10:04	"C" Gate Aerial	2	A	83	1	15-May-10	15:10:04	39658449	-76173476
54-144 (A1)	15-May-10	15:10:16	"C" Gate Aerial	2	A	132	1	15-May-10	15:10:16	39658449	-76173476
54-144 (A1)	15-May-10	15:10:29	"C" Gate Aerial	2	A	75	1	15-May-10	15:10:29	39658449	-76173476
54-144 (A1)	15-May-10	15:10:35	"C" Gate Aerial	2	A	150	1	15-May-10	15:10:35	39658449	-76173476
54-144 (A1)	15-May-10	15:10:42	"C" Gate Aerial	2	A	181	1	15-May-10	15:10:42	39658449	-76173476
54-144 (A1)	15-May-10	15:10:49	"C" Gate Aerial	2	A	146	1	15-May-10	15:10:49	39658449	-76173476
54-144 (A1)	15-May-10	15:11:02	"C" Gate Aerial	2	A	97	1	15-May-10	15:11:02	39658449	-76173476
54-144 (A1)	15-May-10	15:11:09	"C" Gate Aerial	2	A	139	1	15-May-10	15:11:09	39658449	-76173476
54-144 (A1)	15-May-10	15:11:16	"C" Gate Aerial	2	A	130	1	15-May-10	15:11:16	39658449	-76173476
54-144 (A1)	15-May-10	15:11:23	"C" Gate Aerial	2	A	119	1	15-May-10	15:11:23	39658449	-76173476
54-144 (A1)	15-May-10	15:11:29	"C" Gate Aerial	2	A	88	1	15-May-10	15:11:29	39658449	-76173476
54-144 (A1)	15-May-10	15:11:36	"C" Gate Aerial	2	A	133	1	15-May-10	15:11:36	39658449	-76173476
54-144 (A1)	15-May-10	15:11:49	"C" Gate Aerial	2	A	72	1	15-May-10	15:11:49	39658449	-76173476
54-144 (A1)	15-May-10	15:11:55	"C" Gate Aerial	2	A	133	1	15-May-10	15:11:55	39658449	-76173476
54-144 (A1)	15-May-10	15:11:58	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	138	2	15-May-10	15:12:54	39657674	-76172621
54-144 (A1)	15-May-10	15:12:02	"C" Gate Aerial	2	A	64	1	15-May-10	15:12:02	39658449	-76173476
54-144 (A1)	15-May-10	15:12:09	"C" Gate Aerial	2	A	118	1	15-May-10	15:12:09	39658449	-76173476
54-144 (A1)	15-May-10	15:12:22	"C" Gate Aerial	2	A	133	1	15-May-10	15:12:22	39658449	-76173476
54-144 (A1)	15-May-10	15:12:45	"C" Gate Aerial	2	A	75	1	15-May-10	15:12:45	39658449	-76173476
54-144 (A1)	15-May-10	15:12:51	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	98	1	15-May-10	15:12:51	39657186	-76172854
54-144 (A1)	15-May-10	15:12:52	"C" Gate Aerial	2	A	165	1	15-May-10	15:12:52	39658449	-76173476
54-144 (A1)	15-May-10	15:13:00	"C" Gate Aerial	2	A	124	1	15-May-10	15:13:00	39658449	-76173476
54-144 (A1)	15-May-10	15:13:06	"C" Gate Aerial	2	A	82	1	15-May-10	15:13:06	39658449	-76173476
54-144 (A1)	15-May-10	15:13:24	"C" Gate Aerial	2	A	123	1	15-May-10	15:13:24	39658449	-76173476
54-144 (A1)	15-May-10	15:13:31	"C" Gate Aerial	2	A	63	1	15-May-10	15:13:31	39658449	-76173476
54-144 (A1)	15-May-10	15:13:44	"C" Gate Aerial	2	A	122	1	15-May-10	15:13:44	39658449	-76173476
54-144 (A1)	15-May-10	15:13:56	"C" Gate Aerial	2	A	81	1	15-May-10	15:13:56	39658449	-76173476
54-144 (A1)	15-May-10	15:14:03	"C" Gate Aerial	2	A	152	1	15-May-10	15:14:03	39658449	-76173476
54-144 (A1)	15-May-10	15:14:09	"C" Gate Aerial	2	A	128	1	15-May-10	15:14:09	39658449	-76173476
54-144 (A1)	15-May-10	15:14:16	"C" Gate Aerial	2	A	113	1	15-May-10	15:14:16	39658449	-76173476
54-144 (A1)	15-May-10	15:14:30	"C" Gate Aerial	2	A	131	1	15-May-10	15:14:30	39658449	-76173476
54-144 (A1)	15-May-10	15:14:37	"C" Gate Aerial	2	A	120	1	15-May-10	15:14:37	39658449	-76173476
54-144 (A1)	15-May-10	15:14:43	"C" Gate Aerial	2	A	85	1	15-May-10	15:14:43	39658449	-76173476
54-144 (A1)	15-May-10	15:14:50	"C" Gate Aerial	2	A	165	1	15-May-10	15:14:50	39658449	-76173476
54-144 (A1)	15-May-10	15:15:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	83	1	15-May-10	15:15:00	39657186	-76172854
54-144 (A1)	15-May-10	15:15:03	"C" Gate Aerial	2	A	147	1	15-May-10	15:15:03	39658449	-76173476
54-144 (A1)	15-May-10	15:15:09	"C" Gate Aerial	2	A	146	1	15-May-10	15:15:09	39658449	-76173476
54-144 (A1)	15-May-10	15:15:16	"C" Gate Aerial	2	A	140	1	15-May-10	15:15:16	39658449	-76173476
54-144 (A1)	15-May-10	15:15:23	"C" Gate Aerial	2	A	126	1	15-May-10	15:15:23	39658449	-76173476
54-144 (A1)	15-May-10	15:15:35	"C" Gate Aerial	2	A	112	1	15-May-10	15:15:35	39658449	-76173476
54-144 (A1)	15-May-10	15:15:41	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	107	3	15-May-10	15:18:30	39657674	-76172621
54-144 (A1)	15-May-10	15:15:43	"C" Gate Aerial	2	A	115	1	15-May-10	15:15:43	39658449	-76173476
54-144 (A1)	15-May-10	15:15:50	"C" Gate Aerial	2	A	98	1	15-May-10	15:15:50	39658449	-76173476
54-144 (A1)	15-May-10	15:15:57	"C" Gate Aerial	2	A	130	1	15-May-10	15:15:57	39658449	-76173476
54-144 (A1)	15-May-10	15:16:05	"C" Gate Aerial	2	A	97	1	15-May-10	15:16:05	39658449	-76173476
54-144 (A1)	15-May-10	15:16:12	"C" Gate Aerial	2	A	88	1	15-May-10	15:16:12	39658449	-76173476
54-144 (A1)	15-May-10	15:16:18	"C" Gate Aerial	2	A	129	1	15-May-10	15:16:18	39658449	-76173476
54-144 (A1)	15-May-10	15:16:25	"C" Gate Aerial	2	A	79	1	15-May-10	15:16:25	39658449	-76173476
54-144 (A1)	15-May-10	15:16:32	"C" Gate Aerial	2	A	85	1	15-May-10	15:16:32	39658449	-76173476

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	15-May-10	15:16:39	"C" Gate Aerial	2	A	90	1	15-May-10	15:16:39	39658449	-76173476
54-144 (A1)	15-May-10	15:16:47	"C" Gate Aerial	2	A	105	1	15-May-10	15:16:47	39658449	-76173476
54-144 (A1)	15-May-10	15:17:00	"C" Gate Aerial	2	A	99	1	15-May-10	15:17:00	39658449	-76173476
54-144 (A1)	15-May-10	15:17:07	"C" Gate Aerial	2	A	102	1	15-May-10	15:17:07	39658449	-76173476
54-144 (A1)	15-May-10	15:17:14	"C" Gate Aerial	2	A	124	1	15-May-10	15:17:14	39658449	-76173476
54-144 (A1)	15-May-10	15:17:27	"C" Gate Aerial	2	A	74	1	15-May-10	15:17:27	39658449	-76173476
54-144 (A1)	15-May-10	15:17:34	"C" Gate Aerial	2	A	90	1	15-May-10	15:17:34	39658449	-76173476
54-144 (A1)	15-May-10	15:17:48	"C" Gate Aerial	2	A	115	1	15-May-10	15:17:48	39658449	-76173476
54-144 (A1)	15-May-10	15:17:54	"C" Gate Aerial	2	A	122	1	15-May-10	15:17:54	39658449	-76173476
54-144 (A1)	15-May-10	15:18:02	"C" Gate Aerial	2	A	102	1	15-May-10	15:18:02	39658449	-76173476
54-144 (A1)	15-May-10	15:18:09	"C" Gate Aerial	2	A	100	1	15-May-10	15:18:09	39658449	-76173476
54-144 (A1)	15-May-10	15:18:16	"C" Gate Aerial	2	A	95	1	15-May-10	15:18:16	39658449	-76173476
54-144 (A1)	15-May-10	15:18:23	"C" Gate Aerial	2	A	140	1	15-May-10	15:18:23	39658449	-76173476
54-144 (A1)	15-May-10	15:18:26	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	121	1	15-May-10	15:18:26	39657480	-76172724
54-144 (A1)	15-May-10	15:18:29	"C" Gate Aerial	2	A	154	1	15-May-10	15:18:29	39658449	-76173476
54-144 (A1)	15-May-10	15:18:48	"C" Gate Aerial	2	A	113	1	15-May-10	15:18:48	39658449	-76173476
54-144 (A1)	15-May-10	15:18:54	"C" Gate Aerial	2	A	151	1	15-May-10	15:18:54	39658449	-76173476
54-144 (A1)	15-May-10	15:19:01	"C" Gate Aerial	2	A	118	1	15-May-10	15:19:01	39658449	-76173476
54-144 (A1)	15-May-10	15:19:08	"C" Gate Aerial	2	A	126	1	15-May-10	15:19:08	39658449	-76173476
54-144 (A1)	15-May-10	15:19:15	"C" Gate Aerial	2	A	102	1	15-May-10	15:19:15	39658449	-76173476
54-144 (A1)	15-May-10	15:19:21	"C" Gate Aerial	2	A	117	1	15-May-10	15:19:21	39658449	-76173476
54-144 (A1)	15-May-10	15:19:35	"C" Gate Aerial	2	A	116	1	15-May-10	15:19:35	39658449	-76173476
54-144 (A1)	15-May-10	15:19:42	"C" Gate Aerial	2	A	90	1	15-May-10	15:19:42	39658449	-76173476
54-144 (A1)	15-May-10	15:19:48	"C" Gate Aerial	2	A	103	1	15-May-10	15:19:48	39658449	-76173476
54-144 (A1)	15-May-10	15:19:55	"C" Gate Aerial	2	A	110	1	15-May-10	15:19:55	39658449	-76173476
54-144 (A1)	15-May-10	15:20:02	"C" Gate Aerial	2	A	112	1	15-May-10	15:20:02	39658449	-76173476
54-144 (A1)	15-May-10	15:20:09	"C" Gate Aerial	2	A	133	1	15-May-10	15:20:09	39658449	-76173476
54-144 (A1)	15-May-10	15:20:17	"C" Gate Aerial	2	A	138	1	15-May-10	15:20:17	39658449	-76173476
54-144 (A1)	15-May-10	15:20:25	"C" Gate Aerial	2	A	68	1	15-May-10	15:20:25	39658449	-76173476
54-144 (A1)	15-May-10	15:20:32	"C" Gate Aerial	2	A	144	1	15-May-10	15:20:32	39658449	-76173476
54-144 (A1)	15-May-10	15:20:39	"C" Gate Aerial	2	A	134	1	15-May-10	15:20:39	39658449	-76173476
54-144 (A1)	15-May-10	15:20:45	"C" Gate Aerial	2	A	97	1	15-May-10	15:20:45	39658449	-76173476
54-144 (A1)	15-May-10	15:21:00	"C" Gate Aerial	2	A	155	1	15-May-10	15:21:00	39658449	-76173476
54-144 (A1)	15-May-10	15:21:14	"C" Gate Aerial	2	A	157	1	15-May-10	15:21:14	39658449	-76173476
54-144 (A1)	15-May-10	15:21:19	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	104	3	15-May-10	15:23:12	39657674	-76172621
54-144 (A1)	15-May-10	15:21:26	"C" Gate Aerial	2	A	135	1	15-May-10	15:21:26	39658449	-76173476
54-144 (A1)	15-May-10	15:21:33	"C" Gate Aerial	2	A	129	1	15-May-10	15:21:33	39658449	-76173476
54-144 (A1)	15-May-10	15:21:40	"C" Gate Aerial	2	A	139	1	15-May-10	15:21:40	39658449	-76173476
54-144 (A1)	15-May-10	15:21:48	"C" Gate Aerial	2	A	129	1	15-May-10	15:21:48	39658449	-76173476
54-144 (A1)	15-May-10	15:21:54	"C" Gate Aerial	2	A	120	1	15-May-10	15:21:54	39658449	-76173476
54-144 (A1)	15-May-10	15:22:07	"C" Gate Aerial	2	A	112	1	15-May-10	15:22:07	39658449	-76173476
54-144 (A1)	15-May-10	15:22:12	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	91	1	15-May-10	15:22:12	39657480	-76172724
54-144 (A1)	15-May-10	15:22:15	"C" Gate Aerial	2	A	98	1	15-May-10	15:22:15	39658449	-76173476
54-144 (A1)	15-May-10	15:22:23	"C" Gate Aerial	2	A	100	1	15-May-10	15:22:23	39658449	-76173476
54-144 (A1)	15-May-10	15:22:29	"C" Gate Aerial	2	A	112	1	15-May-10	15:22:29	39658449	-76173476
54-144 (A1)	15-May-10	15:22:49	"C" Gate Aerial	2	A	59	1	15-May-10	15:22:49	39658449	-76173476
54-144 (A1)	15-May-10	15:23:15	"C" Gate Aerial	2	A	89	1	15-May-10	15:23:15	39658449	-76173476
54-144 (A1)	15-May-10	15:23:22	"C" Gate Aerial	2	A	102	1	15-May-10	15:23:22	39658449	-76173476
54-144 (A1)	15-May-10	15:23:31	"C" Gate Aerial	2	A	115	1	15-May-10	15:23:31	39658449	-76173476
54-144 (A1)	15-May-10	15:23:39	"C" Gate Aerial	2	A	131	1	15-May-10	15:23:39	39658449	-76173476
54-144 (A1)	15-May-10	15:23:47	"C" Gate Aerial	2	A	102	1	15-May-10	15:23:47	39658449	-76173476
54-144 (A1)	15-May-10	15:23:55	"C" Gate Aerial	2	A	100	1	15-May-10	15:23:55	39658449	-76173476
54-144 (A1)	15-May-10	15:24:02	"C" Gate Aerial	2	A	97	1	15-May-10	15:24:02	39658449	-76173476
54-144 (A1)	15-May-10	15:24:17	"C" Gate Aerial	2	A	113	1	15-May-10	15:24:17	39658449	-76173476
54-144 (A1)	15-May-10	15:24:25	"C" Gate Aerial	2	A	132	1	15-May-10	15:24:25	39658449	-76173476
54-144 (A1)	15-May-10	15:24:32	"C" Gate Aerial	2	A	148	1	15-May-10	15:24:32	39658449	-76173476
54-144 (A1)	15-May-10	15:24:40	"C" Gate Aerial	2	A	138	1	15-May-10	15:24:40	39658449	-76173476
54-144 (A1)	15-May-10	15:24:48	"C" Gate Aerial	2	A	154	1	15-May-10	15:24:48	39658449	-76173476
54-144 (A1)	15-May-10	15:24:55	"C" Gate Aerial	2	A	103	1	15-May-10	15:24:55	39658449	-76173476
54-144 (A1)	15-May-10	15:25:02	"C" Gate Aerial	2	A	108	1	15-May-10	15:25:02	39658449	-76173476
54-144 (A1)	15-May-10	15:25:10	"C" Gate Aerial	2	A	165	1	15-May-10	15:25:10	39658449	-76173476
54-144 (A1)	15-May-10	15:25:18	"C" Gate Aerial	2	A	151	1	15-May-10	15:25:18	39658449	-76173476
54-144 (A1)	15-May-10	15:25:25	"C" Gate Aerial	2	A	152	1	15-May-10	15:25:25	39658449	-76173476
54-144 (A1)	15-May-10	15:25:32	"C" Gate Aerial	2	A	137	1	15-May-10	15:25:32	39658449	-76173476
54-144 (A1)	15-May-10	15:25:40	"C" Gate Aerial	2	A	82	1	15-May-10	15:25:40	39658449	-76173476



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	15-May-10	15:25:53	"C" Gate Aerial	2	A	133	1	15-May-10	15:25:53	39658449	-76173476
54-144 (A1)	15-May-10	15:26:03	"C" Gate Aerial	2	A	113	1	15-May-10	15:26:03	39658449	-76173476
54-144 (A1)	15-May-10	15:26:15	"C" Gate Aerial	2	A	131	1	15-May-10	15:26:15	39658449	-76173476
54-144 (A1)	15-May-10	15:26:22	"C" Gate Aerial	2	A	138	1	15-May-10	15:26:22	39658449	-76173476
54-144 (A1)	15-May-10	15:26:31	"C" Gate Aerial	2	A	64	1	15-May-10	15:26:31	39658449	-76173476
54-144 (A1)	15-May-10	15:26:43	"C" Gate Aerial	2	A	154	1	15-May-10	15:26:43	39658449	-76173476
54-144 (A1)	15-May-10	15:26:50	"C" Gate Aerial	2	A	112	1	15-May-10	15:26:50	39658449	-76173476
54-144 (A1)	15-May-10	15:27:03	"C" Gate Aerial	2	A	153	1	15-May-10	15:27:03	39658449	-76173476
54-144 (A1)	15-May-10	15:27:09	"C" Gate Aerial	2	A	137	1	15-May-10	15:27:09	39658449	-76173476
54-144 (A1)	15-May-10	15:27:16	"C" Gate Aerial	2	A	97	1	15-May-10	15:27:16	39658449	-76173476
54-144 (A1)	15-May-10	15:27:30	"C" Gate Aerial	2	A	114	1	15-May-10	15:27:30	39658449	-76173476
54-144 (A1)	15-May-10	15:27:36	"C" Gate Aerial	2	A	128	1	15-May-10	15:27:36	39658449	-76173476
54-144 (A1)	15-May-10	15:27:50	"C" Gate Aerial	2	A	121	1	15-May-10	15:27:50	39658449	-76173476
54-144 (A1)	15-May-10	15:27:57	"C" Gate Aerial	2	A	103	1	15-May-10	15:27:57	39658449	-76173476
54-144 (A1)	15-May-10	15:28:03	"C" Gate Aerial	2	A	69	1	15-May-10	15:28:03	39658449	-76173476
54-144 (A1)	15-May-10	15:28:10	"C" Gate Aerial	2	A	105	1	15-May-10	15:28:10	39658449	-76173476
54-144 (A1)	15-May-10	15:28:17	"C" Gate Aerial	2	A	135	1	15-May-10	15:28:17	39658449	-76173476
54-144 (A1)	15-May-10	15:28:24	"C" Gate Aerial	2	A	129	1	15-May-10	15:28:24	39658449	-76173476
54-144 (A1)	15-May-10	15:28:31	"C" Gate Aerial	2	A	138	1	15-May-10	15:28:31	39658449	-76173476
54-144 (A1)	15-May-10	15:28:39	"C" Gate Aerial	2	A	111	1	15-May-10	15:28:39	39658449	-76173476
54-144 (A1)	15-May-10	15:28:51	"C" Gate Aerial	2	A	64	1	15-May-10	15:28:51	39658449	-76173476
54-144 (A1)	15-May-10	15:29:11	"C" Gate Aerial	2	A	72	1	15-May-10	15:29:11	39658449	-76173476
54-144 (A1)	15-May-10	15:29:18	"C" Gate Aerial	2	A	113	1	15-May-10	15:29:18	39658449	-76173476
54-144 (A1)	15-May-10	15:29:31	"C" Gate Aerial	2	A	123	1	15-May-10	15:29:31	39658449	-76173476
54-144 (A1)	15-May-10	15:29:41	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	109	1	15-May-10	15:29:41	39657674	-76172621
54-144 (A1)	15-May-10	15:29:45	"C" Gate Aerial	2	A	117	1	15-May-10	15:29:45	39658449	-76173476
54-144 (A1)	15-May-10	15:29:58	"C" Gate Aerial	2	A	87	1	15-May-10	15:29:58	39658449	-76173476
54-144 (A1)	15-May-10	15:30:05	"C" Gate Aerial	2	A	121	1	15-May-10	15:30:05	39658449	-76173476
54-144 (A1)	15-May-10	15:30:12	"C" Gate Aerial	2	A	121	1	15-May-10	15:30:12	39658449	-76173476
54-144 (A1)	15-May-10	15:30:24	"C" Gate Aerial	2	A	108	1	15-May-10	15:30:24	39658449	-76173476
54-144 (A1)	15-May-10	15:30:31	"C" Gate Aerial	2	A	131	1	15-May-10	15:30:31	39658449	-76173476
54-144 (A1)	15-May-10	15:30:38	"C" Gate Aerial	2	A	99	1	15-May-10	15:30:38	39658449	-76173476
54-144 (A1)	15-May-10	15:30:52	"C" Gate Aerial	2	A	144	1	15-May-10	15:30:52	39658449	-76173476
54-144 (A1)	15-May-10	15:31:00	"C" Gate Aerial	2	A	154	1	15-May-10	15:31:00	39658449	-76173476
54-144 (A1)	15-May-10	15:31:06	"C" Gate Aerial	2	A	155	1	15-May-10	15:31:06	39658449	-76173476
54-144 (A1)	15-May-10	15:31:13	"C" Gate Aerial	2	A	107	1	15-May-10	15:31:13	39658449	-76173476
54-144 (A1)	15-May-10	15:31:21	"C" Gate Aerial	2	A	137	1	15-May-10	15:31:21	39658449	-76173476
54-144 (A1)	15-May-10	15:31:29	"C" Gate Aerial	2	A	132	1	15-May-10	15:31:29	39658449	-76173476
54-144 (A1)	15-May-10	15:31:37	"C" Gate Aerial	2	A	115	1	15-May-10	15:31:37	39658449	-76173476
54-144 (A1)	15-May-10	15:31:44	"C" Gate Aerial	2	A	154	1	15-May-10	15:31:44	39658449	-76173476
54-144 (A1)	15-May-10	15:31:50	"C" Gate Aerial	2	A	135	1	15-May-10	15:31:50	39658449	-76173476
54-144 (A1)	15-May-10	15:31:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	80	1	15-May-10	15:31:54	39657186	-76172854
54-144 (A1)	15-May-10	15:31:57	"C" Gate Aerial	2	A	134	1	15-May-10	15:31:57	39658449	-76173476
54-144 (A1)	15-May-10	15:32:04	"C" Gate Aerial	2	A	130	1	15-May-10	15:32:04	39658449	-76173476
54-144 (A1)	15-May-10	15:32:12	"C" Gate Aerial	2	A	140	1	15-May-10	15:32:12	39658449	-76173476
54-144 (A1)	15-May-10	15:32:19	"C" Gate Aerial	2	A	95	1	15-May-10	15:32:19	39658449	-76173476
54-144 (A1)	15-May-10	15:32:27	"C" Gate Aerial	2	A	137	1	15-May-10	15:32:27	39658449	-76173476
54-144 (A1)	15-May-10	15:32:27	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	129	4	15-May-10	15:35:18	39657674	-76172621
54-144 (A1)	15-May-10	15:32:33	"C" Gate Aerial	2	A	102	1	15-May-10	15:32:33	39658449	-76173476
54-144 (A1)	15-May-10	15:32:40	"C" Gate Aerial	2	A	133	1	15-May-10	15:32:40	39658449	-76173476
54-144 (A1)	15-May-10	15:32:47	"C" Gate Aerial	2	A	97	1	15-May-10	15:32:47	39658449	-76173476
54-144 (A1)	15-May-10	15:32:54	"C" Gate Aerial	2	A	121	1	15-May-10	15:32:54	39658449	-76173476
54-144 (A1)	15-May-10	15:33:00	"C" Gate Aerial	2	A	111	1	15-May-10	15:33:00	39658449	-76173476
54-144 (A1)	15-May-10	15:33:07	"C" Gate Aerial	2	A	151	1	15-May-10	15:33:07	39658449	-76173476
54-144 (A1)	15-May-10	15:33:14	"C" Gate Aerial	2	A	90	1	15-May-10	15:33:14	39658449	-76173476
54-144 (A1)	15-May-10	15:33:21	"C" Gate Aerial	2	A	87	1	15-May-10	15:33:21	39658449	-76173476
54-144 (A1)	15-May-10	15:33:34	"C" Gate Aerial	2	A	97	1	15-May-10	15:33:34	39658449	-76173476
54-144 (A1)	15-May-10	15:33:41	"C" Gate Aerial	2	A	131	1	15-May-10	15:33:41	39658449	-76173476
54-144 (A1)	15-May-10	15:34:03	"C" Gate Aerial	2	A	73	1	15-May-10	15:34:03	39658449	-76173476
54-144 (A1)	15-May-10	15:34:18	"C" Gate Aerial	2	A	135	1	15-May-10	15:34:18	39658449	-76173476
54-144 (A1)	15-May-10	15:34:38	"C" Gate Aerial	2	A	94	1	15-May-10	15:34:38	39658449	-76173476
54-144 (A1)	15-May-10	15:34:43	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	81	2	15-May-10	15:35:41	39657186	-76172854
54-144 (A1)	15-May-10	15:34:46	"C" Gate Aerial	2	A	82	1	15-May-10	15:34:46	39658449	-76173476
54-144 (A1)	15-May-10	15:35:13	"C" Gate Aerial	2	A	106	1	15-May-10	15:35:13	39658449	-76173476
54-144 (A1)	15-May-10	15:35:14	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	111	1	15-May-10	15:35:14	39657480	-76172724



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	15-May-10	15:35:21	"C" Gate Aerial	2	A	145	1	15-May-10	15:35:21	39658449	-76173476
54-144 (A1)	15-May-10	15:35:29	"C" Gate Aerial	2	A	114	1	15-May-10	15:35:29	39658449	-76173476
54-144 (A1)	15-May-10	15:35:37	"C" Gate Aerial	2	A	129	1	15-May-10	15:35:37	39658449	-76173476
54-144 (A1)	15-May-10	15:35:45	"C" Gate Aerial	2	A	91	1	15-May-10	15:35:45	39658449	-76173476
54-144 (A1)	15-May-10	15:36:00	"C" Gate Aerial	2	A	95	1	15-May-10	15:36:00	39658449	-76173476
54-144 (A1)	15-May-10	15:36:13	"C" Gate Aerial	2	A	114	1	15-May-10	15:36:13	39658449	-76173476
54-144 (A1)	15-May-10	15:36:15	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	105	2	15-May-10	15:39:03	39657674	-76172621
54-144 (A1)	15-May-10	15:36:20	"C" Gate Aerial	2	A	137	1	15-May-10	15:36:20	39658449	-76173476
54-144 (A1)	15-May-10	15:36:27	"C" Gate Aerial	2	A	150	1	15-May-10	15:36:27	39658449	-76173476
54-144 (A1)	15-May-10	15:36:35	"C" Gate Aerial	2	A	120	1	15-May-10	15:36:35	39658449	-76173476
54-144 (A1)	15-May-10	15:36:43	"C" Gate Aerial	2	A	92	1	15-May-10	15:36:43	39658449	-76173476
54-144 (A1)	15-May-10	15:36:51	"C" Gate Aerial	2	A	123	1	15-May-10	15:36:51	39658449	-76173476
54-144 (A1)	15-May-10	15:37:00	"C" Gate Aerial	2	A	152	1	15-May-10	15:37:00	39658449	-76173476
54-144 (A1)	15-May-10	15:37:07	"C" Gate Aerial	2	A	154	1	15-May-10	15:37:07	39658449	-76173476
54-144 (A1)	15-May-10	15:37:14	"C" Gate Aerial	2	A	136	1	15-May-10	15:37:14	39658449	-76173476
54-144 (A1)	15-May-10	15:37:21	"C" Gate Aerial	2	A	139	1	15-May-10	15:37:21	39658449	-76173476
54-144 (A1)	15-May-10	15:37:29	"C" Gate Aerial	2	A	157	1	15-May-10	15:37:29	39658449	-76173476
54-144 (A1)	15-May-10	15:37:41	"C" Gate Aerial	2	A	101	1	15-May-10	15:37:41	39658449	-76173476
54-144 (A1)	15-May-10	15:37:49	"C" Gate Aerial	2	A	163	1	15-May-10	15:37:49	39658449	-76173476
54-144 (A1)	15-May-10	15:37:56	"C" Gate Aerial	2	A	90	1	15-May-10	15:37:56	39658449	-76173476
54-144 (A1)	15-May-10	15:38:04	"C" Gate Aerial	2	A	102	1	15-May-10	15:38:04	39658449	-76173476
54-144 (A1)	15-May-10	15:38:17	"C" Gate Aerial	2	A	90	1	15-May-10	15:38:17	39658449	-76173476
54-144 (A1)	15-May-10	15:38:25	"C" Gate Aerial	2	A	88	1	15-May-10	15:38:25	39658449	-76173476
54-144 (A1)	15-May-10	15:38:33	"C" Gate Aerial	2	A	116	1	15-May-10	15:38:33	39658449	-76173476
54-144 (A1)	15-May-10	15:38:40	"C" Gate Aerial	2	A	114	1	15-May-10	15:38:40	39658449	-76173476
54-144 (A1)	15-May-10	15:38:47	"C" Gate Aerial	2	A	106	1	15-May-10	15:38:47	39658449	-76173476
54-144 (A1)	15-May-10	15:39:02	"C" Gate Aerial	2	A	123	1	15-May-10	15:39:02	39658449	-76173476
54-144 (A1)	15-May-10	15:39:09	"C" Gate Aerial	2	A	137	1	15-May-10	15:39:09	39658449	-76173476
54-144 (A1)	15-May-10	15:39:16	"C" Gate Aerial	2	A	87	1	15-May-10	15:39:16	39658449	-76173476
54-144 (A1)	15-May-10	15:39:29	"C" Gate Aerial	2	A	99	1	15-May-10	15:39:29	39658449	-76173476
54-144 (A1)	15-May-10	15:39:37	"C" Gate Aerial	2	A	87	1	15-May-10	15:39:37	39658449	-76173476
54-144 (A1)	15-May-10	15:39:52	"C" Gate Aerial	2	A	150	1	15-May-10	15:39:52	39658449	-76173476
54-144 (A1)	15-May-10	15:40:05	"C" Gate Aerial	2	A	128	1	15-May-10	15:40:05	39658449	-76173476
54-144 (A1)	15-May-10	15:40:18	"C" Gate Aerial	2	A	136	1	15-May-10	15:40:18	39658449	-76173476
54-144 (A1)	15-May-10	15:40:31	"C" Gate Aerial	2	A	124	1	15-May-10	15:40:31	39658449	-76173476
54-144 (A1)	15-May-10	15:40:39	"C" Gate Aerial	2	A	121	1	15-May-10	15:40:39	39658449	-76173476
54-144 (A1)	15-May-10	15:40:46	"C" Gate Aerial	2	A	149	1	15-May-10	15:40:46	39658449	-76173476
54-144 (A1)	15-May-10	15:40:53	"C" Gate Aerial	2	A	130	1	15-May-10	15:40:53	39658449	-76173476
54-144 (A1)	15-May-10	15:41:00	"C" Gate Aerial	2	A	98	1	15-May-10	15:41:00	39658449	-76173476
54-144 (A1)	15-May-10	15:41:12	"C" Gate Aerial	2	A	156	1	15-May-10	15:41:12	39658449	-76173476
54-144 (A1)	15-May-10	15:41:26	"C" Gate Aerial	2	A	165	1	15-May-10	15:41:26	39658449	-76173476
54-144 (A1)	15-May-10	15:41:32	"C" Gate Aerial	2	A	108	1	15-May-10	15:41:32	39658449	-76173476
54-144 (A1)	15-May-10	15:41:40	"C" Gate Aerial	2	A	124	1	15-May-10	15:41:40	39658449	-76173476
54-144 (A1)	15-May-10	15:41:47	"C" Gate Aerial	2	A	147	1	15-May-10	15:41:47	39658449	-76173476
54-144 (A1)	15-May-10	15:41:53	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	111	4	15-May-10	15:45:38	39657674	-76172621
54-144 (A1)	15-May-10	15:41:54	"C" Gate Aerial	2	A	150	1	15-May-10	15:41:54	39658449	-76173476
54-144 (A1)	15-May-10	15:42:07	"C" Gate Aerial	2	A	96	1	15-May-10	15:42:07	39658449	-76173476
54-144 (A1)	15-May-10	15:42:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	96	1	15-May-10	15:42:25	39657186	-76172854
54-144 (A1)	15-May-10	15:42:25	"C" Gate Aerial	2	A	148	1	15-May-10	15:42:25	39658449	-76173476
54-144 (A1)	15-May-10	15:42:33	"C" Gate Aerial	2	A	129	1	15-May-10	15:42:33	39658449	-76173476
54-144 (A1)	15-May-10	15:42:40	"C" Gate Aerial	2	A	157	1	15-May-10	15:42:40	39658449	-76173476
54-144 (A1)	15-May-10	15:42:47	"C" Gate Aerial	2	A	137	1	15-May-10	15:42:47	39658449	-76173476
54-144 (A1)	15-May-10	15:43:02	"C" Gate Aerial	2	A	135	1	15-May-10	15:43:02	39658449	-76173476
54-144 (A1)	15-May-10	15:43:10	"C" Gate Aerial	2	A	109	1	15-May-10	15:43:10	39658449	-76173476
54-144 (A1)	15-May-10	15:43:17	"C" Gate Aerial	2	A	116	1	15-May-10	15:43:17	39658449	-76173476
54-144 (A1)	15-May-10	15:43:29	"C" Gate Aerial	2	A	88	1	15-May-10	15:43:29	39658449	-76173476
54-144 (A1)	15-May-10	15:43:36	"C" Gate Aerial	2	A	117	1	15-May-10	15:43:36	39658449	-76173476
54-144 (A1)	15-May-10	15:43:43	"C" Gate Aerial	2	A	147	1	15-May-10	15:43:43	39658449	-76173476
54-144 (A1)	15-May-10	15:43:50	"C" Gate Aerial	2	A	137	1	15-May-10	15:43:50	39658449	-76173476
54-144 (A1)	15-May-10	15:44:24	"C" Gate Aerial	2	A	154	1	15-May-10	15:44:24	39658449	-76173476
54-144 (A1)	15-May-10	15:44:38	"C" Gate Aerial	2	A	97	1	15-May-10	15:44:38	39658449	-76173476
54-144 (A1)	15-May-10	15:44:44	"C" Gate Aerial	2	A	152	1	15-May-10	15:44:44	39658449	-76173476
54-144 (A1)	15-May-10	15:44:52	"C" Gate Aerial	2	A	135	1	15-May-10	15:44:52	39658449	-76173476
54-144 (A1)	15-May-10	15:45:00	"C" Gate Aerial	2	A	128	1	15-May-10	15:45:00	39658449	-76173476
54-144 (A1)	15-May-10	15:45:07	"C" Gate Aerial	2	A	130	1	15-May-10	15:45:07	39658449	-76173476

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	15-May-10	15:45:14	"C" Gate Aerial	2	A	83	1	15-May-10	15:45:14	39658449	-76173476
54-144 (A1)	15-May-10	15:45:21	"C" Gate Aerial	2	A	88	1	15-May-10	15:45:21	39658449	-76173476
54-144 (A1)	15-May-10	15:45:27	"C" Gate Aerial	2	A	57	1	15-May-10	15:45:27	39658449	-76173476
54-144 (A1)	15-May-10	15:45:34	"C" Gate Aerial	2	A	119	1	15-May-10	15:45:34	39658449	-76173476
54-144 (A1)	15-May-10	15:45:41	"C" Gate Aerial	2	A	136	1	15-May-10	15:45:41	39658449	-76173476
54-144 (A1)	15-May-10	15:45:48	"C" Gate Aerial	2	A	140	1	15-May-10	15:45:48	39658449	-76173476
54-144 (A1)	15-May-10	15:46:02	"C" Gate Aerial	2	A	153	1	15-May-10	15:46:02	39658449	-76173476
54-144 (A1)	15-May-10	15:46:09	"C" Gate Aerial	2	A	67	1	15-May-10	15:46:09	39658449	-76173476
54-144 (A1)	15-May-10	15:46:16	"C" Gate Aerial	2	A	102	1	15-May-10	15:46:16	39658449	-76173476
54-144 (A1)	15-May-10	15:46:23	"C" Gate Aerial	2	A	89	1	15-May-10	15:46:23	39658449	-76173476
54-144 (A1)	15-May-10	15:46:29	"C" Gate Aerial	2	A	116	1	15-May-10	15:46:29	39658449	-76173476
54-144 (A1)	15-May-10	15:46:48	"C" Gate Aerial	2	A	121	1	15-May-10	15:46:48	39658449	-76173476
54-144 (A1)	15-May-10	15:46:54	"C" Gate Aerial	2	A	111	1	15-May-10	15:46:54	39658449	-76173476
54-144 (A1)	15-May-10	15:47:02	"C" Gate Aerial	2	A	130	1	15-May-10	15:47:02	39658449	-76173476
54-144 (A1)	15-May-10	15:47:09	"C" Gate Aerial	2	A	134	1	15-May-10	15:47:09	39658449	-76173476
54-144 (A1)	15-May-10	15:47:16	"C" Gate Aerial	2	A	163	1	15-May-10	15:47:16	39658449	-76173476
54-144 (A1)	15-May-10	15:47:24	"C" Gate Aerial	2	A	149	1	15-May-10	15:47:24	39658449	-76173476
54-144 (A1)	15-May-10	15:47:30	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	118	1	15-May-10	15:47:30	39657674	-76172621
54-144 (A1)	15-May-10	15:47:31	"C" Gate Aerial	2	A	151	1	15-May-10	15:47:31	39658449	-76173476
54-144 (A1)	15-May-10	15:47:37	"C" Gate Aerial	2	A	113	1	15-May-10	15:47:37	39658449	-76173476
54-144 (A1)	15-May-10	15:47:45	"C" Gate Aerial	2	A	105	1	15-May-10	15:47:45	39658449	-76173476
54-144 (A1)	15-May-10	15:48:00	"C" Gate Aerial	2	A	107	1	15-May-10	15:48:00	39658449	-76173476
54-144 (A1)	15-May-10	15:48:07	"C" Gate Aerial	2	A	152	1	15-May-10	15:48:07	39658449	-76173476
54-144 (A1)	15-May-10	15:48:14	"C" Gate Aerial	2	A	68	1	15-May-10	15:48:14	39658449	-76173476
54-144 (A1)	15-May-10	15:48:20	"C" Gate Aerial	2	A	147	1	15-May-10	15:48:20	39658449	-76173476
54-144 (A1)	15-May-10	15:48:27	"C" Gate Aerial	2	A	97	1	15-May-10	15:48:27	39658449	-76173476
54-144 (A1)	15-May-10	15:48:34	"C" Gate Aerial	2	A	105	1	15-May-10	15:48:34	39658449	-76173476
54-144 (A1)	15-May-10	15:48:58	"C" Gate Aerial	2	A	147	1	15-May-10	15:48:58	39658449	-76173476
54-144 (A1)	15-May-10	15:49:22	"C" Gate Aerial	2	A	96	1	15-May-10	15:49:22	39658449	-76173476
54-144 (A1)	15-May-10	15:49:29	"C" Gate Aerial	2	A	113	1	15-May-10	15:49:29	39658449	-76173476
54-144 (A1)	15-May-10	15:49:41	"C" Gate Aerial	2	A	161	1	15-May-10	15:49:41	39658449	-76173476
54-144 (A1)	15-May-10	15:49:48	"C" Gate Aerial	2	A	102	1	15-May-10	15:49:48	39658449	-76173476
54-144 (A1)	15-May-10	15:49:55	"C" Gate Aerial	2	A	107	1	15-May-10	15:49:55	39658449	-76173476
54-144 (A1)	15-May-10	15:50:02	"C" Gate Aerial	2	A	158	1	15-May-10	15:50:02	39658449	-76173476
54-144 (A1)	15-May-10	15:50:09	"C" Gate Aerial	2	A	155	1	15-May-10	15:50:09	39658449	-76173476
54-144 (A1)	15-May-10	15:50:16	"C" Gate Aerial	2	A	153	1	15-May-10	15:50:16	39658449	-76173476
54-144 (A1)	15-May-10	15:50:24	"C" Gate Aerial	2	A	164	1	15-May-10	15:50:24	39658449	-76173476
54-144 (A1)	15-May-10	15:50:31	"C" Gate Aerial	2	A	150	1	15-May-10	15:50:31	39658449	-76173476
54-144 (A1)	15-May-10	15:50:37	"C" Gate Aerial	2	A	157	1	15-May-10	15:50:37	39658449	-76173476
54-144 (A1)	15-May-10	15:50:44	"C" Gate Aerial	2	A	113	1	15-May-10	15:50:44	39658449	-76173476
54-144 (A1)	15-May-10	15:50:51	"C" Gate Aerial	2	A	105	1	15-May-10	15:50:51	39658449	-76173476
54-144 (A1)	15-May-10	15:50:58	"C" Gate Aerial	2	A	157	1	15-May-10	15:50:58	39658449	-76173476
54-144 (A1)	15-May-10	15:51:05	"C" Gate Aerial	2	A	102	1	15-May-10	15:51:05	39658449	-76173476
54-144 (A1)	15-May-10	15:51:11	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	93	2	15-May-10	15:51:11	39657674	-76172621
54-144 (A1)	15-May-10	15:51:12	"C" Gate Aerial	2	A	87	1	15-May-10	15:51:12	39658449	-76173476
54-144 (A1)	15-May-10	15:51:19	"C" Gate Aerial	2	A	148	1	15-May-10	15:51:19	39658449	-76173476
54-144 (A1)	15-May-10	15:51:31	"C" Gate Aerial	2	A	64	1	15-May-10	15:51:31	39658449	-76173476
54-144 (A1)	15-May-10	15:51:43	"C" Gate Aerial	2	A	131	1	15-May-10	15:51:43	39658449	-76173476
54-144 (A1)	15-May-10	15:51:51	"C" Gate Aerial	2	A	71	1	15-May-10	15:51:51	39658449	-76173476
54-144 (A1)	15-May-10	15:52:11	"C" Gate Aerial	2	A	69	1	15-May-10	15:52:11	39658449	-76173476
54-144 (A1)	15-May-10	15:53:40	"C" Gate Aerial	2	A	80	1	15-May-10	15:53:40	39658449	-76173476
54-144 (A1)	15-May-10	15:53:43	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	104	1	15-May-10	15:53:43	39657186	-76172854
54-144 (A1)	15-May-10	15:53:53	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	96	1	15-May-10	15:53:53	39657308	-76172818
54-144 (A1)	15-May-10	15:54:04	"C" Gate Aerial	2	A	57	1	15-May-10	15:54:04	39658449	-76173476
54-144 (A1)	15-May-10	15:54:28	"C" Gate Aerial	2	A	83	1	15-May-10	15:54:28	39658449	-76173476
54-144 (A1)	15-May-10	15:54:35	"C" Gate Aerial	2	A	74	1	15-May-10	15:54:35	39658449	-76173476
54-144 (A1)	15-May-10	15:54:41	"C" Gate Aerial	2	A	72	1	15-May-10	15:54:41	39658449	-76173476
54-144 (A1)	15-May-10	15:54:48	"C" Gate Aerial	2	A	95	1	15-May-10	15:54:48	39658449	-76173476
54-144 (A1)	15-May-10	15:54:55	"C" Gate Aerial	2	A	129	1	15-May-10	15:54:55	39658449	-76173476
54-144 (A1)	15-May-10	15:55:02	"C" Gate Aerial	2	A	106	1	15-May-10	15:55:02	39658449	-76173476
54-144 (A1)	15-May-10	15:55:20	"C" Gate Aerial	2	A	122	1	15-May-10	15:55:20	39658449	-76173476
54-144 (A1)	15-May-10	15:55:27	"C" Gate Aerial	2	A	97	1	15-May-10	15:55:27	39658449	-76173476
54-144 (A1)	15-May-10	15:55:41	"C" Gate Aerial	2	A	100	1	15-May-10	15:55:41	39658449	-76173476
54-144 (A1)	15-May-10	15:55:48	"C" Gate Aerial	2	A	91	1	15-May-10	15:55:48	39658449	-76173476
54-144 (A1)	15-May-10	16:02:00	"C" Gate Aerial	2	A	96	1	15-May-10	16:02:00	39658449	-76173476

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	15-May-10	16:02:07	"C" Gate Aerial	2	A	50	1	15-May-10	16:02:07	39658449	-76173476
54-144 (A1)	15-May-10	16:02:14	"C" Gate Aerial	2	A	105	1	15-May-10	16:02:14	39658449	-76173476
54-144 (A1)	15-May-10	16:02:17	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	151	2	15-May-10	16:03:14	39657674	-76172621
54-144 (A1)	15-May-10	16:02:20	"C" Gate Aerial	2	A	53	1	15-May-10	16:02:20	39658449	-76173476
54-144 (A1)	15-May-10	16:02:27	"C" Gate Aerial	2	A	80	1	15-May-10	16:02:27	39658449	-76173476
54-144 (A1)	15-May-10	16:02:35	"C" Gate Aerial	2	A	90	1	15-May-10	16:02:35	39658449	-76173476
54-144 (A1)	15-May-10	16:02:42	"C" Gate Aerial	2	A	72	1	15-May-10	16:02:42	39658449	-76173476
54-144 (A1)	15-May-10	16:02:54	"C" Gate Aerial	2	A	97	1	15-May-10	16:02:54	39658449	-76173476
54-144 (A1)	15-May-10	16:03:01	"C" Gate Aerial	2	A	90	1	15-May-10	16:03:01	39658449	-76173476
54-144 (A1)	15-May-10	16:03:08	"C" Gate Aerial	2	A	106	1	15-May-10	16:03:08	39658449	-76173476
54-144 (A1)	15-May-10	16:03:11	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	115	1	15-May-10	16:03:11	39657480	-76172724
54-144 (A1)	15-May-10	16:03:15	"C" Gate Aerial	2	A	113	1	15-May-10	16:03:15	39658449	-76173476
54-144 (A1)	15-May-10	16:03:56	"C" Gate Aerial	2	A	97	1	15-May-10	16:03:56	39658449	-76173476
54-144 (A1)	15-May-10	16:04:09	"C" Gate Aerial	2	A	133	1	15-May-10	16:04:09	39658449	-76173476
54-144 (A1)	15-May-10	16:04:16	"C" Gate Aerial	2	A	137	1	15-May-10	16:04:16	39658449	-76173476
54-144 (A1)	15-May-10	16:04:22	"C" Gate Aerial	2	A	139	1	15-May-10	16:04:22	39658449	-76173476
54-144 (A1)	15-May-10	16:04:30	"C" Gate Aerial	2	A	156	1	15-May-10	16:04:30	39658449	-76173476
54-144 (A1)	15-May-10	16:04:37	"C" Gate Aerial	2	A	153	1	15-May-10	16:04:37	39658449	-76173476
54-144 (A1)	15-May-10	16:04:44	"C" Gate Aerial	2	A	125	1	15-May-10	16:04:44	39658449	-76173476
54-144 (A1)	15-May-10	16:04:51	"C" Gate Aerial	2	A	97	1	15-May-10	16:04:51	39658449	-76173476
54-144 (A1)	15-May-10	16:04:57	"C" Gate Aerial	2	A	129	1	15-May-10	16:04:57	39658449	-76173476
54-144 (A1)	15-May-10	16:05:04	"C" Gate Aerial	2	A	54	1	15-May-10	16:05:04	39658449	-76173476
54-144 (A1)	15-May-10	16:05:11	"C" Gate Aerial	2	A	142	1	15-May-10	16:05:11	39658449	-76173476
54-144 (A1)	15-May-10	16:05:18	"C" Gate Aerial	2	A	113	1	15-May-10	16:05:18	39658449	-76173476
54-144 (A1)	15-May-10	16:05:24	"C" Gate Aerial	2	A	106	1	15-May-10	16:05:24	39658449	-76173476
54-144 (A1)	15-May-10	16:05:31	"C" Gate Aerial	2	A	155	1	15-May-10	16:05:31	39658449	-76173476
54-144 (A1)	15-May-10	16:05:38	"C" Gate Aerial	2	A	85	1	15-May-10	16:05:38	39658449	-76173476
54-144 (A1)	15-May-10	16:05:56	"C" Gate Aerial	2	A	147	1	15-May-10	16:05:56	39658449	-76173476
54-144 (A1)	15-May-10	16:06:00	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	98	1	15-May-10	16:06:00	39657480	-76172724
54-144 (A1)	15-May-10	16:06:03	"C" Gate Aerial	2	A	133	1	15-May-10	16:06:03	39658449	-76173476
54-144 (A1)	15-May-10	16:06:10	"C" Gate Aerial	2	A	116	1	15-May-10	16:06:10	39658449	-76173476
54-144 (A1)	15-May-10	16:06:16	"C" Gate Aerial	2	A	116	1	15-May-10	16:06:16	39658449	-76173476
54-144 (A1)	15-May-10	16:06:29	"C" Gate Aerial	2	A	168	1	15-May-10	16:06:29	39658449	-76173476
54-144 (A1)	15-May-10	16:06:36	"C" Gate Aerial	2	A	103	1	15-May-10	16:06:36	39658449	-76173476
54-144 (A1)	15-May-10	16:06:42	"C" Gate Aerial	2	A	118	1	15-May-10	16:06:42	39658449	-76173476
54-144 (A1)	15-May-10	16:06:49	"C" Gate Aerial	2	A	151	1	15-May-10	16:06:49	39658449	-76173476
54-144 (A1)	15-May-10	16:06:56	"C" Gate Aerial	2	A	150	1	15-May-10	16:06:56	39658449	-76173476
54-144 (A1)	15-May-10	16:07:03	"C" Gate Aerial	2	A	165	1	15-May-10	16:07:03	39658449	-76173476
54-144 (A1)	15-May-10	16:07:09	"C" Gate Aerial	2	A	112	1	15-May-10	16:07:09	39658449	-76173476
54-144 (A1)	15-May-10	16:07:16	"C" Gate Aerial	2	A	121	1	15-May-10	16:07:16	39658449	-76173476
54-144 (A1)	15-May-10	16:07:23	"C" Gate Aerial	2	A	125	1	15-May-10	16:07:23	39658449	-76173476
54-144 (A1)	15-May-10	16:07:30	"C" Gate Aerial	2	A	118	1	15-May-10	16:07:30	39658449	-76173476
54-144 (A1)	15-May-10	16:07:42	"C" Gate Aerial	2	A	135	1	15-May-10	16:07:42	39658449	-76173476
54-144 (A1)	15-May-10	16:07:49	"C" Gate Aerial	2	A	142	1	15-May-10	16:07:49	39658449	-76173476
54-144 (A1)	15-May-10	16:08:02	"C" Gate Aerial	2	A	79	1	15-May-10	16:08:02	39658449	-76173476
54-144 (A1)	15-May-10	16:08:15	"C" Gate Aerial	2	A	115	1	15-May-10	16:08:15	39658449	-76173476
54-144 (A1)	15-May-10	16:08:22	"C" Gate Aerial	2	A	147	1	15-May-10	16:08:22	39658449	-76173476
54-144 (A1)	15-May-10	16:08:40	"C" Gate Aerial	2	A	130	1	15-May-10	16:08:40	39658449	-76173476
54-144 (A1)	15-May-10	16:08:46	"C" Gate Aerial	2	A	150	1	15-May-10	16:08:46	39658449	-76173476
54-144 (A1)	15-May-10	16:08:50	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	96	2	15-May-10	16:09:46	39657674	-76172621
54-144 (A1)	15-May-10	16:08:53	"C" Gate Aerial	2	A	163	1	15-May-10	16:08:53	39658449	-76173476
54-144 (A1)	15-May-10	16:09:00	"C" Gate Aerial	2	A	132	1	15-May-10	16:09:00	39658449	-76173476
54-144 (A1)	15-May-10	16:09:07	"C" Gate Aerial	2	A	163	1	15-May-10	16:09:07	39658449	-76173476
54-144 (A1)	15-May-10	16:09:13	"C" Gate Aerial	2	A	148	1	15-May-10	16:09:13	39658449	-76173476
54-144 (A1)	15-May-10	16:09:20	"C" Gate Aerial	2	A	139	1	15-May-10	16:09:20	39658449	-76173476
54-144 (A1)	15-May-10	16:10:01	"C" Gate Aerial	2	A	58	1	15-May-10	16:10:01	39658449	-76173476
54-144 (A1)	15-May-10	16:11:33	"C" Gate Aerial	2	A	54	1	15-May-10	16:11:33	39658449	-76173476
54-144 (A1)	15-May-10	16:13:34	"C" Gate Aerial	2	A	76	1	15-May-10	16:13:34	39658449	-76173476
54-144 (A1)	15-May-10	16:16:02	"C" Gate Aerial	2	A	83	1	15-May-10	16:16:02	39658449	-76173476
54-144 (A1)	15-May-10	16:16:54	"C" Gate Aerial	2	A	53	1	15-May-10	16:16:54	39658449	-76173476
54-144 (A1)	15-May-10	16:18:32	"C" Gate Aerial	2	A	106	1	15-May-10	16:18:32	39658449	-76173476
54-144 (A1)	15-May-10	16:21:23	"C" Gate Aerial	2	A	58	1	15-May-10	16:21:23	39658449	-76173476
54-144 (A1)	15-May-10	16:21:30	"C" Gate Aerial	2	A	57	1	15-May-10	16:21:30	39658449	-76173476
54-144 (A1)	15-May-10	16:21:37	"C" Gate Aerial	2	A	52	1	15-May-10	16:21:37	39658449	-76173476
54-144 (A1)	15-May-10	16:23:09	"C" Gate Aerial	2	A	94	1	15-May-10	16:23:09	39658449	-76173476

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	15-May-10	16:25:17	"C" Gate Aerial	2	A	74	1	15-May-10	16:25:17	39658449	-76173476
54-144 (A1)	15-May-10	16:27:16	"C" Gate Aerial	2	A	107	1	15-May-10	16:27:16	39658449	-76173476
54-144 (A1)	15-May-10	16:28:08	"C" Gate Aerial	2	A	57	1	15-May-10	16:28:08	39658449	-76173476
54-144 (A1)	15-May-10	16:31:50	"C" Gate Aerial	2	A	80	1	15-May-10	16:31:50	39658449	-76173476
54-144 (A1)	15-May-10	16:32:20	"C" Gate Aerial	2	A	60	1	15-May-10	16:32:20	39658449	-76173476
54-144 (A1)	15-May-10	16:33:12	"C" Gate Aerial	2	A	103	1	15-May-10	16:33:12	39658449	-76173476
54-144 (A1)	15-May-10	16:33:35	"C" Gate Aerial	2	A	52	1	15-May-10	16:33:35	39658449	-76173476
54-144 (A1)	15-May-10	16:34:56	"C" Gate Aerial	2	A	58	1	15-May-10	16:34:56	39658449	-76173476
54-144 (A1)	15-May-10	16:35:31	"C" Gate Aerial	2	A	59	1	15-May-10	16:35:31	39658449	-76173476
54-144 (A1)	15-May-10	16:36:17	"C" Gate Aerial	2	A	50	1	15-May-10	16:36:17	39658449	-76173476
54-144 (A1)	15-May-10	16:45:35	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	65	1	15-May-10	16:45:35	39657186	-76172854
54-144 (A1)	15-May-10	16:53:19	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	55	1	15-May-10	16:53:19	39657186	-76172854
54-144 (A1)	15-May-10	16:56:11	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	119	2	15-May-10	16:58:06	39657186	-76172854
54-144 (A1)	15-May-10	17:00:56	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	104	1	15-May-10	17:00:56	39657186	-76172854
54-144 (A1)	15-May-10	17:06:49	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	164	2	15-May-10	17:07:49	39657186	-76172854
54-144 (A1)	15-May-10	17:06:49	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	149	2	15-May-10	17:10:35	39657308	-76172818
54-144 (A1)	15-May-10	17:08:46	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	153	2	15-May-10	17:09:44	39657186	-76172854
54-144 (A1)	15-May-10	17:09:32	Conowingo Tailrace Units 1-7 Master	17	A	144	1	15-May-10	17:09:32		
54-144 (A1)	15-May-10	17:09:41	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	74	1	15-May-10	17:09:41	39657480	-76172724
54-144 (A1)	15-May-10	17:10:31	Conowingo Tailrace Units 8-11 Master	7	A	104	1	15-May-10	17:10:31		
54-144 (A1)	15-May-10	17:11:31	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	173	1	15-May-10	17:11:31	39657308	-76172818
54-144 (A1)	15-May-10	17:12:30	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	135	1	15-May-10	17:12:30	39657480	-76172724
54-144 (A1)	15-May-10	17:13:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	114	1	15-May-10	17:13:54	39657186	-76172854
54-144 (A1)	15-May-10	17:20:40	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	64	1	15-May-10	17:20:40	39656845	-76173035
54-144 (A1)	15-May-10	17:21:01	Rowland Island West (Near-Field)	0	2	102	14	15-May-10	17:29:23	39652629	-76168481
54-144 (A1)	15-May-10	17:31:01	Rowland Island West (Near-Field)	0	2	58	2	15-May-10	17:33:23	39652629	-76168481
54-144 (A1)	15-May-10	17:40:55	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	92	2	15-May-10	17:41:55	39656845	-76173035
54-144 (A1)	15-May-10	17:41:51	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	91	2	15-May-10	17:42:54	39656488	-76173233
54-144 (A1)	15-May-10	17:42:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	80	1	15-May-10	17:42:00	39657186	-76172854
54-144 (A1)	15-May-10	17:43:53	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	106	5	15-May-10	17:47:57	39656488	-76173233
54-144 (A1)	15-May-10	17:44:56	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	109	2	15-May-10	17:46:58	39656845	-76173035
54-144 (A1)	15-May-10	17:46:45	Conowingo Tailrace Units 1-7 Master	17	A	65	1	15-May-10	17:46:45		
54-144 (A1)	15-May-10	17:46:49	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	109	2	15-May-10	17:47:53	39656015	-76173489
54-144 (A1)	15-May-10	17:48:47	Conowingo Tailrace Units 1-7 Master	17	A	61	1	15-May-10	17:48:47		
54-144 (A1)	15-May-10	17:48:51	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	139	4	15-May-10	17:52:44	39656015	-76173489
54-144 (A1)	15-May-10	17:48:55	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	113	2	15-May-10	17:52:48	39656488	-76173233
54-144 (A1)	15-May-10	17:49:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	76	2	15-May-10	17:52:53	39656845	-76173035
54-144 (A1)	15-May-10	17:53:46	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	103	1	15-May-10	17:53:46	39656488	-76173233
54-144 (A1)	15-May-10	17:53:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	90	2	15-May-10	17:54:49	39656845	-76173035
54-144 (A1)	15-May-10	17:53:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	66	1	15-May-10	17:53:54	39657186	-76172854
54-144 (A1)	16-May-10	6:25:56	Conowingo Tailrace Units 1-7 Master	17	A	95	1	16-May-10	6:25:56		
54-144 (A1)	16-May-10	6:26:03	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	96	1	16-May-10	6:26:03	39656488	-76173233
54-144 (A1)	16-May-10	6:26:07	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	146	1	16-May-10	6:26:07	39656845	-76173035
54-144 (A1)	16-May-10	6:27:19	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	153	1	16-May-10	6:27:19	39656488	-76173233
54-144 (A1)	16-May-10	6:27:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	121	1	16-May-10	6:27:27	39657186	-76172854
54-144 (A1)	16-May-10	6:28:36	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	85	2	16-May-10	6:31:18	39656845	-76173035
54-144 (A1)	16-May-10	6:33:38	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	105	2	16-May-10	6:36:21	39656488	-76173233
54-144 (A1)	16-May-10	6:33:43	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	84	1	16-May-10	6:33:43	39656845	-76173035
54-144 (A1)	16-May-10	6:40:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	151	1	16-May-10	6:40:28	39656845	-76173035
54-144 (A1)	16-May-10	6:45:50	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	89	1	16-May-10	6:45:50	39656015	-76173489
54-144 (A1)	16-May-10	6:45:56	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	113	1	16-May-10	6:45:56	39656845	-76173035
54-144 (A1)	16-May-10	6:53:27	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	111	2	16-May-10	6:55:55	39656015	-76173489
54-144 (A1)	16-May-10	6:53:37	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	71	2	16-May-10	6:54:51	39656845	-76173035
54-144 (A1)	16-May-10	6:56:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	80	1	16-May-10	6:56:00	39656488	-76173233
54-144 (A1)	16-May-10	7:00:02	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	114	1	16-May-10	7:00:02	39657186	-76172854
54-144 (A1)	16-May-10	7:02:41	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	78	1	16-May-10	7:02:41	39657186	-76172854
54-144 (A1)	16-May-10	7:25:46	Rowland Island West (Near-Field)	0	2	60	3	16-May-10	7:35:21	39652629	-76168481
54-144 (A1)	16-May-10	7:36:08	Rowland Island West (Near-Field)	0	2	94	13	16-May-10	7:44:56	39652629	-76168481
54-144 (A1)	16-May-10	7:46:36	Rowland Island West (Near-Field)	0	2	90	15	16-May-10	7:56:35	39652629	-76168481
54-144 (A1)	16-May-10	7:56:58	Rowland Island West (Near-Field)	0	2	109	14	16-May-10	8:06:38	39652629	-76168481
54-144 (A1)	16-May-10	8:07:01	Rowland Island West (Near-Field)	0	2	126	16	16-May-10	8:16:12	39652629	-76168481
54-144 (A1)	16-May-10	8:17:01	Rowland Island West (Near-Field)	0	2	113	17	16-May-10	8:26:13	39652629	-76168481
54-144 (A1)	16-May-10	8:27:27	Rowland Island West (Near-Field)	0	2	84	17	16-May-10	8:37:03	39652629	-76168481
54-144 (A1)	16-May-10	8:37:28	Rowland Island West (Near-Field)	0	2	79	12	16-May-10	8:47:03	39652629	-76168481
54-144 (A1)	16-May-10	8:49:05	Rowland Island West (Near-Field)	0	2	81	11	16-May-10	8:58:46	39652629	-76168481



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	16-May-10	9:00:21	Rowland Island West (Near-Field)	0	2	86	12	16-May-10	9:09:11	39652629	-76168481
54-144 (A1)	16-May-10	9:10:21	Rowland Island West (Near-Field)	0	2	101	19	16-May-10	9:19:33	39652629	-76168481
54-144 (A1)	16-May-10	9:21:11	Rowland Island West (Near-Field)	0	2	85	13	16-May-10	9:30:21	39652629	-76168481
54-144 (A1)	16-May-10	9:31:34	Rowland Island West (Near-Field)	0	2	93	8	16-May-10	9:38:01	39652629	-76168481
54-144 (A1)	16-May-10	10:02:39	Rowland Island West (Near-Field)	0	2	78	3	16-May-10	10:08:14	39652629	-76168481
54-144 (A1)	16-May-10	12:57:07	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	82	1	16-May-10	12:57:07	39656845	-76173035
54-144 (A1)	16-May-10	13:06:09	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	57	1	16-May-10	13:06:09	39656488	-76173233
54-144 (A1)	16-May-10	13:07:06	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	79	2	16-May-10	13:08:11	39656015	-76173489
54-144 (A1)	16-May-10	13:15:22	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	110	4	16-May-10	13:19:30	39656015	-76173489
54-144 (A1)	16-May-10	13:16:25	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	83	1	16-May-10	13:16:25	39656488	-76173233
54-144 (A1)	16-May-10	13:20:35	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	79	1	16-May-10	13:20:35	39656015	-76173489
54-144 (A1)	16-May-10	13:20:39	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	147	2	16-May-10	13:21:41	39656488	-76173233
54-144 (A1)	16-May-10	13:21:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	136	1	16-May-10	13:21:46	39656845	-76173035
54-144 (A1)	16-May-10	13:23:51	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	85	1	16-May-10	13:23:51	39657186	-76172854
54-144 (A1)	16-May-10	13:26:56	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	97	2	16-May-10	13:27:52	39657480	-76172724
54-144 (A1)	16-May-10	13:37:11	"C" Gate Aerial	2	A	75	1	16-May-10	13:37:11	39658449	-76173476
54-144 (A1)	16-May-10	13:37:18	"C" Gate Aerial	2	A	117	1	16-May-10	13:37:18	39658449	-76173476
54-144 (A1)	16-May-10	13:39:29	"C" Gate Aerial	2	A	79	1	16-May-10	13:39:29	39658449	-76173476
54-144 (A1)	16-May-10	13:42:36	"C" Gate Aerial	2	A	50	1	16-May-10	13:42:36	39658449	-76173476
54-144 (A1)	16-May-10	13:43:11	"C" Gate Aerial	2	A	121	1	16-May-10	13:43:11	39658449	-76173476
54-144 (A1)	16-May-10	13:43:35	"C" Gate Aerial	2	A	59	1	16-May-10	13:43:35	39658449	-76173476
54-144 (A1)	16-May-10	13:43:53	"C" Gate Aerial	2	A	86	1	16-May-10	13:43:53	39658449	-76173476
54-144 (A1)	16-May-10	13:45:14	"C" Gate Aerial	2	A	133	1	16-May-10	13:45:14	39658449	-76173476
54-144 (A1)	16-May-10	13:45:32	"C" Gate Aerial	2	A	62	1	16-May-10	13:45:32	39658449	-76173476
54-144 (A1)	16-May-10	13:45:39	"C" Gate Aerial	2	A	125	1	16-May-10	13:45:39	39658449	-76173476
54-144 (A1)	16-May-10	13:45:45	"C" Gate Aerial	2	A	101	1	16-May-10	13:45:45	39658449	-76173476
54-144 (A1)	16-May-10	13:46:17	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	74	1	16-May-10	13:46:17	39657674	-76172621
54-144 (A1)	16-May-10	13:46:37	"C" Gate Aerial	2	A	76	1	16-May-10	13:46:37	39658449	-76173476
54-144 (A1)	16-May-10	13:47:01	"C" Gate Aerial	2	A	140	1	16-May-10	13:47:01	39658449	-76173476
54-144 (A1)	16-May-10	13:47:25	"C" Gate Aerial	2	A	70	1	16-May-10	13:47:25	39658449	-76173476
54-144 (A1)	16-May-10	13:47:32	"C" Gate Aerial	2	A	98	1	16-May-10	13:47:32	39658449	-76173476
54-144 (A1)	16-May-10	13:47:50	"C" Gate Aerial	2	A	53	1	16-May-10	13:47:50	39658449	-76173476
54-144 (A1)	16-May-10	13:49:33	"C" Gate Aerial	2	A	104	1	16-May-10	13:49:33	39658449	-76173476
54-144 (A1)	16-May-10	13:49:40	"C" Gate Aerial	2	A	79	1	16-May-10	13:49:40	39658449	-76173476
54-144 (A1)	16-May-10	13:49:58	"C" Gate Aerial	2	A	73	1	16-May-10	13:49:58	39658449	-76173476
54-144 (A1)	16-May-10	13:50:56	"C" Gate Aerial	2	A	104	1	16-May-10	13:50:56	39658449	-76173476
54-144 (A1)	16-May-10	13:51:31	"C" Gate Aerial	2	A	105	1	16-May-10	13:51:31	39658449	-76173476
54-144 (A1)	16-May-10	13:51:38	"C" Gate Aerial	2	A	86	1	16-May-10	13:51:38	39658449	-76173476
54-144 (A1)	16-May-10	13:52:53	"C" Gate Aerial	2	A	114	1	16-May-10	13:52:53	39658449	-76173476
54-144 (A1)	16-May-10	13:53:11	"C" Gate Aerial	2	A	58	1	16-May-10	13:53:11	39658449	-76173476
54-144 (A1)	16-May-10	13:53:35	"C" Gate Aerial	2	A	116	1	16-May-10	13:53:35	39658449	-76173476
54-144 (A1)	16-May-10	13:54:11	"C" Gate Aerial	2	A	116	1	16-May-10	13:54:11	39658449	-76173476
54-144 (A1)	16-May-10	13:54:18	"C" Gate Aerial	2	A	75	1	16-May-10	13:54:18	39658449	-76173476
54-144 (A1)	16-May-10	13:54:30	"C" Gate Aerial	2	A	80	1	16-May-10	13:54:30	39658449	-76173476
54-144 (A1)	16-May-10	13:54:33	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	97	1	16-May-10	13:54:33	39657674	-76172621
54-144 (A1)	16-May-10	13:54:37	"C" Gate Aerial	2	A	150	1	16-May-10	13:54:37	39658449	-76173476
54-144 (A1)	16-May-10	13:54:44	"C" Gate Aerial	2	A	122	1	16-May-10	13:54:44	39658449	-76173476
54-144 (A1)	16-May-10	13:54:50	"C" Gate Aerial	2	A	169	1	16-May-10	13:54:50	39658449	-76173476
54-144 (A1)	16-May-10	13:54:57	"C" Gate Aerial	2	A	87	1	16-May-10	13:54:57	39658449	-76173476
54-144 (A1)	16-May-10	13:55:04	"C" Gate Aerial	2	A	120	1	16-May-10	13:55:04	39658449	-76173476
54-144 (A1)	16-May-10	13:55:16	"C" Gate Aerial	2	A	157	1	16-May-10	13:55:16	39658449	-76173476
54-144 (A1)	16-May-10	13:56:04	"C" Gate Aerial	2	A	92	1	16-May-10	13:56:04	39658449	-76173476
54-144 (A1)	16-May-10	13:56:29	"C" Gate Aerial	2	A	95	1	16-May-10	13:56:29	39658449	-76173476
54-144 (A1)	16-May-10	13:56:35	"C" Gate Aerial	2	A	75	1	16-May-10	13:56:35	39658449	-76173476
54-144 (A1)	16-May-10	13:56:48	"C" Gate Aerial	2	A	78	1	16-May-10	13:56:48	39658449	-76173476
54-144 (A1)	16-May-10	13:56:55	"C" Gate Aerial	2	A	77	1	16-May-10	13:56:55	39658449	-76173476
54-144 (A1)	16-May-10	13:57:48	"C" Gate Aerial	2	A	122	1	16-May-10	13:57:48	39658449	-76173476
54-144 (A1)	16-May-10	13:57:54	"C" Gate Aerial	2	A	65	1	16-May-10	13:57:54	39658449	-76173476
54-144 (A1)	16-May-10	13:58:12	"C" Gate Aerial	2	A	84	1	16-May-10	13:58:12	39658449	-76173476
54-144 (A1)	16-May-10	13:58:19	"C" Gate Aerial	2	A	98	1	16-May-10	13:58:19	39658449	-76173476
54-144 (A1)	16-May-10	13:58:26	"C" Gate Aerial	2	A	112	1	16-May-10	13:58:26	39658449	-76173476
54-144 (A1)	16-May-10	13:58:44	"C" Gate Aerial	2	A	60	1	16-May-10	13:58:44	39658449	-76173476
54-144 (A1)	16-May-10	13:59:36	"C" Gate Aerial	2	A	86	1	16-May-10	13:59:36	39658449	-76173476
54-144 (A1)	16-May-10	14:00:00	"C" Gate Aerial	2	A	91	1	16-May-10	14:00:00	39658449	-76173476
54-144 (A1)	16-May-10	14:00:24	"C" Gate Aerial	2	A	106	1	16-May-10	14:00:24	39658449	-76173476



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	16-May-10	14:01:11	"C" Gate Aerial	2	A	86	1	16-May-10	14:01:11	39658449	-76173476
54-144 (A1)	16-May-10	14:01:40	"C" Gate Aerial	2	A	113	1	16-May-10	14:01:40	39658449	-76173476
54-144 (A1)	16-May-10	14:02:27	"C" Gate Aerial	2	A	133	1	16-May-10	14:02:27	39658449	-76173476
54-144 (A1)	16-May-10	14:02:45	"C" Gate Aerial	2	A	118	1	16-May-10	14:02:45	39658449	-76173476
54-144 (A1)	16-May-10	14:02:57	"C" Gate Aerial	2	A	101	1	16-May-10	14:02:57	39658449	-76173476
54-144 (A1)	16-May-10	14:03:21	"C" Gate Aerial	2	A	152	1	16-May-10	14:03:21	39658449	-76173476
54-144 (A1)	16-May-10	14:03:50	"C" Gate Aerial	2	A	135	1	16-May-10	14:03:50	39658449	-76173476
54-144 (A1)	16-May-10	14:03:57	"C" Gate Aerial	2	A	115	1	16-May-10	14:03:57	39658449	-76173476
54-144 (A1)	16-May-10	14:04:04	"C" Gate Aerial	2	A	148	1	16-May-10	14:04:04	39658449	-76173476
54-144 (A1)	16-May-10	14:04:10	"C" Gate Aerial	2	A	120	1	16-May-10	14:04:10	39658449	-76173476
54-144 (A1)	16-May-10	14:04:17	"C" Gate Aerial	2	A	166	1	16-May-10	14:04:17	39658449	-76173476
54-144 (A1)	16-May-10	14:04:24	"C" Gate Aerial	2	A	57	1	16-May-10	14:04:24	39658449	-76173476
54-144 (A1)	16-May-10	14:05:05	"C" Gate Aerial	2	A	135	1	16-May-10	14:05:05	39658449	-76173476
54-144 (A1)	16-May-10	14:05:12	"C" Gate Aerial	2	A	165	1	16-May-10	14:05:12	39658449	-76173476
54-144 (A1)	16-May-10	14:05:19	"C" Gate Aerial	2	A	137	1	16-May-10	14:05:19	39658449	-76173476
54-144 (A1)	16-May-10	14:06:31	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	103	1	16-May-10	14:06:31	39657674	-76172621
54-144 (A1)	16-May-10	14:15:36	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	111	2	16-May-10	14:16:32	39657308	-76172818
54-144 (A1)	16-May-10	14:29:36	"C" Gate Aerial	2	A	155	1	16-May-10	14:29:36	39658449	-76173476
54-144 (A1)	16-May-10	14:29:43	"C" Gate Aerial	2	A	158	1	16-May-10	14:29:43	39658449	-76173476
54-144 (A1)	16-May-10	14:29:50	"C" Gate Aerial	2	A	64	1	16-May-10	14:29:50	39658449	-76173476
54-144 (A1)	16-May-10	14:29:57	"C" Gate Aerial	2	A	136	1	16-May-10	14:29:57	39658449	-76173476
54-144 (A1)	16-May-10	14:30:03	"C" Gate Aerial	2	A	102	1	16-May-10	14:30:03	39658449	-76173476
54-144 (A1)	16-May-10	14:30:25	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	114	1	16-May-10	14:30:25	39657674	-76172621
54-144 (A1)	16-May-10	14:30:27	"C" Gate Aerial	2	A	135	1	16-May-10	14:30:27	39658449	-76173476
54-144 (A1)	16-May-10	14:30:45	"C" Gate Aerial	2	A	138	1	16-May-10	14:30:45	39658449	-76173476
54-144 (A1)	16-May-10	14:30:52	"C" Gate Aerial	2	A	128	1	16-May-10	14:30:52	39658449	-76173476
54-144 (A1)	16-May-10	14:31:11	"C" Gate Aerial	2	A	56	1	16-May-10	14:31:11	39658449	-76173476
54-144 (A1)	16-May-10	14:31:18	"C" Gate Aerial	2	A	62	1	16-May-10	14:31:18	39658449	-76173476
54-144 (A1)	16-May-10	14:31:24	"C" Gate Aerial	2	A	149	1	16-May-10	14:31:24	39658449	-76173476
54-144 (A1)	16-May-10	14:31:31	"C" Gate Aerial	2	A	105	1	16-May-10	14:31:31	39658449	-76173476
54-144 (A1)	16-May-10	14:31:44	"C" Gate Aerial	2	A	52	1	16-May-10	14:31:44	39658449	-76173476
54-144 (A1)	16-May-10	14:31:50	"C" Gate Aerial	2	A	63	1	16-May-10	14:31:50	39658449	-76173476
54-144 (A1)	16-May-10	14:31:57	"C" Gate Aerial	2	A	140	1	16-May-10	14:31:57	39658449	-76173476
54-144 (A1)	16-May-10	14:35:56	"C" Gate Aerial	2	A	110	1	16-May-10	14:35:56	39658449	-76173476
54-144 (A1)	16-May-10	14:36:03	"C" Gate Aerial	2	A	137	1	16-May-10	14:36:03	39658449	-76173476
54-144 (A1)	16-May-10	14:36:15	"C" Gate Aerial	2	A	65	1	16-May-10	14:36:15	39658449	-76173476
54-144 (A1)	16-May-10	14:36:50	"C" Gate Aerial	2	A	96	1	16-May-10	14:36:50	39658449	-76173476
54-144 (A1)	16-May-10	14:37:25	"C" Gate Aerial	2	A	118	1	16-May-10	14:37:25	39658449	-76173476
54-144 (A1)	16-May-10	14:37:38	"C" Gate Aerial	2	A	67	1	16-May-10	14:37:38	39658449	-76173476
54-144 (A1)	16-May-10	14:40:14	"C" Gate Aerial	2	A	78	1	16-May-10	14:40:14	39658449	-76173476
54-144 (A1)	16-May-10	14:41:11	"C" Gate Aerial	2	A	75	1	16-May-10	14:41:11	39658449	-76173476
54-144 (A1)	16-May-10	14:41:29	"C" Gate Aerial	2	A	65	1	16-May-10	14:41:29	39658449	-76173476
54-144 (A1)	16-May-10	14:41:47	"C" Gate Aerial	2	A	119	1	16-May-10	14:41:47	39658449	-76173476
54-144 (A1)	16-May-10	14:41:54	"C" Gate Aerial	2	A	134	1	16-May-10	14:41:54	39658449	-76173476
54-144 (A1)	16-May-10	14:42:01	"C" Gate Aerial	2	A	66	1	16-May-10	14:42:01	39658449	-76173476
54-144 (A1)	16-May-10	14:42:19	"C" Gate Aerial	2	A	80	1	16-May-10	14:42:19	39658449	-76173476
54-144 (A1)	16-May-10	14:42:26	"C" Gate Aerial	2	A	108	1	16-May-10	14:42:26	39658449	-76173476
54-144 (A1)	16-May-10	14:42:44	"C" Gate Aerial	2	A	90	1	16-May-10	14:42:44	39658449	-76173476
54-144 (A1)	16-May-10	14:43:19	"C" Gate Aerial	2	A	127	1	16-May-10	14:43:19	39658449	-76173476
54-144 (A1)	16-May-10	14:43:32	"C" Gate Aerial	2	A	67	1	16-May-10	14:43:32	39658449	-76173476
54-144 (A1)	16-May-10	14:44:12	"C" Gate Aerial	2	A	80	1	16-May-10	14:44:12	39658449	-76173476
54-144 (A1)	16-May-10	14:46:08	"C" Gate Aerial	2	A	78	1	16-May-10	14:46:08	39658449	-76173476
54-144 (A1)	16-May-10	14:46:20	"C" Gate Aerial	2	A	119	1	16-May-10	14:46:20	39658449	-76173476
54-144 (A1)	16-May-10	14:46:27	"C" Gate Aerial	2	A	147	1	16-May-10	14:46:27	39658449	-76173476
54-144 (A1)	16-May-10	14:46:51	"C" Gate Aerial	2	A	81	1	16-May-10	14:46:51	39658449	-76173476
54-144 (A1)	16-May-10	14:47:09	"C" Gate Aerial	2	A	83	1	16-May-10	14:47:09	39658449	-76173476
54-144 (A1)	16-May-10	14:47:27	"C" Gate Aerial	2	A	113	1	16-May-10	14:47:27	39658449	-76173476
54-144 (A1)	16-May-10	14:47:39	"C" Gate Aerial	2	A	112	1	16-May-10	14:47:39	39658449	-76173476
54-144 (A1)	16-May-10	14:48:03	"C" Gate Aerial	2	A	113	1	16-May-10	14:48:03	39658449	-76173476
54-144 (A1)	16-May-10	14:48:10	"C" Gate Aerial	2	A	80	1	16-May-10	14:48:10	39658449	-76173476
54-144 (A1)	16-May-10	14:48:17	"C" Gate Aerial	2	A	123	1	16-May-10	14:48:17	39658449	-76173476
54-144 (A1)	16-May-10	14:48:23	"C" Gate Aerial	2	A	129	1	16-May-10	14:48:23	39658449	-76173476
54-144 (A1)	16-May-10	14:48:30	"C" Gate Aerial	2	A	126	1	16-May-10	14:48:30	39658449	-76173476
54-144 (A1)	16-May-10	14:48:43	"C" Gate Aerial	2	A	64	1	16-May-10	14:48:43	39658449	-76173476
54-144 (A1)	16-May-10	14:48:55	"C" Gate Aerial	2	A	131	1	16-May-10	14:48:55	39658449	-76173476

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	16-May-10	14:49:14	"C" Gate Aerial	2	A	83	1	16-May-10	14:49:14	39658449	-76173476
54-144 (A1)	16-May-10	14:49:26	"C" Gate Aerial	2	A	50	1	16-May-10	14:49:26	39658449	-76173476
54-144 (A1)	16-May-10	14:49:33	"C" Gate Aerial	2	A	82	1	16-May-10	14:49:33	39658449	-76173476
54-144 (A1)	16-May-10	14:49:40	"C" Gate Aerial	2	A	111	1	16-May-10	14:49:40	39658449	-76173476
54-144 (A1)	16-May-10	14:49:52	"C" Gate Aerial	2	A	89	1	16-May-10	14:49:52	39658449	-76173476
54-144 (A1)	16-May-10	14:50:05	"C" Gate Aerial	2	A	98	1	16-May-10	14:50:05	39658449	-76173476
54-144 (A1)	16-May-10	14:50:18	"C" Gate Aerial	2	A	145	1	16-May-10	14:50:18	39658449	-76173476
54-144 (A1)	16-May-10	14:50:53	"C" Gate Aerial	2	A	139	1	16-May-10	14:50:53	39658449	-76173476
54-144 (A1)	16-May-10	14:51:05	"C" Gate Aerial	2	A	76	1	16-May-10	14:51:05	39658449	-76173476
54-144 (A1)	16-May-10	14:51:12	"C" Gate Aerial	2	A	86	1	16-May-10	14:51:12	39658449	-76173476
54-144 (A1)	16-May-10	14:51:19	"C" Gate Aerial	2	A	80	1	16-May-10	14:51:19	39658449	-76173476
54-144 (A1)	16-May-10	14:51:54	"C" Gate Aerial	2	A	80	1	16-May-10	14:51:54	39658449	-76173476
54-144 (A1)	16-May-10	14:54:28	"C" Gate Aerial	2	A	80	1	16-May-10	14:54:28	39658449	-76173476
54-144 (A1)	16-May-10	14:54:40	"C" Gate Aerial	2	A	105	1	16-May-10	14:54:40	39658449	-76173476
54-144 (A1)	16-May-10	14:55:13	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	87	1	16-May-10	14:55:13	39657674	-76172621
54-144 (A1)	16-May-10	14:55:15	"C" Gate Aerial	2	A	106	1	16-May-10	14:55:15	39658449	-76173476
54-144 (A1)	16-May-10	14:55:22	"C" Gate Aerial	2	A	139	1	16-May-10	14:55:22	39658449	-76173476
54-144 (A1)	16-May-10	14:55:29	"C" Gate Aerial	2	A	125	1	16-May-10	14:55:29	39658449	-76173476
54-144 (A1)	16-May-10	14:55:41	"C" Gate Aerial	2	A	116	1	16-May-10	14:55:41	39658449	-76173476
54-144 (A1)	16-May-10	14:56:00	"C" Gate Aerial	2	A	72	1	16-May-10	14:56:00	39658449	-76173476
54-144 (A1)	16-May-10	14:56:12	"C" Gate Aerial	2	A	63	1	16-May-10	14:56:12	39658449	-76173476
54-144 (A1)	16-May-10	14:56:19	"C" Gate Aerial	2	A	155	1	16-May-10	14:56:19	39658449	-76173476
54-144 (A1)	16-May-10	14:56:25	"C" Gate Aerial	2	A	139	1	16-May-10	14:56:25	39658449	-76173476
54-144 (A1)	16-May-10	14:56:38	"C" Gate Aerial	2	A	140	1	16-May-10	14:56:38	39658449	-76173476
54-144 (A1)	16-May-10	14:56:45	"C" Gate Aerial	2	A	113	1	16-May-10	14:56:45	39658449	-76173476
54-144 (A1)	16-May-10	14:56:51	"C" Gate Aerial	2	A	124	1	16-May-10	14:56:51	39658449	-76173476
54-144 (A1)	16-May-10	14:56:58	"C" Gate Aerial	2	A	152	1	16-May-10	14:56:58	39658449	-76173476
54-144 (A1)	16-May-10	14:57:05	"C" Gate Aerial	2	A	163	1	16-May-10	14:57:05	39658449	-76173476
54-144 (A1)	16-May-10	14:57:12	"C" Gate Aerial	2	A	148	1	16-May-10	14:57:12	39658449	-76173476
54-144 (A1)	16-May-10	14:57:19	"C" Gate Aerial	2	A	164	1	16-May-10	14:57:19	39658449	-76173476
54-144 (A1)	16-May-10	14:57:25	"C" Gate Aerial	2	A	65	1	16-May-10	14:57:25	39658449	-76173476
54-144 (A1)	16-May-10	14:57:32	"C" Gate Aerial	2	A	96	1	16-May-10	14:57:32	39658449	-76173476
54-144 (A1)	16-May-10	14:58:19	"C" Gate Aerial	2	A	70	1	16-May-10	14:58:19	39658449	-76173476
54-144 (A1)	16-May-10	15:00:46	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	130	1	16-May-10	15:00:46	39657674	-76172621
54-144 (A1)	16-May-10	15:02:25	"C" Gate Aerial	2	A	60	1	16-May-10	15:02:25	39658449	-76173476
54-144 (A1)	16-May-10	15:06:15	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	92	1	16-May-10	15:06:15	39657480	-76172724
54-144 (A1)	16-May-10	15:11:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	80	1	16-May-10	15:11:00	39657186	-76172854
54-144 (A1)	16-May-10	15:24:21	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	89	1	16-May-10	15:24:21	39656845	-76173035
54-144 (A1)	16-May-10	15:25:19	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	103	2	16-May-10	15:28:19	39656488	-76173233
54-144 (A1)	16-May-10	15:35:51	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	89	3	16-May-10	15:39:44	39656845	-76173035
54-144 (A1)	16-May-10	15:36:45	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	180	1	16-May-10	15:36:45	39656488	-76173233
54-144 (A1)	16-May-10	15:40:41	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	124	3	16-May-10	15:44:32	39656845	-76173035
54-144 (A1)	16-May-10	15:43:29	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	87	2	16-May-10	15:44:28	39656488	-76173233
54-144 (A1)	16-May-10	15:45:22	Conowingo Tailrace Units 1-7 Master	17	A	96	1	16-May-10	15:45:22		
54-144 (A1)	16-May-10	15:45:25	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	130	2	16-May-10	15:48:16	39656015	-76173489
54-144 (A1)	16-May-10	15:45:29	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	131	4	16-May-10	15:50:12	39656488	-76173233
54-144 (A1)	16-May-10	15:53:56	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	83	1	16-May-10	15:53:56	39656488	-76173233
54-144 (A1)	17-May-10	5:58:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	98	1	17-May-10	5:58:23	39656488	-76173233
54-144 (A1)	17-May-10	5:59:26	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	119	1	17-May-10	5:59:26	39656845	-76173035
54-144 (A1)	17-May-10	6:09:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	61	2	17-May-10	6:11:27	39656488	-76173233
54-144 (A1)	17-May-10	6:12:27	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	97	1	17-May-10	6:12:27	39656015	-76173489
54-144 (A1)	17-May-10	6:13:27	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	136	3	17-May-10	6:15:25	39656015	-76173489
54-144 (A1)	17-May-10	6:16:25	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	119	1	17-May-10	6:16:25	39656488	-76173233
54-144 (A1)	17-May-10	6:17:19	Conowingo Tailrace Units 1-7 Master	17	A	131	1	17-May-10	6:17:19		
54-144 (A1)	17-May-10	6:17:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	166	1	17-May-10	6:17:28	39656845	-76173035
54-144 (A1)	17-May-10	6:17:32	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	102	1	17-May-10	6:17:32	39657186	-76172854
54-144 (A1)	17-May-10	6:18:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	106	4	17-May-10	6:21:22	39656488	-76173233
54-144 (A1)	17-May-10	6:18:27	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	165	2	17-May-10	6:19:26	39656845	-76173035
54-144 (A1)	17-May-10	6:18:30	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	80	1	17-May-10	6:18:30	39657186	-76172854
54-144 (A1)	17-May-10	6:19:19	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	81	1	17-May-10	6:19:19	39656015	-76173489
54-144 (A1)	17-May-10	6:23:26	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	93	2	17-May-10	6:24:31	39656845	-76173035
54-144 (A1)	17-May-10	6:27:31	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	112	1	17-May-10	6:27:31	39656488	-76173233
54-144 (A1)	17-May-10	6:28:36	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	87	1	17-May-10	6:28:36	39656845	-76173035
54-144 (A1)	17-May-10	6:33:27	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	100	3	17-May-10	6:36:42	39656488	-76173233
54-144 (A1)	17-May-10	6:36:49	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	85	1	17-May-10	6:36:49	39656845	-76173035

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	17-May-10	6:41:08	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	66	1	17-May-10	6:41:08	39656845	-76173035
54-144 (A1)	17-May-10	9:21:11	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	79	1	17-May-10	9:21:11	39656845	-76173035
54-144 (A1)	17-May-10	9:32:31	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	80	1	17-May-10	9:32:31	39656488	-76173233
54-144 (A1)	17-May-10	9:34:36	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	92	2	17-May-10	9:37:35	39656488	-76173233
54-144 (A1)	17-May-10	9:37:31	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	105	1	17-May-10	9:37:31	39656015	-76173489
54-144 (A1)	17-May-10	9:42:27	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	131	1	17-May-10	9:42:27	39656488	-76173233
54-144 (A1)	17-May-10	9:42:31	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	147	1	17-May-10	9:42:31	39656845	-76173035
54-144 (A1)	17-May-10	9:52:29	Conowingo Tailrace Units 1-7 Master	17	A	90	1	17-May-10	9:52:29		
54-144 (A1)	17-May-10	9:53:35	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	139	1	17-May-10	9:53:35	39656015	-76173489
54-144 (A1)	17-May-10	9:55:34	Conowingo Tailrace Units 1-7 Master	17	A	96	2	17-May-10	9:57:48		
54-144 (A1)	17-May-10	10:00:09	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	117	1	17-May-10	10:00:09	39656488	-76173233
54-144 (A1)	17-May-10	10:00:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	164	1	17-May-10	10:00:13	39656845	-76173035
54-144 (A1)	17-May-10	10:07:37	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	84	1	17-May-10	10:07:37	39656488	-76173233
54-144 (A1)	17-May-10	10:23:05	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	100	2	17-May-10	10:24:02	39657308	-76172818
54-144 (A1)	17-May-10	10:26:55	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	87	2	17-May-10	10:27:52	39657480	-76172724
54-144 (A1)	17-May-10	10:41:52	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	100	2	17-May-10	10:42:47	39657480	-76172724
54-144 (A1)	17-May-10	10:44:43	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	119	3	17-May-10	10:48:28	39657674	-76172621
54-144 (A1)	17-May-10	10:50:53	"C" Gate Aerial	2	A	79	1	17-May-10	10:50:53	39658449	-76173476
54-144 (A1)	17-May-10	10:51:00	"C" Gate Aerial	2	A	96	1	17-May-10	10:51:00	39658449	-76173476
54-144 (A1)	17-May-10	10:51:07	"C" Gate Aerial	2	A	70	1	17-May-10	10:51:07	39658449	-76173476
54-144 (A1)	17-May-10	10:51:19	"C" Gate Aerial	2	A	78	1	17-May-10	10:51:19	39658449	-76173476
54-144 (A1)	17-May-10	10:51:26	"C" Gate Aerial	2	A	112	1	17-May-10	10:51:26	39658449	-76173476
54-144 (A1)	17-May-10	10:51:38	"C" Gate Aerial	2	A	105	1	17-May-10	10:51:38	39658449	-76173476
54-144 (A1)	17-May-10	10:52:02	"C" Gate Aerial	2	A	67	1	17-May-10	10:52:02	39658449	-76173476
54-144 (A1)	17-May-10	11:36:32	"C" Gate Aerial	2	A	72	1	17-May-10	11:36:32	39658449	-76173476
54-144 (A1)	17-May-10	11:39:21	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	64	1	17-May-10	11:39:21	39657674	-76172621
54-144 (A1)	17-May-10	11:39:22	"C" Gate Aerial	2	A	64	1	17-May-10	11:39:22	39658449	-76173476
54-144 (A1)	17-May-10	11:39:57	"C" Gate Aerial	2	A	61	1	17-May-10	11:39:57	39658449	-76173476
54-144 (A1)	17-May-10	11:42:33	"C" Gate Aerial	2	A	92	1	17-May-10	11:42:33	39658449	-76173476
54-144 (A1)	17-May-10	11:45:48	"C" Gate Aerial	2	A	62	1	17-May-10	11:45:48	39658449	-76173476
54-144 (A1)	17-May-10	11:45:54	"C" Gate Aerial	2	A	105	1	17-May-10	11:45:54	39658449	-76173476
54-144 (A1)	17-May-10	11:46:12	"C" Gate Aerial	2	A	113	1	17-May-10	11:46:12	39658449	-76173476
54-144 (A1)	17-May-10	11:46:19	"C" Gate Aerial	2	A	63	1	17-May-10	11:46:19	39658449	-76173476
54-144 (A1)	17-May-10	11:46:26	"C" Gate Aerial	2	A	89	1	17-May-10	11:46:26	39658449	-76173476
54-144 (A1)	17-May-10	11:46:33	"C" Gate Aerial	2	A	142	1	17-May-10	11:46:33	39658449	-76173476
54-144 (A1)	17-May-10	11:46:40	"C" Gate Aerial	2	A	113	1	17-May-10	11:46:40	39658449	-76173476
54-144 (A1)	17-May-10	11:46:46	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	134	4	17-May-10	11:49:35	39657674	-76172621
54-144 (A1)	17-May-10	11:46:46	"C" Gate Aerial	2	A	142	1	17-May-10	11:46:46	39658449	-76173476
54-144 (A1)	17-May-10	11:46:53	"C" Gate Aerial	2	A	63	1	17-May-10	11:46:53	39658449	-76173476
54-144 (A1)	17-May-10	11:47:00	"C" Gate Aerial	2	A	60	1	17-May-10	11:47:00	39658449	-76173476
54-144 (A1)	17-May-10	11:47:24	"C" Gate Aerial	2	A	99	1	17-May-10	11:47:24	39658449	-76173476
54-144 (A1)	17-May-10	11:47:36	"C" Gate Aerial	2	A	152	1	17-May-10	11:47:36	39658449	-76173476
54-144 (A1)	17-May-10	11:47:43	"C" Gate Aerial	2	A	128	1	17-May-10	11:47:43	39658449	-76173476
54-144 (A1)	17-May-10	11:47:50	"C" Gate Aerial	2	A	144	1	17-May-10	11:47:50	39658449	-76173476
54-144 (A1)	17-May-10	11:47:56	"C" Gate Aerial	2	A	104	1	17-May-10	11:47:56	39658449	-76173476
54-144 (A1)	17-May-10	11:48:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	68	1	17-May-10	11:48:00	39657186	-76172854
54-144 (A1)	17-May-10	11:48:03	"C" Gate Aerial	2	A	94	1	17-May-10	11:48:03	39658449	-76173476
54-144 (A1)	17-May-10	11:48:10	"C" Gate Aerial	2	A	133	1	17-May-10	11:48:10	39658449	-76173476
54-144 (A1)	17-May-10	11:48:17	"C" Gate Aerial	2	A	141	1	17-May-10	11:48:17	39658449	-76173476
54-144 (A1)	17-May-10	11:48:29	"C" Gate Aerial	2	A	100	1	17-May-10	11:48:29	39658449	-76173476
54-144 (A1)	17-May-10	11:48:36	"C" Gate Aerial	2	A	108	1	17-May-10	11:48:36	39658449	-76173476
54-144 (A1)	17-May-10	11:48:43	"C" Gate Aerial	2	A	116	1	17-May-10	11:48:43	39658449	-76173476
54-144 (A1)	17-May-10	11:48:49	"C" Gate Aerial	2	A	92	1	17-May-10	11:48:49	39658449	-76173476
54-144 (A1)	17-May-10	11:48:56	"C" Gate Aerial	2	A	61	1	17-May-10	11:48:56	39658449	-76173476
54-144 (A1)	17-May-10	11:49:09	"C" Gate Aerial	2	A	145	1	17-May-10	11:49:09	39658449	-76173476
54-144 (A1)	17-May-10	11:49:32	"C" Gate Aerial	2	A	113	1	17-May-10	11:49:32	39658449	-76173476
54-144 (A1)	17-May-10	11:49:39	"C" Gate Aerial	2	A	104	1	17-May-10	11:49:39	39658449	-76173476
54-144 (A1)	17-May-10	11:49:46	"C" Gate Aerial	2	A	152	1	17-May-10	11:49:46	39658449	-76173476
54-144 (A1)	17-May-10	11:49:53	"C" Gate Aerial	2	A	151	1	17-May-10	11:49:53	39658449	-76173476
54-144 (A1)	17-May-10	11:50:00	"C" Gate Aerial	2	A	112	1	17-May-10	11:50:00	39658449	-76173476
54-144 (A1)	17-May-10	11:50:06	"C" Gate Aerial	2	A	118	1	17-May-10	11:50:06	39658449	-76173476
54-144 (A1)	17-May-10	11:50:14	"C" Gate Aerial	2	A	133	1	17-May-10	11:50:14	39658449	-76173476
54-144 (A1)	17-May-10	11:50:36	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	81	1	17-May-10	11:50:36	39657480	-76172724
54-144 (A1)	17-May-10	11:50:44	"C" Gate Aerial	2	A	78	1	17-May-10	11:50:44	39658449	-76173476
54-144 (A1)	17-May-10	11:50:57	"C" Gate Aerial	2	A	73	1	17-May-10	11:50:57	39658449	-76173476

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	17-May-10	11:51:19	"C" Gate Aerial	2	A	155	1	17-May-10	11:51:19	39658449	-76173476
54-144 (A1)	17-May-10	11:51:27	"C" Gate Aerial	2	A	140	1	17-May-10	11:51:27	39658449	-76173476
54-144 (A1)	17-May-10	11:51:42	"C" Gate Aerial	2	A	158	1	17-May-10	11:51:42	39658449	-76173476
54-144 (A1)	17-May-10	11:51:49	"C" Gate Aerial	2	A	152	1	17-May-10	11:51:49	39658449	-76173476
54-144 (A1)	17-May-10	11:51:57	"C" Gate Aerial	2	A	146	1	17-May-10	11:51:57	39658449	-76173476
54-144 (A1)	17-May-10	11:52:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	65	1	17-May-10	11:52:20	39657186	-76172854
54-144 (A1)	17-May-10	11:52:26	"C" Gate Aerial	2	A	165	1	17-May-10	11:52:26	39658449	-76173476
54-144 (A1)	17-May-10	11:52:32	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	136	2	17-May-10	11:53:28	39657674	-76172621
54-144 (A1)	17-May-10	11:52:33	"C" Gate Aerial	2	A	164	1	17-May-10	11:52:33	39658449	-76173476
54-144 (A1)	17-May-10	11:52:39	"C" Gate Aerial	2	A	138	1	17-May-10	11:52:39	39658449	-76173476
54-144 (A1)	17-May-10	11:52:46	"C" Gate Aerial	2	A	138	1	17-May-10	11:52:46	39658449	-76173476
54-144 (A1)	17-May-10	11:52:53	"C" Gate Aerial	2	A	81	1	17-May-10	11:52:53	39658449	-76173476
54-144 (A1)	17-May-10	11:53:00	"C" Gate Aerial	2	A	152	1	17-May-10	11:53:00	39658449	-76173476
54-144 (A1)	17-May-10	11:53:06	"C" Gate Aerial	2	A	138	1	17-May-10	11:53:06	39658449	-76173476
54-144 (A1)	17-May-10	11:53:13	"C" Gate Aerial	2	A	167	1	17-May-10	11:53:13	39658449	-76173476
54-144 (A1)	17-May-10	11:53:20	"C" Gate Aerial	2	A	164	1	17-May-10	11:53:20	39658449	-76173476
54-144 (A1)	17-May-10	11:53:27	"C" Gate Aerial	2	A	85	1	17-May-10	11:53:27	39658449	-76173476
54-144 (A1)	17-May-10	11:53:34	"C" Gate Aerial	2	A	142	1	17-May-10	11:53:34	39658449	-76173476
54-144 (A1)	17-May-10	11:53:40	"C" Gate Aerial	2	A	149	1	17-May-10	11:53:40	39658449	-76173476
54-144 (A1)	17-May-10	11:53:47	"C" Gate Aerial	2	A	91	1	17-May-10	11:53:47	39658449	-76173476
54-144 (A1)	17-May-10	11:53:54	"C" Gate Aerial	2	A	152	1	17-May-10	11:53:54	39658449	-76173476
54-144 (A1)	17-May-10	11:54:01	"C" Gate Aerial	2	A	151	1	17-May-10	11:54:01	39658449	-76173476
54-144 (A1)	17-May-10	11:54:07	"C" Gate Aerial	2	A	123	1	17-May-10	11:54:07	39658449	-76173476
54-144 (A1)	17-May-10	11:54:14	"C" Gate Aerial	2	A	128	1	17-May-10	11:54:14	39658449	-76173476
54-144 (A1)	17-May-10	11:54:21	"C" Gate Aerial	2	A	147	1	17-May-10	11:54:21	39658449	-76173476
54-144 (A1)	17-May-10	11:54:33	"C" Gate Aerial	2	A	152	1	17-May-10	11:54:33	39658449	-76173476
54-144 (A1)	17-May-10	11:54:40	"C" Gate Aerial	2	A	156	1	17-May-10	11:54:40	39658449	-76173476
54-144 (A1)	17-May-10	11:54:47	"C" Gate Aerial	2	A	154	1	17-May-10	11:54:47	39658449	-76173476
54-144 (A1)	17-May-10	11:54:54	"C" Gate Aerial	2	A	95	1	17-May-10	11:54:54	39658449	-76173476
54-144 (A1)	17-May-10	11:55:00	"C" Gate Aerial	2	A	97	1	17-May-10	11:55:00	39658449	-76173476
54-144 (A1)	17-May-10	11:55:07	"C" Gate Aerial	2	A	151	1	17-May-10	11:55:07	39658449	-76173476
54-144 (A1)	17-May-10	11:55:14	"C" Gate Aerial	2	A	106	1	17-May-10	11:55:14	39658449	-76173476
54-144 (A1)	17-May-10	11:55:21	"C" Gate Aerial	2	A	153	1	17-May-10	11:55:21	39658449	-76173476
54-144 (A1)	17-May-10	11:55:28	"C" Gate Aerial	2	A	90	1	17-May-10	11:55:28	39658449	-76173476
54-144 (A1)	17-May-10	11:55:34	"C" Gate Aerial	2	A	168	1	17-May-10	11:55:34	39658449	-76173476
54-144 (A1)	17-May-10	11:55:41	"C" Gate Aerial	2	A	145	1	17-May-10	11:55:41	39658449	-76173476
54-144 (A1)	17-May-10	11:56:00	"C" Gate Aerial	2	A	82	1	17-May-10	11:56:00	39658449	-76173476
54-144 (A1)	17-May-10	11:56:06	"C" Gate Aerial	2	A	90	1	17-May-10	11:56:06	39658449	-76173476
54-144 (A1)	17-May-10	11:56:19	"C" Gate Aerial	2	A	67	1	17-May-10	11:56:19	39658449	-76173476
54-144 (A1)	17-May-10	11:56:25	"C" Gate Aerial	2	A	75	1	17-May-10	11:56:25	39658449	-76173476
54-144 (A1)	17-May-10	11:56:32	"C" Gate Aerial	2	A	155	1	17-May-10	11:56:32	39658449	-76173476
54-144 (A1)	17-May-10	11:56:39	"C" Gate Aerial	2	A	149	1	17-May-10	11:56:39	39658449	-76173476
54-144 (A1)	17-May-10	11:56:51	"C" Gate Aerial	2	A	127	1	17-May-10	11:56:51	39658449	-76173476
54-144 (A1)	17-May-10	11:56:58	"C" Gate Aerial	2	A	168	1	17-May-10	11:56:58	39658449	-76173476
54-144 (A1)	17-May-10	11:57:05	"C" Gate Aerial	2	A	81	1	17-May-10	11:57:05	39658449	-76173476
54-144 (A1)	17-May-10	11:57:12	"C" Gate Aerial	2	A	119	1	17-May-10	11:57:12	39658449	-76173476
54-144 (A1)	17-May-10	11:57:19	"C" Gate Aerial	2	A	154	1	17-May-10	11:57:19	39658449	-76173476
54-144 (A1)	17-May-10	11:57:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	99	2	17-May-10	11:59:21	39657186	-76172854
54-144 (A1)	17-May-10	11:57:25	"C" Gate Aerial	2	A	73	1	17-May-10	11:57:25	39658449	-76173476
54-144 (A1)	17-May-10	11:57:32	"C" Gate Aerial	2	A	152	1	17-May-10	11:57:32	39658449	-76173476
54-144 (A1)	17-May-10	11:57:39	"C" Gate Aerial	2	A	104	1	17-May-10	11:57:39	39658449	-76173476
54-144 (A1)	17-May-10	11:57:46	"C" Gate Aerial	2	A	150	1	17-May-10	11:57:46	39658449	-76173476
54-144 (A1)	17-May-10	11:57:53	"C" Gate Aerial	2	A	119	1	17-May-10	11:57:53	39658449	-76173476
54-144 (A1)	17-May-10	11:58:00	"C" Gate Aerial	2	A	120	1	17-May-10	11:58:00	39658449	-76173476
54-144 (A1)	17-May-10	11:58:12	"C" Gate Aerial	2	A	112	1	17-May-10	11:58:12	39658449	-76173476
54-144 (A1)	17-May-10	11:58:19	"C" Gate Aerial	2	A	119	1	17-May-10	11:58:19	39658449	-76173476
54-144 (A1)	17-May-10	11:58:25	"C" Gate Aerial	2	A	106	1	17-May-10	11:58:25	39658449	-76173476
54-144 (A1)	17-May-10	11:58:32	"C" Gate Aerial	2	A	161	1	17-May-10	11:58:32	39658449	-76173476
54-144 (A1)	17-May-10	11:58:39	"C" Gate Aerial	2	A	165	1	17-May-10	11:58:39	39658449	-76173476
54-144 (A1)	17-May-10	11:58:46	"C" Gate Aerial	2	A	139	1	17-May-10	11:58:46	39658449	-76173476
54-144 (A1)	17-May-10	11:58:58	"C" Gate Aerial	2	A	134	1	17-May-10	11:58:58	39658449	-76173476
54-144 (A1)	17-May-10	11:59:05	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	153	1	17-May-10	11:59:05	39657674	-76172621
54-144 (A1)	17-May-10	11:59:05	"C" Gate Aerial	2	A	117	1	17-May-10	11:59:05	39658449	-76173476
54-144 (A1)	17-May-10	11:59:12	"C" Gate Aerial	2	A	100	1	17-May-10	11:59:12	39658449	-76173476
54-144 (A1)	17-May-10	11:59:19	"C" Gate Aerial	2	A	133	1	17-May-10	11:59:19	39658449	-76173476



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	17-May-10	11:59:37	"C" Gate Aerial	2	A	103	1	17-May-10	11:59:37	39658449	-76173476
54-144 (A1)	17-May-10	12:02:45	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	89	1	17-May-10	12:02:45	39657308	-76172818
54-144 (A1)	17-May-10	12:02:48	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	92	1	17-May-10	12:02:48	39657480	-76172724
54-144 (A1)	17-May-10	12:02:50	"C" Gate Aerial	2	A	89	1	17-May-10	12:02:50	39658449	-76173476
54-144 (A1)	17-May-10	12:02:52	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	129	2	17-May-10	12:03:51	39657674	-76172621
54-144 (A1)	17-May-10	12:02:57	"C" Gate Aerial	2	A	83	1	17-May-10	12:02:57	39658449	-76173476
54-144 (A1)	17-May-10	12:03:04	"C" Gate Aerial	2	A	135	1	17-May-10	12:03:04	39658449	-76173476
54-144 (A1)	17-May-10	12:03:06	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	85	1	17-May-10	12:03:06	39657186	-76172854
54-144 (A1)	17-May-10	12:03:16	"C" Gate Aerial	2	A	114	1	17-May-10	12:03:16	39658449	-76173476
54-144 (A1)	17-May-10	12:03:29	"C" Gate Aerial	2	A	120	1	17-May-10	12:03:29	39658449	-76173476
54-144 (A1)	17-May-10	12:03:41	"C" Gate Aerial	2	A	104	1	17-May-10	12:03:41	39658449	-76173476
54-144 (A1)	17-May-10	12:03:53	"C" Gate Aerial	2	A	148	1	17-May-10	12:03:53	39658449	-76173476
54-144 (A1)	17-May-10	12:04:00	"C" Gate Aerial	2	A	119	1	17-May-10	12:04:00	39658449	-76173476
54-144 (A1)	17-May-10	12:04:07	"C" Gate Aerial	2	A	134	1	17-May-10	12:04:07	39658449	-76173476
54-144 (A1)	17-May-10	12:04:19	"C" Gate Aerial	2	A	123	1	17-May-10	12:04:19	39658449	-76173476
54-144 (A1)	17-May-10	12:04:32	"C" Gate Aerial	2	A	163	1	17-May-10	12:04:32	39658449	-76173476
54-144 (A1)	17-May-10	12:04:39	"C" Gate Aerial	2	A	96	1	17-May-10	12:04:39	39658449	-76173476
54-144 (A1)	17-May-10	12:04:51	"C" Gate Aerial	2	A	163	1	17-May-10	12:04:51	39658449	-76173476
54-144 (A1)	17-May-10	12:04:58	"C" Gate Aerial	2	A	165	1	17-May-10	12:04:58	39658449	-76173476
54-144 (A1)	17-May-10	12:05:11	"C" Gate Aerial	2	A	167	1	17-May-10	12:05:11	39658449	-76173476
54-144 (A1)	17-May-10	12:05:18	"C" Gate Aerial	2	A	131	1	17-May-10	12:05:18	39658449	-76173476
54-144 (A1)	17-May-10	12:05:24	"C" Gate Aerial	2	A	66	1	17-May-10	12:05:24	39658449	-76173476
54-144 (A1)	17-May-10	12:05:37	"C" Gate Aerial	2	A	63	1	17-May-10	12:05:37	39658449	-76173476
54-144 (A1)	17-May-10	12:05:44	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	100	3	17-May-10	12:08:34	39657674	-76172621
54-144 (A1)	17-May-10	12:05:44	"C" Gate Aerial	2	A	114	1	17-May-10	12:05:44	39658449	-76173476
54-144 (A1)	17-May-10	12:05:51	"C" Gate Aerial	2	A	137	1	17-May-10	12:05:51	39658449	-76173476
54-144 (A1)	17-May-10	12:06:00	"C" Gate Aerial	2	A	139	1	17-May-10	12:06:00	39658449	-76173476
54-144 (A1)	17-May-10	12:06:07	"C" Gate Aerial	2	A	131	1	17-May-10	12:06:07	39658449	-76173476
54-144 (A1)	17-May-10	12:06:30	"C" Gate Aerial	2	A	78	1	17-May-10	12:06:30	39658449	-76173476
54-144 (A1)	17-May-10	12:06:37	"C" Gate Aerial	2	A	144	1	17-May-10	12:06:37	39658449	-76173476
54-144 (A1)	17-May-10	12:06:43	"C" Gate Aerial	2	A	112	1	17-May-10	12:06:43	39658449	-76173476
54-144 (A1)	17-May-10	12:06:50	"C" Gate Aerial	2	A	148	1	17-May-10	12:06:50	39658449	-76173476
54-144 (A1)	17-May-10	12:06:57	"C" Gate Aerial	2	A	154	1	17-May-10	12:06:57	39658449	-76173476
54-144 (A1)	17-May-10	12:07:04	"C" Gate Aerial	2	A	147	1	17-May-10	12:07:04	39658449	-76173476
54-144 (A1)	17-May-10	12:07:16	"C" Gate Aerial	2	A	120	1	17-May-10	12:07:16	39658449	-76173476
54-144 (A1)	17-May-10	12:07:23	"C" Gate Aerial	2	A	128	1	17-May-10	12:07:23	39658449	-76173476
54-144 (A1)	17-May-10	12:07:30	"C" Gate Aerial	2	A	97	1	17-May-10	12:07:30	39658449	-76173476
54-144 (A1)	17-May-10	12:07:36	"C" Gate Aerial	2	A	143	1	17-May-10	12:07:36	39658449	-76173476
54-144 (A1)	17-May-10	12:07:43	"C" Gate Aerial	2	A	73	1	17-May-10	12:07:43	39658449	-76173476
54-144 (A1)	17-May-10	12:07:50	"C" Gate Aerial	2	A	80	1	17-May-10	12:07:50	39658449	-76173476
54-144 (A1)	17-May-10	12:07:57	"C" Gate Aerial	2	A	59	1	17-May-10	12:07:57	39658449	-76173476
54-144 (A1)	17-May-10	12:08:09	"C" Gate Aerial	2	A	152	1	17-May-10	12:08:09	39658449	-76173476
54-144 (A1)	17-May-10	12:08:16	"C" Gate Aerial	2	A	155	1	17-May-10	12:08:16	39658449	-76173476
54-144 (A1)	17-May-10	12:08:34	"C" Gate Aerial	2	A	126	1	17-May-10	12:08:34	39658449	-76173476
54-144 (A1)	17-May-10	12:08:41	"C" Gate Aerial	2	A	149	1	17-May-10	12:08:41	39658449	-76173476
54-144 (A1)	17-May-10	12:08:47	"C" Gate Aerial	2	A	152	1	17-May-10	12:08:47	39658449	-76173476
54-144 (A1)	17-May-10	12:08:54	"C" Gate Aerial	2	A	171	1	17-May-10	12:08:54	39658449	-76173476
54-144 (A1)	17-May-10	12:09:01	"C" Gate Aerial	2	A	124	1	17-May-10	12:09:01	39658449	-76173476
54-144 (A1)	17-May-10	12:09:08	"C" Gate Aerial	2	A	156	1	17-May-10	12:09:08	39658449	-76173476
54-144 (A1)	17-May-10	12:09:10	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	90	1	17-May-10	12:09:10	39657186	-76172854
54-144 (A1)	17-May-10	12:09:15	"C" Gate Aerial	2	A	148	1	17-May-10	12:09:15	39658449	-76173476
54-144 (A1)	17-May-10	12:09:21	"C" Gate Aerial	2	A	163	1	17-May-10	12:09:21	39658449	-76173476
54-144 (A1)	17-May-10	12:09:34	"C" Gate Aerial	2	A	123	1	17-May-10	12:09:34	39658449	-76173476
54-144 (A1)	17-May-10	12:09:46	"C" Gate Aerial	2	A	147	1	17-May-10	12:09:46	39658449	-76173476
54-144 (A1)	17-May-10	12:09:53	"C" Gate Aerial	2	A	112	1	17-May-10	12:09:53	39658449	-76173476
54-144 (A1)	17-May-10	12:10:00	"C" Gate Aerial	2	A	135	1	17-May-10	12:10:00	39658449	-76173476
54-144 (A1)	17-May-10	12:10:06	"C" Gate Aerial	2	A	119	1	17-May-10	12:10:06	39658449	-76173476
54-144 (A1)	17-May-10	12:10:13	"C" Gate Aerial	2	A	148	1	17-May-10	12:10:13	39658449	-76173476
54-144 (A1)	17-May-10	12:10:20	"C" Gate Aerial	2	A	162	1	17-May-10	12:10:20	39658449	-76173476
54-144 (A1)	17-May-10	12:10:26	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	129	1	17-May-10	12:10:26	39657674	-76172621
54-144 (A1)	17-May-10	12:10:27	"C" Gate Aerial	2	A	170	1	17-May-10	12:10:27	39658449	-76173476
54-144 (A1)	17-May-10	12:10:33	"C" Gate Aerial	2	A	162	1	17-May-10	12:10:33	39658449	-76173476
54-144 (A1)	17-May-10	12:10:40	"C" Gate Aerial	2	A	112	1	17-May-10	12:10:40	39658449	-76173476
54-144 (A1)	17-May-10	12:10:47	"C" Gate Aerial	2	A	128	1	17-May-10	12:10:47	39658449	-76173476
54-144 (A1)	17-May-10	12:10:54	"C" Gate Aerial	2	A	156	1	17-May-10	12:10:54	39658449	-76173476



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	17-May-10	12:11:46	"C" Gate Aerial	2	A	156	1	17-May-10	12:11:46	39658449	-76173476
54-144 (A1)	17-May-10	12:11:58	"C" Gate Aerial	2	A	97	1	17-May-10	12:11:58	39658449	-76173476
54-144 (A1)	17-May-10	12:12:05	"C" Gate Aerial	2	A	101	1	17-May-10	12:12:05	39658449	-76173476
54-144 (A1)	17-May-10	12:12:12	"C" Gate Aerial	2	A	62	1	17-May-10	12:12:12	39658449	-76173476
54-144 (A1)	17-May-10	12:12:24	"C" Gate Aerial	2	A	84	1	17-May-10	12:12:24	39658449	-76173476
54-144 (A1)	17-May-10	12:12:31	"C" Gate Aerial	2	A	54	1	17-May-10	12:12:31	39658449	-76173476
54-144 (A1)	17-May-10	12:12:49	"C" Gate Aerial	2	A	153	1	17-May-10	12:12:49	39658449	-76173476
54-144 (A1)	17-May-10	12:12:56	"C" Gate Aerial	2	A	152	1	17-May-10	12:12:56	39658449	-76173476
54-144 (A1)	17-May-10	12:54:16	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	118	1	17-May-10	12:54:16	39657674	-76172621
54-144 (A1)	17-May-10	12:55:43	"C" Gate Aerial	2	A	55	1	17-May-10	12:55:43	39658449	-76173476
54-144 (A1)	17-May-10	12:56:01	"C" Gate Aerial	2	A	79	1	17-May-10	12:56:01	39658449	-76173476
54-144 (A1)	17-May-10	12:56:08	"C" Gate Aerial	2	A	60	1	17-May-10	12:56:08	39658449	-76173476
54-144 (A1)	17-May-10	12:56:09	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	98	2	17-May-10	12:57:05	39657674	-76172621
54-144 (A1)	17-May-10	12:57:03	"C" Gate Aerial	2	A	149	1	17-May-10	12:57:03	39658449	-76173476
54-144 (A1)	17-May-10	12:57:10	"C" Gate Aerial	2	A	149	1	17-May-10	12:57:10	39658449	-76173476
54-144 (A1)	17-May-10	12:57:17	"C" Gate Aerial	2	A	112	1	17-May-10	12:57:17	39658449	-76173476
54-144 (A1)	17-May-10	12:57:24	"C" Gate Aerial	2	A	134	1	17-May-10	12:57:24	39658449	-76173476
54-144 (A1)	17-May-10	12:57:37	"C" Gate Aerial	2	A	80	1	17-May-10	12:57:37	39658449	-76173476
54-144 (A1)	17-May-10	12:57:44	"C" Gate Aerial	2	A	107	1	17-May-10	12:57:44	39658449	-76173476
54-144 (A1)	17-May-10	13:01:04	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	108	4	17-May-10	13:04:48	39657674	-76172621
54-144 (A1)	17-May-10	13:01:14	"C" Gate Aerial	2	A	106	1	17-May-10	13:01:14	39658449	-76173476
54-144 (A1)	17-May-10	13:01:22	"C" Gate Aerial	2	A	99	1	17-May-10	13:01:22	39658449	-76173476
54-144 (A1)	17-May-10	13:01:30	"C" Gate Aerial	2	A	137	1	17-May-10	13:01:30	39658449	-76173476
54-144 (A1)	17-May-10	13:01:44	"C" Gate Aerial	2	A	137	1	17-May-10	13:01:44	39658449	-76173476
54-144 (A1)	17-May-10	13:01:51	"C" Gate Aerial	2	A	152	1	17-May-10	13:01:51	39658449	-76173476
54-144 (A1)	17-May-10	13:02:11	"C" Gate Aerial	2	A	150	1	17-May-10	13:02:11	39658449	-76173476
54-144 (A1)	17-May-10	13:02:13	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	84	2	17-May-10	13:05:10	39657186	-76172854
54-144 (A1)	17-May-10	13:02:18	"C" Gate Aerial	2	A	119	1	17-May-10	13:02:18	39658449	-76173476
54-144 (A1)	17-May-10	13:02:25	"C" Gate Aerial	2	A	137	1	17-May-10	13:02:25	39658449	-76173476
54-144 (A1)	17-May-10	13:02:39	"C" Gate Aerial	2	A	165	1	17-May-10	13:02:39	39658449	-76173476
54-144 (A1)	17-May-10	13:02:52	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	78	1	17-May-10	13:02:52	39657480	-76172724
54-144 (A1)	17-May-10	13:02:53	"C" Gate Aerial	2	A	164	1	17-May-10	13:02:53	39658449	-76173476
54-144 (A1)	17-May-10	13:03:07	"C" Gate Aerial	2	A	136	1	17-May-10	13:03:07	39658449	-76173476
54-144 (A1)	17-May-10	13:03:15	"C" Gate Aerial	2	A	139	1	17-May-10	13:03:15	39658449	-76173476
54-144 (A1)	17-May-10	13:03:22	"C" Gate Aerial	2	A	122	1	17-May-10	13:03:22	39658449	-76173476
54-144 (A1)	17-May-10	13:03:29	"C" Gate Aerial	2	A	156	1	17-May-10	13:03:29	39658449	-76173476
54-144 (A1)	17-May-10	13:03:36	"C" Gate Aerial	2	A	149	1	17-May-10	13:03:36	39658449	-76173476
54-144 (A1)	17-May-10	13:03:50	"C" Gate Aerial	2	A	111	1	17-May-10	13:03:50	39658449	-76173476
54-144 (A1)	17-May-10	13:03:58	"C" Gate Aerial	2	A	156	1	17-May-10	13:03:58	39658449	-76173476
54-144 (A1)	17-May-10	13:04:05	"C" Gate Aerial	2	A	137	1	17-May-10	13:04:05	39658449	-76173476
54-144 (A1)	17-May-10	13:04:13	"C" Gate Aerial	2	A	140	1	17-May-10	13:04:13	39658449	-76173476
54-144 (A1)	17-May-10	13:04:20	"C" Gate Aerial	2	A	149	1	17-May-10	13:04:20	39658449	-76173476
54-144 (A1)	17-May-10	13:04:27	"C" Gate Aerial	2	A	116	1	17-May-10	13:04:27	39658449	-76173476
54-144 (A1)	17-May-10	13:04:39	"C" Gate Aerial	2	A	123	1	17-May-10	13:04:39	39658449	-76173476
54-144 (A1)	17-May-10	13:04:47	"C" Gate Aerial	2	A	131	1	17-May-10	13:04:47	39658449	-76173476
54-144 (A1)	17-May-10	13:04:54	"C" Gate Aerial	2	A	163	1	17-May-10	13:04:54	39658449	-76173476
54-144 (A1)	17-May-10	13:05:00	"C" Gate Aerial	2	A	147	1	17-May-10	13:05:00	39658449	-76173476
54-144 (A1)	17-May-10	13:05:07	"C" Gate Aerial	2	A	129	1	17-May-10	13:05:07	39658449	-76173476
54-144 (A1)	17-May-10	13:05:14	"C" Gate Aerial	2	A	147	1	17-May-10	13:05:14	39658449	-76173476
54-144 (A1)	17-May-10	13:05:21	"C" Gate Aerial	2	A	96	1	17-May-10	13:05:21	39658449	-76173476
54-144 (A1)	17-May-10	13:05:27	"C" Gate Aerial	2	A	152	1	17-May-10	13:05:27	39658449	-76173476
54-144 (A1)	17-May-10	13:05:34	"C" Gate Aerial	2	A	95	1	17-May-10	13:05:34	39658449	-76173476
54-144 (A1)	17-May-10	13:05:41	"C" Gate Aerial	2	A	158	1	17-May-10	13:05:41	39658449	-76173476
54-144 (A1)	17-May-10	13:05:48	"C" Gate Aerial	2	A	105	1	17-May-10	13:05:48	39658449	-76173476
54-144 (A1)	17-May-10	13:06:00	"C" Gate Aerial	2	A	69	1	17-May-10	13:06:00	39658449	-76173476
54-144 (A1)	17-May-10	13:06:07	"C" Gate Aerial	2	A	150	1	17-May-10	13:06:07	39658449	-76173476
54-144 (A1)	17-May-10	13:06:14	"C" Gate Aerial	2	A	149	1	17-May-10	13:06:14	39658449	-76173476
54-144 (A1)	17-May-10	13:06:21	"C" Gate Aerial	2	A	134	1	17-May-10	13:06:21	39658449	-76173476
54-144 (A1)	17-May-10	13:06:27	"C" Gate Aerial	2	A	140	1	17-May-10	13:06:27	39658449	-76173476
54-144 (A1)	17-May-10	13:06:34	"C" Gate Aerial	2	A	98	1	17-May-10	13:06:34	39658449	-76173476
54-144 (A1)	17-May-10	13:06:53	"C" Gate Aerial	2	A	120	1	17-May-10	13:06:53	39658449	-76173476
54-144 (A1)	17-May-10	13:07:02	"C" Gate Aerial	2	A	96	1	17-May-10	13:07:02	39658449	-76173476
54-144 (A1)	17-May-10	13:07:04	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	129	1	17-May-10	13:07:04	39657186	-76172854
54-144 (A1)	17-May-10	13:07:10	"C" Gate Aerial	2	A	116	1	17-May-10	13:07:10	39658449	-76173476
54-144 (A1)	17-May-10	13:07:18	"C" Gate Aerial	2	A	134	1	17-May-10	13:07:18	39658449	-76173476

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-144 (A1)	17-May-10	13:07:25	"C" Gate Aerial	2	A	171	1	17-May-10	13:07:25	39658449	-76173476
54-144 (A1)	17-May-10	13:07:33	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	61	1	17-May-10	13:07:33	39657674	-76172621
54-144 (A1)	17-May-10	13:07:38	"C" Gate Aerial	2	A	99	1	17-May-10	13:07:38	39658449	-76173476
54-144 (A1)	17-May-10	13:07:46	"C" Gate Aerial	2	A	77	1	17-May-10	13:07:46	39658449	-76173476
54-144 (A1)	17-May-10	13:08:00	"C" Gate Aerial	2	A	121	1	17-May-10	13:08:00	39658449	-76173476
54-144 (A1)	17-May-10	13:08:08	"C" Gate Aerial	2	A	80	1	17-May-10	13:08:08	39658449	-76173476
54-144 (A1)	17-May-10	14:43:04	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	67	1	17-May-10	14:43:04	39657308	-76172818
54-144 (A1)	17-May-10	14:53:27	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	80	1	17-May-10	14:53:27	39657480	-76172724
54-144 (A1)	17-May-10	14:57:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	98	2	17-May-10	14:58:08	39656845	-76173035
54-144 (A1)	17-May-10	14:59:02	Conowingo Tailrace Units 1-7 Master	17	A	131	1	17-May-10	14:59:02		
54-144 (A1)	17-May-10	14:59:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	59	1	17-May-10	14:59:16	39657186	-76172854
54-144 (A1)	17-May-10	14:59:50	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	119	2	17-May-10	15:01:42	39657308	-76172818
54-144 (A1)	17-May-10	15:03:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	106	1	17-May-10	15:03:06	39656845	-76173035
54-144 (A1)	17-May-10	15:23:02	Rowland Island West (Near-Field)	0	2	72	7	17-May-10	15:27:02	39652629	-76168481
54-144 (A1)	17-May-10	17:17:07	Spencer Island West (Near-Field)	8	1	80	1	17-May-10	17:17:07	39605974	-76130720

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-172 (A1)	07-May-10	9:28:00	Conowingo Tailrace					07-May-10	9:28:00	39656866	-76173871
54-172 (A1)	07-May-10	9:36:52	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	67	1	07-May-10	9:36:52	39657480	-76172724
54-172 (A1)	07-May-10	10:19:09	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	57	1	07-May-10	10:19:09	39657186	-76172854
54-172 (A1)	07-May-10	10:32:19	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	65	1	07-May-10	10:32:19	39656845	-76173035
54-172 (A1)	07-May-10	10:32:26	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	68	1	07-May-10	10:32:26	39657186	-76172854
54-172 (A1)	07-May-10	10:33:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	105	1	07-May-10	10:33:38	39656845	-76173035
54-172 (A1)	07-May-10	11:16:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	65	1	07-May-10	11:16:24	39656845	-76173035
54-172 (A1)	07-May-10	11:16:29	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	99	1	07-May-10	11:16:29	39657186	-76172854
54-172 (A1)	07-May-10	11:42:24	Rowland Island West (Near-Field)	1	A	78	2	07-May-10	11:43:17	39652629	-76168481
54-172 (A1)	07-May-10	11:44:01	Rowland Island West (Near-Field)	1	A	103	22	07-May-10	11:53:51	39652629	-76168481
54-172 (A1)	07-May-10	11:54:19	Rowland Island West (Near-Field)	1	A	106	15	07-May-10	12:03:42	39652629	-76168481
54-172 (A1)	07-May-10	12:04:10	Rowland Island West (Near-Field)	1	A	87	6	07-May-10	12:13:08	39652629	-76168481
54-172 (A1)	07-May-10	12:14:23	Rowland Island West (Near-Field)	1	A	82	10	07-May-10	12:23:48	39652629	-76168481
54-172 (A1)	07-May-10	12:24:22	Rowland Island West (Near-Field)	1	A	90	10	07-May-10	12:33:46	39652629	-76168481
54-172 (A1)	07-May-10	12:34:18	Rowland Island West (Near-Field)	1	A	118	4	07-May-10	12:35:39	39652629	-76168481
54-172 (A1)	07-May-10	13:21:06	Rowland Island West (Near-Field)	1	A	64	1	07-May-10	13:21:06	39652629	-76168481
54-172 (A1)	07-May-10	13:24:21	Rowland Island West (Near-Field)	1	A	69	3	07-May-10	13:31:06	39652629	-76168481
54-172 (A1)	07-May-10	13:42:43	Rowland Island West (Near-Field)	1	A	66	1	07-May-10	13:42:43	39652629	-76168481
54-172 (A1)	07-May-10	14:02:08	Rowland Island West (Near-Field)	1	A	85	1	07-May-10	14:02:08	39652629	-76168481
54-172 (A1)	07-May-10	14:39:26	Rowland Island East (Near-Field)	1	1	112	1	07-May-10	14:39:26	39654615	-76164570
54-172 (A1)	07-May-10	16:29:36	Conowingo Tailrace Units 1-7 Master	17	A	55	1	07-May-10	16:29:36		
54-172 (A1)	07-May-10	16:46:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	72	1	07-May-10	16:46:00	39657186	-76172854
54-172 (A1)	07-May-10	16:51:49	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	116	1	07-May-10	16:51:49	39656845	-76173035
54-172 (A1)	07-May-10	16:55:10	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	114	1	07-May-10	16:55:10	39656845	-76173035
54-172 (A1)	07-May-10	17:02:08	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	72	1	07-May-10	17:02:08	39656845	-76173035
54-172 (A1)	07-May-10	17:14:30	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	126	3	07-May-10	17:17:46	39656488	-76173233
54-172 (A1)	07-May-10	17:17:37	Conowingo Tailrace Units 1-7 Master	17	A	76	1	07-May-10	17:17:37		
54-172 (A1)	07-May-10	17:19:57	Conowingo Tailrace Units 1-7 Master	17	A	74	1	07-May-10	17:19:57		
54-172 (A1)	07-May-10	17:21:10	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	165	1	07-May-10	17:21:10	39656488	-76173233
54-172 (A1)	07-May-10	17:23:16	Conowingo Tailrace Units 1-7 Master	17	A	80	1	07-May-10	17:23:16		
54-172 (A1)	07-May-10	19:10:00	Conowingo Tailrace Units 1-7 Master	17	A	83	1	07-May-10	19:10:00		
54-172 (A1)	07-May-10	19:11:26	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	167	1	07-May-10	19:11:26	39656845	-76173035
54-172 (A1)	07-May-10	19:33:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	114	1	07-May-10	19:33:02	39656488	-76173233
54-172 (A1)	07-May-10	19:35:11	Conowingo Tailrace Units 1-7 Master	17	A	60	1	07-May-10	19:35:11		
54-172 (A1)	07-May-10	19:38:40	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	180	1	07-May-10	19:38:40	39656488	-76173233
54-172 (A1)	07-May-10	19:39:44	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	1	07-May-10	19:39:44	39656488	-76173233
54-172 (A1)	07-May-10	19:39:48	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	105	1	07-May-10	19:39:48	39656845	-76173035
54-172 (A1)	07-May-10	20:22:28	Rowland Island West (Near-Field)	1	A	55	2	07-May-10	20:24:58	39652629	-76168481
54-172 (A1)	07-May-10	20:29:33	Rowland Island West (Near-Field)	1	A	70	1	07-May-10	20:29:33	39652629	-76168481
54-172 (A1)	08-May-10	10:36:26	Spencer Island West (Near-Field)	8	1	88	2	08-May-10	10:37:16	39605974	-76130720
54-172 (A1)	08-May-10	10:41:00	Spencer Island West (Near-Field)	8	1	103	3	08-May-10	10:42:16	39605974	-76130720
54-172 (A1)	08-May-10	10:42:42	Spencer Island West (Near-Field)	8	1	132	12	08-May-10	10:47:01	39605974	-76130720
54-172 (A1)	08-May-10	10:47:26	Spencer Island West (Near-Field)	8	1	108	7	08-May-10	10:51:16	39605974	-76130720
54-172 (A1)	08-May-10	10:58:22	Lapidum (West Shore) (Near-Field)	10	0	70	2	08-May-10	10:59:41	39601082	-76126821

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-173 (A1)	07-May-10	9:34:00	Conowingo Tailrace					07-May-10	9:34:00	39656866	-76173871
54-173 (A1)	07-May-10	9:42:52	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	76	2	07-May-10	9:44:19	39657186	-76172854
54-173 (A1)	07-May-10	9:45:41	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	101	1	07-May-10	9:45:41	39656845	-76173035
54-173 (A1)	07-May-10	9:51:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	69	1	07-May-10	9:51:01	39656845	-76173035
54-173 (A1)	07-May-10	9:51:10	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	140	1	07-May-10	9:51:10	39657186	-76172854
54-173 (A1)	07-May-10	13:55:43	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	65	1	07-May-10	13:55:43	39657186	-76172854
54-173 (A1)	08-May-10	4:43:15	Rowland Island West (Near-Field)	1	A	80	3	08-May-10	4:45:43	39652629	-76168481
54-173 (A1)	08-May-10	4:45:49	Rowland Island East (Near-Field)	1	1	132	1	08-May-10	4:45:49	39654615	-76164570
54-173 (A1)	08-May-10	4:46:47	Rowland Island East (Near-Field)	1	1	103	7	08-May-10	4:51:37	39654615	-76164570
54-173 (A1)	08-May-10	4:50:07	Rowland Island West (Near-Field)	1	A	104	1	08-May-10	4:50:07	39652629	-76168481
54-173 (A1)	08-May-10	5:59:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	70	2	08-May-10	6:02:08	39656845	-76173035
54-173 (A1)	08-May-10	6:00:46	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	79	1	08-May-10	6:00:46	39657186	-76172854
54-173 (A1)	08-May-10	6:03:18	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	61	1	08-May-10	6:03:18	39656488	-76173233
54-173 (A1)	08-May-10	6:04:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	87	1	08-May-10	6:04:38	39656845	-76173035
54-173 (A1)	08-May-10	6:08:38	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	110	1	08-May-10	6:08:38	39657186	-76172854
54-173 (A1)	08-May-10	6:09:45	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	106	2	08-May-10	6:12:03	39656845	-76173035
54-173 (A1)	08-May-10	6:13:15	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	90	3	08-May-10	6:16:51	39656845	-76173035
54-173 (A1)	08-May-10	6:14:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	67	1	08-May-10	6:14:24	39656488	-76173233
54-173 (A1)	08-May-10	6:14:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	117	2	08-May-10	6:15:46	39657186	-76172854
54-173 (A1)	08-May-10	6:18:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	97	1	08-May-10	6:18:04	39656845	-76173035
54-173 (A1)	08-May-10	6:23:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	65	3	08-May-10	6:27:20	39656845	-76173035
54-173 (A1)	08-May-10	6:26:18	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	66	1	08-May-10	6:26:18	39657186	-76172854
54-173 (A1)	08-May-10	6:36:04	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	80	1	08-May-10	6:36:04	39657186	-76172854
54-173 (A1)	08-May-10	6:52:33	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	57	1	08-May-10	6:52:33	39656845	-76173035
54-173 (A1)	08-May-10	6:53:49	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	89	3	08-May-10	6:55:07	39656845	-76173035
54-173 (A1)	08-May-10	7:01:45	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	61	1	08-May-10	7:01:45	39656488	-76173233
54-173 (A1)	08-May-10	7:01:51	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	74	1	08-May-10	7:01:51	39656845	-76173035
54-173 (A1)	08-May-10	7:04:30	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	68	1	08-May-10	7:04:30	39656845	-76173035
54-173 (A1)	08-May-10	9:48:54	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	101	1	08-May-10	9:48:54	39656845	-76173035
54-173 (A1)	08-May-10	10:36:48	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	100	2	08-May-10	10:38:01	39656845	-76173035
54-173 (A1)	08-May-10	12:51:37	Rowland Island West (Near-Field)	1	A	83	3	08-May-10	12:55:22	39652629	-76168481
54-173 (A1)	08-May-10	13:27:58	Rowland Island West (Near-Field)	1	A	101	2	08-May-10	13:30:03	39652629	-76168481
54-173 (A1)	08-May-10	14:18:32	Rowland Island West (Near-Field)	1	A	86	5	08-May-10	14:21:30	39652629	-76168481
54-173 (A1)	08-May-10	14:29:18	Rowland Island West (Near-Field)	1	A	73	3	08-May-10	14:36:50	39652629	-76168481
54-173 (A1)	08-May-10	14:40:09	Rowland Island West (Near-Field)	1	A	84	1	08-May-10	14:40:09	39652629	-76168481
54-173 (A1)	08-May-10	15:01:55	Rowland Island West (Near-Field)	1	A	83	2	08-May-10	15:05:38	39652629	-76168481
54-173 (A1)	08-May-10	15:46:53	Rowland Island West (Near-Field)	1	A	81	1	08-May-10	15:46:53	39652629	-76168481
54-173 (A1)	08-May-10	18:26:53	Rowland Island West (Near-Field)	1	A	55	1	08-May-10	18:26:53	39652629	-76168481
54-173 (A1)	08-May-10	18:29:50	Rowland Island West (Near-Field)	1	A	86	1	08-May-10	18:29:50	39652629	-76168481
54-173 (A1)	08-May-10	20:17:50	Rowland Island West (Near-Field)	1	A	64	1	08-May-10	20:17:50	39652629	-76168481
54-173 (A1)	08-May-10	20:19:09	Rowland Island West (Near-Field)	1	A	83	2	08-May-10	20:20:00	39652629	-76168481
54-173 (A1)	08-May-10	20:28:42	Rowland Island West (Near-Field)	1	A	86	3	08-May-10	20:34:00	39652629	-76168481
54-173 (A1)	08-May-10	22:44:23	Rowland Island West (Near-Field)	1	A	67	1	08-May-10	22:44:23	39652629	-76168481
54-173 (A1)	08-May-10	23:40:05	Rowland Island West (Near-Field)	1	A	69	1	08-May-10	23:40:05	39652629	-76168481
54-173 (A1)	08-May-10	23:54:15	Rowland Island West (Near-Field)	1	A	59	1	08-May-10	23:54:15	39652629	-76168481
54-173 (A1)	09-May-10	5:06:13	Rowland Island West (Near-Field)	1	A	104	1	09-May-10	5:06:13	39652629	-76168481
54-173 (A1)	09-May-10	5:10:32	Rowland Island West (Near-Field)	1	A	66	1	09-May-10	5:10:32	39652629	-76168481
54-173 (A1)	09-May-10	5:21:09	Rowland Island West (Near-Field)	1	A	59	1	09-May-10	5:21:09	39652629	-76168481
54-173 (A1)	09-May-10	5:36:36	Rowland Island West (Near-Field)	1	A	88	2	09-May-10	5:37:03	39652629	-76168481
54-173 (A1)	09-May-10	5:43:22	Rowland Island West (Near-Field)	1	A	81	2	09-May-10	5:45:58	39652629	-76168481
54-173 (A1)	09-May-10	5:50:38	Rowland Island West (Near-Field)	1	A	93	8	09-May-10	5:58:25	39652629	-76168481
54-173 (A1)	09-May-10	6:00:07	Rowland Island West (Near-Field)	1	A	86	2	09-May-10	6:01:24	39652629	-76168481
54-173 (A1)	09-May-10	6:28:35	Rowland Island West (Near-Field)	1	A	85	2	09-May-10	6:29:01	39652629	-76168481
54-173 (A1)	09-May-10	6:34:13	Rowland Island West (Near-Field)	1	A	78	2	09-May-10	6:37:09	39652629	-76168481
54-173 (A1)	09-May-10	7:16:04	Rowland Island West (Near-Field)	1	A	94	1	09-May-10	7:16:04	39652629	-76168481
54-173 (A1)	09-May-10	7:44:42	Rowland Island West (Near-Field)	1	A	63	1	09-May-10	7:44:42	39652629	-76168481
54-173 (A1)	09-May-10	7:50:53	Rowland Island West (Near-Field)	1	A	73	1	09-May-10	7:50:53	39652629	-76168481
54-173 (A1)	09-May-10	8:00:43	Rowland Island West (Near-Field)	1	A	92	2	09-May-10	8:05:32	39652629	-76168481
54-173 (A1)	09-May-10	8:18:43	Rowland Island West (Near-Field)	1	A	62	1	09-May-10	8:18:43	39652629	-76168481
54-173 (A1)	09-May-10	8:22:42	Rowland Island West (Near-Field)	1	A	86	3	09-May-10	8:24:28	39652629	-76168481
54-173 (A1)	09-May-10	8:30:45	Rowland Island West (Near-Field)	1	A	71	6	09-May-10	8:36:35	39652629	-76168481
54-173 (A1)	09-May-10	8:40:12	Rowland Island West (Near-Field)	1	A	90	5	09-May-10	8:46:23	39652629	-76168481



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-173 (A1)	09-May-10	8:50:19	Rowland Island West (Near-Field)	1	A	97	2	09-May-10	8:58:00	39652629	-76168481
54-173 (A1)	09-May-10	9:01:03	Rowland Island West (Near-Field)	1	A	86	1	09-May-10	9:01:03	39652629	-76168481
54-173 (A1)	09-May-10	9:11:39	Rowland Island West (Near-Field)	1	A	99	6	09-May-10	9:19:50	39652629	-76168481
54-173 (A1)	09-May-10	9:22:00	Rowland Island West (Near-Field)	1	A	96	6	09-May-10	9:27:51	39652629	-76168481
54-173 (A1)	09-May-10	9:31:15	Rowland Island West (Near-Field)	1	A	104	9	09-May-10	9:39:39	39652629	-76168481
54-173 (A1)	09-May-10	9:41:00	Rowland Island West (Near-Field)	1	A	122	7	09-May-10	9:49:58	39652629	-76168481
54-173 (A1)	09-May-10	9:50:27	Rowland Island West (Near-Field)	1	A	106	2	09-May-10	9:57:45	39652629	-76168481
54-173 (A1)	09-May-10	10:01:04	Rowland Island West (Near-Field)	1	A	80	1	09-May-10	10:01:04	39652629	-76168481
54-173 (A1)	09-May-10	10:11:50	Rowland Island West (Near-Field)	1	A	90	2	09-May-10	10:17:16	39652629	-76168481
54-173 (A1)	09-May-10	10:33:32	Rowland Island West (Near-Field)	1	A	76	4	09-May-10	10:39:36	39652629	-76168481
54-173 (A1)	09-May-10	10:43:36	Rowland Island West (Near-Field)	1	A	78	5	09-May-10	10:50:04	39652629	-76168481
54-173 (A1)	09-May-10	10:50:32	Rowland Island West (Near-Field)	1	A	80	8	09-May-10	11:00:03	39652629	-76168481
54-173 (A1)	09-May-10	11:02:38	Rowland Island West (Near-Field)	1	A	88	1	09-May-10	11:02:38	39652629	-76168481
54-173 (A1)	09-May-10	11:13:54	Rowland Island West (Near-Field)	1	A	84	4	09-May-10	11:18:01	39652629	-76168481
54-173 (A1)	09-May-10	11:25:31	Rowland Island West (Near-Field)	1	A	75	2	09-May-10	11:27:13	39652629	-76168481
54-173 (A1)	09-May-10	12:11:47	Rowland Island West (Near-Field)	1	A	78	3	09-May-10	12:16:47	39652629	-76168481
54-173 (A1)	09-May-10	12:21:35	Rowland Island West (Near-Field)	1	A	99	11	09-May-10	12:29:40	39652629	-76168481
54-173 (A1)	09-May-10	12:34:16	Rowland Island West (Near-Field)	1	A	86	5	09-May-10	12:40:25	39652629	-76168481
54-173 (A1)	09-May-10	12:40:51	Rowland Island West (Near-Field)	1	A	82	3	09-May-10	12:47:49	39652629	-76168481
54-173 (A1)	09-May-10	15:29:28	Rowland Island West (Near-Field)	1	A	97	1	09-May-10	15:29:28	39652629	-76168481
54-173 (A1)	09-May-10	15:44:38	Rowland Island West (Near-Field)	1	A	69	2	09-May-10	15:46:21	39652629	-76168481
54-173 (A1)	09-May-10	15:52:24	Rowland Island West (Near-Field)	1	A	87	1	09-May-10	15:52:24	39652629	-76168481
54-173 (A1)	09-May-10	16:33:06	Rowland Island West (Near-Field)	1	A	71	2	09-May-10	16:36:58	39652629	-76168481
54-173 (A1)	09-May-10	16:57:28	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	103	1	09-May-10	16:57:28	39656488	-76173233
54-173 (A1)	09-May-10	16:59:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	69	1	09-May-10	16:59:00	39657186	-76172854
54-173 (A1)	09-May-10	17:00:41	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	118	1	09-May-10	17:00:41	39657186	-76172854
54-173 (A1)	09-May-10	17:06:42	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	55	1	09-May-10	17:06:42	39657186	-76172854
54-173 (A1)	09-May-10	17:10:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	97	1	09-May-10	17:10:25	39657186	-76172854
54-173 (A1)	09-May-10	17:19:03	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	1	09-May-10	17:19:03	39657186	-76172854
54-173 (A1)	09-May-10	22:57:29	Rowland Island West (Near-Field)	1	A	90	1	09-May-10	22:57:29	39652629	-76168481
54-173 (A1)	09-May-10	23:03:26	Rowland Island West (Near-Field)	1	A	89	5	09-May-10	23:08:01	39652629	-76168481
54-173 (A1)	09-May-10	23:09:53	Rowland Island East (Near-Field)	1	1	103	1	09-May-10	23:09:53	39654615	-76164570
54-173 (A1)	09-May-10	23:12:28	Rowland Island West (Near-Field)	1	A	90	4	09-May-10	23:18:47	39652629	-76168481
54-173 (A1)	09-May-10	23:14:50	Rowland Island East (Near-Field)	1	1	67	6	09-May-10	23:21:31	39654615	-76164570
54-173 (A1)	09-May-10	23:26:41	Rowland Island West (Near-Field)	1	A	97	2	09-May-10	23:27:06	39652629	-76168481
54-173 (A1)	09-May-10	23:28:02	Rowland Island East (Near-Field)	1	1	87	3	09-May-10	23:29:49	39654615	-76164570
54-173 (A1)	09-May-10	23:32:49	Rowland Island East (Near-Field)	1	1	92	2	09-May-10	23:33:17	39654615	-76164570
54-173 (A1)	09-May-10	23:45:00	Rowland Island West (Near-Field)	1	A	78	1	09-May-10	23:45:00	39652629	-76168481
54-173 (A1)	10-May-10	5:24:55	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	59	2	10-May-10	5:26:46	39657186	-76172854
54-173 (A1)	10-May-10	5:28:35	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	75	2	10-May-10	5:29:32	39656845	-76173035
54-173 (A1)	10-May-10	5:32:22	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	91	2	10-May-10	5:33:19	39657186	-76172854
54-173 (A1)	10-May-10	5:36:08	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	71	1	10-May-10	5:36:08	39657186	-76172854
54-173 (A1)	10-May-10	5:37:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	85	1	10-May-10	5:37:57	39656845	-76173035
54-173 (A1)	10-May-10	5:39:48	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	65	2	10-May-10	5:40:44	39656845	-76173035
54-173 (A1)	10-May-10	5:45:18	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	86	1	10-May-10	5:45:18	39656015	-76173489
54-173 (A1)	10-May-10	5:47:14	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	1	10-May-10	5:47:14	39656845	-76173035
54-173 (A1)	10-May-10	5:48:14	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	67	1	10-May-10	5:48:14	39657186	-76172854
54-173 (A1)	10-May-10	5:52:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	81	1	10-May-10	5:52:50	39656845	-76173035
54-173 (A1)	10-May-10	6:08:27	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	95	1	10-May-10	6:08:27	39656845	-76173035
54-173 (A1)	10-May-10	6:58:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	104	1	10-May-10	6:58:24	39656845	-76173035
54-173 (A1)	10-May-10	7:01:17	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	74	1	10-May-10	7:01:17	39656845	-76173035
54-173 (A1)	10-May-10	7:08:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	123	1	10-May-10	7:08:00	39656845	-76173035
54-173 (A1)	10-May-10	9:25:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	92	1	10-May-10	9:25:24	39656845	-76173035
54-173 (A1)	10-May-10	9:26:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	66	1	10-May-10	9:26:24	39656488	-76173233
54-173 (A1)	10-May-10	10:08:43	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	74	1	10-May-10	10:08:43	39656488	-76173233
54-173 (A1)	10-May-10	10:17:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	134	2	10-May-10	10:19:44	39657186	-76172854
54-173 (A1)	10-May-10	10:19:25	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	131	1	10-May-10	10:19:25	39657480	-76172724
54-173 (A1)	10-May-10	10:24:25	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	84	1	10-May-10	10:24:25	39656488	-76173233
54-173 (A1)	10-May-10	10:28:09	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	82	1	10-May-10	10:28:09	39656845	-76173035
54-173 (A1)	10-May-10	10:49:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	55	1	10-May-10	10:49:38	39656845	-76173035
54-173 (A1)	10-May-10	10:51:04	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	65	1	10-May-10	10:51:04	39657186	-76172854
54-173 (A1)	10-May-10	10:56:24	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	92	2	10-May-10	11:00:20	39657186	-76172854



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-173 (A1)	10-May-10	11:05:47	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	82	1	10-May-10	11:05:47	39656845	-76173035
54-173 (A1)	10-May-10	11:11:23	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	61	2	10-May-10	11:12:46	39656845	-76173035
54-173 (A1)	10-May-10	11:14:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	55	1	10-May-10	11:14:25	39657186	-76172854
54-173 (A1)	10-May-10	11:23:14	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	64	1	10-May-10	11:23:14	39657186	-76172854
54-173 (A1)	10-May-10	11:24:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	67	1	10-May-10	11:24:32	39656845	-76173035
54-173 (A1)	10-May-10	11:27:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	1	10-May-10	11:27:28	39656845	-76173035
54-173 (A1)	10-May-10	11:27:35	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	53	1	10-May-10	11:27:35	39657186	-76172854
54-173 (A1)	10-May-10	11:47:17	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	89	1	10-May-10	11:47:17	39656015	-76173489
54-173 (A1)	10-May-10	11:47:28	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	89	1	10-May-10	11:47:28	39657186	-76172854
54-173 (A1)	10-May-10	11:48:45	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	78	1	10-May-10	11:48:45	39656488	-76173233
54-173 (A1)	10-May-10	11:54:38	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	113	1	10-May-10	11:54:38	39656488	-76173233
54-173 (A1)	10-May-10	11:54:43	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	116	2	10-May-10	11:56:06	39656845	-76173035
54-173 (A1)	10-May-10	11:56:11	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	75	1	10-May-10	11:56:11	39657186	-76172854
54-173 (A1)	10-May-10	11:58:56	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	86	2	10-May-10	12:01:27	39657186	-76172854
54-173 (A1)	10-May-10	12:02:42	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	71	2	10-May-10	12:04:03	39656488	-76173233
54-173 (A1)	10-May-10	12:02:47	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	113	1	10-May-10	12:02:47	39656845	-76173035
54-173 (A1)	10-May-10	12:06:38	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	100	1	10-May-10	12:06:38	39656015	-76173489
54-173 (A1)	10-May-10	12:06:42	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	89	3	10-May-10	12:10:43	39656488	-76173233
54-173 (A1)	10-May-10	12:06:50	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	110	2	10-May-10	12:10:51	39657186	-76172854
54-173 (A1)	10-May-10	12:08:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	110	2	10-May-10	12:10:47	39656845	-76173035
54-173 (A1)	10-May-10	12:10:37	Conowingo Tailrace Units 1-7 Master	17	A	102	1	10-May-10	12:10:37		
54-173 (A1)	10-May-10	12:12:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	89	3	10-May-10	12:16:13	39656845	-76173035
54-173 (A1)	10-May-10	12:12:06	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	68	2	10-May-10	12:16:17	39657186	-76172854
54-173 (A1)	10-May-10	12:14:43	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	52	1	10-May-10	12:14:43	39656488	-76173233
54-173 (A1)	10-May-10	12:17:35	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	170	2	10-May-10	12:19:08	39656845	-76173035
54-173 (A1)	10-May-10	12:17:39	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	154	3	10-May-10	12:20:35	39657186	-76172854
54-173 (A1)	10-May-10	12:18:58	Conowingo Tailrace Units 1-7 Master	17	A	107	2	10-May-10	12:20:23		
54-173 (A1)	10-May-10	12:19:04	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	133	1	10-May-10	12:19:04	39656488	-76173233
54-173 (A1)	10-May-10	12:21:58	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	127	2	10-May-10	12:23:12	39656845	-76173035
54-173 (A1)	10-May-10	12:24:11	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	114	3	10-May-10	12:27:12	39657308	-76172818
54-173 (A1)	10-May-10	12:24:42	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	137	2	10-May-10	12:26:12	39657186	-76172854
54-173 (A1)	10-May-10	12:32:47	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	112	1	10-May-10	12:32:47	39656845	-76173035
54-173 (A1)	10-May-10	12:32:51	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	88	1	10-May-10	12:32:51	39657186	-76172854
54-173 (A1)	10-May-10	13:25:38	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	69	1	10-May-10	13:25:38	39657186	-76172854
54-173 (A1)	10-May-10	13:33:15	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	79	1	10-May-10	13:33:15	39657308	-76172818
54-173 (A1)	10-May-10	13:50:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	96	1	10-May-10	13:50:17	39656488	-76173233
54-173 (A1)	10-May-10	13:58:51	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	140	1	10-May-10	13:58:51	39657186	-76172854
54-173 (A1)	10-May-10	14:05:39	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	111	1	10-May-10	14:05:39	39656015	-76173489
54-173 (A1)	10-May-10	14:05:43	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	134	2	10-May-10	14:07:11	39656488	-76173233
54-173 (A1)	10-May-10	14:08:22	Conowingo Tailrace Units 1-7 Master	17	A	111	1	10-May-10	14:08:22		
54-173 (A1)	10-May-10	14:11:03	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	180	1	10-May-10	14:11:03	39656488	-76173233
54-173 (A1)	10-May-10	14:19:16	Conowingo Tailrace Units 1-7 Master	17	A	129	1	10-May-10	14:19:16		
54-173 (A1)	10-May-10	14:23:50	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	70	1	10-May-10	14:23:50	39656015	-76173489
54-173 (A1)	10-May-10	14:23:54	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	170	1	10-May-10	14:23:54	39656488	-76173233
54-173 (A1)	10-May-10	14:26:34	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	95	1	10-May-10	14:26:34	39656015	-76173489
54-173 (A1)	10-May-10	14:28:26	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	99	1	10-May-10	14:28:26	39657186	-76172854
54-173 (A1)	10-May-10	14:36:30	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	96	1	10-May-10	14:36:30	39656845	-76173035
54-173 (A1)	10-May-10	14:51:24	Rowland Island West (Near-Field)	1	A	73	3	10-May-10	14:52:51	39652629	-76168481
54-173 (A1)	10-May-10	14:54:28	Rowland Island West (Near-Field)	1	A	95	9	10-May-10	15:04:13	39652629	-76168481
54-173 (A1)	10-May-10	15:05:30	Rowland Island West (Near-Field)	1	A	95	6	10-May-10	15:14:20	39652629	-76168481
54-173 (A1)	10-May-10	15:15:22	Rowland Island West (Near-Field)	1	A	88	4	10-May-10	15:20:30	39652629	-76168481
54-173 (A1)	10-May-10	15:30:27	Rowland Island West (Near-Field)	1	A	83	2	10-May-10	15:31:54	39652629	-76168481
54-173 (A1)	10-May-10	15:34:58	Rowland Island West (Near-Field)	1	A	106	10	10-May-10	15:44:35	39652629	-76168481
54-173 (A1)	10-May-10	15:47:16	Rowland Island West (Near-Field)	1	A	95	5	10-May-10	15:53:30	39652629	-76168481
54-173 (A1)	10-May-10	15:55:58	Rowland Island West (Near-Field)	1	A	105	1	10-May-10	15:55:58	39652629	-76168481
54-173 (A1)	10-May-10	16:07:21	Rowland Island West (Near-Field)	1	A	104	5	10-May-10	16:10:30	39652629	-76168481
54-173 (A1)	10-May-10	16:18:55	Rowland Island West (Near-Field)	1	A	73	2	10-May-10	16:18:55	39652629	-76168481
54-173 (A1)	10-May-10	16:28:35	Rowland Island West (Near-Field)	1	A	79	6	10-May-10	16:34:13	39652629	-76168481
54-173 (A1)	10-May-10	17:31:27	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	79	1	10-May-10	17:31:27	39656845	-76173035
54-173 (A1)	10-May-10	17:33:49	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	82	1	10-May-10	17:33:49	39656845	-76173035
54-173 (A1)	10-May-10	17:38:48	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	157	3	10-May-10	17:41:22	39656488	-76173233
54-173 (A1)	10-May-10	17:38:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	3	10-May-10	17:41:25	39656845	-76173035

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-173 (A1)	10-May-10	17:43:53	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	102	2	10-May-10	17:47:39	39656845	-76173035
54-173 (A1)	10-May-10	17:46:17	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	117	1	10-May-10	17:46:17	39657308	-76172818
54-173 (A1)	10-May-10	17:46:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	77	2	10-May-10	17:47:35	39656488	-76173233
54-173 (A1)	10-May-10	17:46:28	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	122	2	10-May-10	17:47:44	39657186	-76172854
54-173 (A1)	10-May-10	17:49:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	121	3	10-May-10	17:51:29	39656488	-76173233
54-173 (A1)	10-May-10	17:49:06	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	173	2	10-May-10	17:51:33	39656845	-76173035
54-173 (A1)	10-May-10	17:49:10	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	97	2	10-May-10	17:51:36	39657186	-76172854
54-173 (A1)	10-May-10	17:51:25	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	105	1	10-May-10	17:51:25	39656015	-76173489
54-173 (A1)	10-May-10	17:56:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	122	1	10-May-10	17:56:22	39656488	-76173233
54-173 (A1)	10-May-10	18:02:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	86	2	10-May-10	18:03:04	39656845	-76173035
54-173 (A1)	10-May-10	18:06:08	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	111	1	10-May-10	18:06:08	39656845	-76173035
54-173 (A1)	10-May-10	18:15:15	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	164	1	10-May-10	18:15:15	39657186	-76172854
54-173 (A1)	10-May-10	18:16:15	Conowingo Tailrace Units 1-7 Master	17	A	82	3	10-May-10	18:18:17		
54-173 (A1)	10-May-10	18:16:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	173	2	10-May-10	18:17:25	39656845	-76173035
54-173 (A1)	10-May-10	18:17:21	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	102	1	10-May-10	18:17:21	39656488	-76173233
54-173 (A1)	10-May-10	18:19:44	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	73	1	10-May-10	18:19:44	39657186	-76172854
54-173 (A1)	10-May-10	18:20:51	Conowingo Tailrace Units 1-7 Master	17	A	119	1	10-May-10	18:20:51		
54-173 (A1)	10-May-10	18:21:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	125	1	10-May-10	18:21:00	39656845	-76173035
54-173 (A1)	10-May-10	18:24:45	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	153	1	10-May-10	18:24:45	39657308	-76172818
54-173 (A1)	10-May-10	18:25:42	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	133	2	10-May-10	18:28:30	39657308	-76172818
54-173 (A1)	10-May-10	18:29:32	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	90	1	10-May-10	18:29:32	39657674	-76172621
54-173 (A1)	10-May-10	22:32:50	Rowland Island West (Near-Field)	1	A	76	1	10-May-10	22:32:50	39652629	-76168481
54-173 (A1)	10-May-10	22:37:36	Rowland Island West (Near-Field)	1	A	64	1	10-May-10	22:37:36	39652629	-76168481
54-173 (A1)	10-May-10	23:16:03	Rowland Island West (Near-Field)	1	A	74	1	10-May-10	23:16:03	39652629	-76168481
54-173 (A1)	10-May-10	23:21:40	Rowland Island West (Near-Field)	1	A	94	6	10-May-10	23:25:37	39652629	-76168481
54-173 (A1)	10-May-10	23:26:33	Rowland Island East (Near-Field)	1	1	81	10	10-May-10	23:35:22	39654615	-76164570
54-173 (A1)	10-May-10	23:27:24	Rowland Island West (Near-Field)	1	A	67	9	10-May-10	23:34:50	39652629	-76168481
54-173 (A1)	10-May-10	23:36:34	Rowland Island West (Near-Field)	1	A	82	9	10-May-10	23:46:03	39652629	-76168481
54-173 (A1)	10-May-10	23:37:05	Rowland Island East (Near-Field)	1	1	91	11	10-May-10	23:46:07	39654615	-76164570
54-173 (A1)	10-May-10	23:46:33	Rowland Island East (Near-Field)	1	1	93	3	10-May-10	23:47:50	39654615	-76164570
54-173 (A1)	10-May-10	23:47:46	Rowland Island West (Near-Field)	1	A	68	5	10-May-10	23:54:12	39652629	-76168481
54-173 (A1)	10-May-10	23:56:48	Rowland Island East (Near-Field)	1	1	100	2	11-May-10	0:04:41	39654615	-76164570
54-173 (A1)	10-May-10	23:59:15	Rowland Island West (Near-Field)	1	A	76	2	10-May-10	23:59:41	39652629	-76168481
54-173 (A1)	11-May-10	1:20:57	Rowland Island West (Near-Field)	1	A	70	2	11-May-10	1:25:40	39652629	-76168481
54-173 (A1)	11-May-10	1:28:41	Rowland Island West (Near-Field)	1	A	101	6	11-May-10	1:35:47	39652629	-76168481
54-173 (A1)	11-May-10	1:28:46	Rowland Island East (Near-Field)	1	1	96	9	11-May-10	1:36:18	39654615	-76164570
54-173 (A1)	11-May-10	1:36:45	Rowland Island East (Near-Field)	1	1	102	13	11-May-10	1:45:46	39654615	-76164570
54-173 (A1)	11-May-10	1:37:35	Rowland Island West (Near-Field)	1	A	89	10	11-May-10	1:45:42	39652629	-76168481
54-173 (A1)	11-May-10	1:54:49	Rowland Island West (Near-Field)	1	A	90	2	11-May-10	1:55:42	39652629	-76168481
54-173 (A1)	11-May-10	1:57:01	Rowland Island West (Near-Field)	1	A	85	5	11-May-10	2:03:09	39652629	-76168481
54-173 (A1)	11-May-10	2:12:52	Rowland Island West (Near-Field)	1	A	98	7	11-May-10	2:16:04	39652629	-76168481
54-173 (A1)	11-May-10	2:16:32	Rowland Island West (Near-Field)	1	A	112	9	11-May-10	2:25:30	39652629	-76168481
54-173 (A1)	11-May-10	2:27:00	Rowland Island West (Near-Field)	1	A	103	12	11-May-10	2:35:53	39652629	-76168481
54-173 (A1)	11-May-10	2:37:21	Rowland Island West (Near-Field)	1	A	126	21	11-May-10	2:46:34	39652629	-76168481
54-173 (A1)	11-May-10	2:47:31	Rowland Island West (Near-Field)	1	A	125	14	11-May-10	2:56:20	39652629	-76168481
54-173 (A1)	11-May-10	2:57:15	Rowland Island West (Near-Field)	1	A	135	23	11-May-10	3:06:32	39652629	-76168481
54-173 (A1)	11-May-10	3:07:00	Rowland Island West (Near-Field)	1	A	142	24	11-May-10	3:16:36	39652629	-76168481
54-173 (A1)	11-May-10	3:17:27	Rowland Island West (Near-Field)	1	A	132	19	11-May-10	3:26:21	39652629	-76168481
54-173 (A1)	11-May-10	3:26:50	Rowland Island West (Near-Field)	1	A	143	19	11-May-10	3:35:26	39652629	-76168481
54-173 (A1)	11-May-10	3:36:49	Rowland Island West (Near-Field)	1	A	135	21	11-May-10	3:46:23	39652629	-76168481
54-173 (A1)	11-May-10	3:46:51	Rowland Island West (Near-Field)	1	A	139	20	11-May-10	3:56:22	39652629	-76168481
54-173 (A1)	11-May-10	3:56:50	Rowland Island West (Near-Field)	1	A	156	25	11-May-10	4:06:49	39652629	-76168481
54-173 (A1)	11-May-10	4:07:17	Rowland Island West (Near-Field)	1	A	164	20	11-May-10	4:16:36	39652629	-76168481
54-173 (A1)	11-May-10	4:17:06	Rowland Island West (Near-Field)	1	A	146	16	11-May-10	4:26:35	39652629	-76168481
54-173 (A1)	11-May-10	4:28:00	Rowland Island West (Near-Field)	1	A	137	13	11-May-10	4:36:52	39652629	-76168481
54-173 (A1)	11-May-10	4:37:21	Rowland Island West (Near-Field)	1	A	100	13	11-May-10	4:46:13	39652629	-76168481
54-173 (A1)	11-May-10	4:47:09	Rowland Island West (Near-Field)	1	A	96	9	11-May-10	4:52:17	39652629	-76168481
54-173 (A1)	11-May-10	5:02:55	Rowland Island West (Near-Field)	1	A	86	2	11-May-10	5:06:51	39652629	-76168481
54-173 (A1)	11-May-10	5:33:48	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	74	1	11-May-10	5:33:48	39656488	-76173233
54-173 (A1)	11-May-10	5:35:02	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	63	1	11-May-10	5:35:02	39657186	-76172854
54-173 (A1)	11-May-10	5:36:03	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	97	1	11-May-10	5:36:03	39656845	-76173035
54-173 (A1)	11-May-10	5:37:15	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	70	1	11-May-10	5:37:15	39656488	-76173233

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-173 (A1)	11-May-10	5:38:29	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	80	1	11-May-10	5:38:29	39657186	-76172854
54-173 (A1)	11-May-10	5:47:56	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	101	1	11-May-10	5:47:56	39657186	-76172854
54-173 (A1)	11-May-10	5:55:02	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	79	1	11-May-10	5:55:02	39657186	-76172854
54-173 (A1)	11-May-10	5:56:09	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	125	1	11-May-10	5:56:09	39656845	-76173035
54-173 (A1)	11-May-10	5:57:18	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	86	1	11-May-10	5:57:18	39656488	-76173233
54-173 (A1)	11-May-10	6:01:53	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	77	1	11-May-10	6:01:53	39656015	-76173489
54-173 (A1)	11-May-10	6:03:03	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	116	3	11-May-10	6:05:15	39656488	-76173233
54-173 (A1)	11-May-10	6:03:13	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	103	2	11-May-10	6:07:29	39657186	-76172854
54-173 (A1)	11-May-10	6:07:23	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	123	1	11-May-10	6:07:23	39656845	-76173035
54-173 (A1)	11-May-10	6:08:30	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	103	1	11-May-10	6:08:30	39657186	-76172854
54-173 (A1)	11-May-10	7:01:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	73	1	11-May-10	7:01:27	39657186	-76172854
54-173 (A1)	11-May-10	7:04:26	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	82	1	11-May-10	7:04:26	39657186	-76172854
54-173 (A1)	11-May-10	9:51:05	Conowingo Tailrace Units 1-7 Master	17	A	81	1	11-May-10	9:51:05		
54-173 (A1)	11-May-10	9:51:12	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	144	2	11-May-10	9:52:27	39656488	-76173233
54-173 (A1)	11-May-10	9:51:16	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	186	1	11-May-10	9:51:16	39656845	-76173035
54-173 (A1)	11-May-10	9:51:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	155	1	11-May-10	9:51:20	39657186	-76172854
54-173 (A1)	11-May-10	9:53:31	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	54	1	11-May-10	9:53:31	39656015	-76173489
54-173 (A1)	11-May-10	9:56:54	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	133	1	11-May-10	9:56:54	39656015	-76173489
54-173 (A1)	11-May-10	9:56:58	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	124	1	11-May-10	9:56:58	39656488	-76173233
54-173 (A1)	11-May-10	9:57:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	124	3	11-May-10	9:59:15	39656845	-76173035
54-173 (A1)	11-May-10	10:00:18	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	158	3	11-May-10	10:03:41	39656845	-76173035
54-173 (A1)	11-May-10	10:01:16	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	137	3	11-May-10	10:04:42	39656488	-76173233
54-173 (A1)	11-May-10	10:03:29	Conowingo Tailrace Units 1-7 Master	17	A	105	1	11-May-10	10:03:29		
54-173 (A1)	11-May-10	10:05:46	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	179	1	11-May-10	10:05:46	39656488	-76173233
54-173 (A1)	11-May-10	10:05:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	139	1	11-May-10	10:05:50	39656845	-76173035
54-173 (A1)	11-May-10	10:06:58	Conowingo Tailrace Units 1-7 Master	17	A	63	2	11-May-10	10:08:36		
54-173 (A1)	11-May-10	10:10:27	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	121	1	11-May-10	10:10:27	39657308	-76172818
54-173 (A1)	11-May-10	10:11:27	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	119	1	11-May-10	10:11:27	39657480	-76172724
54-173 (A1)	11-May-10	10:18:06	Conowingo Tailrace Units 1-7 Master	17	A	110	1	11-May-10	10:18:06		
54-173 (A1)	11-May-10	10:18:54	<b>Conowingo Tailrace Units 8-11 Master</b>	<b>7</b>	<b>A</b>	<b>115</b>	<b>1</b>	11-May-10	10:18:54		
54-173 (A1)	11-May-10	10:19:02	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	129	2	11-May-10	10:20:57	39657480	-76172724
54-173 (A1)	11-May-10	10:19:55	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	101	1	11-May-10	10:19:55	39657308	-76172818
54-173 (A1)	11-May-10	10:21:02	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	109	2	11-May-10	10:22:00	39657674	-76172621
54-173 (A1)	11-May-10	10:23:50	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	93	1	11-May-10	10:23:50	39657480	-76172724
54-173 (A1)	11-May-10	10:24:22	Conowingo Tailrace Units 1-7 Master	17	A	87	1	11-May-10	10:24:22		
54-173 (A1)	11-May-10	10:41:34	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	82	2	11-May-10	10:43:44	39657186	-76172854
54-173 (A1)	11-May-10	11:04:51	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	57	1	11-May-10	11:04:51	39656015	-76173489
54-173 (A1)	11-May-10	11:04:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	72	1	11-May-10	11:04:57	39656845	-76173035
54-173 (A1)	11-May-10	11:08:19	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	103	2	11-May-10	11:09:28	39656488	-76173233
54-173 (A1)	11-May-10	11:09:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	152	1	11-May-10	11:09:32	39656845	-76173035
54-173 (A1)	11-May-10	11:09:36	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	103	1	11-May-10	11:09:36	39657186	-76172854
54-173 (A1)	11-May-10	12:12:16	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	103	1	11-May-10	12:12:16	39656845	-76173035
54-173 (A1)	11-May-10	12:15:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	76	2	11-May-10	12:16:25	39657186	-76172854
54-173 (A1)	11-May-10	12:19:25	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	95	2	11-May-10	12:20:28	39656845	-76173035
54-173 (A1)	11-May-10	12:19:30	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	89	2	11-May-10	12:22:44	39657186	-76172854
54-173 (A1)	11-May-10	12:42:34	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	2	11-May-10	12:43:40	39656488	-76173233
54-173 (A1)	11-May-10	12:44:50	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	103	2	11-May-10	12:48:41	39656488	-76173233
54-173 (A1)	11-May-10	12:48:45	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	154	1	11-May-10	12:48:45	39656845	-76173035
54-173 (A1)	11-May-10	12:49:54	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	72	2	11-May-10	12:52:22	39656845	-76173035
54-173 (A1)	11-May-10	12:50:56	Conowingo Tailrace Units 1-7 Master	17	A	72	1	11-May-10	12:50:56		
54-173 (A1)	11-May-10	12:51:04	<b>Conowingo Tailrace Units 8-11 Master</b>	<b>7</b>	<b>A</b>	<b>88</b>	<b>1</b>	11-May-10	12:51:04		
54-173 (A1)	11-May-10	12:51:04	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	76	1	11-May-10	12:51:04	39656488	-76173233
54-173 (A1)	11-May-10	12:51:09	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	129	1	11-May-10	12:51:09	39657308	-76172818
54-173 (A1)	11-May-10	12:52:28	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	114	1	11-May-10	12:52:28	39657186	-76172854
54-173 (A1)	11-May-10	12:57:54	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	1	11-May-10	12:57:54	39656845	-76173035
54-173 (A1)	11-May-10	12:58:54	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	63	1	11-May-10	12:58:54	39656488	-76173233
54-173 (A1)	11-May-10	12:59:02	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	83	1	11-May-10	12:59:02	39657186	-76172854
54-173 (A1)	11-May-10	13:00:07	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	90	3	11-May-10	13:03:34	39656845	-76173035
54-173 (A1)	11-May-10	13:00:13	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	59	1	11-May-10	13:00:13	39657186	-76172854
54-173 (A1)	11-May-10	13:02:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	60	1	11-May-10	13:02:22	39656488	-76173233
54-173 (A1)	11-May-10	13:07:58	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	64	1	11-May-10	13:07:58	39656845	-76173035
54-173 (A1)	11-May-10	13:09:06	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	88	1	11-May-10	13:09:06	39656488	-76173233



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-173 (A1)	11-May-10	13:11:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	72	1	11-May-10	13:11:24	39656845	-76173035
54-173 (A1)	11-May-10	13:27:13	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	162	2	11-May-10	13:28:27	39656488	-76173233
54-173 (A1)	11-May-10	13:29:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	126	2	11-May-10	13:32:30	39656845	-76173035
54-173 (A1)	11-May-10	13:31:08	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	141	3	11-May-10	13:33:49	39657186	-76172854
54-173 (A1)	11-May-10	13:33:31	Conowingo Tailrace Units 1-7 Master	17	A	81	1	11-May-10	13:33:31		
54-173 (A1)	11-May-10	13:35:01	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	189	2	11-May-10	13:36:32	39657186	-76172854
54-173 (A1)	11-May-10	13:36:11	Conowingo Tailrace Units 1-7 Master	17	A	137	1	11-May-10	13:36:11		
54-173 (A1)	11-May-10	13:36:16	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	72	1	11-May-10	13:36:16	39656015	-76173489
54-173 (A1)	11-May-10	13:36:25	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	124	2	11-May-10	13:37:33	39656845	-76173035
54-173 (A1)	11-May-10	13:39:43	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	79	1	11-May-10	13:39:43	39657308	-76172818
54-173 (A1)	11-May-10	13:40:33	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	129	2	11-May-10	13:42:08	39656845	-76173035
54-173 (A1)	11-May-10	13:40:43	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	122	1	11-May-10	13:40:43	39657308	-76172818
54-173 (A1)	11-May-10	13:41:54	Conowingo Tailrace Units 1-7 Master	17	A	84	1	11-May-10	13:41:54		
54-173 (A1)	11-May-10	13:48:37	Conowingo Tailrace Units 1-7 Master	17	A	54	1	11-May-10	13:48:37		
54-173 (A1)	11-May-10	13:50:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	130	2	11-May-10	13:51:06	39656845	-76173035
54-173 (A1)	11-May-10	13:50:06	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	111	2	11-May-10	13:53:16	39657186	-76172854
54-173 (A1)	11-May-10	13:51:58	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	123	2	11-May-10	13:52:57	39657308	-76172818
54-173 (A1)	11-May-10	13:52:02	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	142	3	11-May-10	13:54:00	39657480	-76172724
54-173 (A1)	11-May-10	13:52:53	<b>Conowingo Tailrace Units 8-11 Master</b>	<b>7</b>	<b>A</b>	<b>156</b>	<b>1</b>	11-May-10	13:52:53		
54-173 (A1)	11-May-10	13:55:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	64	2	11-May-10	13:59:46	39656845	-76173035
54-173 (A1)	11-May-10	13:56:00	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	95	3	11-May-10	13:59:57	39657480	-76172724
54-173 (A1)	11-May-10	13:58:45	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	108	2	11-May-10	13:59:51	39657186	-76172854
54-173 (A1)	11-May-10	13:59:54	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	102	1	11-May-10	13:59:54	39657308	-76172818
54-173 (A1)	11-May-10	14:00:56	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	113	1	11-May-10	14:00:56	39657308	-76172818
54-173 (A1)	11-May-10	14:02:01	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	75	1	11-May-10	14:02:01	39657186	-76172854
54-173 (A1)	11-May-10	14:03:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	1	11-May-10	14:03:00	39656488	-76173233
54-173 (A1)	11-May-10	14:07:17	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	88	1	11-May-10	14:07:17	39656845	-76173035
54-173 (A1)	11-May-10	14:08:18	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	91	1	11-May-10	14:08:18	39656488	-76173233
54-173 (A1)	11-May-10	14:09:35	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	89	1	11-May-10	14:09:35	39657186	-76172854
54-173 (A1)	11-May-10	14:32:28	Rowland Island West (Near-Field)	1	A	87	3	11-May-10	14:33:23	39652629	-76168481
54-173 (A1)	11-May-10	19:41:24	Spencer Island West (Near-Field)	8	1	99	3	11-May-10	19:45:22	39605974	-76130720
54-173 (A1)	11-May-10	19:48:03	Lapidum (West Shore) (Near-Field)	10	0	88	3	11-May-10	19:49:05	39601082	-76126821
54-173 (A1)	11-May-10	19:50:28	Lapidum (West Shore) (Near-Field)	10	0	90	9	11-May-10	19:54:44	39601082	-76126821
54-173 (A1)	14-May-10	9:45:24	Lapidum (West Shore) (Near-Field)	10	0	94	2	14-May-10	9:46:02	39601082	-76126821
54-173 (A1)	14-May-10	9:46:40	Lapidum (West Shore) (Near-Field)	10	0	115	11	14-May-10	9:50:34	39601082	-76126821
54-173 (A1)	14-May-10	9:51:35	Lapidum (West Shore) (Near-Field)	10	0	148	17	14-May-10	9:56:03	39601082	-76126821
54-173 (A1)	14-May-10	9:57:09	Lapidum (West Shore) (Near-Field)	10	0	102	10	14-May-10	10:01:12	39601082	-76126821
54-173 (A1)	14-May-10	10:04:10	Lapidum (West Shore) (Near-Field)	10	0	63	3	14-May-10	10:06:25	39601082	-76126821
54-173 (A1)	14-May-10	10:04:17	Spencer Island West (Near-Field)	8	1	74	2	14-May-10	10:06:53	39605974	-76130720
54-173 (A1)	14-May-10	10:07:03	Lapidum (West Shore) (Near-Field)	10	0	74	3	14-May-10	10:10:12	39601082	-76126821
54-173 (A1)	14-May-10	10:09:28	Spencer Island West (Near-Field)	8	1	84	3	14-May-10	10:12:00	39605974	-76130720
54-173 (A1)	14-May-10	10:11:51	Lapidum (West Shore) (Near-Field)	10	0	62	1	14-May-10	10:11:51	39601082	-76126821
54-173 (A1)	14-May-10	10:14:09	Spencer Island West (Near-Field)	8	1	132	8	14-May-10	10:18:29	39605974	-76130720
54-173 (A1)	14-May-10	10:19:44	Spencer Island West (Near-Field)	8	1	98	7	14-May-10	10:23:14	39605974	-76130720
54-173 (A1)	14-May-10	10:24:29	Spencer Island West (Near-Field)	8	1	97	1	14-May-10	10:24:29	39605974	-76130720
54-173 (A1)	14-May-10	14:46:20	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	99	3	14-May-10	14:50:32	39656488	-76173233
54-173 (A1)	14-May-10	14:46:26	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	133	1	14-May-10	14:46:26	39656845	-76173035
54-173 (A1)	14-May-10	14:49:23	Conowingo Tailrace Units 1-7 Master	17	A	76	1	14-May-10	14:49:23		
54-173 (A1)	14-May-10	14:50:27	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	118	1	14-May-10	14:50:27	39656015	-76173489
54-173 (A1)	14-May-10	14:52:34	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	107	2	14-May-10	14:55:47	39656015	-76173489
54-173 (A1)	14-May-10	14:52:46	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	156	1	14-May-10	14:52:46	39656845	-76173035
54-173 (A1)	14-May-10	14:53:45	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	123	2	14-May-10	14:55:52	39656488	-76173233
54-173 (A1)	14-May-10	14:57:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	104	1	14-May-10	14:57:00	39656488	-76173233
54-173 (A1)	14-May-10	16:45:30	Rowland Island West (Near-Field)	0	2	61	2	14-May-10	16:46:42	39652629	-76168481
54-173 (A1)	14-May-10	22:00:23	Rowland Island West (Near-Field)	0	2	56	6	14-May-10	22:07:59	39652629	-76168481
54-173 (A1)	15-May-10	5:41:51	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	95	1	15-May-10	5:41:51	39656488	-76173233
54-173 (A1)	15-May-10	5:45:06	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	91	5	15-May-10	5:49:23	39656488	-76173233
54-173 (A1)	15-May-10	5:46:14	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	104	4	15-May-10	5:49:28	39656845	-76173035
54-173 (A1)	15-May-10	5:49:32	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	59	1	15-May-10	5:49:32	39657186	-76172854
54-173 (A1)	15-May-10	5:51:20	Conowingo Tailrace Units 1-7 Master	17	A	64	1	15-May-10	5:51:20		
54-173 (A1)	15-May-10	5:51:24	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	63	1	15-May-10	5:51:24	39656015	-76173489
54-173 (A1)	15-May-10	5:51:28	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	103	2	15-May-10	5:52:32	39656488	-76173233

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-173 (A1)	15-May-10	5:51:33	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	100	3	15-May-10	5:54:44	39656845	-76173035
54-173 (A1)	15-May-10	5:51:36	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	94	1	15-May-10	5:51:36	39657186	-76172854
54-173 (A1)	15-May-10	6:16:31	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	69	1	15-May-10	6:16:31	39656845	-76173035
54-173 (A1)	15-May-10	6:23:13	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	126	2	15-May-10	6:24:16	39656015	-76173489
54-173 (A1)	15-May-10	6:23:21	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	101	2	15-May-10	6:24:24	39656845	-76173035
54-173 (A1)	15-May-10	6:25:19	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	107	3	15-May-10	6:29:16	39656015	-76173489
54-173 (A1)	15-May-10	6:25:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	138	3	15-May-10	6:29:20	39656488	-76173233
54-173 (A1)	15-May-10	6:25:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	105	2	15-May-10	6:26:31	39656845	-76173035
54-173 (A1)	15-May-10	6:30:13	Conowingo Tailrace Units 1-7 Master	17	A	85	1	15-May-10	6:30:13		
54-173 (A1)	15-May-10	6:30:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	150	5	15-May-10	6:34:24	39656845	-76173035
54-173 (A1)	15-May-10	6:31:17	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	64	1	15-May-10	6:31:17	39656015	-76173489
54-173 (A1)	15-May-10	6:31:21	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	140	4	15-May-10	6:34:19	39656488	-76173233
54-173 (A1)	15-May-10	6:32:28	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	82	2	15-May-10	6:33:28	39657186	-76172854
54-173 (A1)	15-May-10	6:35:20	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	134	4	15-May-10	6:39:38	39656488	-76173233
54-173 (A1)	15-May-10	6:35:25	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	119	4	15-May-10	6:38:38	39656845	-76173035
54-173 (A1)	15-May-10	6:37:19	Conowingo Tailrace Units 1-7 Master	17	A	56	1	15-May-10	6:37:19		
54-173 (A1)	15-May-10	6:38:26	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	125	2	15-May-10	6:39:33	39656015	-76173489
54-173 (A1)	15-May-10	6:40:40	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	95	2	15-May-10	6:41:52	39656015	-76173489
54-173 (A1)	15-May-10	6:40:45	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	103	2	15-May-10	6:42:56	39656488	-76173233
54-173 (A1)	15-May-10	6:43:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	146	2	15-May-10	6:45:03	39656845	-76173035
54-173 (A1)	15-May-10	6:43:06	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	94	2	15-May-10	6:45:08	39657186	-76172854
54-173 (A1)	15-May-10	6:47:11	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	96	2	15-May-10	6:49:24	39656845	-76173035
54-173 (A1)	15-May-10	6:49:29	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	138	1	15-May-10	6:49:29	39657186	-76172854
54-173 (A1)	15-May-10	6:54:35	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	73	1	15-May-10	6:54:35	39657186	-76172854
54-173 (A1)	15-May-10	8:20:58	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	80	1	15-May-10	8:20:58	39656845	-76173035
54-173 (A1)	15-May-10	8:28:52	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	93	1	15-May-10	8:28:52	39656845	-76173035
54-173 (A1)	15-May-10	8:41:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	79	1	15-May-10	8:41:05	39656845	-76173035
54-173 (A1)	15-May-10	12:47:53	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	98	3	15-May-10	12:52:12	39656845	-76173035
54-173 (A1)	15-May-10	12:52:18	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	95	1	15-May-10	12:52:18	39657186	-76172854
54-173 (A1)	15-May-10	14:44:16	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	152	3	15-May-10	14:47:23	39656845	-76173035
54-173 (A1)	15-May-10	14:44:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	132	3	15-May-10	14:46:23	39657186	-76172854
54-173 (A1)	15-May-10	14:45:15	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	79	1	15-May-10	14:45:15	39656488	-76173233
54-173 (A1)	15-May-10	14:47:13	Conowingo Tailrace Units 1-7 Master	17	A	79	1	15-May-10	14:47:13		
54-173 (A1)	15-May-10	14:48:32	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	149	2	15-May-10	14:49:36	39657186	-76172854
54-173 (A1)	15-May-10	14:49:22	Conowingo Tailrace Units 1-7 Master	17	A	105	2	15-May-10	14:50:28		
54-173 (A1)	15-May-10	14:49:28	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	151	2	15-May-10	14:50:35	39656488	-76173233
54-173 (A1)	15-May-10	14:49:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	157	3	15-May-10	14:51:44	39656845	-76173035
54-173 (A1)	15-May-10	14:53:48	Conowingo Tailrace Units 1-7 Master	17	A	143	1	15-May-10	14:53:48		
54-173 (A1)	15-May-10	14:53:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	157	2	15-May-10	14:57:16	39656845	-76173035
54-173 (A1)	15-May-10	14:55:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	129	2	15-May-10	14:56:11	39656488	-76173233
54-173 (A1)	15-May-10	14:57:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	115	1	15-May-10	14:57:20	39657186	-76172854
54-173 (A1)	15-May-10	14:58:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	83	1	15-May-10	14:58:22	39656488	-76173233
54-173 (A1)	15-May-10	15:05:39	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	109	2	15-May-10	15:07:38	39656845	-76173035
54-173 (A1)	15-May-10	15:07:34	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	117	1	15-May-10	15:07:34	39656488	-76173233
54-173 (A1)	15-May-10	15:08:38	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	95	3	15-May-10	15:12:43	39656488	-76173233
54-173 (A1)	15-May-10	15:08:42	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	108	2	15-May-10	15:12:47	39656845	-76173035
54-173 (A1)	16-May-10	7:32:48	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	106	1	16-May-10	7:32:48	39656015	-76173489
54-173 (A1)	16-May-10	7:32:52	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	140	2	16-May-10	7:34:02	39656488	-76173233
54-173 (A1)	16-May-10	7:32:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	125	3	16-May-10	7:35:22	39656845	-76173035
54-173 (A1)	16-May-10	7:33:55	Conowingo Tailrace Units 1-7 Master	17	A	75	1	16-May-10	7:33:55		
54-173 (A1)	16-May-10	7:35:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	141	2	16-May-10	7:36:41	39657186	-76172854
54-173 (A1)	16-May-10	7:36:17	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	139	1	16-May-10	7:36:17	39657308	-76172818
54-173 (A1)	16-May-10	7:37:52	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	126	2	16-May-10	7:39:00	39656488	-76173233
54-173 (A1)	16-May-10	7:37:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	162	4	16-May-10	7:41:13	39656845	-76173035
54-173 (A1)	16-May-10	7:38:03	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	89	4	16-May-10	7:42:27	39657186	-76172854
54-173 (A1)	16-May-10	7:43:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	81	2	16-May-10	7:44:30	39656488	-76173233
54-173 (A1)	16-May-10	7:43:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	130	4	16-May-10	7:46:52	39656845	-76173035
54-173 (A1)	16-May-10	7:43:35	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	130	2	16-May-10	7:44:41	39657186	-76172854
54-173 (A1)	16-May-10	8:58:47	Rowland Island West (Near-Field)	0	2	88	14	16-May-10	9:07:56	39652629	-76168481
54-173 (A1)	16-May-10	9:08:47	Rowland Island West (Near-Field)	0	2	125	15	16-May-10	9:18:22	39652629	-76168481
54-173 (A1)	16-May-10	9:18:47	Rowland Island West (Near-Field)	0	2	80	17	16-May-10	9:28:44	39652629	-76168481
54-173 (A1)	16-May-10	9:28:47	Rowland Island West (Near-Field)	0	2	106	16	16-May-10	9:38:24	39652629	-76168481



<b>Fish</b>	<b>StartDate</b>	<b>StartTime</b>	<b>Location</b>	<b>Rec.</b>	<b>Ant.</b>	<b>Pwr.</b>	<b>Eve.</b>	<b>StopDate</b>	<b>StopTime</b>	<b>Lat.</b>	<b>Long.</b>
54-173 (A1)	16-May-10	9:38:50	Rowland Island West (Near-Field)	0	2	113	15	16-May-10	9:48:34	39652629	-76168481
54-173 (A1)	16-May-10	9:48:56	Rowland Island West (Near-Field)	0	2	130	23	16-May-10	9:58:11	39652629	-76168481
54-173 (A1)	16-May-10	9:59:02	Rowland Island West (Near-Field)	0	2	158	14	16-May-10	10:07:27	39652629	-76168481
54-173 (A1)	16-May-10	13:00:41	Rowland Island West (Near-Field)	0	2	98	10	16-May-10	13:09:57	39652629	-76168481
54-173 (A1)	16-May-10	13:13:39	Rowland Island West (Near-Field)	0	2	152	4	16-May-10	13:16:52	39652629	-76168481
54-173 (A1)	16-May-10	15:17:20	Rowland Island West (Near-Field)	0	2	84	1	16-May-10	15:17:20	39652629	-76168481
54-173 (A1)	16-May-10	16:58:17	Spencer Island West (Near-Field)	8	1	86	6	16-May-10	17:02:07	39605974	-76130720
54-173 (A1)	16-May-10	17:03:00	Spencer Island West (Near-Field)	8	1	82	1	16-May-10	17:03:00	39605974	-76130720
54-173 (A1)	16-May-10	17:03:50	Lapidum (West Shore) (Near-Field)	10	0	68	7	16-May-10	17:06:28	39601082	-76126821
54-173 (A1)	16-May-10	17:07:02	Lapidum (West Shore) (Near-Field)	10	0	80	10	16-May-10	17:10:15	39601082	-76126821

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-179 (A1)	28-Apr-10	11:35:00	Lapidum Boat Launch					28-Apr-10	11:35:00	39598007	-76174174
54-179 (A1)	07-May-10	15:00:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	55	1	07-May-10	15:00:28	39656845	-76173035
54-179 (A1)	13-May-10	19:20:00	Mid-River slightly East and Downstream of Spencer	-1		0	1			39604333	-76124350
54-179 (A1)	14-May-10	2:30:10	Spencer Island West (Near-Field)	8	1	59	1	14-May-10	2:30:10	39605974	-76130720
54-179 (A1)	14-May-10	2:47:22	Spencer Island West (Near-Field)	8	1	81	1	14-May-10	2:47:22	39605974	-76130720
54-179 (A1)	14-May-10	2:54:51	Spencer Island West (Near-Field)	8	1	73	1	14-May-10	2:54:51	39605974	-76130720
54-179 (A1)	14-May-10	3:18:19	Spencer Island West (Near-Field)	8	1	81	1	14-May-10	3:18:19	39605974	-76130720
54-179 (A1)	14-May-10	3:46:33	Spencer Island West (Near-Field)	8	1	79	1	14-May-10	3:46:33	39605974	-76130720
54-179 (A1)	14-May-10	3:47:27	Spencer Island West (Near-Field)	8	1	94	3	14-May-10	3:50:07	39605974	-76130720
54-179 (A1)	14-May-10	4:10:00	Spencer Island West (Near-Field)	8	1	77	1	14-May-10	4:10:00	39605974	-76130720
54-179 (A1)	14-May-10	4:30:19	Spencer Island West (Near-Field)	8	1	57	1	14-May-10	4:30:19	39605974	-76130720
54-179 (A1)	14-May-10	4:36:10	Spencer Island West (Near-Field)	8	1	77	1	14-May-10	4:36:10	39605974	-76130720
54-179 (A1)	14-May-10	5:10:58	Spencer Island West (Near-Field)	8	1	65	1	14-May-10	5:10:58	39605974	-76130720
54-179 (A1)	14-May-10	5:12:16	Spencer Island West (Near-Field)	8	1	94	5	14-May-10	5:15:19	39605974	-76130720
54-179 (A1)	14-May-10	5:18:41	Spencer Island West (Near-Field)	8	1	97	3	14-May-10	5:20:24	39605974	-76130720
54-179 (A1)	14-May-10	5:22:29	Spencer Island West (Near-Field)	8	1	108	1	14-May-10	5:22:29	39605974	-76130720
54-179 (A1)	14-May-10	5:35:52	Lapidum (West Shore) (Near-Field)	10	0	89	1	14-May-10	5:35:52	39601082	-76126821
54-179 (A1)	14-May-10	5:40:13	Lapidum (West Shore) (Near-Field)	10	0	74	1	14-May-10	5:40:13	39601082	-76126821
54-179 (A1)	14-May-10	10:09:45	Rowland Island West (Near-Field)	0	2	75	11	14-May-10	10:18:35	39652629	-76168481
54-179 (A1)	14-May-10	10:22:35	Rowland Island West (Near-Field)	0	2	71	1	14-May-10	10:22:35	39652629	-76168481
54-179 (A1)	14-May-10	12:04:05	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	55	1	14-May-10	12:04:05	39657186	-76172854
54-179 (A1)	14-May-10	12:05:11	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	72	1	14-May-10	12:05:11	39657308	-76172818
54-179 (A1)	14-May-10	12:08:11	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	106	3	14-May-10	12:10:17	39657186	-76172854
54-179 (A1)	14-May-10	12:08:56	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	73	2	14-May-10	12:09:52	39657308	-76172818
54-179 (A1)	14-May-10	12:09:56	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	75	1	14-May-10	12:09:56	39657480	-76172724
54-179 (A1)	14-May-10	12:10:10	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	100	1	14-May-10	12:10:10	39656845	-76173035
54-179 (A1)	14-May-10	12:11:19	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	119	2	14-May-10	12:15:19	39657186	-76172854
54-179 (A1)	14-May-10	12:11:48	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	86	5	14-May-10	12:15:33	39657480	-76172724
54-179 (A1)	14-May-10	12:15:14	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	70	1	14-May-10	12:15:14	39656845	-76173035
54-179 (A1)	14-May-10	12:16:19	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	96	2	14-May-10	12:17:19	39657186	-76172854
54-179 (A1)	14-May-10	12:17:21	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	136	1	14-May-10	12:17:21	39657308	-76172818
54-179 (A1)	14-May-10	12:20:17	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	123	1	14-May-10	12:20:17	39656845	-76173035
54-179 (A1)	14-May-10	12:22:21	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	141	2	14-May-10	12:24:17	39656845	-76173035
54-179 (A1)	14-May-10	12:25:12	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	154	1	14-May-10	12:25:12	39656488	-76173233
54-179 (A1)	14-May-10	12:25:18	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	118	1	14-May-10	12:25:18	39657186	-76172854
54-179 (A1)	14-May-10	12:26:12	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	129	3	14-May-10	12:28:06	39656845	-76173035
54-179 (A1)	14-May-10	12:27:00	Conowingo Tailrace Units 1-7 Master	17	A	109	3	14-May-10	12:29:56		
54-179 (A1)	14-May-10	12:28:10	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	174	2	14-May-10	12:29:11	39657186	-76172854
54-179 (A1)	14-May-10	12:30:12	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	114	1	14-May-10	12:30:12	39657308	-76172818
54-179 (A1)	14-May-10	12:31:03	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	168	4	14-May-10	12:34:06	39656845	-76173035
54-179 (A1)	14-May-10	12:31:07	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	169	1	14-May-10	12:31:07	39657186	-76172854
54-179 (A1)	14-May-10	12:31:52	Conowingo Tailrace Units 1-7 Master	17	A	137	1	14-May-10	12:31:52		
54-179 (A1)	14-May-10	12:31:56	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	55	1	14-May-10	12:31:56	39656015	-76173489
54-179 (A1)	14-May-10	12:32:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	116	3	14-May-10	12:35:03	39656488	-76173233
54-179 (A1)	14-May-10	12:35:58	Conowingo Tailrace Units 1-7 Master	17	A	70	2	14-May-10	12:39:05		
54-179 (A1)	14-May-10	12:37:05	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	195	2	14-May-10	12:38:06	39656488	-76173233
54-179 (A1)	14-May-10	12:38:11	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	165	1	14-May-10	12:38:11	39656845	-76173035
54-179 (A1)	14-May-10	12:39:22	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	124	1	14-May-10	12:39:22	39657186	-76172854
54-179 (A1)	14-May-10	12:41:18	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	140	2	14-May-10	12:45:30	39656845	-76173035
54-179 (A1)	14-May-10	12:43:30	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	123	2	14-May-10	12:44:33	39657186	-76172854
54-179 (A1)	14-May-10	12:46:29	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	103	2	14-May-10	12:49:41	39656488	-76173233
54-179 (A1)	14-May-10	12:46:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	154	3	14-May-10	12:49:46	39656845	-76173035
54-179 (A1)	14-May-10	12:46:39	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	124	2	14-May-10	12:49:53	39657186	-76172854
54-179 (A1)	14-May-10	12:50:42	Conowingo Tailrace Units 1-7 Master	17	A	119	2	14-May-10	12:51:51		
54-179 (A1)	14-May-10	12:51:04	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	113	3	14-May-10	12:54:22	39657186	-76172854
54-179 (A1)	14-May-10	12:52:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	128	2	14-May-10	12:54:11	39656488	-76173233
54-179 (A1)	14-May-10	12:56:26	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	113	4	14-May-10	12:59:37	39656488	-76173233
54-179 (A1)	14-May-10	12:56:41	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	82	1	14-May-10	12:56:41	39657186	-76172854
54-179 (A1)	14-May-10	14:42:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	79	1	14-May-10	14:42:24	39656845	-76173035
54-179 (A1)	14-May-10	14:44:09	Conowingo Tailrace Units 1-7 Master	17	A	63	1	14-May-10	14:44:09		
54-179 (A1)	14-May-10	14:44:12	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	135	2	14-May-10	14:45:13	39656015	-76173489
54-179 (A1)	14-May-10	14:44:18	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	167	1	14-May-10	14:44:18	39656488	-76173233
54-179 (A1)	14-May-10	14:46:20	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	86	1	14-May-10	14:46:20	39656488	-76173233
54-179 (A1)	14-May-10	14:51:35	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	123	4	14-May-10	14:55:52	39656488	-76173233
54-179 (A1)	14-May-10	14:53:40	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	56	1	14-May-10	14:53:40	39656015	-76173489

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-179 (A1)	14-May-10	14:57:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	87	1	14-May-10	14:57:05	39656845	-76173035
54-179 (A1)	14-May-10	14:58:09	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	95	1	14-May-10	14:58:09	39656488	-76173233
54-179 (A1)	14-May-10	15:01:22	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	152	1	14-May-10	15:01:22	39656015	-76173489
54-179 (A1)	14-May-10	15:01:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	74	2	14-May-10	15:03:42	39656845	-76173035
54-179 (A1)	14-May-10	15:02:32	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	139	1	14-May-10	15:02:32	39656488	-76173233
54-179 (A1)	14-May-10	15:03:47	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	66	1	14-May-10	15:03:47	39657186	-76172854
54-179 (A1)	14-May-10	15:16:32	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	107	3	14-May-10	15:21:02	39656015	-76173489
54-179 (A1)	14-May-10	15:16:37	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	111	2	14-May-10	15:20:00	39656488	-76173233
54-179 (A1)	14-May-10	15:16:47	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	72	1	14-May-10	15:16:47	39657186	-76172854
54-179 (A1)	14-May-10	15:22:06	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	124	2	14-May-10	15:25:39	39656015	-76173489
54-179 (A1)	14-May-10	15:23:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	2	14-May-10	15:24:34	39656488	-76173233
54-179 (A1)	14-May-10	15:23:29	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	116	1	14-May-10	15:23:29	39656845	-76173035
54-179 (A1)	14-May-10	15:23:33	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	62	1	14-May-10	15:23:33	39657186	-76172854
54-179 (A1)	14-May-10	15:26:44	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	119	2	14-May-10	15:27:51	39656015	-76173489
54-179 (A1)	14-May-10	15:26:48	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	101	2	14-May-10	15:27:56	39656488	-76173233
54-179 (A1)	14-May-10	15:28:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	79	1	14-May-10	15:28:02	39656845	-76173035
54-179 (A1)	14-May-10	15:33:12	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	165	3	14-May-10	15:35:22	39656488	-76173233
54-179 (A1)	14-May-10	15:33:17	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	2	14-May-10	15:35:29	39656845	-76173035
54-179 (A1)	14-May-10	15:36:23	Conowingo Tailrace Units 1-7 Master	17	A	96	1	14-May-10	15:36:23		
54-179 (A1)	14-May-10	15:36:26	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	130	2	14-May-10	15:38:45	39656015	-76173489
54-179 (A1)	14-May-10	15:44:55	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	166	1	14-May-10	15:44:55	39656015	-76173489
54-179 (A1)	14-May-10	15:46:03	Conowingo Tailrace Units 1-7 Master	17	A	70	1	14-May-10	15:46:03		
54-179 (A1)	14-May-10	15:49:31	Conowingo Tailrace Units 1-7 Master	17	A	57	1	14-May-10	15:49:31		
54-179 (A1)	14-May-10	15:49:41	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	156	1	14-May-10	15:49:41	39656488	-76173233
54-179 (A1)	14-May-10	15:52:57	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	69	1	14-May-10	15:52:57	39656488	-76173233
54-179 (A1)	14-May-10	15:56:31	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	114	1	14-May-10	15:56:31	39656488	-76173233
54-179 (A1)	14-May-10	15:57:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	93	3	14-May-10	16:01:03	39656845	-76173035
54-179 (A1)	14-May-10	15:58:38	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	142	2	14-May-10	15:59:46	39656015	-76173489
54-179 (A1)	14-May-10	16:05:19	Conowingo Tailrace Units 1-7 Master	17	A	64	1	14-May-10	16:05:19		
54-179 (A1)	14-May-10	16:06:35	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	94	1	14-May-10	16:06:35	39656488	-76173233
54-179 (A1)	14-May-10	16:08:57	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	95	1	14-May-10	16:08:57	39657186	-76172854
54-179 (A1)	14-May-10	16:10:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	103	1	14-May-10	16:10:00	39656845	-76173035
54-179 (A1)	14-May-10	16:12:09	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	81	1	14-May-10	16:12:09	39656488	-76173233
54-179 (A1)	14-May-10	16:12:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	129	2	14-May-10	16:14:32	39656845	-76173035
54-179 (A1)	14-May-10	16:12:19	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	103	2	14-May-10	16:13:31	39657186	-76172854
54-179 (A1)	14-May-10	16:13:22	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	96	1	14-May-10	16:13:22	39657308	-76172818
54-179 (A1)	14-May-10	16:16:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	176	4	14-May-10	16:21:25	39656845	-76173035
54-179 (A1)	14-May-10	16:17:43	Conowingo Tailrace Units 1-7 Master	17	A	97	1	14-May-10	16:17:43		
54-179 (A1)	14-May-10	16:17:57	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	142	1	14-May-10	16:17:57	39657186	-76172854
54-179 (A1)	14-May-10	16:22:36	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	123	3	14-May-10	16:26:04	39656488	-76173233
54-179 (A1)	14-May-10	16:26:00	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	140	1	14-May-10	16:26:00	39656015	-76173489
54-179 (A1)	14-May-10	16:27:14	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	109	2	14-May-10	16:28:25	39656488	-76173233
54-179 (A1)	14-May-10	16:28:43	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	106	2	14-May-10	16:29:53	39656845	-76173035
54-179 (A1)	14-May-10	16:34:13	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	132	3	14-May-10	16:36:24	39656488	-76173233
54-179 (A1)	14-May-10	16:34:17	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	152	1	14-May-10	16:34:17	39656845	-76173035
54-179 (A1)	14-May-10	16:34:22	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	75	1	14-May-10	16:34:22	39657186	-76172854
54-179 (A1)	14-May-10	16:37:22	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	80	1	14-May-10	16:37:22	39656015	-76173489
54-179 (A1)	14-May-10	16:37:25	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	149	5	14-May-10	16:41:24	39656488	-76173233
54-179 (A1)	14-May-10	16:37:29	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	139	2	14-May-10	16:39:28	39656845	-76173035
54-179 (A1)	14-May-10	16:42:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	99	1	14-May-10	16:42:24	39656845	-76173035
54-179 (A1)	14-May-10	16:43:13	Conowingo Tailrace Units 1-7 Master	17	A	96	1	14-May-10	16:43:13		
54-179 (A1)	14-May-10	16:43:21	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	99	2	14-May-10	16:44:21	39656488	-76173233
54-179 (A1)	14-May-10	16:44:16	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	173	2	14-May-10	16:45:17	39656015	-76173489
54-179 (A1)	14-May-10	16:47:20	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	138	2	14-May-10	16:48:24	39656015	-76173489
54-179 (A1)	14-May-10	16:47:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	142	3	14-May-10	16:50:35	39656488	-76173233
54-179 (A1)	14-May-10	16:47:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	97	3	14-May-10	16:50:39	39656845	-76173035
54-179 (A1)	14-May-10	16:51:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	158	1	14-May-10	16:51:48	39657186	-76172854
54-179 (A1)	14-May-10	16:52:49	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	81	1	14-May-10	16:52:49	39657308	-76172818
54-179 (A1)	14-May-10	16:52:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	57	1	14-May-10	16:52:54	39657186	-76172854
54-179 (A1)	14-May-10	17:05:56	Conowingo Tailrace Units 1-7 Master	17	A	155	1	14-May-10	17:05:56		
54-179 (A1)	14-May-10	17:06:12	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	185	1	14-May-10	17:06:12	39656845	-76173035
54-179 (A1)	14-May-10	17:08:16	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	117	2	14-May-10	17:10:16	39656488	-76173233
54-179 (A1)	14-May-10	17:12:28	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	129	1	14-May-10	17:12:28	39656488	-76173233
54-179 (A1)	14-May-10	17:12:38	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	57	1	14-May-10	17:12:38	39657186	-76172854
54-179 (A1)	14-May-10	17:13:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	163	2	14-May-10	17:16:55	39656845	-76173035

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-179 (A1)	14-May-10	17:19:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	122	1	14-May-10	17:19:16	39657186	-76172854
54-179 (A1)	14-May-10	17:20:31	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	114	1	14-May-10	17:20:31	39657480	-76172724
54-179 (A1)	14-May-10	17:21:30	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	90	1	14-May-10	17:21:30	39657674	-76172621
54-179 (A1)	14-May-10	17:22:48	"C" Gate Aerial	2	A	94	1	14-May-10	17:22:48	39658449	-76173476
54-179 (A1)	14-May-10	17:23:00	"C" Gate Aerial	2	A	102	1	14-May-10	17:23:00	39658449	-76173476
54-179 (A1)	14-May-10	17:23:13	"C" Gate Aerial	2	A	85	1	14-May-10	17:23:13	39658449	-76173476
54-179 (A1)	14-May-10	17:23:19	"C" Gate Aerial	2	A	95	1	14-May-10	17:23:19	39658449	-76173476
54-179 (A1)	14-May-10	17:23:26	"C" Gate Aerial	2	A	114	1	14-May-10	17:23:26	39658449	-76173476
54-179 (A1)	14-May-10	17:23:33	"C" Gate Aerial	2	A	54	1	14-May-10	17:23:33	39658449	-76173476
54-179 (A1)	14-May-10	17:24:03	"C" Gate Aerial	2	A	56	1	14-May-10	17:24:03	39658449	-76173476
54-179 (A1)	14-May-10	17:24:15	"C" Gate Aerial	2	A	89	1	14-May-10	17:24:15	39658449	-76173476
54-179 (A1)	14-May-10	17:24:22	"C" Gate Aerial	2	A	64	1	14-May-10	17:24:22	39658449	-76173476
54-179 (A1)	14-May-10	17:24:29	"C" Gate Aerial	2	A	56	1	14-May-10	17:24:29	39658449	-76173476
54-179 (A1)	14-May-10	17:24:41	"C" Gate Aerial	2	A	85	1	14-May-10	17:24:41	39658449	-76173476
54-179 (A1)	14-May-10	17:24:54	"C" Gate Aerial	2	A	56	1	14-May-10	17:24:54	39658449	-76173476
54-179 (A1)	14-May-10	17:25:01	"C" Gate Aerial	2	A	131	1	14-May-10	17:25:01	39658449	-76173476
54-179 (A1)	14-May-10	17:25:07	"C" Gate Aerial	2	A	73	1	14-May-10	17:25:07	39658449	-76173476
54-179 (A1)	14-May-10	17:25:14	"C" Gate Aerial	2	A	117	1	14-May-10	17:25:14	39658449	-76173476
54-179 (A1)	14-May-10	17:25:32	"C" Gate Aerial	2	A	153	1	14-May-10	17:25:32	39658449	-76173476
54-179 (A1)	14-May-10	17:25:39	"C" Gate Aerial	2	A	152	1	14-May-10	17:25:39	39658449	-76173476
54-179 (A1)	14-May-10	17:25:52	"C" Gate Aerial	2	A	88	1	14-May-10	17:25:52	39658449	-76173476
54-179 (A1)	14-May-10	17:26:05	"C" Gate Aerial	2	A	163	1	14-May-10	17:26:05	39658449	-76173476
54-179 (A1)	14-May-10	17:26:06	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	98	1	14-May-10	17:26:06	39657674	-76172621
54-179 (A1)	14-May-10	17:26:12	"C" Gate Aerial	2	A	132	1	14-May-10	17:26:12	39658449	-76173476
54-179 (A1)	14-May-10	17:26:36	"C" Gate Aerial	2	A	121	1	14-May-10	17:26:36	39658449	-76173476
54-179 (A1)	14-May-10	17:26:43	"C" Gate Aerial	2	A	123	1	14-May-10	17:26:43	39658449	-76173476
54-179 (A1)	14-May-10	17:26:55	"C" Gate Aerial	2	A	90	1	14-May-10	17:26:55	39658449	-76173476
54-179 (A1)	14-May-10	17:27:02	"C" Gate Aerial	2	A	74	1	14-May-10	17:27:02	39658449	-76173476
54-179 (A1)	14-May-10	17:27:09	"C" Gate Aerial	2	A	140	1	14-May-10	17:27:09	39658449	-76173476
54-179 (A1)	14-May-10	17:33:54	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	80	1	14-May-10	17:33:54	39657186	-76172854
54-179 (A1)	14-May-10	17:34:50	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	89	3	14-May-10	17:36:49	39656488	-76173233
54-179 (A1)	14-May-10	17:40:57	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	92	1	14-May-10	17:40:57	39656015	-76173489
54-179 (A1)	14-May-10	17:42:02	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	139	1	14-May-10	17:42:02	39656488	-76173233
54-179 (A1)	14-May-10	17:44:10	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	163	2	14-May-10	17:45:13	39656845	-76173035
54-179 (A1)	14-May-10	17:44:15	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	137	2	14-May-10	17:45:18	39657186	-76172854
54-179 (A1)	14-May-10	17:47:14	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	132	1	14-May-10	17:47:14	39656488	-76173233
54-179 (A1)	14-May-10	17:48:13	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	135	1	14-May-10	17:48:13	39656015	-76173489
54-179 (A1)	14-May-10	17:50:25	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	1	14-May-10	17:50:25	39656488	-76173233
54-179 (A1)	14-May-10	17:50:31	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	148	2	14-May-10	17:51:32	39656845	-76173035
54-179 (A1)	14-May-10	17:52:35	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	141	1	14-May-10	17:52:35	39656845	-76173035
54-179 (A1)	14-May-10	17:54:28	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	88	1	14-May-10	17:54:28	39657308	-76172818
54-179 (A1)	14-May-10	17:54:39	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	123	1	14-May-10	17:54:39	39657186	-76172854
54-179 (A1)	14-May-10	18:09:14	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	74	1	14-May-10	18:09:14	39657308	-76172818
54-179 (A1)	14-May-10	18:09:53	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	104	1	14-May-10	18:09:53	39657186	-76172854
54-179 (A1)	14-May-10	18:13:44	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	62	1	14-May-10	18:13:44	39657186	-76172854
54-179 (A1)	14-May-10	18:29:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	116	1	14-May-10	18:29:50	39656845	-76173035
54-179 (A1)	14-May-10	18:32:39	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	137	4	14-May-10	18:37:29	39656488	-76173233
54-179 (A1)	14-May-10	18:33:34	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	119	1	14-May-10	18:33:34	39656015	-76173489
54-179 (A1)	14-May-10	18:35:35	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	139	3	14-May-10	18:37:33	39656845	-76173035
54-179 (A1)	14-May-10	18:37:22	Conowingo Tailrace Units 1-7 Master	17	A	63	1	14-May-10	18:37:22		
54-179 (A1)	14-May-10	18:39:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	109	2	14-May-10	18:41:16	39656488	-76173233
54-179 (A1)	14-May-10	18:41:20	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	145	2	14-May-10	18:42:16	39656845	-76173035
54-179 (A1)	14-May-10	18:42:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	156	1	14-May-10	18:42:20	39657186	-76172854
54-179 (A1)	14-May-10	18:43:16	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	131	1	14-May-10	18:43:16	39657308	-76172818
54-179 (A1)	14-May-10	18:48:53	Conowingo Tailrace Unit 10 (Mid-Field)	7	3	106	1	14-May-10	18:48:53	39657674	-76172621
54-179 (A1)	16-May-10	21:53:17	Spencer Island West (Near-Field)	8	1	70	2	16-May-10	21:53:43	39605974	-76130720
54-179 (A1)	16-May-10	21:54:09	Spencer Island West (Near-Field)	8	1	110	10	16-May-10	21:58:04	39605974	-76130720
54-179 (A1)	16-May-10	21:59:22	Spencer Island West (Near-Field)	8	1	121	3	16-May-10	22:00:13	39605974	-76130720
54-179 (A1)	16-May-10	22:02:30	Lapidum (West Shore) (Near-Field)	10	0	66	1	16-May-10	22:02:30	39601082	-76126821
54-179 (A1)	16-May-10	22:02:54	Lapidum (West Shore) (Near-Field)	10	0	136	14	16-May-10	22:07:48	39601082	-76126821
54-179 (A1)	16-May-10	22:08:01	Lapidum (West Shore) (Near-Field)	10	0	127	11	16-May-10	22:11:51	39601082	-76126821

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-183 (A1)	28-Apr-10	11:35:00	Lapidum Boat Launch					28-Apr-10	11:35:00	39598007	-76174174
54-183 (A1)	04-May-10	23:57:40	Lapidum (West Shore) (Near-Field)	10	0	72	1	04-May-10	23:57:40	39601082	-76126821
54-183 (A1)	05-May-10	0:10:01	Lapidum (West Shore) (Near-Field)	10	0	117	9	05-May-10	0:13:12	39601082	-76126821
54-183 (A1)	05-May-10	0:14:44	Lapidum (West Shore) (Near-Field)	10	0	120	11	05-May-10	0:17:13	39601082	-76126821
54-183 (A1)	05-May-10	0:19:13	Lapidum (West Shore) (Near-Field)	10	0	103	11	05-May-10	0:23:21	39601082	-76126821
54-183 (A1)	05-May-10	0:23:48	Lapidum (West Shore) (Near-Field)	10	0	109	12	05-May-10	0:28:21	39601082	-76126821
54-183 (A1)	05-May-10	0:29:05	Lapidum (West Shore) (Near-Field)	10	0	104	4	05-May-10	0:32:07	39601082	-76126821
54-183 (A1)	05-May-10	0:33:33	Lapidum (West Shore) (Near-Field)	10	0	98	8	05-May-10	0:38:28	39601082	-76126821
54-183 (A1)	05-May-10	0:38:42	Lapidum (West Shore) (Near-Field)	10	0	78	3	05-May-10	0:40:50	39601082	-76126821
54-183 (A1)	05-May-10	0:44:27	Lapidum (West Shore) (Near-Field)	10	0	67	2	05-May-10	0:47:49	39601082	-76126821
54-183 (A1)	05-May-10	0:51:13	Lapidum (West Shore) (Near-Field)	10	0	66	2	05-May-10	0:51:55	39601082	-76126821
54-183 (A1)	05-May-10	1:18:06	Lapidum (West Shore) (Near-Field)	10	0	98	3	05-May-10	1:18:34	39601082	-76126821
54-183 (A1)	05-May-10	2:28:30	Lapidum (West Shore) (Near-Field)	10	0	66	1	05-May-10	2:28:30	39601082	-76126821
54-183 (A1)	05-May-10	2:33:01	Lapidum (West Shore) (Near-Field)	10	0	76	2	05-May-10	2:33:14	39601082	-76126821
54-183 (A1)	05-May-10	2:36:38	Lapidum (West Shore) (Near-Field)	10	0	79	2	05-May-10	2:38:07	39601082	-76126821
54-183 (A1)	05-May-10	2:39:55	Lapidum (West Shore) (Near-Field)	10	0	91	5	05-May-10	2:43:55	39601082	-76126821
54-183 (A1)	05-May-10	2:44:21	Lapidum (West Shore) (Near-Field)	10	0	91	10	05-May-10	2:47:06	39601082	-76126821
54-183 (A1)	05-May-10	2:53:21	Lapidum (West Shore) (Near-Field)	10	0	88	1	05-May-10	2:53:21	39601082	-76126821
54-183 (A1)	05-May-10	2:54:48	Lapidum (West Shore) (Near-Field)	10	0	89	10	05-May-10	2:58:31	39601082	-76126821
54-183 (A1)	05-May-10	3:01:08	Lapidum (West Shore) (Near-Field)	10	0	87	7	05-May-10	3:04:25	39601082	-76126821
54-183 (A1)	05-May-10	3:04:38	Lapidum (West Shore) (Near-Field)	10	0	91	8	05-May-10	3:09:28	39601082	-76126821
54-183 (A1)	05-May-10	3:09:53	Lapidum (West Shore) (Near-Field)	10	0	100	17	05-May-10	3:14:13	39601082	-76126821
54-183 (A1)	05-May-10	3:14:39	Lapidum (West Shore) (Near-Field)	10	0	101	13	05-May-10	3:19:12	39601082	-76126821
54-183 (A1)	05-May-10	3:19:37	Lapidum (West Shore) (Near-Field)	10	0	98	16	05-May-10	3:24:21	39601082	-76126821
54-183 (A1)	05-May-10	3:24:36	Lapidum (West Shore) (Near-Field)	10	0	91	11	05-May-10	3:29:28	39601082	-76126821
54-183 (A1)	05-May-10	3:29:41	Lapidum (West Shore) (Near-Field)	10	0	100	16	05-May-10	3:34:34	39601082	-76126821
54-183 (A1)	05-May-10	3:34:47	Lapidum (West Shore) (Near-Field)	10	0	108	17	05-May-10	3:39:32	39601082	-76126821
54-183 (A1)	05-May-10	3:39:45	Lapidum (West Shore) (Near-Field)	10	0	118	16	05-May-10	3:44:41	39601082	-76126821
54-183 (A1)	05-May-10	3:44:55	Lapidum (West Shore) (Near-Field)	10	0	122	16	05-May-10	3:49:36	39601082	-76126821
54-183 (A1)	05-May-10	3:49:49	Lapidum (West Shore) (Near-Field)	10	0	114	14	05-May-10	3:54:42	39601082	-76126821
54-183 (A1)	05-May-10	3:54:55	Lapidum (West Shore) (Near-Field)	10	0	93	13	05-May-10	3:59:23	39601082	-76126821
54-183 (A1)	05-May-10	4:00:01	Lapidum (West Shore) (Near-Field)	10	0	95	16	05-May-10	4:04:39	39601082	-76126821
54-183 (A1)	05-May-10	4:04:52	Lapidum (West Shore) (Near-Field)	10	0	88	15	05-May-10	4:09:40	39601082	-76126821
54-183 (A1)	05-May-10	4:10:40	Lapidum (West Shore) (Near-Field)	10	0	104	1	05-May-10	4:10:40	39601082	-76126821
54-183 (A1)	05-May-10	4:20:09	Lapidum (West Shore) (Near-Field)	10	0	80	3	05-May-10	4:23:32	39601082	-76126821
54-183 (A1)	05-May-10	4:25:57	Lapidum (West Shore) (Near-Field)	10	0	68	5	05-May-10	4:28:06	39601082	-76126821
54-183 (A1)	05-May-10	18:08:01	Lapidum (West Shore) (Near-Field)	10	0	76	1	05-May-10	18:08:01	39601082	-76126821
54-183 (A1)	05-May-10	18:11:18	Lapidum (West Shore) (Near-Field)	10	0	58	1	05-May-10	18:11:18	39601082	-76126821
54-183 (A1)	05-May-10	18:25:25	Lapidum (West Shore) (Near-Field)	10	0	81	10	05-May-10	18:29:25	39601082	-76126821
54-183 (A1)	05-May-10	21:51:11	Lapidum (West Shore) (Near-Field)	10	0	67	1	05-May-10	21:51:11	39601082	-76126821
54-183 (A1)	06-May-10	0:22:54	Lapidum (West Shore) (Near-Field)	10	0	68	2	06-May-10	0:23:41	39601082	-76126821
54-183 (A1)	06-May-10	0:33:02	Lapidum (West Shore) (Near-Field)	10	0	75	2	06-May-10	0:36:09	39601082	-76126821
54-183 (A1)	06-May-10	0:48:45	Lapidum (West Shore) (Near-Field)	10	0	85	3	06-May-10	0:50:31	39601082	-76126821
54-183 (A1)	06-May-10	0:52:47	Lapidum (West Shore) (Near-Field)	10	0	93	3	06-May-10	0:55:20	39601082	-76126821
54-183 (A1)	06-May-10	1:00:14	Lapidum (West Shore) (Near-Field)	10	0	106	1	06-May-10	1:00:14	39601082	-76126821
54-183 (A1)	06-May-10	1:03:28	Lapidum (West Shore) (Near-Field)	10	0	86	4	06-May-10	1:05:49	39601082	-76126821
54-183 (A1)	06-May-10	1:07:04	Lapidum (West Shore) (Near-Field)	10	0	133	8	06-May-10	1:10:51	39601082	-76126821
54-183 (A1)	06-May-10	1:11:31	Lapidum (West Shore) (Near-Field)	10	0	143	12	06-May-10	1:15:23	39601082	-76126821
54-183 (A1)	06-May-10	1:16:30	Lapidum (West Shore) (Near-Field)	10	0	99	8	06-May-10	1:21:26	39601082	-76126821
54-183 (A1)	06-May-10	1:21:38	Lapidum (West Shore) (Near-Field)	10	0	84	5	06-May-10	1:25:42	39601082	-76126821
54-183 (A1)	06-May-10	1:26:51	Lapidum (West Shore) (Near-Field)	10	0	85	2	06-May-10	1:27:05	39601082	-76126821
54-183 (A1)	06-May-10	1:34:05	Lapidum (West Shore) (Near-Field)	10	0	81	3	06-May-10	1:34:41	39601082	-76126821
54-183 (A1)	06-May-10	1:37:42	Lapidum (West Shore) (Near-Field)	10	0	98	7	06-May-10	1:40:47	39601082	-76126821
54-183 (A1)	06-May-10	1:44:40	Lapidum (West Shore) (Near-Field)	10	0	69	3	06-May-10	1:45:50	39601082	-76126821
54-183 (A1)	06-May-10	1:49:36	Lapidum (West Shore) (Near-Field)	10	0	95	3	06-May-10	1:50:46	39601082	-76126821
54-183 (A1)	06-May-10	1:54:00	Lapidum (West Shore) (Near-Field)	10	0	81	3	06-May-10	1:56:05	39601082	-76126821
54-183 (A1)	06-May-10	1:56:52	Lapidum (West Shore) (Near-Field)	10	0	74	2	06-May-10	1:57:04	39601082	-76126821
54-183 (A1)	06-May-10	2:02:35	Lapidum (West Shore) (Near-Field)	10	0	75	2	06-May-10	2:02:58	39601082	-76126821
54-183 (A1)	06-May-10	2:10:41	Lapidum (West Shore) (Near-Field)	10	0	82	2	06-May-10	2:10:54	39601082	-76126821
54-183 (A1)	06-May-10	2:17:18	Lapidum (West Shore) (Near-Field)	10	0	95	4	06-May-10	2:17:55	39601082	-76126821
54-183 (A1)	06-May-10	2:24:00	Lapidum (West Shore) (Near-Field)	10	0	85	3	06-May-10	2:24:35	39601082	-76126821
54-183 (A1)	06-May-10	2:29:19	Lapidum (West Shore) (Near-Field)	10	0	73	1	06-May-10	2:29:19	39601082	-76126821
54-183 (A1)	06-May-10	22:07:11	Lapidum (West Shore) (Near-Field)	10	0	100	3	06-May-10	22:07:35	39601082	-76126821
54-183 (A1)	06-May-10	22:10:02	Lapidum (West Shore) (Near-Field)	10	0	93	5	06-May-10	22:12:00	39601082	-76126821
54-183 (A1)	06-May-10	22:15:11	Lapidum (West Shore) (Near-Field)	10	0	82	4	06-May-10	22:18:06	39601082	-76126821



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-183 (A1)	06-May-10	22:19:58	Lapidum (West Shore) (Near-Field)	10	0	113	3	06-May-10	22:22:37	39601082	-76126821
54-183 (A1)	06-May-10	22:23:45	Lapidum (West Shore) (Near-Field)	10	0	84	7	06-May-10	22:28:20	39601082	-76126821
54-183 (A1)	06-May-10	22:29:52	Spencer Island West (Near-Field)	8	1	86	3	06-May-10	22:34:03	39605974	-76130720
54-183 (A1)	06-May-10	22:31:52	Lapidum (West Shore) (Near-Field)	10	0	93	4	06-May-10	22:32:29	39601082	-76126821
54-183 (A1)	06-May-10	22:33:37	Lapidum (West Shore) (Near-Field)	10	0	128	16	06-May-10	22:38:12	39601082	-76126821
54-183 (A1)	06-May-10	22:38:47	Lapidum (West Shore) (Near-Field)	10	0	94	1	06-May-10	22:38:47	39601082	-76126821
54-183 (A1)	06-May-10	22:45:03	Lapidum (West Shore) (Near-Field)	10	0	125	1	06-May-10	22:45:03	39601082	-76126821
54-183 (A1)	06-May-10	22:48:34	Lapidum (West Shore) (Near-Field)	10	0	86	5	06-May-10	22:52:17	39601082	-76126821
54-183 (A1)	06-May-10	22:50:57	Spencer Island West (Near-Field)	8	1	72	1	06-May-10	22:50:57	39605974	-76130720
54-183 (A1)	06-May-10	22:56:18	Spencer Island West (Near-Field)	8	1	56	1	06-May-10	22:56:18	39605974	-76130720
54-183 (A1)	06-May-10	23:05:25	Spencer Island West (Near-Field)	8	1	89	4	06-May-10	23:09:35	39605974	-76130720
54-183 (A1)	06-May-10	23:10:25	Spencer Island West (Near-Field)	8	1	92	4	06-May-10	23:14:36	39605974	-76130720
54-183 (A1)	06-May-10	23:15:03	Spencer Island West (Near-Field)	8	1	130	9	06-May-10	23:19:43	39605974	-76130720
54-183 (A1)	06-May-10	23:23:26	Spencer Island West (Near-Field)	8	1	121	3	06-May-10	23:24:43	39605974	-76130720
54-183 (A1)	06-May-10	23:25:09	Spencer Island West (Near-Field)	8	1	124	10	06-May-10	23:29:50	39605974	-76130720
54-183 (A1)	06-May-10	23:30:17	Spencer Island West (Near-Field)	8	1	123	11	06-May-10	23:34:35	39605974	-76130720
54-183 (A1)	06-May-10	23:35:26	Spencer Island West (Near-Field)	8	1	133	13	06-May-10	23:39:46	39605974	-76130720
54-183 (A1)	06-May-10	23:36:11	Lapidum (West Shore) (Near-Field)	10	0	82	6	06-May-10	23:37:57	39601082	-76126821
54-183 (A1)	06-May-10	23:38:44	Lapidum (West Shore) (Near-Field)	10	0	100	14	06-May-10	23:43:29	39601082	-76126821
54-183 (A1)	06-May-10	23:40:12	Spencer Island West (Near-Field)	8	1	94	9	06-May-10	23:44:52	39605974	-76130720
54-183 (A1)	06-May-10	23:43:41	Lapidum (West Shore) (Near-Field)	10	0	129	21	06-May-10	23:48:30	39601082	-76126821
54-183 (A1)	06-May-10	23:45:18	Spencer Island West (Near-Field)	8	1	88	9	06-May-10	23:49:32	39605974	-76130720
54-183 (A1)	06-May-10	23:48:42	Lapidum (West Shore) (Near-Field)	10	0	137	23	06-May-10	23:53:36	39601082	-76126821
54-183 (A1)	06-May-10	23:50:24	Spencer Island West (Near-Field)	8	1	79	4	06-May-10	23:53:23	39605974	-76130720
54-183 (A1)	06-May-10	23:53:48	Lapidum (West Shore) (Near-Field)	10	0	132	22	06-May-10	23:58:31	39601082	-76126821
54-183 (A1)	06-May-10	23:56:21	Spencer Island West (Near-Field)	8	1	94	4	06-May-10	23:59:44	39605974	-76130720
54-183 (A1)	06-May-10	23:58:43	Lapidum (West Shore) (Near-Field)	10	0	143	20	07-May-10	0:03:31	39601082	-76126821
54-183 (A1)	07-May-10	0:00:10	Spencer Island West (Near-Field)	8	1	80	9	07-May-10	0:04:52	39605974	-76130720
54-183 (A1)	07-May-10	0:03:56	Lapidum (West Shore) (Near-Field)	10	0	137	19	07-May-10	0:08:41	39601082	-76126821
54-183 (A1)	07-May-10	0:05:43	Spencer Island West (Near-Field)	8	1	84	6	07-May-10	0:09:31	39605974	-76130720
54-183 (A1)	07-May-10	0:08:54	Lapidum (West Shore) (Near-Field)	10	0	124	17	07-May-10	0:13:42	39601082	-76126821
54-183 (A1)	07-May-10	0:10:22	Spencer Island West (Near-Field)	8	1	70	7	07-May-10	0:14:36	39605974	-76130720
54-183 (A1)	07-May-10	0:13:54	Lapidum (West Shore) (Near-Field)	10	0	144	20	07-May-10	0:18:28	39601082	-76126821
54-183 (A1)	07-May-10	0:15:03	Spencer Island West (Near-Field)	8	1	76	5	07-May-10	0:18:51	39605974	-76130720
54-183 (A1)	07-May-10	0:19:04	Lapidum (West Shore) (Near-Field)	10	0	154	18	07-May-10	0:23:40	39601082	-76126821
54-183 (A1)	07-May-10	0:20:31	Spencer Island West (Near-Field)	8	1	82	10	07-May-10	0:24:47	39605974	-76130720
54-183 (A1)	07-May-10	0:24:03	Lapidum (West Shore) (Near-Field)	10	0	142	20	07-May-10	0:28:43	39601082	-76126821
54-183 (A1)	07-May-10	0:25:13	Spencer Island West (Near-Field)	8	1	86	5	07-May-10	0:29:50	39605974	-76130720
54-183 (A1)	07-May-10	0:28:55	Lapidum (West Shore) (Near-Field)	10	0	140	19	07-May-10	0:33:35	39601082	-76126821
54-183 (A1)	07-May-10	0:30:16	Spencer Island West (Near-Field)	8	1	74	8	07-May-10	0:34:30	39605974	-76130720
54-183 (A1)	07-May-10	0:34:10	Lapidum (West Shore) (Near-Field)	10	0	131	19	07-May-10	0:38:46	39601082	-76126821
54-183 (A1)	07-May-10	0:36:11	Spencer Island West (Near-Field)	8	1	78	4	07-May-10	0:39:56	39605974	-76130720
54-183 (A1)	07-May-10	0:38:58	Lapidum (West Shore) (Near-Field)	10	0	141	21	07-May-10	0:43:47	39601082	-76126821
54-183 (A1)	07-May-10	0:41:11	Spencer Island West (Near-Field)	8	1	93	11	07-May-10	0:45:04	39605974	-76130720
54-183 (A1)	07-May-10	0:44:00	Lapidum (West Shore) (Near-Field)	10	0	160	22	07-May-10	0:48:51	39601082	-76126821
54-183 (A1)	07-May-10	0:45:54	Spencer Island West (Near-Field)	8	1	82	7	07-May-10	0:49:19	39605974	-76130720
54-183 (A1)	07-May-10	0:49:05	Lapidum (West Shore) (Near-Field)	10	0	142	20	07-May-10	0:53:54	39601082	-76126821
54-183 (A1)	07-May-10	0:50:34	Spencer Island West (Near-Field)	8	1	80	8	07-May-10	0:54:49	39605974	-76130720
54-183 (A1)	07-May-10	0:54:20	Lapidum (West Shore) (Near-Field)	10	0	157	21	07-May-10	0:58:54	39601082	-76126821
54-183 (A1)	07-May-10	0:55:15	Spencer Island West (Near-Field)	8	1	82	4	07-May-10	0:59:50	39605974	-76130720
54-183 (A1)	07-May-10	0:59:06	Lapidum (West Shore) (Near-Field)	10	0	164	23	07-May-10	1:03:51	39601082	-76126821
54-183 (A1)	07-May-10	1:00:16	Spencer Island West (Near-Field)	8	1	68	8	07-May-10	1:04:30	39605974	-76130720
54-183 (A1)	07-May-10	1:04:05	Lapidum (West Shore) (Near-Field)	10	0	173	22	07-May-10	1:08:49	39601082	-76126821
54-183 (A1)	07-May-10	1:05:21	Spencer Island West (Near-Field)	8	1	75	5	07-May-10	1:09:58	39605974	-76130720
54-183 (A1)	07-May-10	1:09:02	Lapidum (West Shore) (Near-Field)	10	0	147	23	07-May-10	1:13:56	39601082	-76126821
54-183 (A1)	07-May-10	1:10:24	Spencer Island West (Near-Field)	8	1	78	8	07-May-10	1:15:04	39605974	-76130720
54-183 (A1)	07-May-10	1:14:08	Lapidum (West Shore) (Near-Field)	10	0	141	21	07-May-10	1:18:33	39601082	-76126821
54-183 (A1)	07-May-10	1:17:35	Spencer Island West (Near-Field)	8	1	104	1	07-May-10	1:17:35	39605974	-76130720
54-183 (A1)	07-May-10	1:19:08	Lapidum (West Shore) (Near-Field)	10	0	157	22	07-May-10	1:24:00	39601082	-76126821
54-183 (A1)	07-May-10	1:20:29	Spencer Island West (Near-Field)	8	1	56	2	07-May-10	1:23:00	39605974	-76130720
54-183 (A1)	07-May-10	1:24:12	Lapidum (West Shore) (Near-Field)	10	0	119	21	07-May-10	1:29:00	39601082	-76126821
54-183 (A1)	07-May-10	1:29:12	Lapidum (West Shore) (Near-Field)	10	0	138	17	07-May-10	1:34:00	39601082	-76126821
54-183 (A1)	07-May-10	1:29:18	Spencer Island West (Near-Field)	8	1	66	1	07-May-10	1:29:18	39605974	-76130720
54-183 (A1)	07-May-10	1:34:12	Lapidum (West Shore) (Near-Field)	10	0	137	20	07-May-10	1:39:00	39601082	-76126821
54-183 (A1)	07-May-10	1:37:17	Spencer Island West (Near-Field)	8	1	66	1	07-May-10	1:37:17	39605974	-76130720

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-183 (A1)	07-May-10	1:39:12	Lapidum (West Shore) (Near-Field)	10	0	116	17	07-May-10	1:44:01	39601082	-76126821
54-183 (A1)	07-May-10	1:44:13	Lapidum (West Shore) (Near-Field)	10	0	119	22	07-May-10	1:49:08	39601082	-76126821
54-183 (A1)	07-May-10	1:49:31	Lapidum (West Shore) (Near-Field)	10	0	121	19	07-May-10	1:54:10	39601082	-76126821
54-183 (A1)	07-May-10	1:54:24	Lapidum (West Shore) (Near-Field)	10	0	118	14	07-May-10	1:58:46	39601082	-76126821
54-183 (A1)	07-May-10	2:00:12	Lapidum (West Shore) (Near-Field)	10	0	101	10	07-May-10	2:04:09	39601082	-76126821
54-183 (A1)	07-May-10	2:04:21	Lapidum (West Shore) (Near-Field)	10	0	96	12	07-May-10	2:09:01	39601082	-76126821
54-183 (A1)	07-May-10	2:09:52	Lapidum (West Shore) (Near-Field)	10	0	99	15	07-May-10	2:14:12	39601082	-76126821
54-183 (A1)	07-May-10	2:14:26	Lapidum (West Shore) (Near-Field)	10	0	103	11	07-May-10	2:19:08	39601082	-76126821
54-183 (A1)	07-May-10	2:19:33	Lapidum (West Shore) (Near-Field)	10	0	107	15	07-May-10	2:24:12	39601082	-76126821
54-183 (A1)	07-May-10	2:24:25	Lapidum (West Shore) (Near-Field)	10	0	109	13	07-May-10	2:29:18	39601082	-76126821
54-183 (A1)	07-May-10	2:29:47	Lapidum (West Shore) (Near-Field)	10	0	117	16	07-May-10	2:34:21	39601082	-76126821
54-183 (A1)	07-May-10	2:35:07	Lapidum (West Shore) (Near-Field)	10	0	108	9	07-May-10	2:39:34	39601082	-76126821
54-183 (A1)	07-May-10	2:40:00	Lapidum (West Shore) (Near-Field)	10	0	107	12	07-May-10	2:43:58	39601082	-76126821
54-183 (A1)	07-May-10	2:45:01	Lapidum (West Shore) (Near-Field)	10	0	95	16	07-May-10	2:49:23	39601082	-76126821
54-183 (A1)	07-May-10	2:50:00	Lapidum (West Shore) (Near-Field)	10	0	122	18	07-May-10	2:54:45	39601082	-76126821
54-183 (A1)	07-May-10	2:54:58	Lapidum (West Shore) (Near-Field)	10	0	107	18	07-May-10	2:59:43	39601082	-76126821
54-183 (A1)	07-May-10	3:00:17	Lapidum (West Shore) (Near-Field)	10	0	109	16	07-May-10	3:04:54	39601082	-76126821
54-183 (A1)	07-May-10	3:05:06	Lapidum (West Shore) (Near-Field)	10	0	115	12	07-May-10	3:09:32	39601082	-76126821
54-183 (A1)	07-May-10	3:10:07	Lapidum (West Shore) (Near-Field)	10	0	101	17	07-May-10	3:14:53	39601082	-76126821
54-183 (A1)	07-May-10	3:15:16	Lapidum (West Shore) (Near-Field)	10	0	95	16	07-May-10	3:19:27	39601082	-76126821
54-183 (A1)	07-May-10	3:20:01	Lapidum (West Shore) (Near-Field)	10	0	88	12	07-May-10	3:24:45	39601082	-76126821
54-183 (A1)	07-May-10	3:23:58	Spencer Island West (Near-Field)	8	1	62	3	07-May-10	3:25:44	39605974	-76130720
54-183 (A1)	07-May-10	3:25:10	Lapidum (West Shore) (Near-Field)	10	0	81	15	07-May-10	3:29:55	39601082	-76126821
54-183 (A1)	07-May-10	3:30:18	Lapidum (West Shore) (Near-Field)	10	0	79	6	07-May-10	3:34:43	39601082	-76126821
54-183 (A1)	07-May-10	3:36:02	Lapidum (West Shore) (Near-Field)	10	0	70	4	07-May-10	3:37:01	39601082	-76126821
54-183 (A1)	12-May-10	13:57:17	Lapidum (West Shore) (Near-Field)	10	0	105	5	12-May-10	14:01:31	39601082	-76126821
54-183 (A1)	12-May-10	14:02:03	Lapidum (West Shore) (Near-Field)	10	0	143	14	12-May-10	14:06:09	39601082	-76126821
54-183 (A1)	12-May-10	14:10:27	Lapidum (West Shore) (Near-Field)	10	0	77	1	12-May-10	14:10:27	39601082	-76126821
54-183 (A1)	12-May-10	14:16:57	Lapidum (West Shore) (Near-Field)	10	0	78	1	12-May-10	14:16:57	39601082	-76126821
54-183 (A1)	12-May-10	14:22:46	Spencer Island West (Near-Field)	8	1	89	1	12-May-10	14:22:46	39605974	-76130720
54-183 (A1)	12-May-10	14:22:46	Lapidum (West Shore) (Near-Field)	10	0	153	5	12-May-10	14:25:21	39601082	-76126821
54-183 (A1)	12-May-10	14:27:54	Lapidum (West Shore) (Near-Field)	10	0	64	1	12-May-10	14:27:54	39601082	-76126821
54-183 (A1)	12-May-10	14:47:06	Lapidum (West Shore) (Near-Field)	10	0	103	1	12-May-10	14:47:06	39601082	-76126821
54-183 (A1)	12-May-10	14:50:31	Spencer Island West (Near-Field)	8	1	72	2	12-May-10	14:51:03	39605974	-76130720
54-183 (A1)	12-May-10	14:53:14	Lapidum (West Shore) (Near-Field)	10	0	120	5	12-May-10	14:55:29	39601082	-76126821
54-183 (A1)	12-May-10	14:57:34	Lapidum (West Shore) (Near-Field)	10	0	132	1	12-May-10	14:57:34	39601082	-76126821
54-183 (A1)	12-May-10	15:08:58	Lapidum (West Shore) (Near-Field)	10	0	88	1	12-May-10	15:08:58	39601082	-76126821
54-183 (A1)	12-May-10	15:13:43	Spencer Island West (Near-Field)	8	1	69	1	12-May-10	15:13:43	39605974	-76130720
54-183 (A1)	12-May-10	15:14:48	Lapidum (West Shore) (Near-Field)	10	0	110	5	12-May-10	15:17:20	39601082	-76126821
54-183 (A1)	12-May-10	15:18:03	Lapidum (West Shore) (Near-Field)	10	0	133	8	12-May-10	15:22:14	39601082	-76126821
54-183 (A1)	12-May-10	16:00:19	Lapidum (West Shore) (Near-Field)	10	0	112	2	12-May-10	16:02:07	39601082	-76126821
54-183 (A1)	12-May-10	16:10:02	Lapidum (West Shore) (Near-Field)	10	0	85	1	12-May-10	16:10:02	39601082	-76126821
54-183 (A1)	12-May-10	16:14:07	Lapidum (West Shore) (Near-Field)	10	0	88	5	12-May-10	16:18:19	39601082	-76126821
54-183 (A1)	12-May-10	16:18:32	Lapidum (West Shore) (Near-Field)	10	0	101	3	12-May-10	16:19:00	39601082	-76126821
54-183 (A1)	12-May-10	16:21:55	Spencer Island West (Near-Field)	8	1	75	1	12-May-10	16:21:55	39605974	-76130720
54-183 (A1)	12-May-10	16:22:50	Spencer Island West (Near-Field)	8	1	102	7	12-May-10	16:27:03	39605974	-76130720
54-183 (A1)	12-May-10	16:28:03	Spencer Island West (Near-Field)	8	1	127	5	12-May-10	16:32:12	39605974	-76130720
54-183 (A1)	12-May-10	16:32:43	Spencer Island West (Near-Field)	8	1	113	7	12-May-10	16:37:23	39605974	-76130720
54-183 (A1)	12-May-10	16:38:17	Spencer Island West (Near-Field)	8	1	89	5	12-May-10	16:42:03	39605974	-76130720
54-183 (A1)	12-May-10	16:50:52	Spencer Island West (Near-Field)	8	1	114	3	12-May-10	16:52:20	39605974	-76130720
54-183 (A1)	12-May-10	16:52:49	Spencer Island West (Near-Field)	8	1	115	9	12-May-10	16:56:50	39605974	-76130720
54-183 (A1)	12-May-10	16:57:49	Spencer Island West (Near-Field)	8	1	87	2	12-May-10	16:57:49	39605974	-76130720
54-183 (A1)	12-May-10	17:06:30	Lapidum (West Shore) (Near-Field)	10	0	94	3	12-May-10	17:08:00	39601082	-76126821
54-183 (A1)	12-May-10	17:15:20	Lapidum (West Shore) (Near-Field)	10	0	73	1	12-May-10	17:15:20	39601082	-76126821
54-183 (A1)	12-May-10	17:46:33	Spencer Island West (Near-Field)	8	1	91	1	12-May-10	17:46:33	39605974	-76130720
54-183 (A1)	12-May-10	17:48:40	Spencer Island West (Near-Field)	8	1	108	2	12-May-10	17:50:49	39605974	-76130720
54-183 (A1)	12-May-10	17:53:28	Spencer Island West (Near-Field)	8	1	98	4	12-May-10	17:57:32	39605974	-76130720
54-183 (A1)	12-May-10	17:59:46	Spencer Island West (Near-Field)	8	1	109	2	12-May-10	18:02:03	39605974	-76130720
54-183 (A1)	12-May-10	18:04:00	Spencer Island West (Near-Field)	8	1	91	2	12-May-10	18:04:28	39605974	-76130720
54-183 (A1)	12-May-10	18:17:18	Spencer Island West (Near-Field)	8	1	80	1	12-May-10	18:17:18	39605974	-76130720
54-183 (A1)	12-May-10	18:18:14	Spencer Island West (Near-Field)	8	1	112	3	12-May-10	18:21:24	39605974	-76130720
54-183 (A1)	12-May-10	18:23:08	Spencer Island West (Near-Field)	8	1	135	1	12-May-10	18:23:08	39605974	-76130720
54-183 (A1)	12-May-10	18:29:20	Lapidum (West Shore) (Near-Field)	10	0	76	1	12-May-10	18:29:20	39601082	-76126821
54-183 (A1)	12-May-10	18:32:18	Lapidum (West Shore) (Near-Field)	10	0	145	3	12-May-10	18:34:10	39601082	-76126821
54-183 (A1)	12-May-10	18:39:46	Lapidum (West Shore) (Near-Field)	10	0	94	1	12-May-10	18:39:46	39601082	-76126821

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-183 (A1)	12-May-10	22:33:00	Lapidum (West Shore) (Near-Field)	10	0	91	5	12-May-10	22:35:39	39601082	-76126821
54-183 (A1)	12-May-10	22:36:38	Lapidum (West Shore) (Near-Field)	10	0	107	10	12-May-10	22:40:35	39601082	-76126821
54-183 (A1)	12-May-10	22:41:25	Lapidum (West Shore) (Near-Field)	10	0	123	12	12-May-10	22:45:37	39601082	-76126821
54-183 (A1)	12-May-10	22:46:02	Lapidum (West Shore) (Near-Field)	10	0	97	7	12-May-10	22:49:35	39601082	-76126821
54-183 (A1)	12-May-10	22:49:57	Spencer Island West (Near-Field)	8	1	81	4	12-May-10	22:53:32	39605974	-76130720
54-183 (A1)	12-May-10	23:00:36	Spencer Island West (Near-Field)	8	1	103	6	12-May-10	23:04:13	39605974	-76130720
54-183 (A1)	12-May-10	23:04:43	Spencer Island West (Near-Field)	8	1	113	4	12-May-10	23:07:27	39605974	-76130720
54-183 (A1)	12-May-10	23:09:43	Spencer Island West (Near-Field)	8	1	112	8	12-May-10	23:14:18	39605974	-76130720
54-183 (A1)	12-May-10	23:15:39	Spencer Island West (Near-Field)	8	1	100	5	12-May-10	23:19:17	39605974	-76130720
54-183 (A1)	12-May-10	23:21:32	Spencer Island West (Near-Field)	8	1	132	3	12-May-10	23:22:54	39605974	-76130720
54-183 (A1)	12-May-10	23:24:44	Spencer Island West (Near-Field)	8	1	90	4	12-May-10	23:27:56	39605974	-76130720
54-183 (A1)	12-May-10	23:29:06	Lapidum (West Shore) (Near-Field)	10	0	102	5	12-May-10	23:31:05	39601082	-76126821
54-183 (A1)	12-May-10	23:32:25	Lapidum (West Shore) (Near-Field)	10	0	158	15	12-May-10	23:36:05	39601082	-76126821
54-183 (A1)	12-May-10	23:36:20	Lapidum (West Shore) (Near-Field)	10	0	177	21	12-May-10	23:41:13	39601082	-76126821
54-183 (A1)	12-May-10	23:41:26	Lapidum (West Shore) (Near-Field)	10	0	133	13	12-May-10	23:46:03	39601082	-76126821
54-183 (A1)	12-May-10	23:46:29	Lapidum (West Shore) (Near-Field)	10	0	99	9	12-May-10	23:50:57	39601082	-76126821
54-183 (A1)	12-May-10	23:52:12	Lapidum (West Shore) (Near-Field)	10	0	85	5	12-May-10	23:55:29	39601082	-76126821
54-183 (A1)	13-May-10	0:05:57	Lapidum (West Shore) (Near-Field)	10	0	80	2	13-May-10	0:06:10	39601082	-76126821
54-183 (A1)	13-May-10	0:06:36	Lapidum (West Shore) (Near-Field)	10	0	83	2	13-May-10	0:07:00	39601082	-76126821
54-183 (A1)	13-May-10	0:14:03	Lapidum (West Shore) (Near-Field)	10	0	71	2	13-May-10	0:14:16	39601082	-76126821
54-183 (A1)	13-May-10	3:40:31	Lapidum (West Shore) (Near-Field)	10	0	89	4	13-May-10	3:42:16	39601082	-76126821
54-183 (A1)	13-May-10	3:43:10	Lapidum (West Shore) (Near-Field)	10	0	82	3	13-May-10	3:47:12	39601082	-76126821
54-183 (A1)	13-May-10	3:47:52	Lapidum (West Shore) (Near-Field)	10	0	78	11	13-May-10	3:52:31	39601082	-76126821
54-183 (A1)	13-May-10	3:55:48	Lapidum (West Shore) (Near-Field)	10	0	93	6	13-May-10	3:57:32	39601082	-76126821
54-183 (A1)	13-May-10	3:58:28	Lapidum (West Shore) (Near-Field)	10	0	83	2	13-May-10	3:58:48	39601082	-76126821
54-183 (A1)	13-May-10	16:20:56	Tomes Landing (East Shore) (Near-Field)	9	A	114	1	13-May-10	16:20:56	39601353	-76115587
54-183 (A1)	13-May-10	16:21:31	Tomes Landing (East Shore) (Near-Field)	9	A	130	13	13-May-10	16:24:24	39601353	-76115587
54-183 (A1)	13-May-10	16:27:58	Tomes Landing (East Shore) (Near-Field)	9	A	87	1	13-May-10	16:27:58	39601353	-76115587
54-183 (A1)	13-May-10	19:05:00	Mid-River, Opposite Port Deposit Public Boat Launch	-1		0	1			39594533	-76126333
54-183 (A1)	17-May-10	15:57:45	Lapidum (West Shore) (Near-Field)	10	0	83	3	17-May-10	15:59:57	39601082	-76126821
54-183 (A1)	17-May-10	16:00:23	Lapidum (West Shore) (Near-Field)	10	0	96	3	17-May-10	16:03:30	39601082	-76126821
54-183 (A1)	17-May-10	16:11:06	Lapidum (West Shore) (Near-Field)	10	0	98	10	17-May-10	16:14:53	39601082	-76126821
54-183 (A1)	17-May-10	16:15:44	Lapidum (West Shore) (Near-Field)	10	0	116	8	17-May-10	16:20:05	39601082	-76126821
54-183 (A1)	17-May-10	16:20:34	Lapidum (West Shore) (Near-Field)	10	0	96	8	17-May-10	16:25:05	39601082	-76126821
54-183 (A1)	17-May-10	16:25:34	Lapidum (West Shore) (Near-Field)	10	0	92	5	17-May-10	16:30:28	39601082	-76126821
54-183 (A1)	17-May-10	16:30:44	Lapidum (West Shore) (Near-Field)	10	0	106	7	17-May-10	16:33:19	39601082	-76126821
54-183 (A1)	17-May-10	16:36:03	Lapidum (West Shore) (Near-Field)	10	0	86	5	17-May-10	16:39:38	39601082	-76126821
54-183 (A1)	17-May-10	16:44:01	Lapidum (West Shore) (Near-Field)	10	0	64	1	17-May-10	16:44:01	39601082	-76126821
54-183 (A1)	17-May-10	16:44:18	Spencer Island West (Near-Field)	8	1	104	2	17-May-10	16:47:22	39605974	-76130720
54-183 (A1)	17-May-10	16:51:17	Spencer Island West (Near-Field)	8	1	82	1	17-May-10	16:51:17	39605974	-76130720
54-183 (A1)	17-May-10	17:00:49	Spencer Island West (Near-Field)	8	1	87	1	17-May-10	17:00:49	39605974	-76130720
54-183 (A1)	17-May-10	23:03:46	Spencer Island West (Near-Field)	8	1	60	1	17-May-10	23:03:46	39605974	-76130720
54-183 (A1)	18-May-10	4:42:33	Tomes Landing (East Shore) (Near-Field)	9	A	67	1	18-May-10	4:42:33	39601353	-76115587
54-183 (A1)	18-May-10	4:54:51	Tomes Landing (East Shore) (Near-Field)	9	A	69	2	18-May-10	4:55:03	39601353	-76115587
54-183 (A1)	18-May-10	5:01:56	Tomes Landing (East Shore) (Near-Field)	9	A	94	15	18-May-10	5:05:10	39601353	-76115587
54-183 (A1)	18-May-10	5:08:00	Tomes Landing (East Shore) (Near-Field)	9	A	90	4	18-May-10	5:08:47	39601353	-76115587
54-183 (A1)	18-May-10	5:22:34	Tomes Landing (East Shore) (Near-Field)	9	A	86	1	18-May-10	5:22:34	39601353	-76115587
54-183 (A1)	19-May-10	17:45:43	Lapidum (West Shore) (Near-Field)	10	0	64	1	19-May-10	17:45:43	39601082	-76126821
54-183 (A1)	19-May-10	21:16:52	Lapidum (West Shore) (Near-Field)	10	0	77	1	19-May-10	21:16:52	39601082	-76126821
54-183 (A1)	19-May-10	21:17:37	Lapidum (West Shore) (Near-Field)	10	0	68	1	19-May-10	21:17:37	39601082	-76126821
54-183 (A1)	19-May-10	21:28:05	Lapidum (West Shore) (Near-Field)	10	0	83	1	19-May-10	21:28:05	39601082	-76126821
54-183 (A1)	19-May-10	21:34:50	Lapidum (West Shore) (Near-Field)	10	0	68	2	19-May-10	21:37:20	39601082	-76126821
54-183 (A1)	19-May-10	21:42:57	Lapidum (West Shore) (Near-Field)	10	0	81	2	19-May-10	21:45:52	39601082	-76126821
54-183 (A1)	19-May-10	21:50:05	Lapidum (West Shore) (Near-Field)	10	0	82	1	19-May-10	21:50:05	39601082	-76126821
54-183 (A1)	19-May-10	22:02:25	Lapidum (West Shore) (Near-Field)	10	0	77	1	19-May-10	22:02:25	39601082	-76126821
54-183 (A1)	19-May-10	22:11:02	Lapidum (West Shore) (Near-Field)	10	0	95	1	19-May-10	22:11:02	39601082	-76126821
54-183 (A1)	19-May-10	22:17:33	Lapidum (West Shore) (Near-Field)	10	0	95	2	19-May-10	22:17:47	39601082	-76126821
54-183 (A1)	19-May-10	22:18:13	Lapidum (West Shore) (Near-Field)	10	0	94	2	19-May-10	22:21:06	39601082	-76126821
54-183 (A1)	19-May-10	22:23:13	Lapidum (West Shore) (Near-Field)	10	0	79	1	19-May-10	22:23:13	39601082	-76126821
54-183 (A1)	19-May-10	22:32:34	Lapidum (West Shore) (Near-Field)	10	0	86	1	19-May-10	22:32:34	39601082	-76126821
54-183 (A1)	19-May-10	22:34:35	Lapidum (West Shore) (Near-Field)	10	0	89	1	19-May-10	22:34:35	39601082	-76126821
54-183 (A1)	19-May-10	22:38:31	Lapidum (West Shore) (Near-Field)	10	0	95	2	19-May-10	22:40:28	39601082	-76126821
54-183 (A1)	19-May-10	22:43:02	Lapidum (West Shore) (Near-Field)	10	0	82	5	19-May-10	22:45:49	39601082	-76126821
54-183 (A1)	20-May-10	2:21:04	Rowland Island West (Near-Field)	0	2	69	1	20-May-10	2:21:04	39652629	-76168481
54-183 (A1)	20-May-10	2:34:47	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	97	3	20-May-10	2:38:30	39656845	-76173035



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-183 (A1)	20-May-10	2:41:11	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	134	2	20-May-10	2:42:08	39656015	-76173489
54-183 (A1)	20-May-10	2:42:12	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	135	3	20-May-10	2:44:08	39656488	-76173233
54-183 (A1)	20-May-10	2:42:15	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	135	3	20-May-10	2:44:12	39656845	-76173035
54-183 (A1)	20-May-10	2:43:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	107	2	20-May-10	2:44:15	39657186	-76172854
54-183 (A1)	20-May-10	2:45:03	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	124	1	20-May-10	2:45:03	39656015	-76173489
54-183 (A1)	20-May-10	2:45:07	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	133	4	20-May-10	2:49:00	39656488	-76173233
54-183 (A1)	20-May-10	2:45:11	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	150	4	20-May-10	2:49:03	39656845	-76173035
54-183 (A1)	20-May-10	2:46:00	Conowingo Tailrace Units 1-7 Master	17	A	97	1	20-May-10	2:46:00		
54-183 (A1)	20-May-10	2:46:14	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	129	4	20-May-10	2:49:07	39657186	-76172854
54-183 (A1)	20-May-10	2:49:55	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	106	4	20-May-10	2:52:50	39656015	-76173489
54-183 (A1)	20-May-10	2:50:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	135	3	20-May-10	2:53:51	39656488	-76173233
54-183 (A1)	20-May-10	2:50:03	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	131	4	20-May-10	2:53:55	39656845	-76173035
54-183 (A1)	20-May-10	2:50:07	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	140	2	20-May-10	2:53:00	39657186	-76172854
54-183 (A1)	20-May-10	2:54:46	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	132	2	20-May-10	2:55:43	39656015	-76173489
54-183 (A1)	20-May-10	2:54:56	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	110	5	20-May-10	2:58:44	39657186	-76172854
54-183 (A1)	20-May-10	2:55:50	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	124	3	20-May-10	2:57:44	39656845	-76173035
54-183 (A1)	20-May-10	2:58:14	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	96	1	20-May-10	2:58:14	39657308	-76172818
54-183 (A1)	20-May-10	2:59:13	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	100	1	20-May-10	2:59:13	39657480	-76172724
54-183 (A1)	20-May-10	3:03:20	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	70	1	20-May-10	3:03:20	39657186	-76172854
54-183 (A1)	20-May-10	4:41:51	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	89	1	20-May-10	4:41:51	39656488	-76173233
54-183 (A1)	20-May-10	4:43:47	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	104	2	20-May-10	4:44:44	39656845	-76173035
54-183 (A1)	20-May-10	4:45:38	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	78	1	20-May-10	4:45:38	39656488	-76173233
54-183 (A1)	20-May-10	4:48:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	122	2	20-May-10	4:49:25	39656845	-76173035
54-183 (A1)	20-May-10	4:48:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	110	1	20-May-10	4:48:31	39657186	-76172854
54-183 (A1)	20-May-10	4:50:16	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	117	4	20-May-10	4:54:04	39656015	-76173489
54-183 (A1)	20-May-10	4:52:19	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	79	1	20-May-10	4:52:19	39657186	-76172854
54-183 (A1)	20-May-10	4:53:13	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	87	2	20-May-10	4:54:11	39656845	-76173035
54-183 (A1)	20-May-10	4:54:07	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	131	1	20-May-10	4:54:07	39656488	-76173233
54-183 (A1)	20-May-10	4:55:02	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	141	4	20-May-10	4:59:01	39656015	-76173489
54-183 (A1)	20-May-10	4:55:09	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	151	5	20-May-10	4:59:08	39656845	-76173035
54-183 (A1)	20-May-10	4:55:57	Conowingo Tailrace Units 1-7 Master	17	A	89	3	20-May-10	4:58:57		
54-183 (A1)	20-May-10	4:56:04	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	179	3	20-May-10	4:59:05	39656488	-76173233
54-183 (A1)	20-May-10	4:56:12	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	110	3	20-May-10	4:59:12	39657186	-76172854
54-183 (A1)	20-May-10	5:00:04	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	129	6	20-May-10	5:04:58	39656488	-76173233
54-183 (A1)	20-May-10	5:00:08	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	166	4	20-May-10	5:03:05	39656845	-76173035
54-183 (A1)	20-May-10	5:00:12	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	191	2	20-May-10	5:01:11	39657186	-76172854
54-183 (A1)	20-May-10	5:00:57	Conowingo Tailrace Units 1-7 Master	17	A	95	2	20-May-10	5:01:57		
54-183 (A1)	20-May-10	5:05:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	126	2	20-May-10	5:08:47	39656845	-76173035
54-183 (A1)	20-May-10	5:08:51	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	63	1	20-May-10	5:08:51	39657186	-76172854
54-183 (A1)	20-May-10	5:12:27	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	131	2	20-May-10	5:13:29	39656015	-76173489
54-183 (A1)	20-May-10	5:12:31	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	146	2	20-May-10	5:13:32	39656488	-76173233
54-183 (A1)	20-May-10	5:12:36	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	120	2	20-May-10	5:14:31	39656845	-76173035
54-183 (A1)	20-May-10	5:12:41	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	77	1	20-May-10	5:12:41	39657186	-76172854
54-183 (A1)	20-May-10	5:15:25	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	99	2	20-May-10	5:18:24	39656488	-76173233
54-183 (A1)	20-May-10	5:15:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	171	5	20-May-10	5:19:30	39656845	-76173035
54-183 (A1)	20-May-10	5:15:32	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	167	4	20-May-10	5:18:33	39657186	-76172854
54-183 (A1)	20-May-10	5:17:50	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	96	1	20-May-10	5:17:50	39657308	-76172818
54-183 (A1)	20-May-10	5:18:17	Conowingo Tailrace Units 1-7 Master	17	A	173	1	20-May-10	5:18:17		
54-183 (A1)	20-May-10	5:19:44	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	84	1	20-May-10	5:19:44	39657480	-76172724
54-183 (A1)	20-May-10	5:20:22	Conowingo Tailrace Units 1-7 Master	17	A	150	1	20-May-10	5:20:22		
54-183 (A1)	20-May-10	5:20:31	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	171	4	20-May-10	5:24:28	39656845	-76173035
54-183 (A1)	20-May-10	5:20:35	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	126	3	20-May-10	5:22:35	39657186	-76172854
54-183 (A1)	20-May-10	5:21:30	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	115	1	20-May-10	5:21:30	39656488	-76173233
54-183 (A1)	20-May-10	5:25:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	138	5	20-May-10	5:29:30	39656845	-76173035
54-183 (A1)	20-May-10	5:26:34	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	116	2	20-May-10	5:28:33	39657186	-76172854
54-183 (A1)	20-May-10	5:28:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	135	2	20-May-10	5:29:26	39656488	-76173233
54-183 (A1)	20-May-10	5:29:19	Conowingo Tailrace Units 1-7 Master	17	A	97	1	20-May-10	5:29:19		
54-183 (A1)	20-May-10	5:30:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	80	2	20-May-10	5:34:26	39656845	-76173035
54-183 (A1)	20-May-10	5:31:24	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	154	2	20-May-10	5:33:20	39656015	-76173489
54-183 (A1)	20-May-10	5:33:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	174	1	20-May-10	5:33:24	39656488	-76173233
54-183 (A1)	20-May-10	5:36:32	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	78	2	20-May-10	5:37:32	39657186	-76172854
54-183 (A1)	20-May-10	5:40:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	97	3	20-May-10	5:43:19	39656488	-76173233
54-183 (A1)	20-May-10	5:42:18	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	56	1	20-May-10	5:42:18	39656015	-76173489
54-183 (A1)	20-May-10	5:44:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	152	1	20-May-10	5:44:28	39656845	-76173035
54-183 (A1)	20-May-10	5:45:26	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	76	2	20-May-10	5:47:33	39656488	-76173233

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-183 (A1)	20-May-10	5:45:36	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	102	1	20-May-10	5:45:36	39657186	-76172854
54-183 (A1)	20-May-10	5:47:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	132	1	20-May-10	5:47:38	39656845	-76173035
54-183 (A1)	20-May-10	5:50:44	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	66	2	20-May-10	5:54:46	39656845	-76173035
54-183 (A1)	20-May-10	5:53:39	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	87	2	20-May-10	5:54:41	39656488	-76173233
54-183 (A1)	20-May-10	5:56:46	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	114	2	20-May-10	5:58:51	39656488	-76173233
54-183 (A1)	20-May-10	5:56:51	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	144	4	20-May-10	6:00:00	39656845	-76173035
54-183 (A1)	20-May-10	5:56:56	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	136	3	20-May-10	5:59:02	39657186	-76172854
54-183 (A1)	20-May-10	6:01:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	113	2	20-May-10	6:05:02	39656488	-76173233
54-183 (A1)	20-May-10	6:01:05	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	113	4	20-May-10	6:05:06	39656845	-76173035
54-183 (A1)	20-May-10	6:01:10	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	105	4	20-May-10	6:05:12	39657186	-76172854
54-183 (A1)	20-May-10	6:03:42	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	139	1	20-May-10	6:03:42	39657308	-76172818
54-183 (A1)	20-May-10	6:07:16	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	164	2	20-May-10	6:09:26	39656845	-76173035
54-183 (A1)	20-May-10	6:07:21	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	77	2	20-May-10	6:09:30	39657186	-76172854
54-183 (A1)	20-May-10	6:08:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	150	2	20-May-10	6:09:22	39656488	-76173233
54-183 (A1)	20-May-10	6:10:19	Conowingo Tailrace Units 1-7 Master	17	A	146	1	20-May-10	6:10:19		
54-183 (A1)	20-May-10	6:10:23	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	80	2	20-May-10	6:11:27	39656015	-76173489
54-183 (A1)	20-May-10	6:10:31	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	132	5	20-May-10	6:14:58	39656845	-76173035
54-183 (A1)	20-May-10	6:10:36	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	155	4	20-May-10	6:15:04	39657186	-76172854
54-183 (A1)	20-May-10	6:15:36	Conowingo Tailrace Units 8-11 Master	7	A	103	1	20-May-10	6:15:36		
54-183 (A1)	20-May-10	6:15:40	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	116	3	20-May-10	6:17:33	39657308	-76172818
54-183 (A1)	20-May-10	6:16:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	111	4	20-May-10	6:20:25	39656845	-76173035
54-183 (A1)	20-May-10	6:16:09	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	128	2	20-May-10	6:19:25	39657186	-76172854
54-183 (A1)	20-May-10	6:16:40	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	120	1	20-May-10	6:16:40	39657480	-76172724
54-183 (A1)	20-May-10	6:18:02	Conowingo Tailrace Units 1-7 Master	17	A	120	1	20-May-10	6:18:02		
54-183 (A1)	20-May-10	6:20:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	118	2	20-May-10	6:24:07	39657186	-76172854
54-183 (A1)	20-May-10	6:21:36	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	115	2	20-May-10	6:22:48	39656845	-76173035
54-183 (A1)	20-May-10	6:26:15	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	65	2	20-May-10	6:29:34	39656488	-76173233
54-183 (A1)	20-May-10	6:26:22	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	84	1	20-May-10	6:26:22	39657186	-76172854
54-183 (A1)	20-May-10	6:29:40	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	123	1	20-May-10	6:29:40	39656845	-76173035
54-183 (A1)	20-May-10	6:30:47	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	79	1	20-May-10	6:30:47	39656488	-76173233
54-183 (A1)	20-May-10	6:31:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	91	2	20-May-10	6:32:15	39657186	-76172854
54-183 (A1)	20-May-10	9:39:01	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	64	1	20-May-10	9:39:01	39656488	-76173233
54-183 (A1)	20-May-10	9:48:19	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	89	2	20-May-10	9:50:29	39656845	-76173035
54-183 (A1)	20-May-10	9:49:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	123	1	20-May-10	9:49:25	39657186	-76172854
54-183 (A1)	20-May-10	10:09:33	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	82	1	20-May-10	10:09:33	39656488	-76173233
54-183 (A1)	20-May-10	10:10:40	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	73	1	20-May-10	10:10:40	39656845	-76173035
54-183 (A1)	20-May-10	10:13:49	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	104	3	20-May-10	10:16:55	39656845	-76173035
54-183 (A1)	20-May-10	10:16:47	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	72	1	20-May-10	10:16:47	39656015	-76173489
54-183 (A1)	20-May-10	10:16:51	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	119	1	20-May-10	10:16:51	39656488	-76173233
54-183 (A1)	20-May-10	10:17:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	112	1	20-May-10	10:17:00	39657186	-76172854
54-183 (A1)	20-May-10	10:24:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	58	2	20-May-10	10:26:00	39657186	-76172854
54-183 (A1)	20-May-10	10:29:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	124	3	20-May-10	10:31:05	39656845	-76173035
54-183 (A1)	20-May-10	10:29:03	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	60	1	20-May-10	10:29:03	39657186	-76172854
54-183 (A1)	20-May-10	10:31:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	82	1	20-May-10	10:31:00	39656488	-76173233
54-183 (A1)	20-May-10	10:34:09	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	129	3	20-May-10	10:36:16	39656845	-76173035
54-183 (A1)	20-May-10	10:35:01	Conowingo Tailrace Units 1-7 Master	17	A	66	1	20-May-10	10:35:01		
54-183 (A1)	20-May-10	10:36:21	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	138	1	20-May-10	10:36:21	39657186	-76172854
54-183 (A1)	20-May-10	10:37:11	Conowingo Tailrace Units 1-7 Master	17	A	67	1	20-May-10	10:37:11		
54-183 (A1)	20-May-10	10:37:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	154	1	20-May-10	10:37:17	39656488	-76173233
54-183 (A1)	20-May-10	10:37:28	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	135	3	20-May-10	10:39:34	39657186	-76172854
54-183 (A1)	20-May-10	10:38:25	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	126	3	20-May-10	10:41:31	39656845	-76173035
54-183 (A1)	20-May-10	10:39:31	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	109	1	20-May-10	10:39:31	39657308	-76172818
54-183 (A1)	20-May-10	10:42:22	Conowingo Tailrace Units 1-7 Master	17	A	96	2	20-May-10	10:46:34		
54-183 (A1)	20-May-10	10:42:28	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	80	1	20-May-10	10:42:28	39656488	-76173233
54-183 (A1)	20-May-10	10:42:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	117	6	20-May-10	10:46:45	39656845	-76173035
54-183 (A1)	20-May-10	10:42:36	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	136	4	20-May-10	10:46:50	39657186	-76172854
54-183 (A1)	20-May-10	10:46:58	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	96	1	20-May-10	10:46:58	39657308	-76172818
54-183 (A1)	20-May-10	10:47:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	143	4	20-May-10	10:51:51	39657186	-76172854
54-183 (A1)	20-May-10	10:49:00	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	113	2	20-May-10	10:51:46	39656845	-76173035
54-183 (A1)	20-May-10	10:50:27	Conowingo Tailrace Units 1-7 Master	17	A	65	2	20-May-10	10:51:36		
54-183 (A1)	20-May-10	10:53:13	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	99	2	20-May-10	10:54:13	39657186	-76172854
54-183 (A1)	20-May-10	10:57:22	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	130	2	20-May-10	10:58:23	39656488	-76173233
54-183 (A1)	20-May-10	10:58:16	Conowingo Tailrace Units 1-7 Master	17	A	92	1	20-May-10	10:58:16		
54-183 (A1)	20-May-10	10:59:20	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	131	2	20-May-10	11:00:22	39656015	-76173489
54-183 (A1)	20-May-10	11:53:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	96	1	20-May-10	11:53:38	39656845	-76173035



Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-183 (A1)	20-May-10	11:55:37	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	108	2	20-May-10	11:56:36	39656488	-76173233
54-183 (A1)	20-May-10	11:57:39	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	114	2	20-May-10	11:59:45	39656488	-76173233
54-183 (A1)	20-May-10	11:58:48	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	80	3	20-May-10	12:01:54	39656845	-76173035
54-183 (A1)	20-May-10	12:01:58	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	103	1	20-May-10	12:01:58	39657186	-76172854
54-183 (A1)	20-May-10	12:03:00	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	92	3	20-May-10	12:06:00	39657186	-76172854
54-183 (A1)	20-May-10	12:03:54	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	79	3	20-May-10	12:06:54	39656488	-76173233
54-183 (A1)	20-May-10	12:03:58	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	136	1	20-May-10	12:03:58	39656845	-76173035
54-183 (A1)	20-May-10	12:10:56	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	97	2	20-May-10	12:12:02	39656488	-76173233
54-183 (A1)	20-May-10	12:11:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	101	1	20-May-10	12:11:01	39656845	-76173035
54-183 (A1)	20-May-10	12:11:57	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	128	1	20-May-10	12:11:57	39656015	-76173489
54-183 (A1)	20-May-10	12:13:02	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	96	2	20-May-10	12:16:11	39656015	-76173489
54-183 (A1)	20-May-10	12:13:06	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	128	2	20-May-10	12:16:15	39656488	-76173233
54-183 (A1)	20-May-10	12:13:10	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	121	2	20-May-10	12:16:21	39656845	-76173035
54-183 (A1)	20-May-10	12:16:27	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	102	1	20-May-10	12:16:27	39657186	-76172854
54-183 (A1)	20-May-10	12:18:26	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	145	2	20-May-10	12:19:30	39656845	-76173035
54-183 (A1)	20-May-10	12:18:32	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	115	1	20-May-10	12:18:32	39657186	-76172854
54-183 (A1)	20-May-10	12:19:17	Conowingo Tailrace Units 1-7 Master	17	A	77	1	20-May-10	12:19:17		
54-183 (A1)	20-May-10	12:19:25	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	113	1	20-May-10	12:19:25	39656488	-76173233
54-183 (A1)	20-May-10	12:26:36	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	95	2	20-May-10	12:27:38	39656845	-76173035
54-183 (A1)	20-May-10	12:27:33	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	138	1	20-May-10	12:27:33	39656488	-76173233
54-183 (A1)	20-May-10	12:28:38	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	119	2	20-May-10	12:29:43	39656845	-76173035
54-183 (A1)	20-May-10	12:29:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	93	2	20-May-10	12:32:05	39657186	-76172854
54-183 (A1)	20-May-10	12:30:51	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	122	1	20-May-10	12:30:51	39656488	-76173233
54-183 (A1)	20-May-10	12:31:54	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	98	1	20-May-10	12:31:54	39656015	-76173489
54-183 (A1)	20-May-10	12:56:19	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	105	1	20-May-10	12:56:19	39656015	-76173489
54-183 (A1)	20-May-10	12:56:25	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	73	1	20-May-10	12:56:25	39656845	-76173035
54-183 (A1)	20-May-10	12:59:17	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	128	1	20-May-10	12:59:17	39656488	-76173233
54-183 (A1)	20-May-10	13:00:12	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	120	3	20-May-10	13:02:08	39656015	-76173489
54-183 (A1)	20-May-10	13:01:15	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	120	3	20-May-10	13:03:11	39656488	-76173233
54-183 (A1)	20-May-10	13:05:02	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	124	1	20-May-10	13:05:02	39656015	-76173489
54-183 (A1)	20-May-10	13:06:03	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	141	3	20-May-10	13:08:56	39656488	-76173233
54-183 (A1)	20-May-10	13:07:03	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	81	1	20-May-10	13:07:03	39656845	-76173035
54-183 (A1)	20-May-10	13:09:53	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	146	4	20-May-10	13:13:46	39656488	-76173233
54-183 (A1)	20-May-10	13:09:57	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	91	3	20-May-10	13:13:51	39656845	-76173035
54-183 (A1)	20-May-10	13:11:43	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	55	2	20-May-10	13:12:43	39656015	-76173489
54-183 (A1)	20-May-10	13:14:43	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	152	1	20-May-10	13:14:43	39656015	-76173489
54-183 (A1)	20-May-10	13:14:47	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	124	4	20-May-10	13:18:42	39656488	-76173233
54-183 (A1)	20-May-10	13:17:35	Conowingo Tailrace Units 1-7 Master	17	A	80	2	20-May-10	13:18:36		
54-183 (A1)	20-May-10	13:18:47	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	138	1	20-May-10	13:18:47	39656845	-76173035
54-183 (A1)	20-May-10	13:18:51	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	100	1	20-May-10	13:18:51	39657186	-76172854
54-183 (A1)	20-May-10	13:19:48	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	127	2	20-May-10	13:20:45	39656845	-76173035
54-183 (A1)	20-May-10	13:19:52	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	139	3	20-May-10	13:22:43	39657186	-76172854
54-183 (A1)	20-May-10	13:20:31	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	112	1	20-May-10	13:20:31	39657308	-76172818
54-183 (A1)	20-May-10	13:24:36	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	127	4	20-May-10	13:28:29	39656845	-76173035
54-183 (A1)	20-May-10	13:26:29	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	149	1	20-May-10	13:26:29	39656488	-76173233
54-183 (A1)	20-May-10	13:28:34	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	79	1	20-May-10	13:28:34	39657186	-76172854
54-183 (A1)	20-May-10	13:29:22	Conowingo Tailrace Units 1-7 Master	17	A	68	1	20-May-10	13:29:22		
54-183 (A1)	20-May-10	13:29:35	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	141	2	20-May-10	13:30:33	39657186	-76172854
54-183 (A1)	20-May-10	13:30:27	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	126	4	20-May-10	13:34:20	39656488	-76173233
54-183 (A1)	20-May-10	13:33:16	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	142	2	20-May-10	13:34:16	39656015	-76173489
54-183 (A1)	20-May-10	13:35:14	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	132	4	20-May-10	13:39:04	39656015	-76173489
54-183 (A1)	20-May-10	13:36:19	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	157	2	20-May-10	13:39:08	39656488	-76173233
54-183 (A1)	20-May-10	13:39:12	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	88	1	20-May-10	13:39:12	39656845	-76173035
54-183 (A1)	20-May-10	14:08:11	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	89	1	20-May-10	14:08:11	39656488	-76173233
54-183 (A1)	20-May-10	14:10:09	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	79	3	20-May-10	14:14:02	39656488	-76173233
54-183 (A1)	20-May-10	14:11:05	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	76	2	20-May-10	14:13:57	39656015	-76173489
54-183 (A1)	20-May-10	14:16:47	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	73	2	20-May-10	14:17:46	39656015	-76173489
54-183 (A1)	20-May-10	14:16:51	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	89	1	20-May-10	14:16:51	39656488	-76173233
54-183 (A1)	20-May-10	14:19:41	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	127	4	20-May-10	14:24:31	39656488	-76173233
54-183 (A1)	20-May-10	14:20:43	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	123	4	20-May-10	14:24:36	39656845	-76173035
54-183 (A1)	20-May-10	14:23:39	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	111	1	20-May-10	14:23:39	39657186	-76172854
54-183 (A1)	20-May-10	14:25:31	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	126	4	20-May-10	14:28:27	39656488	-76173233
54-183 (A1)	20-May-10	14:26:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	117	2	20-May-10	14:27:31	39656845	-76173035
54-183 (A1)	20-May-10	14:29:31	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	1	20-May-10	14:29:31	39657186	-76172854
54-183 (A1)	20-May-10	14:30:24	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	95	5	20-May-10	14:34:23	39656488	-76173233

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-183 (A1)	20-May-10	14:33:25	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	114	1	20-May-10	14:33:25	39656845	-76173035
54-183 (A1)	20-May-10	14:34:19	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	52	1	20-May-10	14:34:19	39656015	-76173489
54-183 (A1)	20-May-10	14:35:17	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	69	1	20-May-10	14:35:17	39656015	-76173489
54-183 (A1)	20-May-10	14:36:16	Conowingo Tailrace Units 1-7 Master	17	A	67	1	20-May-10	14:36:16		
54-183 (A1)	20-May-10	14:36:23	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	121	2	20-May-10	14:37:26	39656488	-76173233
54-183 (A1)	20-May-10	15:17:17	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	82	1	20-May-10	15:17:17	39657186	-76172854
54-183 (A1)	20-May-10	15:21:34	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	107	3	20-May-10	15:23:37	39656488	-76173233
54-183 (A1)	20-May-10	15:24:41	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	99	1	20-May-10	15:24:41	39656015	-76173489
54-183 (A1)	20-May-10	15:24:52	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	104	1	20-May-10	15:24:52	39657186	-76172854
54-183 (A1)	20-May-10	15:25:53	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	111	2	20-May-10	15:26:52	39657186	-76172854
54-183 (A1)	20-May-10	15:27:41	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	146	1	20-May-10	15:27:41	39656015	-76173489
54-183 (A1)	20-May-10	15:28:41	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	126	2	20-May-10	15:29:42	39656488	-76173233
54-183 (A1)	20-May-10	15:30:44	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	151	1	20-May-10	15:30:44	39656488	-76173233
54-183 (A1)	20-May-10	15:32:50	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	87	1	20-May-10	15:32:50	39657186	-76172854
54-183 (A1)	20-May-10	15:33:39	Conowingo Tailrace Units 1-7 Master	17	A	86	1	20-May-10	15:33:39		
54-183 (A1)	20-May-10	15:37:02	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	69	1	20-May-10	15:37:02	39657186	-76172854
54-183 (A1)	20-May-10	15:38:57	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	116	1	20-May-10	15:38:57	39656488	-76173233
54-183 (A1)	20-May-10	15:39:02	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	127	1	20-May-10	15:39:02	39656845	-76173035
54-183 (A1)	20-May-10	15:45:24	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	136	2	20-May-10	15:48:26	39657186	-76172854
54-183 (A1)	20-May-10	15:46:41	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	127	1	20-May-10	15:46:41	39657308	-76172818
54-183 (A1)	20-May-10	15:49:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	139	1	20-May-10	15:49:24	39656845	-76173035
54-183 (A1)	20-May-10	15:50:16	Conowingo Tailrace Units 1-7 Master	17	A	97	4	20-May-10	15:53:36		
54-183 (A1)	20-May-10	15:50:32	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	163	3	20-May-10	15:52:45	39657186	-76172854
54-183 (A1)	20-May-10	15:51:34	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	150	2	20-May-10	15:54:51	39656845	-76173035
54-183 (A1)	20-May-10	15:53:42	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	131	2	20-May-10	15:54:48	39656488	-76173233
54-183 (A1)	20-May-10	15:56:00	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	107	1	20-May-10	15:56:00	39656488	-76173233
54-183 (A1)	20-May-10	15:56:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	79	1	20-May-10	15:56:04	39656845	-76173035
54-183 (A1)	20-May-10	15:56:10	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	132	3	20-May-10	15:58:36	39657186	-76172854
54-183 (A1)	20-May-10	15:57:01	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	145	1	20-May-10	15:57:01	39657308	-76172818
54-183 (A1)	20-May-10	15:58:52	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	122	2	20-May-10	16:02:40	39657308	-76172818
54-183 (A1)	20-May-10	16:00:55	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	155	2	20-May-10	16:02:11	39657186	-76172854
54-183 (A1)	20-May-10	16:09:10	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	101	1	20-May-10	16:09:10	39657308	-76172818
54-183 (A1)	20-May-10	16:09:24	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	81	1	20-May-10	16:09:24	39657186	-76172854
54-183 (A1)	20-May-10	16:11:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	111	2	20-May-10	16:15:07	39657186	-76172854
54-183 (A1)	20-May-10	16:13:46	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	86	1	20-May-10	16:13:46	39656488	-76173233
54-183 (A1)	20-May-10	16:13:51	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	103	2	20-May-10	16:15:00	39656845	-76173035
54-183 (A1)	20-May-10	16:14:50	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	80	1	20-May-10	16:14:50	39657308	-76172818
54-183 (A1)	20-May-10	16:16:16	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	107	2	20-May-10	16:19:41	39657186	-76172854
54-183 (A1)	20-May-10	16:20:36	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	116	1	20-May-10	16:20:36	39657308	-76172818
54-183 (A1)	20-May-10	16:20:36	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	134	1	20-May-10	16:20:36	39656845	-76173035
54-183 (A1)	20-May-10	16:20:42	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	67	1	20-May-10	16:20:42	39657480	-76172724
54-183 (A1)	20-May-10	16:20:42	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	155	2	20-May-10	16:21:49	39657186	-76172854
54-183 (A1)	20-May-10	16:24:29	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	92	1	20-May-10	16:24:29	39657308	-76172818
54-183 (A1)	20-May-10	16:26:25	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	131	3	20-May-10	16:28:47	39657186	-76172854
54-183 (A1)	20-May-10	16:29:54	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	121	1	20-May-10	16:29:54	39656845	-76173035
54-183 (A1)	20-May-10	16:31:14	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	116	2	20-May-10	16:34:50	39657186	-76172854
54-183 (A1)	20-May-10	16:33:28	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	87	2	20-May-10	16:34:42	39656845	-76173035
54-183 (A1)	20-May-10	16:35:53	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	122	2	20-May-10	16:39:45	39656845	-76173035
54-183 (A1)	20-May-10	16:36:05	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	78	2	20-May-10	16:37:04	39657308	-76172818
54-183 (A1)	20-May-10	16:36:54	Conowingo Tailrace Units 1-7 Master	17	A	63	1	20-May-10	16:36:54		
54-183 (A1)	20-May-10	16:37:11	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	100	1	20-May-10	16:37:11	39657480	-76172724
54-183 (A1)	20-May-10	16:37:16	Conowingo Tailrace Unit 9 (Mid-Field)	17	3	155	2	20-May-10	16:39:51	39657186	-76172854
54-183 (A1)	20-May-10	16:39:57	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	122	2	20-May-10	16:41:54	39657308	-76172818
54-183 (A1)	20-May-10	16:40:44	Conowingo Tailrace Units 1-7 Master	17	A	113	3	20-May-10	16:45:29		
54-183 (A1)	20-May-10	16:41:01	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	140	4	20-May-10	16:44:38	39657186	-76172854
54-183 (A1)	20-May-10	16:41:58	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	88	1	20-May-10	16:41:58	39657480	-76172724
54-183 (A1)	20-May-10	16:44:26	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	141	1	20-May-10	16:44:26	39656488	-76173233
54-183 (A1)	20-May-10	16:44:32	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	167	1	20-May-10	16:44:32	39656845	-76173035
54-183 (A1)	20-May-10	16:45:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	118	3	20-May-10	16:49:43	39657186	-76172854
54-183 (A1)	20-May-10	16:46:34	Conowingo Tailrace Unit 8 (Mid-Field)	7	1	94	2	20-May-10	16:48:30	39657308	-76172818
54-183 (A1)	20-May-10	16:48:10	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	88	2	20-May-10	16:49:30	39656488	-76173233
54-183 (A1)	20-May-10	16:48:14	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	86	1	20-May-10	16:48:14	39656845	-76173035
54-183 (A1)	20-May-10	16:50:45	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	65	2	20-May-10	16:52:27	39656488	-76173233
54-183 (A1)	20-May-10	16:51:04	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	142	3	20-May-10	16:53:42	39656845	-76173035
54-183 (A1)	20-May-10	16:53:48	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	143	2	20-May-10	16:55:00	39657186	-76172854

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-183 (A1)	20-May-10	16:55:15	Conowingo Tailrace Unit 9 (Mid-Field)	7	2	85	1	20-May-10	16:55:15	39657480	-76172724
54-183 (A1)	20-May-10	16:56:01	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	131	3	20-May-10	17:00:39	39656845	-76173035
54-183 (A1)	20-May-10	16:58:22	Conowingo Tailrace Unit 7 (Mid-Field)	17	3	157	2	20-May-10	16:59:34	39657186	-76172854
54-183 (A1)	20-May-10	17:00:28	Conowingo Tailrace Units 1-7 Master	17	A	63	1	20-May-10	17:00:28		
54-183 (A1)	20-May-10	17:00:35	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	163	1	20-May-10	17:00:35	39656488	-76173233
54-183 (A1)	20-May-10	17:01:40	Conowingo Tailrace Unit 1 (Mid-Field)	17	0	52	1	20-May-10	17:01:40	39656015	-76173489
54-183 (A1)	20-May-10	17:02:50	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	84	2	20-May-10	17:03:58	39656488	-76173233
54-183 (A1)	20-May-10	17:06:24	Conowingo Tailrace Unit 5 (Mid-Field)	17	2	77	1	20-May-10	17:06:24	39656845	-76173035
54-183 (A1)	20-May-10	17:07:27	Conowingo Tailrace Unit 3 (Mid-Field)	17	1	75	3	20-May-10	17:09:47	39656488	-76173233
54-183 (A1)	20-May-10	21:31:44	Lapidum (West Shore) (Near-Field)	10	0	77	2	20-May-10	21:34:08	39601082	-76126821
54-183 (A1)	20-May-10	22:02:23	Tomes Landing (East Shore) (Near-Field)	9	A	73	4	20-May-10	22:03:34	39601353	-76115587
54-183 (A1)	20-May-10	22:05:20	Tomes Landing (East Shore) (Near-Field)	9	A	60	1	20-May-10	22:05:20	39601353	-76115587
54-183 (A1)	21-May-10	0:17:43	Lapidum (West Shore) (Near-Field)	10	0	66	1	21-May-10	0:17:43	39601082	-76126821
54-183 (A1)	21-May-10	0:50:08	Tomes Landing (East Shore) (Near-Field)	9	A	70	3	21-May-10	0:50:33	39601353	-76115587
54-183 (A1)	21-May-10	0:50:56	Tomes Landing (East Shore) (Near-Field)	9	A	67	6	21-May-10	0:53:01	39601353	-76115587
54-183 (A1)	21-May-10	1:04:46	Tomes Landing (East Shore) (Near-Field)	9	A	61	1	21-May-10	1:04:46	39601353	-76115587
54-183 (A1)	21-May-10	1:06:13	Tomes Landing (East Shore) (Near-Field)	9	A	77	12	21-May-10	1:09:49	39601353	-76115587
54-183 (A1)	21-May-10	1:12:12	Tomes Landing (East Shore) (Near-Field)	9	A	115	12	21-May-10	1:15:36	39601353	-76115587
54-183 (A1)	21-May-10	1:16:01	Tomes Landing (East Shore) (Near-Field)	9	A	125	19	21-May-10	1:20:38	39601353	-76115587
54-183 (A1)	21-May-10	1:20:50	Tomes Landing (East Shore) (Near-Field)	9	A	115	10	21-May-10	1:25:33	39601353	-76115587
54-183 (A1)	21-May-10	1:28:10	Tomes Landing (East Shore) (Near-Field)	9	A	104	8	21-May-10	1:30:36	39601353	-76115587
54-183 (A1)	21-May-10	1:31:11	Tomes Landing (East Shore) (Near-Field)	9	A	88	7	21-May-10	1:35:13	39601353	-76115587
54-183 (A1)	21-May-10	1:36:00	Tomes Landing (East Shore) (Near-Field)	9	A	132	14	21-May-10	1:40:38	39601353	-76115587
54-183 (A1)	21-May-10	1:40:50	Tomes Landing (East Shore) (Near-Field)	9	A	121	11	21-May-10	1:45:43	39601353	-76115587
54-183 (A1)	21-May-10	1:45:55	Tomes Landing (East Shore) (Near-Field)	9	A	121	17	21-May-10	1:50:27	39601353	-76115587
54-183 (A1)	21-May-10	1:50:51	Tomes Landing (East Shore) (Near-Field)	9	A	120	9	21-May-10	1:55:30	39601353	-76115587
54-183 (A1)	21-May-10	1:56:11	Tomes Landing (East Shore) (Near-Field)	9	A	98	8	21-May-10	2:00:34	39601353	-76115587
54-183 (A1)	21-May-10	2:01:11	Tomes Landing (East Shore) (Near-Field)	9	A	78	12	21-May-10	2:05:48	39601353	-76115587
54-183 (A1)	21-May-10	2:06:16	Tomes Landing (East Shore) (Near-Field)	9	A	83	4	21-May-10	2:10:04	39601353	-76115587
54-183 (A1)	21-May-10	2:12:09	Tomes Landing (East Shore) (Near-Field)	9	A	76	8	21-May-10	2:16:13	39601353	-76115587
54-183 (A1)	21-May-10	2:16:42	Tomes Landing (East Shore) (Near-Field)	9	A	70	9	21-May-10	2:19:52	39601353	-76115587
54-183 (A1)	21-May-10	2:23:40	Tomes Landing (East Shore) (Near-Field)	9	A	59	1	21-May-10	2:23:40	39601353	-76115587
54-183 (A1)	30-May-10	11:53:27	Lapidum (West Shore) (Near-Field)	10	0	125	3	30-May-10	11:54:03	39601082	-76126821
54-183 (A1)	30-May-10	11:56:33	Lapidum (West Shore) (Near-Field)	10	0	60	1	30-May-10	11:56:33	39601082	-76126821
54-183 (A1)	30-May-10	12:41:27	Lapidum (West Shore) (Near-Field)	10	0	99	5	30-May-10	12:42:49	39601082	-76126821
54-183 (A1)	30-May-10	12:51:46	Lapidum (West Shore) (Near-Field)	10	0	125	1	30-May-10	12:51:46	39601082	-76126821
54-183 (A1)	30-May-10	12:55:34	Lapidum (West Shore) (Near-Field)	10	0	65	1	30-May-10	12:55:34	39601082	-76126821
54-183 (A1)	30-May-10	12:59:07	Spencer Island West (Near-Field)	8	2	86	1	30-May-10	12:59:07	39605974	-76130720
54-183 (A1)	30-May-10	13:02:06	Lapidum (West Shore) (Near-Field)	10	0	69	1	30-May-10	13:02:06	39601082	-76126821
54-183 (A1)	30-May-10	13:05:52	Lapidum (West Shore) (Near-Field)	10	0	93	2	30-May-10	13:06:27	39601082	-76126821
54-183 (A1)	30-May-10	13:10:42	Spencer Island East (Near-Field)	8	A	94	3	30-May-10	13:12:51	39607218	-76127764
54-183 (A1)	30-May-10	13:10:52	Spencer Island West (Near-Field)	8	2	101	3	30-May-10	13:13:01	39605974	-76130720
54-183 (A1)	30-May-10	13:13:20	Spencer Island East (Near-Field)	8	A	80	6	30-May-10	13:15:00	39607218	-76127764
54-183 (A1)	30-May-10	13:13:30	Spencer Island West (Near-Field)	8	2	100	6	30-May-10	13:16:52	39605974	-76130720
54-183 (A1)	30-May-10	13:26:49	Spencer Island East (Near-Field)	8	A	85	1	30-May-10	13:26:49	39607218	-76127764
54-183 (A1)	30-May-10	13:29:24	Spencer Island East (Near-Field)	8	A	96	1	30-May-10	13:29:24	39607218	-76127764
54-183 (A1)	30-May-10	13:32:54	Spencer Island West (Near-Field)	8	2	80	1	30-May-10	13:32:54	39605974	-76130720
54-183 (A1)	30-May-10	13:34:22	Spencer Island West (Near-Field)	8	2	83	1	30-May-10	13:34:22	39605974	-76130720
54-183 (A1)	30-May-10	13:40:56	Spencer Island East (Near-Field)	8	A	99	2	30-May-10	13:41:54	39607218	-76127764
54-183 (A1)	30-May-10	13:44:30	Spencer Island East (Near-Field)	8	A	51	2	30-May-10	13:44:30	39607218	-76127764
54-183 (A1)	30-May-10	13:44:40	Spencer Island West (Near-Field)	8	2	69	2	30-May-10	13:44:40	39605974	-76130720
54-183 (A1)	30-May-10	13:54:54	Lapidum (West Shore) (Near-Field)	10	0	120	3	30-May-10	13:55:18	39601082	-76126821
54-183 (A1)	30-May-10	13:55:30	Lapidum (West Shore) (Near-Field)	10	0	113	11	30-May-10	13:59:52	39601082	-76126821
54-183 (A1)	30-May-10	14:03:54	Lapidum (West Shore) (Near-Field)	10	0	65	1	30-May-10	14:03:54	39601082	-76126821
54-183 (A1)	30-May-10	14:07:31	Lapidum (West Shore) (Near-Field)	10	0	59	1	30-May-10	14:07:31	39601082	-76126821
54-183 (A1)	30-May-10	14:39:52	Lapidum (West Shore) (Near-Field)	10	0	75	1	30-May-10	14:39:52	39601082	-76126821
54-183 (A1)	30-May-10	14:40:51	Lapidum (West Shore) (Near-Field)	10	0	115	21	30-May-10	14:45:27	39601082	-76126821
54-183 (A1)	30-May-10	14:45:40	Lapidum (West Shore) (Near-Field)	10	0	115	10	30-May-10	14:47:49	39601082	-76126821
54-183 (A1)	30-May-10	14:56:54	Spencer Island East (Near-Field)	8	A	110	2	30-May-10	14:57:20	39607218	-76127764
54-183 (A1)	30-May-10	14:59:00	Spencer Island East (Near-Field)	8	A	93	5	30-May-10	15:03:27	39607218	-76127764
54-183 (A1)	30-May-10	14:59:09	Spencer Island West (Near-Field)	8	2	89	4	30-May-10	15:03:36	39605974	-76130720
54-183 (A1)	30-May-10	15:04:10	Spencer Island East (Near-Field)	8	A	83	5	30-May-10	15:08:35	39607218	-76127764
54-183 (A1)	30-May-10	15:05:49	Spencer Island West (Near-Field)	8	2	93	2	30-May-10	15:08:44	39605974	-76130720
54-183 (A1)	30-May-10	15:09:01	Spencer Island East (Near-Field)	8	A	77	5	30-May-10	15:12:09	39607218	-76127764
54-183 (A1)	30-May-10	15:10:25	Spencer Island West (Near-Field)	8	2	102	3	30-May-10	15:11:25	39605974	-76130720

Fish	StartDate	StartTime	Location	Rec.	Ant.	Pwr.	Eve.	StopDate	StopTime	Lat.	Long.
54-183 (A1)	30-May-10	15:15:01	Spencer Island East (Near-Field)	8	A	67	1	30-May-10	15:15:01	39607218	-76127764
54-183 (A1)	30-May-10	15:15:11	Spencer Island West (Near-Field)	8	2	96	1	30-May-10	15:15:11	39605974	-76130720
54-183 (A1)	30-May-10	15:27:13	Spencer Island East (Near-Field)	8	A	72	2	30-May-10	15:29:01	39607218	-76127764
54-183 (A1)	30-May-10	15:27:22	Spencer Island West (Near-Field)	8	2	118	1	30-May-10	15:27:22	39605974	-76130720
54-183 (A1)	30-May-10	15:30:32	Spencer Island East (Near-Field)	8	A	67	1	30-May-10	15:30:32	39607218	-76127764
54-183 (A1)	30-May-10	15:30:41	Spencer Island West (Near-Field)	8	2	88	1	30-May-10	15:30:41	39605974	-76130720
54-183 (A1)	30-May-10	15:33:54	Lapidum (West Shore) (Near-Field)	10	0	63	2	30-May-10	15:34:54	39601082	-76126821
54-183 (A1)	30-May-10	15:36:06	Lapidum (West Shore) (Near-Field)	10	0	82	14	30-May-10	15:40:32	39601082	-76126821
54-183 (A1)	30-May-10	17:59:00	Lapidum (West Shore) (Near-Field)	10	0	75	4	30-May-10	18:01:18	39601082	-76126821
54-183 (A1)	30-May-10	18:01:41	Lapidum (West Shore) (Near-Field)	10	0	78	6	30-May-10	18:05:25	39601082	-76126821
54-183 (A1)	30-May-10	18:06:44	Lapidum (West Shore) (Near-Field)	10	0	90	3	30-May-10	18:08:08	39601082	-76126821
54-183 (A1)	30-May-10	18:13:49	Spencer Island East (Near-Field)	8	A	62	1	30-May-10	18:13:49	39607218	-76127764
54-183 (A1)	30-May-10	18:18:51	Spencer Island East (Near-Field)	8	A	79	1	30-May-10	18:18:51	39607218	-76127764
54-183 (A1)	30-May-10	18:20:05	Spencer Island East (Near-Field)	8	A	91	4	30-May-10	18:23:42	39607218	-76127764
54-183 (A1)	30-May-10	18:20:14	Spencer Island West (Near-Field)	8	2	98	2	30-May-10	18:23:51	39605974	-76130720
54-183 (A1)	30-May-10	18:27:15	Spencer Island West (Near-Field)	8	2	78	1	30-May-10	18:27:15	39605974	-76130720
54-183 (A1)	30-May-10	19:08:13	Spencer Island East (Near-Field)	8	A	50	1	30-May-10	19:08:13	39607218	-76127764
54-183 (A1)	30-May-10	19:11:46	Spencer Island East (Near-Field)	8	A	108	9	30-May-10	19:14:50	39607218	-76127764
54-183 (A1)	30-May-10	19:13:06	Spencer Island West (Near-Field)	8	2	95	6	30-May-10	19:15:00	39605974	-76130720
54-183 (A1)	30-May-10	19:15:19	Spencer Island East (Near-Field)	8	A	107	3	30-May-10	19:16:02	39607218	-76127764
54-183 (A1)	30-May-10	19:15:28	Spencer Island West (Near-Field)	8	2	104	3	30-May-10	19:16:13	39605974	-76130720
54-183 (A1)	30-May-10	19:19:05	Lapidum (West Shore) (Near-Field)	10	0	99	3	30-May-10	19:20:54	39601082	-76126821
54-183 (A1)	30-May-10	19:22:20	Lapidum (West Shore) (Near-Field)	10	0	113	4	30-May-10	19:24:07	39601082	-76126821
54-183 (A1)	30-May-10	21:26:38	Lapidum (West Shore) (Near-Field)	10	0	77	2	30-May-10	21:27:13	39601082	-76126821
54-183 (A1)	30-May-10	21:29:52	Lapidum (West Shore) (Near-Field)	10	0	77	5	30-May-10	21:32:22	39601082	-76126821



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 1	
54-192 (A1)	20-Apr-10	7:53:00	Conowingo Tailrace	Release - Downstream of "C" Gate		31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C				58.4						
54-192 (A1)	20-Apr-10	17:20:18	Rowland Island East (Near-Field)	Start Tailrace Detection 1		31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C				58.4	3	4,5,6,7,8				
54-192 (A1)	20-Apr-10	17:28:27	Rowland Island East (Near-Field)	End Tailrace Detection 1		31570	0	0	0	5970	5000	6050	5840	8710	0	0	0	None	C				58.4						
54-192 (A1)	21-Apr-10	4:10:09	Spencer Island East (Near-Field)	Start Lower River		12120	0	0	0	0	5580	0	6540	0	0	0	0	None	A	down	stay		58.1						
54-192 (A1)	02-May-10	12:21:23	Tomes Landing (East Shore) (Near-Field)	End Lower River		34790	0	4440	0	0	4730	6210	1990	8710	8710	0	0	None	C	up	stay		62.5						
54-192 (A1)	03-May-10	11:43:01	Rowland Island West (Near-Field)	Start Tailrace Detection 2	E	8910	0	4450	0	0	4460	0	0	0	0	0	0	None	A	down	stay		65.5	1	2,5				
54-192 (A1)	03-May-10	12:30:00	Rowland Island West	Rowland Island West	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C	up	stay		65.5	6	1,2,3,4,5,6,7,8,9,11	1		no response to generation	
54-192 (A1)	03-May-10	13:30:00	Rowland Island West	Rowland Island West	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
54-192 (A1)	03-May-10	14:30:00	Rowland Island West	Rowland Island West	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
54-192 (A1)	03-May-10	15:30:00	Rowland Island West	Rowland Island West	E	64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
54-192 (A1)	03-May-10	16:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
54-192 (A1)	03-May-10	17:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
54-192 (A1)	03-May-10	18:30:00				64660	5520	4450	6160	5960	4460	5950	6110	8720	8690	0	8640	None	C				65.5						
54-192 (A1)	03-May-10	19:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C	up	stay		65.5	7	1,2,3,4,5,6,7,8,9,10,11			no response to generation	
54-192 (A1)	03-May-10	20:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				65.5						
54-192 (A1)	03-May-10	21:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				65.5						
54-192 (A1)	03-May-10	22:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				65.5						
54-192 (A1)	03-May-10	23:30:00				73360	5520	4450	6160	5960	4460	5950	6110	8720	8690	8700	8640	None	C				65.5						
54-192 (A1)	04-May-10	0:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	1:30:00				74610	5830	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	2:30:00				34030	0	4770	6120	5920	4820	6150	6250	0	0	0	0	None	A	down	stay		68.1	3	2,3,4,5,6,7	1			
54-192 (A1)	04-May-10	3:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		68.1	1	2,5	1		no response to generation	
54-192 (A1)	04-May-10	4:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				68.1						
54-192 (A1)	04-May-10	5:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				68.1						
54-192 (A1)	04-May-10	6:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				68.1						
54-192 (A1)	04-May-10	7:30:00				9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				68.1						
54-192 (A1)	04-May-10	8:30:00		Rowland Island West	E	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A	up	stay		68.1	2	2,5,6,7	1		no response to generation	
54-192 (A1)	04-May-10	9:30:00		Rowland Island West	E	21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				68.1						
54-192 (A1)	04-May-10	10:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				68.1						
54-192 (A1)	04-May-10	11:30:00				21990	0	4770	0	0	4820	6150	6250	0	0	0	0	None	A				68.1						
54-192 (A1)	04-May-10	12:30:00		Rowland Island West	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C	up	stay		68.1	7	2,3,4,5,6,7,8,9,10,11	1		no response to generation	
54-192 (A1)	04-May-10	12:51:16	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	13:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	14:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	15:07:37	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		up		68.1				1		move up, no change in generation
54-192 (A1)	04-May-10	15:30:00		Conowingo Tailrace Unit 1/Unit 5	A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1				3		move back and forth, no change in generation
54-192 (A1)	04-May-10	16:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	17:30:00		Conowingo Tailrace Unit 7	B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	17:37:50	"C" Gate Aerial	Start EFL Aerial Detection	C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	17:48:18	"A" Gate Aerial	End EFL Aerial Detection	C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	18:30:00		Conowingo Tailrace Unit 8 /Unit 1&3	C/A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	18:45:08	Conowingo Tailrace Unit 1 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	19:02:52	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C		down		68.1				0		drop back, no change in generation
54-192 (A1)	04-May-10	19:02:52	Rowland Island West (Near-Field)	End Tailrace Detection 2	E	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)		19:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)		20:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	04-May-10	21:29:43	Lapidum (West Shore) (Near-Field)	Start Lower River		68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1						
54-192 (A1)	09-May-10	4:59:21	Lapidum (West Shore) (Near-Field)	End Detections		8510	0	4030	0	0	4480	0	0	0	0	0	0	None	A	down	stay		67.2						



Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 1	
54-193 (A1)	20-Apr-10	13:08:00	Conwingo Tailrace	Release - Downstream Units 5 & 7		10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				58.4						
54-193 (A1)	NA	NA	NA	Start Tailrace Detection 1														None	A										
54-193 (A1)	NA	NA	NA	Transition Upstream 1 (Tailrace to Upper Tailrace)														None	A										
54-193 (A1)	28-Apr-10	13:56:42	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	A	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		58.6	4	4,5,6,7,8,9	3			
54-193 (A1)	28-Apr-10	14:30:00		Conowingo Tailrace Unit 7 (Mid-Field)	B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
54-193 (A1)	28-Apr-10	15:30:00		Upper Tailrace West/Middle	A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
54-193 (A1)	28-Apr-10	16:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
54-193 (A1)	28-Apr-10	17:30:00		Upper Tailrace West/Middle	A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
54-193 (A1)	28-Apr-10	18:18:42	Conowingo Tailrace Unit 9 (Mid-Field)	Point closest to EFL	C	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
54-193 (A1)	28-Apr-10	18:30:00		Upper Tailrace West/Middle/East	A/B/C	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
54-193 (A1)	28-Apr-10	19:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
54-193 (A1)	28-Apr-10	20:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
54-193 (A1)	28-Apr-10	21:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
54-193 (A1)	28-Apr-10	22:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
54-193 (A1)	28-Apr-10	23:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6						
54-193 (A1)	29-Apr-10	0:30:00		Upper Tailrace Middle	B	23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A	down	stay		58.6	2	3,5,6,7	2	no change in behavior due to generation		
54-193 (A1)	29-Apr-10	1:30:00		Upper Tailrace West/Middle	A/B	23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				56.8						
54-193 (A1)	29-Apr-10	2:30:00		Upper Tailrace Middle	B	23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				56.8						
54-193 (A1)	29-Apr-10	3:30:00		Upper Tailrace Middle/East	B/C	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		56.8	1	3,5,6,7	2	move east as generation dropped		
54-193 (A1)	29-Apr-10	4:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
54-193 (A1)	29-Apr-10	5:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
54-193 (A1)	29-Apr-10	6:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
54-193 (A1)	29-Apr-10	7:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
54-193 (A1)	29-Apr-10	8:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
54-193 (A1)	29-Apr-10	9:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
54-193 (A1)	29-Apr-10	10:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
54-193 (A1)	29-Apr-10	11:30:00		Upper Tailrace Middle	B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
54-193 (A1)	29-Apr-10	12:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8						
54-193 (A1)	29-Apr-10	13:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C	up	stay		56.8	6	1,2,3,4,5,6,7,8,9,10,11	1	no change in behavior due to generation		
54-193 (A1)	29-Apr-10	14:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8						
54-193 (A1)	29-Apr-10	15:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8						
54-193 (A1)	29-Apr-10	16:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8						
54-193 (A1)	29-Apr-10	17:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8						
54-193 (A1)	29-Apr-10	18:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8						
54-193 (A1)	29-Apr-10	19:30:00		Upper Tailrace West	A	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8						
54-193 (A1)	29-Apr-10	20:30:00		Upper Tailrace West/Middle	A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8						
54-193 (A1)	29-Apr-10	21:30:00		Upper Tailrace West/Middle	A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8						
54-193 (A1)	29-Apr-10	22:30:00		Upper Tailrace West/Middle	A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8						
54-193 (A1)	29-Apr-10	23:30:00		Upper Tailrace West/Middle	A/B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		56.8	1	5,7	2	no change in behavior due to generation		
54-193 (A1)	30-Apr-10	0:30:00		Upper Tailrace Middle	B	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0						
54-193 (A1)	30-Apr-10	1:30:00		Upper Tailrace West/Middle	A/B	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0						
54-193 (A1)	30-Apr-10	2:30:00		Upper Tailrace Middle	B	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0						
54-193 (A1)	30-Apr-10	3:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0						
54-193 (A1)	30-Apr-10	4:30:00		Upper Tailrace Middle	B	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0						
54-193 (A1)	30-Apr-10	5:30:00		Upper Tailrace Middle	B	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0						
54-193 (A1)	30-Apr-10	5:47:13	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	40210	0	0	0	5810	5030	5640	6180	8690	8770	0	90	None	C	up	stay		57.0	4	4,5,6,7,8,9	1	no change in behavior due to generation		
54-193 (A1)	NA	NA	NA	Transition Downstream 1 (Upper Tailrace to Tailrace)														None	A										
54-193 (A1)	NA	NA	NA	End Tailrace Detection 1														None	A										
54-193 (A1)	01-May-10	18:30:27	Lapidum (West Shore) (Near-Field)	Start Lower River		68870	0	4600	6340	6060	4780	6160	6130	8700	8710	8790	8600	None	C	up	stay		59.1						
54-193 (A1)	02-May-10	1:49:06	Lapidum (West Shore) (Near-Field)	End Detections		9170	0	4440	0	0	4730	0	0	0	0	0	0	None	A	down	stay		62.5						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 1
54-196 (R2)	20-Apr-10	13:24:00	Conowingo Tailrace	Downstream Units 5 & 7		10840	0	0	0	0	5000	0	5840	0	0	0	0	None	A				58.4					
54-196 (R2)	25-Apr-10	21:23:15	Rowland Island West (Near-Field)	Start Tailrace Detection 1	E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A	up	stay		61.0	2	4,5,6,7	0		
54-196 (R2)	25-Apr-10	21:30:00		Rowland Island West	E	22960	0	0	0	5920	5200	5790	6050	0	0	0	0	None	A				61.0					
54-196 (R2)	25-Apr-10	21:58:52	Rowland Island West (Near-Field)	Transition Upstream 1 (Tailrace to Upper Tailrace)	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A	down	stay		61.0	1	5,7	2	move up after drop in generation	
54-196 (R2)	25-Apr-10	22:22:38	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 1)	B	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A		up		61.0					
54-196 (R2)	25-Apr-10	22:29:33	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 1)	B	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
54-196 (R2)	25-Apr-10	22:30:00		Upper Tailrace West/Middle	A/B	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
54-196 (R2)	25-Apr-10	22:49:02	Rowland Island West (Near-Field)	Transition Downstream 1 (Upper Tailrace to Tailrace)	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A		down		61.0				drop back, no change in generation	
54-196 (R2)	25-Apr-10	23:30:00		Rowland Island West	E	11250	0	0	0	0	5200	0	6050	0	0	0	0	None	A				61.0					
54-196 (R2)	26-Apr-10	0:30:00		Rowland Island West	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
54-196 (R2)	26-Apr-10	1:30:00		Rowland Island West	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
54-196 (R2)	26-Apr-10	2:30:00		Rowland Island West	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
54-196 (R2)	26-Apr-10	3:08:39	Rowland Island West (Near-Field)	Transition Upstream 2 (Tailrace to Upper Tailrace)	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
54-196 (R2)	26-Apr-10	3:30:00		Rowland Island West	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
54-196 (R2)	26-Apr-10	3:35:29	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 2)	B	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A		up		60.9					
54-196 (R2)	26-Apr-10	4:30:00		Upper Tailrace West/Middle/East	A/B/C	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
54-196 (R2)	26-Apr-10	5:03:33	Conowingo Tailrace Unit 3 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 2)	A	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C	up	stay		60.9	4	4,5,6,7,8,9	1	drop back 5 min. after generation up	
54-196 (R2)	26-Apr-10	5:08:53	Rowland Island West (Near-Field)	Transition Downstream 2 (Upper Tailrace to Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		down		60.9					
54-196 (R2)	26-Apr-10	5:30:00		Upper Tailrace West/Middle/Rowland Island West	A/B/E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				move up, no change in generation	
54-196 (R2)	26-Apr-10	6:30:00				40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	7:15:02	Rowland Island West (Near-Field)	Transition Upstream 3 (Tailrace to Upper Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9				drop back, no change in generation	
54-196 (R2)	26-Apr-10	7:30:00		Rowland Island West	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	7:36:11	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 3)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		up		60.9				move up, no change in generation	
54-196 (R2)	26-Apr-10	8:25:39	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 3)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	8:30:00		Upper Tailrace West/Middle	A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	8:46:03	Rowland Island West (Near-Field)	Transition Downstream 3 (Upper Tailrace to Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		down		60.9				drop back, no change in generation	
54-196 (R2)	26-Apr-10	9:27:24	Rowland Island West (Near-Field)	Transition Upstream 4 (Tailrace to Upper Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	9:30:00		Rowland Island West	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	9:55:57	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 4)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		up		60.9				move up, no change in generation	
54-196 (R2)	26-Apr-10	10:30:00		Upper Tailrace West/Middle	A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	11:30:00		Upper Tailrace West/Middle/East	A/B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	12:30:00		Upper Tailrace Middle	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	13:30:00		Upper Tailrace Middle	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	14:30:00		Upper Tailrace Middle/East	B/C	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	15:30:00		Upper Tailrace West/Middle	A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	16:30:00		Upper Tailrace West/Middle	A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	17:30:00		Upper Tailrace Middle	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	18:30:00		Upper Tailrace Middle	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	19:30:00		Upper Tailrace West/Middle	A/B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	19:56:35	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 4)	B	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	20:24:32	Rowland Island West (Near-Field)	Transition Downstream 4 (Upper Tailrace to Tailrace)	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C		down		60.9				drop back, no change in generation	
54-196 (R2)	26-Apr-10	20:30:00		Rowland Island West	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	21:30:00		Rowland Island West	E	40770	0	0	0	6020	5240	6110	6060	8680	8660	0	0	None	C				60.9					
54-196 (R2)	26-Apr-10	22:30:00		Rowland Island West	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A	down	stay		60.9	1	5,7		no response to change in generation	
54-196 (R2)	26-Apr-10	23:30:00		Rowland Island West	E	11300	0	0	0	0	5240	0	6060	0	0	0	0	None	A				60.9					
54-196 (R2)	27-Apr-10	0:30:00		Rowland Island West	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-196 (R2)	27-Apr-10	1:30:00		Rowland Island West	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-196 (R2)	27-Apr-10	2:30:00		Rowland Island West	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-196 (R2)	27-Apr-10	3:30:00				11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-196 (R2)	27-Apr-10	4:30:00		Rowland Island West	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54-196 (R2)	27-Apr-10	5:30:00		Rowland Island West	E	11220	0	0	0	0	5180	0	6040	0	0	0	0	None	A				60.6					
54																												

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 1
54-196 (R2)	28-Apr-10	2:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
54-196 (R2)	28-Apr-10	3:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
54-196 (R2)	28-Apr-10	4:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
54-196 (R2)	28-Apr-10	5:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
54-196 (R2)	28-Apr-10	6:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
54-196 (R2)	28-Apr-10	7:30:00				11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
54-196 (R2)	28-Apr-10	8:30:00		Rowland Island West	E	11000	0	0	0	5880	5120	0	0	0	0	0	0	None	A				58.6					
54-196 (R2)	28-Apr-10	9:30:00		Rowland Island West	E	22770	0	0	0	5880	5120	5750	6020	0	0	0	0	None	A	up	stay		58.6	2	4,5,6,7		0	no response to generation
54-196 (R2)	28-Apr-10	10:30:00		Rowland Island West	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C	up	stay		58.6	4	4,5,6,7,8,9		0	no response to generation
54-196 (R2)	28-Apr-10	10:46:27	Rowland Island West (Near-Field)	Transition Upstream 7 (Tailrace to Upper Tailrace)	E	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	11:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	11:47:31	Conowingo Tailrace Unit 7 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 7)		40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	12:30:00		Upper Tailrace West/Middle	A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C		up		58.6				2	move up, no change in generation
54-196 (R2)	28-Apr-10	13:30:00		Upper Tailrace Middle	B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	14:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	15:30:00		Upper Tailrace West/Middle	A/B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	16:30:00		Upper Tailrace Middle	B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	17:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	18:30:00		Upper Tailrace West	A	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	19:30:00		Upper Tailrace Middle	B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	20:30:00		Upper Tailrace Middle	B	40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	21:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	22:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	28-Apr-10	23:30:00				40170	0	0	0	5880	5120	5750	6020	8720	8680	0	0	None	C				58.6					
54-196 (R2)	29-Apr-10	0:30:00		Upper Tailrace West/Middle	A/B	23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A	down	stay		56.8	2	3,5,6,8		2	no response to generation
54-196 (R2)	29-Apr-10	1:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				56.8					
54-196 (R2)	29-Apr-10	2:30:00				23080	0	0	6070	0	5120	5750	6140	0	0	0	0	None	A				56.8					
54-196 (R2)	29-Apr-10	3:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		56.8	1	5,7		2	no response to generation
54-196 (R2)	29-Apr-10	4:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
54-196 (R2)	29-Apr-10	5:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
54-196 (R2)	29-Apr-10	6:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
54-196 (R2)	29-Apr-10	7:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
54-196 (R2)	29-Apr-10	8:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
54-196 (R2)	29-Apr-10	9:30:00		Upper Tailrace Middle	B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8				1	move east, no change in generation
54-196 (R2)	29-Apr-10	10:30:00		Upper Tailrace Middle	B	11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
54-196 (R2)	29-Apr-10	11:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
54-196 (R2)	29-Apr-10	12:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A				56.8					
54-196 (R2)	29-Apr-10	13:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C	up	stay		56.8	6	1,2,3,4,5,6,7,8,9,10,11		1	no response to generation
54-196 (R2)	29-Apr-10	14:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
54-196 (R2)	29-Apr-10	15:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
54-196 (R2)	29-Apr-10	16:30:00		Upper Tailrace Middle	B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
54-196 (R2)	29-Apr-10	17:30:00		Upper Tailrace West/Middle	A/B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
54-196 (R2)	29-Apr-10	18:30:00		Upper Tailrace Middle	B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
54-196 (R2)	29-Apr-10	18:33:13	Conowingo Tailrace Unit 10 (Mid-Field)	Lead up to Single EFL Aerial Detection	C	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					drop back 5 hrs after increase in generation
54-196 (R2)	29-Apr-10	18:54:20	Conowingo Tailrace Unit 10 (Mid-Field)	Lead up to Single EFL Aerial Detection	C	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
54-196 (R2)	29-Apr-10	18:59:31	"C" Gate Aerial	Single EFL Aerial Detection	C	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
54-196 (R2)	29-Apr-10	19:30:00		Upper Tailrace Middle	B	65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
54-196 (R2)	29-Apr-10	20:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
54-196 (R2)	29-Apr-10	21:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
54-196 (R2)	29-Apr-10	22:30:00				65270	5240	4940	6070	5860	5120	5750	6140	8710	8660	8780	0	None	C				56.8					
54-196 (R2)	29-Apr-10	23:30:00				11260	0	0	0	0	5120	0	6140	0	0	0	0	None	A	down	stay		56.8	1	5,7		1	no response to generation
54-196 (R2)	30-Apr-10	0:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					
54-196 (R2)	30-Apr-10	1:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					
54-196 (R2)	30-Apr-10	2:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					
54-196 (R2)	30-Apr-10	3:30:00		Upper Tailrace Middle	B	11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					
54-196 (R2)	30-Apr-10	4:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					
54-196 (R2)	30-Apr-10	5:30:00				11210	0	0	0	0	5030	0	6180	0	0	0	0	None	A				57.0					
54-196 (R2)	30-Apr-10	6:30:00				40210	0	0	0	5810	5030	5640	6180	8690	8770	0	90	None	C	up	stay		57.0	4	4,5,6,7,8,9		1	no response to generation
54-196 (R2)	30-Apr-10	7:30:00				40210	0	0	0	5810	5030	5640	6180	8690	8770	0	90	None	C			</						

Fish ID	Date	Time	Location	Description	Tailrace Zone	Total Station Discharge	1	2	3	4	5	6	7	8	9	10	11	Spill	EFL Gate	Flow Trend	Fish Trend	Comment	Water Temp. (°F)	Flow Bin Number	Units On	Lateral Movement	Spill Deep Corner	Comments: NAI 1
54-196 (R2)	04-May-10	14:30:00		Rowland Island West/ Upper Tailrace West	E/A	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1					drop back, then up again, no change in generation
54-196 (R2)	04-May-10	15:30:00		Upper Tailrace West/Middle	A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1			2		back and forth, no change in generation
54-196 (R2)	04-May-10	16:30:00		Upper Tailrace Middle	B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1			3		
54-196 (R2)	04-May-10	17:30:00		Upper Tailrace West/Middle/East	A/B/C	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1			2		
54-196 (R2)	04-May-10	18:30:00		Upper Tailrace West/Middle	A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1					
54-196 (R2)	04-May-10	19:30:00		Upper Tailrace West/Middle	A/B	68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1					
54-196 (R2)	04-May-10	20:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1					
54-196 (R2)	04-May-10	21:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1					
54-196 (R2)	04-May-10	22:30:00				68780	0	4770	6120	5920	4820	6150	6250	8680	8640	8690	8740	None	C				68.1					
54-196 (R2)	04-May-10	23:30:00		Upper Tailrace Middle	B	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A	down	stay		68.1	1	2,5	1		stay in mid tailrace
54-196 (R2)	04-May-10	23:58:57	Conowingo Tailrace Unit 7 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 8)	B	9590	0	4770	0	0	4820	0	0	0	0	0	0	None	A				68.1					
54-196 (R2)	05-May-10	0:13:07	Rowland Island West (Near-Field)	Transition Downstream 8 (Upper Tailrace to Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		down		69.2	1	2,5	0		drop back, no significant change in generation
54-196 (R2)	05-May-10	0:30:00		Rowland Island West	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					
54-196 (R2)	05-May-10	1:30:00		Rowland Island West	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					
54-196 (R2)	05-May-10	2:30:00		Rowland Island West	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					
54-196 (R2)	05-May-10	3:30:00		Rowland Island West	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					
54-196 (R2)	05-May-10	4:30:00		Rowland Island West	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					
54-196 (R2)	05-May-10	4:34:14	Rowland Island West (Near-Field)	Transition Upstream 9 (Tailrace to Upper Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2			1		move up, no change in generation
54-196 (R2)	05-May-10	4:46:00	Conowingo Tailrace Unit 3 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 9)	A	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		up		69.2					
54-196 (R2)	05-May-10	5:30:00		Upper Tailrace West/Middle/East	A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2			3		back and forth, no change in generation
54-196 (R2)	05-May-10	6:14:20	Conowingo Tailrace Unit 5 (Mid-Field)	End Upper Tailrace Detection (End UT Foray 9)	B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					
54-196 (R2)	05-May-10	6:21:09	Rowland Island West (Near-Field)	Transition Downstream 9 (Upper Tailrace to Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		down		69.2			0		drop back, no change in generation
54-196 (R2)	05-May-10	6:30:00		Upper Tailrace West/Middle/Rowland Island West	A/B/E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					
54-196 (R2)	05-May-10	6:43:39	Rowland Island West (Near-Field)	Transition Upstream 10 (Tailrace to Upper Tailrace)	E	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					
54-196 (R2)	05-May-10	6:55:09	Conowingo Tailrace Unit 5 (Mid-Field)	Start Upper Tailrace Detection (Start UT Foray 10)	B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A		up		69.2			2,3		move up and back and forth, no change in generation
54-196 (R2)	05-May-10	7:30:00		Upper Tailrace West/Middle	A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					
54-196 (R2)	05-May-10	8:30:00		Upper Tailrace West/Middle	A/B	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					
54-196 (R2)	05-May-10	9:30:00		Upper Tailrace West/Middle/East	A/B/C	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					
54-196 (R2)	05-May-10	9:57:25	Conowingo Tailrace Unit 1 (Mid-Field)	Fish Caught in West FishLift	A	9110	0	4470	0	0	4640	0	0	0	0	0	0	None	A				69.2					West Fish Lift, no change in generation



**UPSTREAM FISH PASSAGE EFFECTIVENESS STUDY  
RSP 3.5**

**CONOWINGO HYDROELECTRIC PROJECT**

**FERC PROJECT NUMBER 405**



*Prepared for:*



*Prepared by:*

**Normandeau Associates, Inc.**

**Gomez and Sullivan Engineers, P.C.**

**February 2011**



## EXECUTIVE SUMMARY

Exelon Generation Company, LLC (Exelon) has initiated with the Federal Energy Regulatory Commission (FERC) the process of relicensing the 573-megawatt Conowingo Hydroelectric Project (Conowingo Project). The current license for the Conowingo Project was issued on 14 August 1980 and expires on 1 September 2014. FERC issued the final study plan determination for the Conowingo Project on 4 February 2010, approving the revised study plan with certain modifications. The final study plan determination required Exelon to conduct a Upstream Fish Passage Effectiveness Study, which is the subject of this report. The objectives of this study were: 1) to determine the fish passage efficiency of the Conowingo East Fish Lift (EFL) and 2) to identify factors, if any, that may influence efficiency on a daily or seasonal basis.

A radio telemetry study was conducted in the spring of 2010 to evaluate Upstream Passage Effectiveness of migratory adult American shad at the EFL. Fish used for the study were collected by either angling in the Conowingo Tailrace or trapping in the Conowingo West Fish Lift (WFL). A total of 151 radio tagged shad were released for the study; 102 were released in the Conowingo Tailrace and 49 were transported five miles downstream to Lapidum, Maryland and released. Shad from both release locations were combined into two run segments used for analysis; the Early-Mid shad run segment included the first 75 shad tagged and released and the Mid-Late shad run segment included the last 76 shad tagged and released.

The following three metrics were calculated: Fishway Attraction Effectiveness, Upstream Fish Passage Efficiency, and Upstream Fish Passage Effectiveness, and their definitions are given below.

**Fishway Attraction Effectiveness:** - The proportion of fish that enter a fishway from the number of fish available. For this study, “the number of fish available” is considered the number of radio tagged American shad detected on the eight downstream facing antennas located at the Powerhouse. The combined antenna array covered the width of the tailrace from the base of the dam to the upstream tip of Rowland Island.

**Upstream Fish Passage Efficiency:** - The proportion of fish that enter a fishway and pass upstream from those available. This is the definition used in the FERC (2004) review of fish passage mitigation.

**Upstream Fish Passage Effectiveness** : - The proportion of fish that enter a fishway, pass upstream, and remain upstream for a minimum of 48 hours from those available.

The findings of this study are summarized as follows:

Under existing Station and EFL operational conditions, 58.9% (89 of 151) of all radio tagged shad were detected in the tailrace making them accessible to the EFL. The remaining 41.1% (62 of 151) of the tagged shad dropped back to areas of the lower Susquehanna River and did not enter the tailrace. As noted by other researchers, drop back behavior related to post-tagging stress is typical of radio tagged shad and can affect migration behavior of up to 40% of the tagged fish.

Early-Mid run shad: - 68.0% (51 of 75) were detected in the tailrace.

Mid-Late run shad: - 50.0% (38 of 76) were detected in the tailrace.

Tailrace-released shad: - 68.6% (70 of 102) were detected in the tailrace.

Lapidum-released shad: - 38.8% (19 of 49) were detected in the tailrace.

**Fishway Attraction Effectiveness:** Of the 89 radio tagged shad detected in the tailrace, 73.0% (65 of 89) entered into the EFL.

Early-Mid run shad: - 70.6% (36 of 51 in the tailrace) entered into the EFL.

Mid-Late run shad: - 76.3% (29 of 38 in the tailrace) entered into the EFL.

Tailrace-released shad: - 72.9% (51 of 70 in the tailrace) entered into the EFL.

Lapidum-released shad: - 73.7% (14 of 19 in the tailrace) entered into the EFL.

**Upstream Fish Passage Efficiency:** Of the 89 radio tagged shad detected in the tailrace, 44.9% (40 of 89) completed passage through the EFL.

Early-Mid run shad: - 45.1% (23 of 51) completed passage through the EFL.

Mid-Late run shad: - 44.7% (17 of 38) completed passage through the EFL.

Tailrace-released shad: - 47.1% (33 of 70) completed passage through the EFL.

Lapidum-released shad: - 36.8% (7 of 19) completed passage through the EFL.

Of the 65 shad that entered the EFL, 61.5% (40 fish) successfully passed upstream.

**Upstream Fish Passage Effectiveness:** Of the 89 radio tagged shad detected in the tailrace, 43.8% (39 of 89) completed passage through the EFL and remained upstream for 48 hours or more after passage.

Early-Mid run shad: - 43.1% (22 of 51) completed passage through the EFL and remained upstream for 48 hours or more after passage.

Mid-Late run shad: - 44.7% (17 of 38) completed passage through the EFL and remained upstream for 48 hours or more after passage.

Tailrace-released shad: - 45.7% (32 of 70) completed passage through the EFL and remained upstream for 48 hours or more after passage.

Lapidum-released shad: - 36.8% (7 of 19) completed passage through the EFL and remained upstream for 48 hours or more after passage.

The 95% confidence interval was within the prespecified limits ( $\pm 10\%$ ) for all three metrics examined.

Twenty-one of 40 (52.5%) radio tagged shad with successful passage through the EFL were manually tracked upstream of the Conowingo Dam. Eighteen of 21 shad were detected in Conowingo Pond. Three of 21 shad were also detected upstream of Safe Harbor Dam; two of these shad successfully passed the York Haven Dam.

Twenty-three of 40 (57.5%) radio tagged shad with successful upstream passage of Conowingo Dam eventually re-entered the tailrace via the turbines. Fifteen of those passing downstream via the turbines were believed alive at last detection. Signals from the other eight shad became stationary after passing downstream via the turbines and were considered dead.

This study in conjunction with the report on Conowingo East Fish Lift Attraction Flows (RSP 3.6) provides useful information about the effectiveness of the EFL and suggests areas of investigation for potential improvements. These studies did not identify any single operational parameter for the Project or the EFL that will suggest substantial improvements in fish passage effectiveness. However, the discrepancy between the number of shad that enter the EFL (73% of available fish) and the number of shad that are successfully passed upstream (45%) is striking. The studies suggest that some physical aspects (e.g., Crowder Gate) may be the cause of this discrepancy and that improvements within the EFL may hold the most promise relative to improving the effectiveness of the EFL. It is recommended that

work in 2011 focus on the physical elements of the EFL (e.g., Crowder Gate) and flow patterns within the EFL. The following are recommended for further studies:

- Analyze EFL structures and hydraulics to increase shad retention inside the structure and to improve passage from the Entrance Channels to the Hopper.
- Collect all American shad by means of angling and release immediately upon tagging.

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## LIST OF ABBREVIATIONS

### *Agencies*

FERC	Federal Energy Regulatory Commission
MDNR	Maryland Department of Natural Resources

### *Units of Measure*

C	Celsius, Centigrade
cfs	cubic feet per second
d	day
F	Fahrenheit
fps	feet per second
hr	hour
m	meter
min	minute
MHz	megahertz
mm	millimeter
MW	megawatt
rm	river mile
sec	second

### *Miscellaneous*

EFL	East Fish Lift
F	female
M	male
ILP	Integrated Licensing Process
NOI	Notice of Intent
PAD	Pre-Application Document
PSP	Proposed Study Plan
RSP	Revised Study Plan
WFL	West Fish Lift

## DEFINITIONS FOR FISHWAY PASSAGE

**Fishway Attraction Effectiveness:** - The proportion of fish that enter a fishway from the number of fish available.

**Upstream Fish Passage Efficiency:** - The proportion of fish that enter a fishway and pass upstream from those available. This is the definition used in the FERC (2004) review of fish passage mitigation referenced in Introduction.

**Upstream Fish Passage Effectiveness** : - The proportion of fish that enter a fishway, pass upstream, and remain upstream for a minimum of 48 hours from those available.

Upstream Fish Passage Effectiveness is not often evaluated and perhaps difficult to define, as it builds on the Upstream Fish Passage Efficiency estimate. We define it as the effective number of fish that actually continue to migrate upstream, acknowledging that some fish that exit a fishway do not continue upstream migration.



## **1.0 INTRODUCTION**

Exelon Generation Company, LLC (Exelon) has initiated with the Federal Energy Regulatory Commission (FERC) the process of relicensing the 573-megawatt (MW) Conowingo Hydroelectric Project (Project). Exelon is applying for a new license using the FERC's Integrated Licensing Process (ILP). The current license for the Conowingo Project was issued on 14 August 1980 and it will expire on 1 September 2014.

Exelon filed its Pre-Application Document (PAD) and Notice of Intent (NOI) with FERC on 12 March 2009. On 11 and 12 June 2009, a site visit and two scoping meetings were held at the Project for resource agencies and interested members of the public. Following these meetings, formal study requests were filed with FERC by several resource agencies. Many of these study requests were included in Exelon's Proposed Study Plan (PSP), which was filed on 24 August 2009. On 22 and 23 September 22 2009, Exelon held a meeting with resource agencies and interested members of the public to discuss the PSP.

Formal comments on the PSP were filed with FERC on 22 November 2009 by Commission staff and several resource agencies. Exelon filed a Revised Study Plan (RSP) for the Project on 22 December 2009. FERC issued the final study plan determination for the Project on 4 February 2010, approving the RSP with certain modifications.

The final determination required Exelon to conduct an Upstream Fish Passage Effectiveness study on migratory adult American shad (*Alosa sapidissima*) and to monitor their behavior below Conowingo Dam in relationship to Project operations, which is the subject of this report. Findings from this study are synthesized with findings from concurrent studies, namely RSP 3.6 Conowingo East Fish Lift Attraction Flows, to address the need of a future study.

## 2.0 BACKGROUND

Fishways have been installed at numerous hydroelectric projects on American shad-bearing rivers on the Atlantic coast. Direct estimates of passage efficiency or effectiveness via a specially targeted passage effectiveness study are scarce. Methodologies for reported passage effectiveness or efficiency have also differed, as has the definition of what constitutes passage efficiency. FERC (2004) reported passage efficiency of the Conowingo East Fish Lift (EFL) as the number of American shad passed as a percentage of those estimated to be available. The numerator was the number passed and the denominator was the MDNR's population estimate below Conowingo Dam. This passage-count method is also used at other sites (e.g., dams on the Connecticut River; Merrimack River; and Lehigh River), but does not take into account: (a) the effects of station operations on passage of shad that can be variable between years and within season, and (b) the variable sexual maturity state of migrating shad. Another complicating factor at the Conowingo Dam is the mixed stock of American shad from various river origins; not all fish may be destined to migrate upstream. Additionally, similar efficiency estimate studies on various rivers have not taken into account the post-tagging dropback behavior of American shad. As a result, there was some uncertainty associated with the denominator (the number available for passage) relative to the numerator (the number that actually passed the facility).

The term dropback (or fallback) describes the downstream movement of an upstream migrating anadromous fish after tagging. In a literature review of anadromous shad and herring studies using radio or acoustic tags, post-tagging dropback ranged from 8.6 to 100% (Frank *et al.*, 2009). The spatial-temporal parameters (e.g., how long after release did it take the fish to start moving downstream, how fast did the fish move downstream, how far did the fish move downstream) used to define dropback varied among studies, yet the majority of researchers (63.6%) included fish with dropback in their analysis as long as the fish eventually returned upstream.

To clarify some of the confusion over vague terminology often used interchangeably, the fishway terms and their definitions as used in this report follows:

**Fishway Attraction Effectiveness:** - The proportion of fish that enter a fishway from the number of fish available. For this study, "the number of fish available" is considered the number of radio tagged American shad detected on the eight downstream facing antennas located at the Powerhouse. The combined antenna array covered the width of the tailrace from the base of the dam to the upstream tip of Rowland Island.

**Upstream Fish Passage Efficiency:** - The proportion of fish that enter a fishway and pass upstream from those available. This is the definition used in the FERC (2004) review of fish passage mitigation.

**Upstream Fish Passage Effectiveness** : - The proportion of fish that enter a fishway, pass upstream, and remain upstream for a minimum of 48 hours from those available.

Upstream Fish Passage Effectiveness is not often evaluated and perhaps difficult to define, as it builds on the Upstream Fish Passage Efficiency estimate. We define it as the effective number of fish that actually continue to migrate upstream, acknowledging that some fish that exit a fishway do not continue the upstream migration.

## **2.1 Project and EFL Descriptions**

The Conowingo Hydroelectric Project, built in 1928, is located at river mile (rm) 10 on the Susquehanna River ([Figure 2.1](#)). The powerhouse has a peaking generating capacity of 573 MW and a hydraulic capacity of approximately 86,000 cfs. Flows in excess of station capacity are spilled through two regulating and 50 crest gates. The powerhouse contains seven vertical Francis (numbered 1 through 7) and four mixed-flow Kaplan (numbered 8 through 11) turbines. The seven Francis units have been equipped with aeration systems that permit the unit to draw in air (vented mode) or operate conventionally (unvented mode). The four original Kaplan turbines installed in 1964 were replaced in the 1990's with more efficient mixed-flow Kaplan type turbines. Throughout this report, the small units will be collectively referred to as Francis units and the large units will be collectively referred to as mixed-flow Kaplan units.

The EFL, completed in 1991, is located immediately to the east of the mixed-flow Kaplan units and adjacent to the deflection wall, which separates the tailrace from the spillway ([Figure 2.2](#)). The EFL consists of two functioning Entrance Channels with independent weir gates at the downstream end of each channel to regulate flow. The Entrance Channels are 14 ft high x 10 ft wide and each can discharge 300 cfs of attraction flow, designed to provide velocities ranging from approximately three to six fps inside the entrance gate. The "A" and "C" Entrance Channels border the powerhouse and deflection wall, respectively. The specific entrance gate used to attract shad is dictated by which units are operating. When only Francis units are operating, the "A" Gate is fished; when a mixed-flow Kaplan unit is operating, the "C" Gate is fished.

The EFL Entrance Channels merge into a single Crowder Channel. Entering the Crowder Channel, the fish pass through the Crowder Gate ([Figure 2.2](#)). The gate is slightly opened in a v-shape, allowing fish to enter, but making it difficult to leave. Once a number of fish have passed through the Crowder Gate,

the gate is closed and the fish are trapped. The Crowder Screen upstream of the Crowder Gate is raised allowing the fish to move into the Hopper area at the upstream end of the Crowder Channel. With the Hopper sitting on the bottom of the Crowder Channel, the Crowder Gate is moved forward, concentrating the fish into the area immediately over the Hopper. The Crowder Screen is then lowered into position further corralling the fish, which are then lifted to the Exit Trough. As the 3,500 gallon Hopper is raised to the Exit Trough, the Crowder Gate is returned downstream into its open fishing position. When the Hopper reaches the Exit Trough, a door to the Hopper is opened and the fish and water within are released into the Exit Trough. The Exit Trough is 14 ft wide x 12 ft high x 190 ft long and maintains a water level equivalent to Conowingo Pond elevation. On their own volition, the fish swim by a viewing window situated in a constricted area of the Exit Trough before heading upstream into Conowingo Pond.

Fishing time and/or lift frequency is determined by fish abundance, but the Hopper is cycled at least hourly throughout the day. The method of lift operation is also influenced by fish abundance. When a great number of fish are in the Crowder Channel, the Crowder Screen is raised and lowered without moving the Crowder Gate to trap fish over the Hopper. This mode of operation, called “fast fish”, leaves the Crowder in the normal fishing position and raises the Hopper frequently to remove fish that accumulate in the channel. When fished normally, the entire mechanical process of a single lift cycle takes approximately 15 minutes to complete. When fast fished, the lift cycle time is reduced by a few minutes.

The West Fish Lift (WFL) is located on the west shoreline immediately downstream of the Conowingo Dam. It is similar in design to the EFL with the exception that the Hopper releases fish directly into a Sorting Tank as oppose to a pass-through Exit Trough. Fish are sorted by hand and placed into Holding Tanks (for transport or biological study) or released back into the tailrace.

### 3.0 METHODS

#### 3.1 Study Objectives and Design

The objectives of this study are to determine Upstream Fish Passage Efficiency of migratory adult American shad at the Conowingo EFL and to identify factors that may influence efficiency on a daily or seasonal basis. To meet the objectives, radio tags were placed into numerous American shad caught and released downstream of Conowingo Dam, and their movements and behavior were monitored in relation to varying conditions.

#### 3.2 Determination of Sample Size

Using a binomial model, we calculated sample sizes for various passage effectiveness levels ranging from 30% to 80%. For a passage effectiveness of 30%, a sample size of 81 fish would be required to obtain a precision of  $\pm 10\%$  at a probability level of 0.95; for a 50% effectiveness a sample size of 96 fish is needed. At a passage effectiveness of 80%, a sample size of 62 fish is required to obtain the same level of precision. Consequently, a sample size of 150 fish was deemed necessary to estimate Upstream Fish Passage Effectiveness within  $\pm 10.0\%$ , 95% of the time. The following table shows the required sample size to needed to achieve a precision of  $\pm 10.0\%$ , 90% and 95% of the time.

Proportion	1- $\alpha$	
	0.9	0.95
0.3	57	81
0.4	65	93
0.5	68	96
0.6	65	93
0.7	57	81
0.8	44	62

#### 3.3 Collection of Test Specimens

A release sample size of 150 fish was proposed to encompass the two primary segments of the American shad run (early-mid and mid-late). The anticipated breakdown of these releases was 75 fish each. A subset of 25 fish in each release group was to be collected at the WFL, tagged and transported downstream five miles to Lapidum, Maryland where they would be released. The remaining 50 shad from each group would then be angled, tagged, and released directly into the tailrace. The use of 75 shad would allow an estimate of Upstream Fish Passage Effectiveness with 95% confidence intervals for each shad run segment and for the entire season.



### **3.3.1 Tailrace Angling and Tagging**

All radio tagged shad angled for this study were caught, tagged, and released upstream of Rowland Island. Fishing locations by boat changed during tagging events as powerhouse unit combinations and discharge changed. An individual shad caught by angling was brought to the boat, netted, and assessed for tagging suitability (e.g., general well-being—no wounds, abrasions, loss of equilibrium). Suitable shad was then transferred into a tagging cooler outfitted with fine mesh to immobilize the specimen for tagging and to reduce stress; Unsuitable fish were released. After gathering biological information such as sex and length, a radio tag was orally inserted into the shad's stomach by means of a cannula, guiding it gently through the esophagus. The tagged shad was then placed back into the tailrace. On a few occasions, angled shad were also provided by MDNR biologists fishing nearby in the Conowingo Tailrace.

### **3.3.2 WFL Trapping and Tagging**

Individual shad collected at the WFL were netted out of the Sorting Tank and assessed for tagging suitability. The tagging process and biological data collected for each fish were similar to that done while angling in the tailrace. Once tagged, the shad was placed into a Transport Truck filled with river water and the process repeated until all the shad were tagged for that group. The group of tagged shad was then driven downriver to the Lapidum Boat Launch, netted out of the truck, taken to the shoreline, and released. The process from tagging to release took just over an hour. The transport truck and driver were supplied by MDNR.

Two shad collected on 12 May at the WFL were held and tagged as part of a demonstration for Exelon. These shad were subsequently released directly into Conowingo Tailrace from the WFL Sorting Tank and treated as tailrace-released fish from the Mid-Late shad run segment.

## **3.4 Radio Telemetry Equipment**

### **3.4.1 Radio Tags**

Coded VHF radio transmitters (radio tags) supplied by Lotek Engineering Inc. (Lotek), Newmarket, Ontario, Canada were utilized for this study. The radio tags (model number MCFT-3EM) were digitally encoded and transmitted signals on two frequencies (channels), 150.210 and 151.540 MHz. Each radio tag contained a unique pulse train to allow for individual fish identification (codes). Each cylindrical radio tag measured 11 mm in diameter, 49 mm in length, weighed 4.3 g in water, and had a 455 mm long whip antenna. The radio tags propagated a signal every 2.5 seconds and had a minimum battery life of approximately 206 days.

### **3.4.2 Receivers**

Lotek SRX\_400 telemetry receivers installed with version W30 software were utilized to monitor American shad. Prior to release of fish, background noise levels were determined at Conowingo Dam during the calibration process. In terms of radio telemetry, background noise is any ambient electromagnetic noise detected by a receiver that is not produced by a radio tag. In general, hydroelectric facilities are noisy electromagnetic environments due to their production and distribution of electricity. Receivers were configured to exclude background noise by utilizing specific features within the receiver's software. Receivers were set to scan each channel for specific time periods, depending on location. When a signal was received, the scan program temporarily suspended and the validity of the signal was verified and logged or rejected. The receiver measured the duration of a preselected number of pulse intervals and if intervals differed significantly, the signal was rejected. All receivers were time synchronized.

Additionally, a single Lotek SRX\_600 telemetry receiver installed with W32 software was used at one of the monitoring location (Rowland Island) because it could be downloaded remotely. Coupled with a Laird ConnexLink 4490 Bluetooth antenna, the receiver was downloaded from shore (Shures Landing) using Aerocomm software.

### **3.4.3 Antennas**

Four types of antennas were used for the study: Laird P1504 four-element Yagi antenna (4-element antenna), Laird PLC1426 six-element Yagi antennas (6-element antenna), Laird PLC1429 nine-element Yagi antennas (9-element antenna), and custom-made underwater antennas (“dropper antenna”). All three types of Yagi antennas are aerial antennas that provide directionality and a large reception range (the more elements, the greater the range, i.e., 9-element antenna has greater range than 6-element antenna, which has greater range than a 4-element antenna). Dropper antennas, which are vertically deployed within the water column, are omnidirectional and provide limited reception range. They are used to determine discrete movement within a specific location of interest. Constructed by stripping the shielded end of a 50-OHM RG58A/U coaxial cable, the length of the stripped portion of cable is a multiple of half the wavelength ( $\lambda$ ) of 150 MHz.

## **3.5 Monitoring Locations and Antenna Arrangement**

Monitoring stations were deployed in five general areas on the Susquehanna River below Conowingo Dam: tidal Lower River, Rowland Island, Conowingo Tailrace, EFL, and East Spillway Corner (Figure 3.1). With most of the monitoring locations concentrated near Conowingo Dam, manual tracking was

needed to supply data for the four-mile stretch of river between the Rowland Island monitor and the Lower River monitor (Spencer Island).

### **3.5.1 Lower River Monitoring Stations**

The tidal Lower River monitoring stations included Tomes Landing Marina in Port Deposit (Tomes Landing), the Derickson property in Lapidum (Lapidum), and the lower tip of Spencer Island ([Figure 3.2](#)). The stations in the Lower River were used to identify shad fall back, aid observation of potential spawning habitat around Spencer Island, and assist in determining temporal aspects of upstream forays and any potential velocity barriers affecting their movement upstream (Conowingo Study 3.7, Fish Passage Impediments Study Below Conowingo Dam).

Tomes Landing monitoring station consisted of a receiver and single 9-element antenna mounted on the Tomes Landing Marina's Gas House building and aimed across the river towards the Lapidum monitoring site on the west shoreline. The antenna covered the eastern half of the river downstream of Spencer Island.

Lapidum monitoring station (0.2 miles upstream of the Lapidum Boat Launch) consisted of a receiver and single 9-element antenna mounted on a tree overlooking the river and aimed across the river towards the Tomes Landing monitoring site on the east shoreline. The antenna covered the western half of the river downstream of Spencer Island.

Spencer Island monitoring station consisted of a receiver coupled via switchbox to two 6-element antennas mounted on trees overlooking the lower tip of the island's shoreline. Antenna 1 monitored the eastern channel between Spencer Island and Port Deposit, while Antenna 2 monitored the west channel between Spencer Island and Lapidum.

### **3.5.2 Rowland Island Monitoring Station**

Rowland Island monitoring station was just downstream of the Conowingo Tailrace at the lower tip of Rowland Island ([Figure 3.3](#)). This station helped identify immediate fall back for shad released into the tailrace as well as assisted in detailing movements in and out of the tailrace. The Rowland Island monitoring station consisted of a remotely downloaded receiver (SRX\_600) coupled via switchbox to two 6-element antennas mounted on a pole at the lower tip of the island. Antenna 1 monitored the eastern channel between Rowland Island and the cut in the spillway leading towards Octoraro Creek, while Antenna 2 monitored the west channel between Rowland Island and west shoreline near Shures Landing Boat Launch.

### **3.5.3 Conowingo Tailrace Monitoring Stations**

The Conowingo Tailrace monitoring stations included the Francis Units station and the Mixed-flow Kaplan Units station. Together, these stations monitored the area downstream of Unit 11 to the east, to Unit 1 and the Fisherman's Wharf to the west, all the way down river to the upstream tip of Rowland Island ([Figure 3.4](#)). The stations identified tailrace presence or the "fish available" (the denominator) in the fishway attraction effectiveness and passage efficiency and effectiveness definitions (equations). In addition, the Conowingo Tailrace monitoring stations detected any fall back through the powerhouse after shad passed upstream through the EFL.

The Francis Units station consisted of a receiver coupled via switchbox to four 4-element antennas mounted on the tailrace catwalk railing and distributed equally over the Francis units. Antenna 1 was mounted at Unit 1, Antenna 2 was mounted at Unit 3, Antenna 3 was mounted at Unit 5, and Antenna 4 was mounted at Unit 7.

The Mixed-flow Kaplan Units station consisted of a receiver coupled via switchbox to four 4-element antennas mounted on the upper tailrace catwalk railing and distributed equally over the Mixed-flow Kaplan units. Antenna 1 was mounted at Unit 8, Antenna 2 was mounted at Unit 9, Antenna 3 was mounted at Unit 10, and Antenna 4 was mounted at Unit 11.

### **3.5.4 EFL Monitoring Stations**

EFL monitoring stations included "A" Gate Aerial, "A" Gate Channel, "C" Gate Aerial, "C" Gate Channel, and Exit Trough ([Figure 3.5](#)). The Aerial monitoring stations identified shad near the EFL. The Channel monitoring stations identified shad presence in the EFL, or the "proportion of fish" (the numerator) in the Fishway Attraction Effectiveness definition (equation). The Exit Trough monitoring station identified shad passage through the EFL, or the "proportion of fish" (the numerator) in the Upstream Fish Passage Efficiency definition (equation).

"A" Gate Aerial monitoring station consisted of a receiver and single 4-element antenna mounted onto "A" Gate Entrance perpendicular to the powerhouse discharge. The antenna was calibrated to have very limited range (< 75 ft.) so that it detected only fish in front of the "A" Gate Entrance.

"A" Gate Channel monitoring station consisted of a receiver coupled via switchbox to two dropper antennas. Antenna 1 monitored shad entering the "A" Gate Entrance. Antenna 2 monitored shad further upstream in the "A" Gate Entrance Channel closer to the EFL Crowder Gate.

“C” Gate Aerial monitoring station consisted of a receiver and single 4-element antenna mounted onto “C” Gate Entrance parallel to the downstream deflection wall separating the tailrace from the spillway. The antenna was calibrated to have very limited range (<75 ft.) so that it detected only fish in front of the “C” Gate Entrance.

“C” Gate Channel monitoring station consisted of a receiver coupled via switchbox to two dropper antennas. Antenna 1 monitored shad entering the “C” Gate Entrance. Antenna 2 monitored shad further upstream in the “C” Gate Entrance Channel closer to the EFL Crowder Gate.

The Exit Trough monitoring station consisted of a receiver and a single dropper antenna mounted upstream of the Exit Trough Viewing Window. The antenna was calibrated to detect only those shad in the upstream portion of the Exit Trough.

### **3.5.5 East Spillway Corner Monitoring Station**

The East Spillway Corner monitoring station was deployed at the far eastern corner of the spillway ([Figure 3.4](#)). This station helped identify fish moving into the spillway as well as movement along its periphery to and from the tailrace. The East Spillway Corner monitoring station consisted of a receiver and a single 6-element antenna mounted on a fence. The antenna was oriented across the spillway toward just downstream of the deflection wall and upstream of Rowland Island. The coverage of the far-field antenna array reached across the entire width of the spillway including a small portion of the tailrace downstream of the EFL. Due to limited boat access, the coverage of the near-field antenna array could not be calibrated, but was estimated at roughly half the far-field distance.

## **3.6 Data Collection and Analysis**

Data were stored in receivers as either a single event or a period of multiple events. If a shad was detected and remained in the reception area for a given period of time, it was recorded as a continuous event. Single events or events occurring greater than five minutes apart were recorded individually. Data stored for each event included start date, start time, channel, code, average pulse rate, average signal strength, end date, and end time.

Data were off-loaded from receivers three times a week throughout the study period with a laptop computer and stored on harddrive and flashdrive. Backup copies of all telemetry data were made prior to receiver initialization. Data were consolidated into a PC database for review and verification.

## **3.7 Manual Tracking**

Manual tracking by boat was done for all release groups to supplement the data collected from the fixed monitoring locations. A crew surveyed the river weekly below Conowingo Dam from the tailrace to the I-



95 Bridge, approximately 1.5 miles downstream of the Lower River monitors. When a tagged shad was located, GPS coordinates, date, and time were recorded to supplement the fixed monitor data. After all releases were made, manual tracking was expanded to incorporate a weekly survey of Conowingo Pond from the Baltimore Water Intake to the Norman Wood Bridge, approximately 0.2 to 13.4 miles upstream of the dam, respectively.

## 4.0 RESULTS

### 4.1 Tagging and Release Data

A total of 151 radio tagged adult American shad were released in six groups. At the time of release water temperature ranged from 14.5°C to 20.8°C (58.1 to 69.4°F). A water temperature less than 21.1°C (70.0°F) was desirable to avoid inclusion of partially spent and post-spawned fish. At the time of release plant discharge ranged from 7,500 to 62,510 cfs. No spill occurred during the study. A listing of all radio tagged adult American shad released downstream of the Conowingo Dam during the spring of 2010 is presented in [Appendix A](#).

One hundred American shad were collected by angling in the Conowingo tailrace on four separate occasions ([Table 4.1](#)). Release Group 1 on 20 April (18 shad) and Release Group 2 on 22 April (32 shad) were part of the early-mid shad run segment. Release Group 4 on 7 May (27 shad) and Release Group 5 on 10 May (23 shad) were part of the mid-late shad run segment. An additional two shad caught at the WFL on 12 May (Release Group 6L) were tagged with previously recovered radio tags and released directly into the tailrace from the WFL. For analysis purposes, these two shad were added to the 100 shad angled in the tailrace for a total of 102 tailrace-released shad.

Fifty-one American shad (including the two ultimately released into the tailrace) were collected by trapping in the WFL on two separate occasions ([Table 4.1](#)). One shad from the second Lapidum release group was disoriented after transport and removed from the study. The remaining 49 radio tagged fish were transported five miles downriver to the Lapidum Boat Launch and released. Release Group 3 on 28 April (25 shad) was part of the early-mid shad run segment. Release Group 6 on 12 May (24 shad) was part of the mid-late shad run segment.

Overall, 77 (51.0%) males and 74 (49.0%) females were radio tagged for the 2010 study. Tailrace-released shad consisted of 59 (57.8%) males and 43 (42.2%) females, while Lapidum-released shad consisted of 18 (36.7%) males and 31 (63.3%) females ([Table 4.1](#)). No regurgitation of tags occurred.

### 4.2 Fish Passage Statistics

Detection rates and known disposition of released shad were high. The data that address the principal objective of the study are as follows ([Table 4.2](#)):

#### **Total Shad Released**

N = 151

Early-Mid 75 (49.7%)

Mid-Late 76 (50.3%)

**Shad Detected in Tailrace (post drop-back)**

N = 89            Early-Mid 51 (57.3%)            Mid-Late 38 (42.7%)

**Fishway Attraction Effectiveness**

N = 65            Early-Mid 36 (55.4%)            Mid-Late 29 (44.6%)

**Upstream Fish Passage Efficiency**

N = 40            Early-Mid 23 (57.5%)            Mid-Late 17 (42.5%)

**Upstream Fish Passage Effectiveness**

N = 39            Early-Mid 22 (56.4%)            Mid-Late 17 (43.6%)

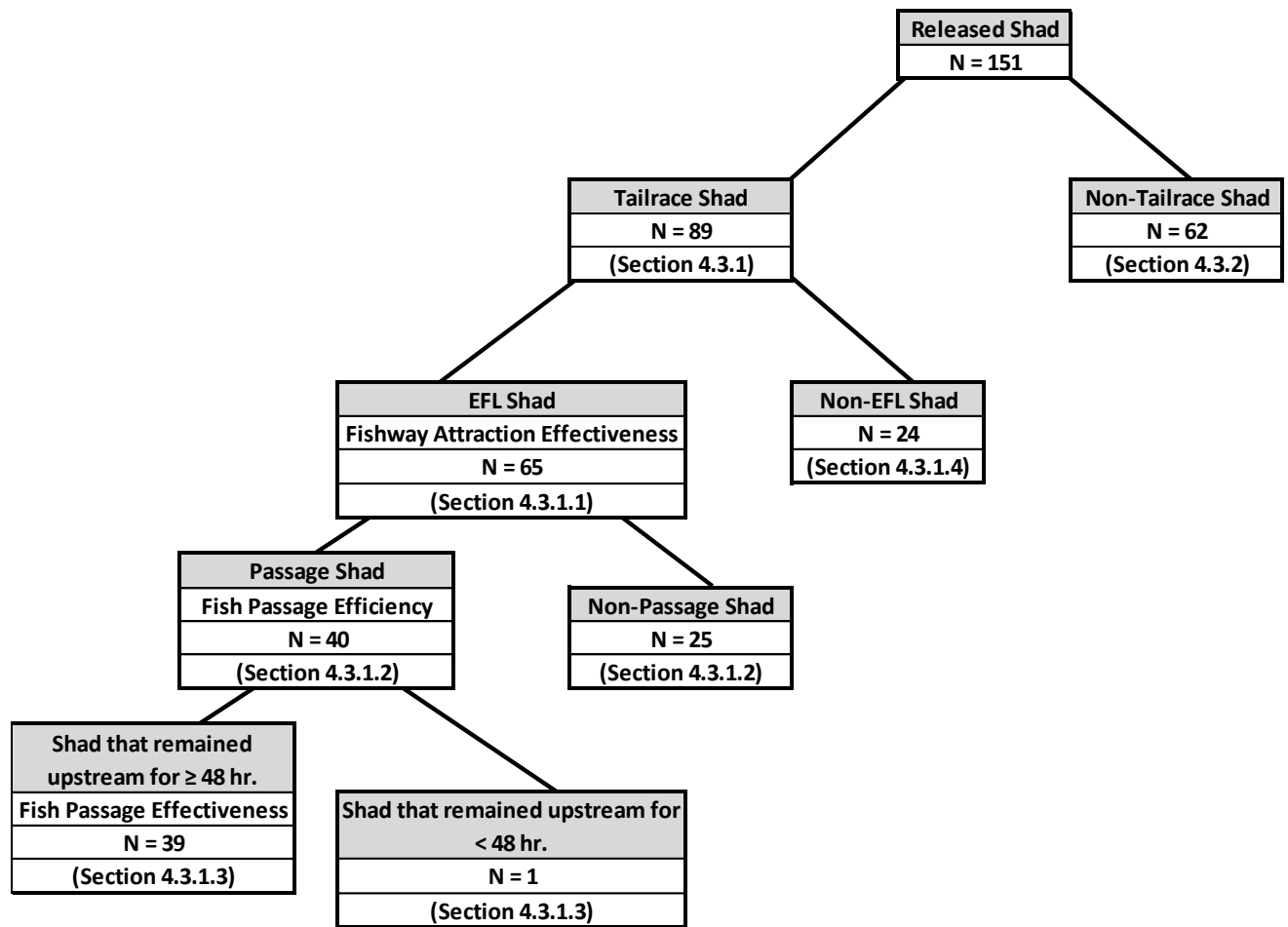
**Non-tailrace**

N = 62            Early-Mid 24 (38.7%)            Mid-Late 38 (61.3%)

**4.3 Shad Behavior in the Study Area**

To facilitate behavioral descriptions for the groups of shad identified above, all released shad were broken into two groups based on their observed behavior: Tailrace Shad (N = 89) and Non-Tailrace Shad (N = 62). The Tailrace Shad group consisted of two sub-groups: EFL Shad (N = 65) and Non-EFL Shad (N = 24). Within the EFL Shad sub-group, there were two divisions: Passage Shad (N = 40) and Non-Passage Shad (N = 25). Finally, the Passage Shad sub-division was partitioned into shad that remained upstream for 48 hours (N = 39) and shad that did not remain upstream for 48 hours (N = 1).

The following key is an aid designed to help the reader better recognize the interconnected relationship between the various groups and sub-groups (movement classifications) as they are described within the following report sections.



The composition of each movement classification is presented in [Table 4.3](#).

### 4.3.1 Tailrace Shad

A total of 89 of the 151 radio tagged American shad was detected in the Conowingo Tailrace. These 89 shad represented the fish available for passage and formed the denominator for the Fishway Attraction Effectiveness, Upstream Fish Passage Efficiency, and Upstream Fish Passage Effectiveness calculations. Seventy were tailrace-released fish and 19 were Lapidum-released fish. Average travel time to the tailrace after initial drop back for tailrace-released fish was 6 days 22 hours 37 minutes ([Table 4.4](#)). Average travel time to initial tailrace detection for Lapidum-released fish was 11 days 6 hours 21 minutes. In general, shad tagged earlier in the season took longer to move back into the tailrace than those shad tagged later in the season. For a comparison of travel times to the tailrace between movement classifications by release location, refer to [Table 4.5](#) and [Appendix B](#).

Tailrace residency was greatest downstream of the Francis units. The greatest residency was on antennas located mid-dam, at Unit 5 and Unit 7, and to a lesser extent Unit 3. The greatest residency on the mixed-flow Kaplan units was on the antenna located at Unit 8, adjacent to the Francis units. Tagged fish actively moved throughout the tailrace and were detected on all antennas, but tended to congregate near the Francis units that were running. Fish avoided the area immediately downstream of the mixed-flow Kaplan units when operating, preferring to stay to the periphery of flow. A series of accompanying animations were created to visually illustrate radio tagged shad movement in relationship to generation (see accompanying DVR).

#### **4.3.1.1 EFL Shad (Fishway Attraction Effectiveness)**

A total of 65 (65 of 89, 73.0%) radio tagged American shad was detected in the EFL. These shad formed the numerator of the calculation of Fishway Attraction Effectiveness. Fifty-one were tailrace-released fish and 14 were Lapidum-released fish. Average travel time from release to initial detection inside the EFL for tailrace-released fish was 11 days 5 hours 17 minutes. Average travel time from release to initial detection inside the EFL for Lapidum-released fish was 13 days 19 hours 35 minutes ([Table 4.5](#)).

A total of 102 forays were made into the EFL by the 65 radio tagged shad ([Table 4.6](#)). Two shad made only a single foray as far as the Entrance Gate dropper antennas before leaving the EFL. Sixty-three fish were detected on the Entrance Channel's upper dropper antennas as they continued upstream, well within the EFL and only feet away from the Crowder Gate. Time spent in the EFL for all 65 shad that entered were generally short. The average duration within the EFL downstream of the Crowder Gate prior to ascent to the Exit Trough was 29 minutes 18 seconds. The median duration prior to lifting was 16 minutes 9 seconds (data for these calculation are provided in Appendices D, E, and F).

#### **4.3.1.2 Passage Shad (Upstream Fish Passage Efficiency)**

A total of 40 (40 of 89, 44.9%) radio tagged American shad was successfully passed upstream of Conowingo Dam through the EFL. These shad formed the numerator of the calculation of Upstream Fish Passage Efficiency. Thirty-three were tailrace-released fish and seven were Lapidum-released fish. These 40 shad were 61.5% of the 65 shad that entered the EFL. Average travel time from release to passage for tailrace-released fish was 13 days 5 hours 35 minutes. Average travel time from release to passage for Lapidum-released fish was 11 days 14 hours 3 minutes.

Twenty-nine of 40 (72.5%) shad made successful passage on their first foray attempt into the EFL. Eleven of 40 (27.5%) shad that later passed the EFL had unsuccessful initial forays into the EFL. These 11 shad



made a combined 19 unsuccessful forays into the EFL prior to passage. The remaining 25 radio tagged shad detected in the EFL but never passed, made a total of 42 foray into the EFL without passage.

Average foray duration within the EFL (downstream of the Crowder Gate) for successful passage was 26 minutes compared to 33 and 32 minutes for unsuccessful forays of fish that later passed and never passed, respectively. The median foray duration within the EFL (downstream of the Crowder Gate) for successful passage was 12 minutes compared to 20 and 16 minutes for unsuccessful forays of fish that later passed and never passed, respectively ([Table 4.6](#), [Figure 4.1](#)).

Overall, the average time it took a shad to make a repeat foray into the EFL was 2 days and 19 hours with a median time of 1 day and 22 hours. For the 11 shad that later passed, the average time it took a fish to make a repeat foray into the EFL was 2 days and 8 hours with a median time of 1 day and 23 hours. Only seven of the 25 radio tagged shad that never passed the EFL made repeat forays. The average time it took these fish to make a repeat foray into the EFL was 3 day and 9 hours with a median time of 1 day and 23 hours (data for these calculations are provided in [Appendices D](#), [E](#), and [F](#)).

Collectively, 58.5% of the radio tagged shad that successfully passed upstream entered the EFL through the “A” Gate Entrance, which was operated 43.0% of the time in 2010. The “A” Gate is only used when no mixed-flow Kaplan units are operating. Conversely, 41.5% of the radio tagged shad that successfully passed upstream entered the EFL through the “C” Gate Entrance, which was operated 57.0% of the time in 2010. Forays into the EFL were evenly distributed among the gate entrances with 50 and 52 of the forays occurring at the “A” and “C” Gate Entrances, respectively ([Table 4.7](#)). For a complete listing of generation (cfs) during each foray into the EFL, see [Appendix C](#).

Radio tagged shad passage at the Conowingo EFL occurred at temperatures ranging from 13.9 to 20.9°C (57.0 to 69.6°F). Nearly two-thirds of the radio tagged shad (27) passed at water temperatures of 15.5 to 15.9°C (59.9 to 60.6°F) and 20.5 to 20.9°C (68.9 to 69.6°F, [Figure 4.2](#)). Radio tagged shad made successful and unsuccessful forays into the EFL under various water temperatures. When all forays into the EFL are plotted against water temperatures, no relationship was apparent ([Figure 4.3](#)).

Shad passage at the Conowingo EFL occurred at plant discharges ranging from 7,500 to 85,000 cfs ([Figure 4.4](#)). Over one-third of the radio tagged shad passed at the May minimum flow of 7,500 cfs, while 58.5% did so under plant discharge of less than 22,500 cfs. The third most successful flow range for passage was 60,000 to 74,499 cfs, with 19.5% of the shad passing under these conditions.

Thirty two percent of forays were made at prevailing minimum flow, while 47.1% were made under plant discharge of less than 22,500 cfs. Nonetheless, forays were made under higher flows as well; 22.5% of forays occurred at flows ranging from 30,000 to 44,499 cfs and 20.6% of forays were made at flows ranging from 60,000 to 74,999 cfs ([Figure 4.5](#)).

Radio tagged American shad with successful passage at the EFL did so under 10 of 16 various Conowingo turbine-generating combinations available during the study. Conowingo powerhouse and EFL operational conditions for individual fish entering the EFL are listed in Appendices. Refer to [Appendix D](#) for successful forays, [Appendix E](#) for unsuccessful forays of fish that later passed upstream through the EFL, and [Appendix F](#) for unsuccessful forays of fish that never passed upstream through the EFL.

One shad was lifted by the Hopper to the Exit Trough, but died in the trough before completing passage. The radio tag from this shad was ultimately used to tag one of the shad procured for the WFL demonstration and later released into the tailrace (see above). This shad is one of the 25 shad that entered the EFL without successful passage.

Radio tagged shad passed the dam on 15 different days between 30 April and 24 May. The best day for passage of radio tagged shad was 12 May when nine shad passed the dam ([Figure 4.6](#)). Passage occurred between 0800 and 1800 hours with the most successful forays occurring between 1000-1200 hours and 1500-1800 hours ([Figure 4.7](#)). For a further examination of Conowingo and EFL operations during tagged shad forays and passage through the EFL, refer to Conowingo RSP Study 3.6, Conowingo EFL Attraction Flows.

There did not appear to be a single variable that consistently provided the best fish passage conditions or guaranteed high rates of successful upstream passage based on Pearson Correlation analysis (RSP 3.6 Conowingo East Fish Lift Attraction Flows). Radio tagged shad passed upstream over a wide range of turbine-generation combinations, water temperatures, EFL settings, and attraction flow water velocities. On several occasions, forays leading to successful passage of radio tagged American shad occurred simultaneously with unsuccessful forays of both shad that later passed and shad that never passed the EFL. The fishway attraction effectiveness value (73%), clearly shows that American shad are successfully entering the EFL, but not all are passing through the Crowder Gate and being lifted up to the Exit Trough. Sixty-three of 65 shad (97%) that entered the EFL moved within a few feet of the Crowder Gate.

#### **4.3.1.3 Shad that remained upstream for $\geq 48$ hours (Upstream Fish Passage Effectiveness)**

A total of 39 (39 of 89, 43.8%) radio tagged American shad made passage through the EFL and remained upstream for greater than 48 hours. These shad formed the numerator of the calculation of Upstream Fish Passage Effectiveness. One fish passed into Conowingo Pond, but returned to the tailrace through Unit 5, five hours after leaving the Exit Trough. Units 2, 3, 4, 5, 6, 7, 8, and 9 were operating at the time the fish re-entered the tailrace. The fish moved downstream to the Lower River monitors before returning to the EFL and successfully passing a second time within 22 hours of its first passage.

The study objective of determining Upstream Fish Passage Effectiveness at the Conowingo EFL was accomplished. Thirty-nine shad passed through the EFL and remained upstream for at least 48 hours out of the 89 shad accessible in the tailrace. Overall Upstream Fish Passage Effectiveness is  $P = 0.4382$  ( $L95=0.33455$   $U95=0.54723$ ). Twenty-three of the 51 Early-Mid run segment shad that were present in the tailrace passed through the EFL, but only 22 remained upstream for at least 48 hours. Upstream Fish Passage Effectiveness for the Early-Mid segment is  $P = 0.4314$  ( $L95=0.29628$   $U95=0.57680$ ). Seventeen of the 38 Mid-Late run segment shad that were present in the tailrace passed through the EFL, all 17 remained upstream for at least 48 hours. Upstream Fish Passage Effectiveness for the Mid-Late is  $P = 0.4474$  ( $L95=0.28997$   $U95=0.61525$ ). Precision estimates for Fishway Attraction Effectiveness and Upstream Fish Passage Efficiency calculations can be found in [Table 4.2](#).

#### **4.3.1.4 Non-EFL Shad (In the Tailrace)**

A total of 24 radio tagged American shad were detected in the tailrace without making a foray into the EFL. The proximity to the EFL for these fish is as follows: 62.5% (15 of 24) were detected on EFL aerial antennas mounted on the Entrance Gate structures. Ten were detected on both aerial antennas; three were detected on only the “C” Gate Aerial antenna and two were detected on only the “A” Gate Aerial antenna. The EFL aerial antennas were setup to have a limited detection range of less than 75 ft. The remaining 37.5% (9 of 24) Non-EFL shad were detected closest to the fishway on tailrace antennas; two were detected on Unit 10 antenna, five were detected on Unit 9 antenna, one was detected on Unit 8 antenna, and one was detected on Unit 7 antenna.

Nineteen of the 24 Non-EFL shad were released in the Conowingo Tailrace. Fifteen of the nineteen (79.0%) made at least one trip downstream to the Lower River antennas and returned to the tailrace. Fourteen made multiple trips, with one shad making eight trips downstream to the Lower River monitors and returning to the tailrace seven times. The remaining five Non-EFL shad were released at the Lapidum Boat Launch. All five made trips from the tailrace downstream to the Lower River monitors, but only one made a return trip to the tailrace.

One of the 24 Non-EFL shad made 10 trips downstream to the Rowland Island monitor, including two trips to the Lower River monitors before being caught in the WFL and used in a hormone trial study. Its closest encounter with the EFL had been on the “C” Gate Aerial antenna having just left the Unit 10 antenna array.

Collectively, the 24 Non-EFL shad moved downstream to the Rowland Island monitor 127 times and on 50 of those occasions continued downstream to the Lower River monitors. The average number of tailrace to Rowland Island trips per shad was 5.3 and the average number of tailrace to Lower River trips per shad was 2.1 ([Appendix H](#)). In comparison, the average number of tailrace to Rowland Island trips per shad was 5.9 and 6.7 for Passage shad and Non-Passage shad in EFL, respectively. The average number of tailrace to Lower River trips per shad was 1.3 and 2.6 for Passage shad and Non-Passage shad in EFL, respectively. While not the focus of the study, it is interesting to note that the median dropback time for Non-EFL shad leaving the tailrace was 2 hours and 21 minutes, considerably longer than the median dropback times of 51 minutes and 48 minutes for Passage shad and Non-Passage shad in EFL, respectively.

#### **4.3.2 Non-Tailrace Shad**

A total of 62 (41.1%) radio tagged American shad were never detected in the Conowingo Tailrace after initial release. The Non-Tailrace group included eight tagged shad that were never detected on any of the fixed monitors or by weekly mobile tracking efforts after release at Lapidum Boat Launch. Literature review indicates that a certain proportion of radio tagged shad migrate little or dropback shortly after tag and release (e.g., Leggett 1976; RMC 1990; Sprankle 2005; Olney *et al.* 2006). Depending upon site-specific characteristics and prevailing hydrological conditions, post-tagging stress can affect migrational behavior of up to 40 % of American shad. Released shad departed the tailrace within 1 hour, exhibiting drop back behavior typically noted for tagged shad in other studies, notably work by Leggett (1976). Many of the tailrace-released shad from this group spent some time around Rowland Island before moving downriver, but none of them returned to Rowland Island after detection on the Lower River monitors ([Table 4.8](#)). One Lapidum-released shad was detected on the west side of Rowland Island five days after release and resided there for 27 minutes before returning downriver. There was no change in generation for more than four hours after the fish left the monitoring site.

Movement of the Non-Tailrace Shad among the Lower River monitors was common. For example, a total of 32 (51.6%) shad moved upriver to the Spencer Island monitor at least once after detection downriver at

either the Lapidum or Tomes Landing monitors ([Table 4.9](#)). A complete listing of radio tagged shad presence on Non-Tailrace monitors is presented in [Appendix I](#).

#### **4.4 Animation**

Animations were prepared to accompany this report to show visually the movement of 89 radio tagged shad within the study area in relationship to Conowingo Station operations. These animations will be provided on DVR with the final report.

#### **4.5 Manual Tracking of Tagged Shad Upstream of Conowingo Dam**

Manual tracking of radio tagged American shad upstream of Conowingo Dam started on 21 May and continued on a weekly basis through 2 August. The upstream surveys covered an area of the river from the Baltimore Water Intakes to the Norman Wood Bridge, approximately 13 miles. Weekly surveys of the Conowingo Pond were supplemented by additional manual tracking upriver of Norman Wood Bridge through another radio telemetry study that ran concurrently. This study surveyed only portions of the river from Safe Harbor Dam (rm 31) to York Haven Dam (rm 55), approximately 24 miles.

Twenty-one of 40 (52.5%) radio tagged shad with successful passage through the EFL were manually tracked upstream of the Conowingo Dam. Nineteen of 33 (57.6%) tailrace-released fish with successful passage were detected upstream and two of seven (28.6%) Lapidum-released fish with successful passage were detected upstream. Nine of 23 (39.1%) Early-Mid run shad with successful passage were detected upstream and 12 of 17 (70.6%) Mid-Late run shad with successful passage were detected upstream. It should be noted that surveys in the Conowingo Pond started after all radio tagged shad were released. Three shad had already re-entered the Conowingo Tailrace prior to the start of manual tracking surveys in the Conowingo Pond.

Eighteen of 21 shad detected upstream of Conowingo Dam were detected in Conowingo Pond, eight were detected exclusively upstream of MRPSS and eight were detected exclusively downstream of MRPSS. The remaining two shad detected in Conowingo Pond were detected both upstream and downstream of MRPSS. No radio tagged shad were detected in the MRPSS reservoir during the two boat surveys conducted on 7 June and 14 June. Three of 21 shad detected upstream of Conowingo Dam were also detected upstream of Safe Harbor Dam; two of these shad successfully passed the York Haven Dam.

Manual tracking of radio tagged American shad downstream of Conowingo Dam started on 27 April and continued on a weekly basis through 2 August. The downstream surveys covered an area of the river from the Conowingo Dam to the I-95 Bridge, approximately 6.5 miles. Data collected on downstream surveys



enhanced data collected from fixed monitor detections, and is not discussed independently from the fixed monitor data in this report.

#### **4.6 Final Disposition of Tagged Shad**

The fate of 143 out of 151 (94.7%) fish tagged and released was known with a high degree of certainty, including all 102 tailrace-released fish. Twenty-three of 40 (57.5%) radio tagged shad with successful upstream passage of Conowingo Dam eventually re-entered the tailrace via the turbines after remaining upstream for at least 48 hr; the earliest return to the tailrace was 3 days 21 hr after exiting the trough ([Appendix G](#)). Average and median residency upstream of the Conowingo Dam was 20 and 21 days for these 23 shad, respectively. Seventeen of the 40 shad that passed upstream (42.5%) were last detected upstream of the dam. The fate of the remaining shad is provided in [Appendix J](#).

Eighteen (78%) of the 23 shad that ultimately passed downstream through the turbines utilized the Francis units. Four shad (17%) passed downstream via the mixed-flow Kaplan units. The route utilized by one shad was unknown. Fifteen of those passing downstream via the turbines were believed alive at last detection. Signals from the other eight shad became stationary after passing downstream via the turbines and were considered dead. One of these tags was recovered near Reuben Island, along the west shore above Deer Creek.

Radio tagged shad passed the Conowingo Dam via turbines throughout the spring and early summer. With river flows well within Conowingo Dam's hydraulic capacity by late April, no spill gates were opened.

Eight (5.3%) shad were never detected after release at Lapidum Boat Launch. Some of the fish that left the study area or failed to migrate upstream may have resulted from handling, tagging, or transport stress. These findings are similar to those reported in earlier studies on the Susquehanna River and elsewhere (RMC 1990). The shad literature indicates that post-tagging stress can affect upstream migrational behavior of up to 40% of American shad (Olney *et al.* 2006).

## 5.0 CONCLUSION

The primary objective of this study was to estimate the Upstream Fish Passage Effectiveness of migratory adult American shad at the Conowingo EFL, which was achieved. A total of 151 adult American shad was radio tagged and released downstream of Conowingo Dam. Eighty-nine shad (58.9%) entered the Conowingo Tailrace and were accessible to the EFL. As is typical with radio tagged shad, a substantial portion (62 fish, 41.1%) dropped back; these fish did not return to the tailrace and were not available for the determination of the effectiveness of the EFL.

Sixty-five of 89 shad in the tailrace (73.0%) entered the EFL and 63 of the 65 fish (96.9%) were detected immediately downstream of the Crowder Gate. Overall, 40 of 89 shad (44.9%) passed the EFL into the Conowingo Pond. Thirty-nine of 89 shad (43.8%) remained upstream for at least 48 hours after leaving the Exit Trough. One shad re-entered the tailrace within 48 hours of passage, but re-entered the EFL and successfully passed it for a second time.

Twenty-three of 40 (57.5%) shad with successful passage eventually re-entered the Conowingo Tailrace. The average residency upstream of the Conowingo Dam was 21 days for these 23 shad. Seventeen of 40 (42.5%) shad with successful passage were last detected upstream of the Conowingo Dam. Two shad passed all four dams on the Lower Susquehanna River.

This study in conjunction with the report on Conowingo East Fish Lift Attraction Flows (RSP 3.6) provides information relative to factors that may influence the lift's effectiveness on a daily or seasonal basis. There did not appear to be a single variable that consistently provided the best fish passage conditions or guaranteed high rates of successful upstream passage. Radio tagged shad passed upstream over a wide range of turbine-generation combinations, water temperatures, EFL settings, and attraction flow water velocities. On several occasions, forays leading to successful passage of radio tagged American shad occurred simultaneously with unsuccessful forays of both shad that later passed and shad that never passed the EFL. The fishway attraction effectiveness value (73.0%) clearly shows that American shad are successfully entering the EFL with 97% of these fish moving to within a few feet of the Crowder Gate. However, only 63% of the fish passed through the Crowder Gate and completed passage to Conowingo Pond.

## 6.0 DISCUSSION

The overall success of a fishway ultimately comes down to three components: get fish to the fishway, get fish through the fishway, and keep fish continuing on their way. Each of these components of the EFL is discussed below.

- Get fish to fishway

Of the 89 shad in the tailrace, 80 fish (90%) either entered the EFL (65 fish) or were detected less than 75 feet from an Entrance Gate (15 fish). Only 9 of the 89 shad (10%) did not approach the EFL.

While there remains frustration that not all shad in the tailrace approached the EFL Entrance Gates, it is encouraging to see so many of them approach and/or enter the EFL. As mentioned in the East Fish Lift Attraction Flow study, Units 10 and 11, Units 8 and 9 were run a disproportional amount of time in 2010 due to mechanical difficulties, and visual observations were made that the units created a large eddy that may affect EFL attraction flows. If these units were run less often (alone and in combination with the other mixed-flow Kaplan units), there may be the potential for more effective attraction flow that may draw more of the tailrace fish into the EFL.

- Get fish through fishway

The fishway attraction effectiveness value (73.0%), clearly shows that American shad are successfully entering the EFL, but not all are passing through the Crowder Gate and being lifted up to the Exit Trough. Sixty-three of 65 shad (97%) that entered the EFL moved within a few feet of the Crowder Gate.

While the exact cause of this inability of all fish in the EFL to successfully pass upstream is not understood, it is symptomatic of current fish lift designs for American shad ([Table 6.1](#)). Possible factors affecting shad in the EFL could be the structural bend or turn that shad have to make from either Entrance Channel to access the Crowder Gate Channel. The potential hydraulics created by the attraction flow being forced around this bend or turn could impede some shads progress while not affecting others. The obstacle of the Crowder Gate itself and the nature of shad to be startled easily when moving in tight quarters could also be a contributing factor. The spatial distribution or orientation of the individual shad in relationship to other fish when approaching the Crowder Gate may influence their behavior.

Another factor that may have influenced shad in the area of the EFL immediately downstream of the Crowder Gate in 2010 was continual flow through Diffuser "A". Diffuser "A" provides supplemental attraction flow to the "A" Gate Entrance Channel by upwelling water from the floor of the EFL downstream of the Crowder Gate. Diffuser "A" became locked in a fixed position of 10% open on 27

April and was not repaired for the remainder of the season. This unintended flow may have affected the behavior of shad in the vicinity of the Crowder Gate.

- Keep fish continuing on their way

Once shad successfully exited the EFL into Conowingo Pond, they were successful in continuing migration. One shad passed into Conowingo Pond, but returned to the tailrace five hours after leaving the Exit Trough, but it re-entered the EFL after five hours and successfully continued its migration.

## 7.0 RECOMMENDATIONS

Although review of literature shows inconsistency in terminology usage of various passage metrics, reported passage rates of radio tagged shad at fish lifts have been less than 60% (Barry *et al.* 1986; Kleinschmidt 1999; Sprankle 2005; Normandeau 2001; Normandeau 2008; RMC 1994).

This study in conjunction with the report on Conowingo East Fish Lift Attraction Flows (RSP 3.6) provides useful information about the effectiveness of the EFL and suggests areas of investigation for potential improvements. These studies did not identify any single operational parameter for the Project or the EFL that will suggest substantial improvements in fish passage effectiveness. However, the discrepancy between the number of shad that enter the EFL (73% of available fish) and the number of shad that are successfully passed upstream (45%) is striking. The studies suggest that some physical aspects (e.g., Crowder Gate) may be the cause of this discrepancy and that improvements within the EFL may hold the most promise relative to improving the effectiveness of the EFL. It is recommended that work in 2011 focus on the physical elements of the EFL (e.g., Crowder Gate) and flow patterns within the EFL.

Based on the findings of the 2010 study, we recommend the following:

- Analyze EFL structures and hydraulics to increase shad retention inside the structure and to improve passage from the Entrance Channels to the Hopper.

Surveillance of shad within the EFL should focus on the threshold of the Crowder Gate to improve passage efficiency. In lieu of other technologies, limited range antennas should be placed in and around the Crowder Gate to gain a better understanding of shad behavior at this constricted area. A thorough review of hydraulics near the Crowder Gate is recommended to develop steps to improve retention in the EFL and passage through the Crowder Gate. With Diffuser “A” fixed, the 2011 study can evaluate if its repair made a difference in shad passing the Crowder Gate area.

- Collect all American shad by means of angling and release immediately upon tagging.

With so many of the tailrace-released shad making forays to the Lower River monitors and returning to the tailrace, little additional information was gained by transporting fish downriver to be released. To reduce stress of test specimens and increase sample size within the tailrace, it is recommended that all shad be radio tagged and released directly into the tailrace and not transported downriver.



## 8.0 REFERENCES

- Barry, T., and B. Kynard. 1986. Attraction of adult American shad to fish lifts at Holyoke Dam, Connecticut River. *North American Journal of Fisheries Management* 6:233-241.
- Federal Energy Regulatory Commission (FERC). 2004. Evaluation of mitigation effectiveness at hydropower projects: fish passage. Division of Hydropower Administration and Compliance, Office of Energy Projects.
- Frank, H. J., Mather, M. E., Smith, J. M., Muth, R. M., Fin, J. T., and McCormick, S. D. 2009. What is “fallback”? metrics needed to assess telemetry tag effects on anadromous fish behavior. *Hydrobiologia* (2009) 635:237-249.
- Kleinschmidt Associates. 1999. 1996-1998 Evaluations of Upstream and Downstream Fish Passage Facilities. Final Report. Greenville Dam Project (FERC No. 2441). City of Norwich, CT, Department of Public Utilities.
- Leggett, W. C. 1976. The American shad (*Alosa sapidissima*) with special reference to its migration and population dynamics in the Connecticut River, pages 169-225 *In* D. Merriman and L. M. Thorpe (editors). The Connecticut River ecological study. Monograph No. 1, American Fisheries Society, Bethesda, MD.
- Olney J. E., Latour R. J., Watkins B. E., 2006. Migratory Behavior of American Shad in the York River, Virginia, with Implications for Estimating In-River Exploitation from Tag Recovery Data. *Transactions of the American Fisheries Society* 135:889-896.
- Normandeau Associates, Inc. 2001. Adult American shad movement in the vicinity of Conowingo and Holtwood Hydroelectric stations, Susquehanna River, during spring 2001. Prepared for U.S. Fish and Wildlife Service, PPL Holtwood, LLC, and Exelon (Susquehanna Electric Company), 9 pp + Tables, Figures, Appendix.
- Normandeau Associates 2008. Assessing the Impact of Muddy Run Pumped Storage Station and Holtwood Hydroelectric Station Operations on the Upstream Migration of adult American shad (*Alosa sapidissima*) in Conowingo Pond, Susquehanna River, spring 2008. Draft prepared for Exelon Corporation.
- RMC. 1990. Migration of radio tagged adult American shad through Conowingo Pond to the Holtwood Hydroelectric Station. Prepared for Susquehanna River Anadromous Fish Restoration Committee, Harrisburg, PA
- RMC. 1994. Report on the distribution of telemetered shad in the tailwaters and spillage areas of the Holtwood, Safe Harbor, and York Haven Hydroelectric Projects, Susquehanna River, Pennsylvania. Report prepared for Pennsylvania Power and Light Company, Safe Harbor Water Power Corporation, and Metropolitan Edison Company.
- Sprinkle, K. 2005. Interdam movements and passage attraction of American shad in the Lower Merrimack River mainstem. *N. Amer. Jour. Fish. Manage.* 25:1456-1466.

**TABLE 4.1: SUMMARY OF TAGGED AND RELEASED ADULT AMERICAN SHAD DOWNSTREAM OF THE CONOWINGO DAM, SPRING 2010.**

<b>Release Group</b>	<b>Shad Run Segment</b>	<b>Collection Method</b>		<b>Release Date</b>	<b>Release Location</b>	<b>Number Released</b>	<b>Sex</b>		<b>Water Temperature °C</b>	<b>Plant Discharge (cfs)</b>
1	Early-Mid	1	Angled	20 April	Tailrace	18	M	15	14.7	10,000 to 34,000
							F	3		
2	Early-Mid	2	Angled	22 April	Tailrace	32	M	21	14.5	10,000 to 45,000
							F	11		
3	Early-Mid	3	Trapped	28 April	Lapidum	25	M	13	14.8	45,000
							F	12		
4	Mid-Late	4	Angled	7 May	Tailrace	27	M	16	20.8	34,000 to 68,000
							F	11		
5	Mid-Late	5	Angled	10 May	Tailrace	23	M	7	18.1	7,500 to 22,500
							F	16		
6L*	Mid-Late	6L	Trapped	12 May	Lapidum	24	M	5	15.7	17,000
							F	19		
6T	Mid-Late	6T	Trapped	12 May	Tailrace	2	M	0	15.7	17,000
							F	2		
						<b>Total</b>			<b>Percentage</b>	<b>Range</b>
						<b>151</b>	M	<b>77</b>	<b>51.0%</b>	<b>7,500 to</b>
							F	<b>74</b>	<b>49.0%</b>	<b>68,000</b>

\*Footnote: One shad transported to Lapidum was removed from the study and is not included in this table.

**TABLE 4-2: MATRICES EXAMINED AT THE CONOWINGO EFL, SPRING 2010.**

<b>2010 Shad Run</b>	<b>Matrices</b>	<b>N</b>	<b>No. Affected</b>	<b>P</b>	<b>L95</b>	<b>U95</b>
<b>Overall</b>	<b>In Tailrace</b>	<b>89</b>				
	<b>Fishway Attraction Effectiveness</b>		<b>65</b>	<b>0.7303</b>	<b>0.62405</b>	<b>0.81636</b>
	<b>Fish Passage Efficiency</b>		<b>40</b>	<b>0.4494</b>	<b>0.34502</b>	<b>0.55819</b>
	<b>Fish Passage Effectiveness</b>		<b>39</b>	<b>0.4382</b>	<b>0.33455</b>	<b>0.54723</b>
<b>Early-Mid Segment</b>	<b>In Tailrace</b>	<b>51</b>				
	<b>Fishway Attraction Effectiveness</b>		<b>36</b>	<b>0.7059</b>	<b>0.55986</b>	<b>0.82093</b>
	<b>Fish Passage Efficiency</b>		<b>23</b>	<b>0.4510</b>	<b>0.31384</b>	<b>0.59550</b>
	<b>Fish Passage Effectiveness</b>		<b>22</b>	<b>0.4314</b>	<b>0.29628</b>	<b>0.57680</b>
<b>Mid-Late Segment</b>	<b>In Tailrace</b>	<b>38</b>				
	<b>Fishway Attraction Effectiveness</b>		<b>29</b>	<b>0.7436</b>	<b>0.57566</b>	<b>0.86400</b>
	<b>Fish Passage Efficiency</b>		<b>17</b>	<b>0.4474</b>	<b>0.28997</b>	<b>0.61525</b>
	<b>Fish Passage Effectiveness</b>		<b>17</b>	<b>0.4474</b>	<b>0.28997</b>	<b>0.61525</b>

**TABLE 4.3: COMPOSITION OF MOVEMENT CLASSIFICATIONS, SPRING 2010.**

	Passage Shad		Non-Passage Shad (In EFL)		Non-EFL Shad (In Tailrace)		Non-Tailrace Shad		Totals	
	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
<b>Overall Totals and Percentages</b>	40	26.5%	25	16.6%	24	15.9%	62	41.1%	151	100.0%
<b><u>Release Location</u></b>										
Tailrace	33	82.5%	18	72.0%	19	79.2%	32	51.6%	102	67.5%
Lapidum	7	17.5%	7	28.0%	5	20.8%	30	48.4%	49	32.5%
<b><u>Sex</u></b>										
Male	24	60.0%	16	64.0%	8	33.3%	29	46.8%	77	51.0%
Female	16	40.0%	9	36.0%	16	66.7%	33	53.2%	74	49.0%
<b><u>Size (mm)</u></b>										
Minimum	427		430		445		415			
Maximum	514		540		540		525			
Average	474.5		479.0		487.4		475.2			
Median	475		478		487.5		475			
<b><u>Release Group</u></b>										
Release Group 1	10	25.0%	1	4.0%	3	12.5%	4	6.5%	18	11.9%
Release Group 2	10	25.0%	7	28.0%	8	33.3%	7	11.3%	32	21.2%
Release Group 3	3	7.5%	5	20.0%	4	16.7%	13	21.0%	25	16.6%
Release Group 4	8	20.0%	4	16.0%	4	16.7%	11	17.7%	27	17.9%
Release Group 5	5	12.5%	5	20.0%	4	16.7%	9	14.5%	23	15.2%
Release Group 6L	4	10.0%	2	5.0%	1	2.5%	17	42.5%	24	15.9%
Release Group 6T	0	0.0%	1	2.5%	0	0.0%	1	2.5%	2	1.3%
<b><u>Tailrace Released</u></b>										
R1 and R2	20	50.0%	8	32.0%	11	45.8%	11	17.7%	50	49.0%
v										
R4 and R5 + R6T	13	32.5%	10	40.0%	8	33.3%	21	33.9%	52	51.0%
<b><u>Lapidum released</u></b>										
R3	3	7.5%	5	20.0%	4	16.7%	13	21.0%	25	51.0%
v										
R6L	4	10.0%	2	8.0%	1	4.2%	17	27.4%	24	49.0%
<b>Early-Mid Release</b>	23	30.7%	13	17.3%	15	20.0%	24	32.0%	75	49.7%
v										
<b>Mid-Late Release</b>	17	22.4%	12	15.8%	9	11.8%	38	50.0%	76	50.3%

**TABLE 4.4: TRAVEL TIMES TO BENCHMARK LOCATIONS BY RELEASE LOCATION AND MOVEMENT CLASSIFICATION, SPRING 2010.**

<b>Travel time to Tailrace by movement classification (Days-hr:min:sec)</b>	<b>Travel time to EFL by movement classification (Days-hr:min:sec)</b>	<b>Travel time to Passage by movement classification (Days-hr:min:sec)</b>
<u><b>Passage Shad averages</b></u> <b>40</b> Angled Passage 07-19:56:03 Lapidum Passage 09-10:03:14 All Fish Passage 08-02:36:18	<u><b>Passage Shad averages</b></u> <b>40</b> Angled Passage 11-15:27:53 Lapidum Passage 11-15:16:51 All Fish Passage 11-15:25:58	<u><b>Passage Shad averages</b></u> <b>40</b> Angled Passage 13-05:35:51 Lapidum Passage 11-14:03:33 All Fish Passage 12-22:40:42
<u><b>Non-Passage Shad (In EFL)</b></u> <b>25</b> Angled Forays without passage 05-21:51:11 Lapidum Forays without passage 12-00:23:31 All Fish Forays without passage 07-14:53:02	<u><b>Non-Passage Shad (In EFL)</b></u> <b>25</b> Angled Forays without passage 10-09:30:14 Lapidum Forays without passage 15-23:52:29 All Fish Forays without passage 12-00:41:43	
<u><b>Non-EFL Shad (In Tailrace)</b></u> <b>24</b> Angled Tailrace without foray 07-21:09:20 Lapidum Tailrace without foray 12-19:05:33 All Fish Tailrace without foray 07-17:09:43		
<b>Overall Travel time to Tailrace (Days-hr:min:sec)</b>	<b>Overall Travel time to EFL (Days-hr:min:sec)</b>	<b>Overall Travel time to Passage (Days-hr:min:sec)</b>
<b>89</b> Overall average travel time to tailrace 07-20:45:58	<b>65</b> Overall average travel time to EFL 11-18:54:22	<b>40</b> Overall average travel time to passage 12-22:40:42
<b>69</b> Tailrace released average travel time to tailrace 06-22:37:22	<b>51</b> Tailrace released average travel time to EFL 11-05:16:41	<b>33</b> Tailrace released average travel time to passage 13-05:35:51
<b>20</b> Lapidum released average travel time to tailrace 11-06:20:47	<b>14</b> Lapidum released average travel time to EFL 13-19:34:40	<b>7</b> Lapidum released average travel time to passage 11-14:03:33



**TABLE 4.5: TRAVEL TIME TO TAILRACE COMPARISON BETWEEN MOVEMENT CLASSIFICATIONS BY RELEASE LOCATION, SPRING 2010.**

<b>Passage Shad Individual Release Groups</b>	<b>Return to Tailrace average (Days-hr:min:sec)</b>	<b>Return to Tailrace median (Days-hr:min:sec)</b>
Release Group 1 = 10	10-11:39:56	12-05:10:59
Release Group 2 = 10	09-14:50:30	08-15:36:18
Release Group 3 = 3	10-04:41:10	09-13:38:18
Release Group 4 = 8	05-23:12:21	05-19:46:00
Release Group 5 = 5	01-22:13:19	01-19:58:50
Release Group 6 = 4	08-20:04:47	08-04:43:40
<b>Early v. Late Release Group</b>	<b>average</b>	<b>median</b>
R1 and R2 (Tailrace Early-Mid)	10-01:15:13	11-05:08:37
v		
R4 and R5 (Tailrace Mid-Late)	04-09:54:15	03-05:18:34
R3 (Lapidum Early-Mid)	10-04:41:10	09-13:38:18
v		
R6 (Lapidum Mid-Late)	08-20:04:47	08-04:43:40
<b>Non-Passage Shad (In EFL) Individual Release Groups</b>	<b>Return to Tailrace average (Days-hr:min:sec)</b>	<b>Return to Tailrace median (Days-hr:min:sec)</b>
Release Group 1 = 1	06-17:24:16	06-17:24:16
Release Group 2 = 7	07-05:26:44	04-15:25:04
Release Group 3 = 5	12-01:27:40	15-04:45:45
Release Group 4 = 4	07-08:40:20	07-12:36:09
Release Group 5 = 5	02-16:11:09	02-10:58:06
Release Group 6 = 3	07-08:27:20	09-01:08:50
<b>Early v. Late Release Group</b>	<b>average</b>	<b>median</b>
R1 and R2 (Tailrace Early-Mid)	07-03:56:25	05-16:24:40
v		
R4 and R5 (Tailrace Mid-Late)	04-18:10:47	04-20:13:30
R3 (Lapidum Early-Mid)	12-01:27:40	15-04:45:45
v		
R6 (Lapidum Mid-Late)	10-00:33:00	09-01:08:50
<b>Non-EFL Shad (In Tailrace) Individual Release Groups</b>	<b>Return to Tailrace average (Days-hr:min:sec)</b>	<b>Return to Tailrace median (Days-hr:min:sec)</b>
R1 = 3	09-18:53:16	08-13:56:42
R2 = 8	08-03:14:53	01-14:53:48
R3 = 4	13-03:08:06	12-00:09:49
R4 = 4	02-11:28:35	01-00:17:10
R5 = 4	04-04:58:02	03-21:00:38
R6 = 1	11-10:55:22	07-17:09:43
<b>Early v. Late Release Group</b>	<b>average</b>	<b>median</b>
R1 and R2 (Tailrace Early-Mid)	06-03:35:29	08-14:03:32
v		
R4 and R5 (Tailrace Mid-Late)	03-08:13:19	02-11:04:52
R3 (Lapidum Early-Mid)	13-03:08:06	12-00:09:49
v		
R6 (Lapidum Mid-Late)	11-10:55:22	07-17:09:43

**TABLE 4.6: FORAY DURATIONS FOR BOTH SUCCESSFUL AND UNSUCCESSFUL FORAYS, SPRING 2010.**

<b>EFL Foray Resulting in Successful Passage</b>				
<b>Number of Forays 41*</b>	<b>Foray Durations (Days-hr:min:sec)</b>	<b>Date of Forays</b>	<b>Water Temp °C</b>	<b>Non-Tagged Hourly Shad Count</b>
Min	00-00:00:29	4/30/10	16.0	12
Median	00-00:12:24	5/12/10	19.5	144
Average	00-00:25:37	5/12/10	19.5	214
Max	00-01:56:39	5/24/10	21.5	677
<b>EFL Foray Resulting in Unsuccessful Passage (Shad Later Passed)</b>				
<b>Number of Forays 19</b>	<b>Foray Durations (Days-hr:min:sec)</b>	<b>Date of Forays</b>	<b>Water Temp °C</b>	<b>Non-Tagged Hourly Shad Count</b>
Min	00-00:01:27	5/1/10	16.5	0
Median	00-00:19:34	5/17/10	17.5	33
Average	00-00:32:54	5/15/10	18.0	87
Max	00-02:14:29	5/24/10	20.1	439
<b>EFL Foray Resulting in Unsuccessful Passage (Shad Never Passed)</b>				
<b>Number of Forays 42</b>	<b>Foray Durations (Days-hr:min:sec)</b>	<b>Date of Forays</b>	<b>Water Temp °C</b>	<b>Non-Tagged Hourly Shad Count</b>
Min	00-00:00:05	4/24/10	16.5	0
Median	00-00:16:06	5/19/10	19.5	37
Average	00-00:31:44	5/18/10	20.5	86
Max	00-04:21:43	6/1/10	26.3	495
<b>Total Forays</b>				
<b>Total Number of Forays</b>		<b>Successful Foray</b>		<b>Unsuccessful Foray</b>
<b>102</b>		<b>41</b> <b>40.2%</b>		<b>61</b> <b>59.8%</b>
<b>Total Number of Fish</b>				
<b>Fish</b>		<b>Successful Foray</b>		<b>Unsuccessful Foray</b>
<b>65</b>		<b>40</b> <b>61.5%</b>		<b>25</b> <b>38.5%</b>

\*Footnote: Includes Fish 54-208's second successful foray through EFL.

**TABLE 4.7: TURBINE-OPERATING COMBINATIONS DURING EFL OPERATIONS, SPRING 2010.**

Turbine-Operating Combinations		Percentage of Time Turbine-Operating Combination Occurred	Number of Fish Passed	Percentage of Fish Passed (N=41)	Forays Made into EFL
Small units	Large units				
<b>"A" Gate Entrance Operating</b>					
2	0	<u>31.9%*</u>	14	<u>34.1%*</u>	33
3	0	<u>3.6%*</u>	10	<u>24.4%*</u>	15
4	0	7.4%	0	0.0%	4
5	0	0.1%	0	0.0%	0
<b>Subtotal</b>		<b>43.0%</b>	<b>24</b>	<b>58.5%</b>	<b>52</b>
*Top Two Turbine-Operating Combinations for fish passage through "A" Gate Entrance. Operated (35.5%) and Passed (58.5%)					
<b>"C" Gate Entrance Operating</b>					
3	1	2.1%	0	0.0%	0
4	1	<u>7.7%*</u>	4	<u>9.8%*</u>	9
4	2	15.9%	0	0.0%	6
4	3	1.7%	1	2.4%	1
5	1	0.2%	0	0.0%	0
5	4	0.6%	0	0.0%	0
6	1	5.0%	1	2.4%	7
6	2	2.1%	1	2.4%	3
6	3	<u>5.6%*</u>	5	<u>12.2%*</u>	7
6	4	4.3%	2	4.9%	11
7	3	7.1%	1	2.4%	3
7	4	4.7%	2	4.9%	3
<b>Subtotal</b>		<b>57.0%</b>	<b>17</b>	<b>41.5%</b>	<b>50</b>
*Top Two Turbine-Operating Combinations for fish passage through "C" Gate Entrance. Operated (13.3%) and Passed (22.0%)					
<b>Overall Top Combinations for both "A" and "C" gate entrance. Operated (48.8%) and Passed (80.5%)</b>					

**TABLE 4.8: SHAD COUNT AND PERCENTAGE ON NON-TAILRACE MONITORS BY MOVEMENT CLASSIFICATIONS, SPRING 2010.**

		Lower River			Rowland	East Spillway	
		Spencer Island	Lapidum	Tomes Landing	Island	Far-field array	Near-field array
<b>Passage Shad</b> <b>N = 40</b>	Count	33	32	24	40	13	5
	Percentage	82.5%	80.0%	60.0%	100.0%	32.5%	12.5%
<b>Non-Passage Shad (In EFL)</b> <b>N = 25</b>	Count	24	24	18	25	7	1
	Percentage	96.0%	96.0%	72.0%	100.0%	28.0%	4.0%
<b>Non-EFL Shad (In Tailrace)</b> <b>N = 24</b>	Count	23	22	11	24	5	1
	Percentage	95.8%	91.7%	45.8%	100.0%	20.8%	4.2%
<b>Non-tailrace Shad</b> <b>N = 62</b>	Count	42	46	20	32	1	0
	Percentage	67.7%	74.2%	32.3%	51.6%	1.6%	0.0%
<b>Combined Total</b> <b>N = 151</b>	Count	122	124	73	121	26	7
	Percentage	80.8%	82.1%	48.3%	80.1%	17.2%	4.6%

**TABLE 4.9: UPSTREAM MOVEMENT FROM TOMES LANDING AND LAPIDUM MONITORS, SPRING 2010.**

		Returned Upstream to		
		Spencer Island	Rowland Island	Tailrace
<b><u>Passage Shad</u></b> <b>N = 40</b>	Count	33	33	33
	Percentage	82.5%	82.5%	82.5%
<b><u>Non-Passage Shad (In EFL)</u></b> <b>N = 25</b>	Count	23	22	22
	Percentage	92.0%	88.0%	88.0%
<b><u>Non-EFL Shad (In Tailrace)</u></b> <b>N = 24</b>	Count	17	16	15
	Percentage	70.8%	66.7%	62.5%
<b><u>Non-tailrace Shad</u></b> <b>N = 62</b>	Count	32	1	0
	Percentage	51.6%	1.6%	0.0%
<b><u>Combined Total</u></b> <b>N = 151</b>	Count	105	72	70
	Percentage	69.5%	47.7%	46.4%



**TABLE 6.1: SUMMARY OF REPORTED PASSAGE RATES OF AMERICAN SHAD AT FISH LIFTS.**

<b>Fish Lifted</b>	<b>Passage Efficiency %</b>	<b>Fish in Fish Lift</b>	<b>Fishway Attraction Effectiveness %</b>	<b>Fish Available in Tailrace</b>	<b>Dams and Dates of Studies</b>	<b>Rivers and States</b>	<b>Authors</b>
9	50.0%	NA	NA	18	Holyoke Dam, 1986	Connecticut River, MA	Barry, T., and B. Kynard
5	41.7%	8	66.7%	12	Cataract Dam, 1994	Saco River, ME	RMC Environmental Services
66	55.5%	NA	NA	119	Greenville Dam, 96-98	Shetucket River, CT	Kleinschmidt Associates
46	33.8%	86	63.2%	136	Holtwood Dam, 2001	Susquehanna River, PA	Normandeau Associates
4	11.1%	NA	NA	36	Boott Hydro Dam, 2005	Merrimack River, MA	Spankle, K
14	10.9%	96	75.0%	128	Holtwood Dam, 2008	Susquehanna River, PA	Normandeau Associates
<b>144</b>	<b>32.1%</b>	<b>190</b>	<b>68.8%</b>	<b>449</b>	<b>Total without 2010 study</b>		
40	44.9%	65	73.0%	89	Conowingo Dam, 2010	Susquehanna River, MD	Normandeau Associates
<b>184</b>	<b>34.2%</b>	<b>255</b>	<b>69.9%</b>	<b>538</b>	<b>Total with 2010 study</b>		

**FIGURE 2.1: CONOWINGO DAM AND THE LOCATIONS OF HYDROELECTRIC STATIONS WITH FISHWAYS AND YEAR OF INSTALLATION ON THE LOWER SUSQUEHANNA RIVER.**

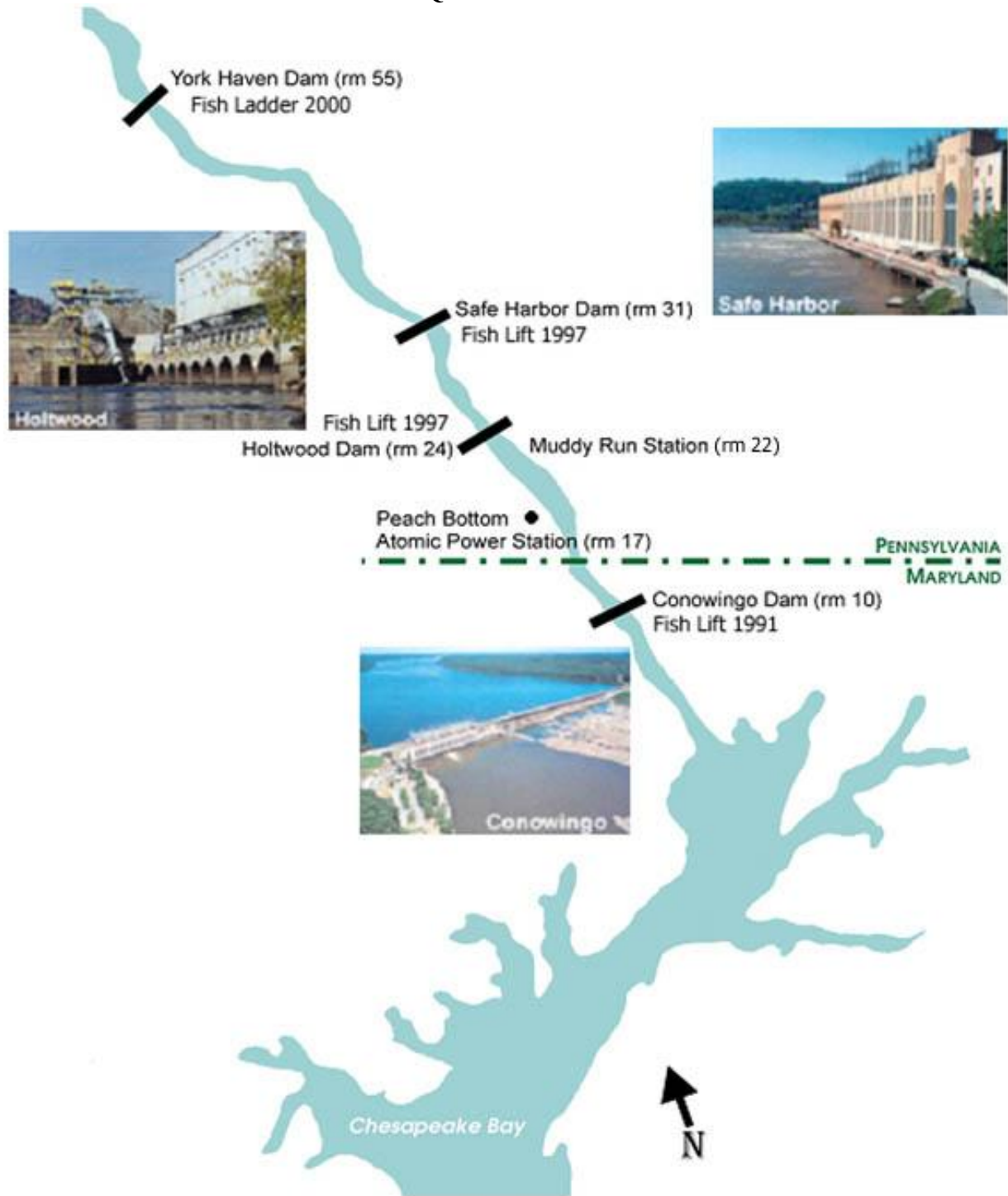
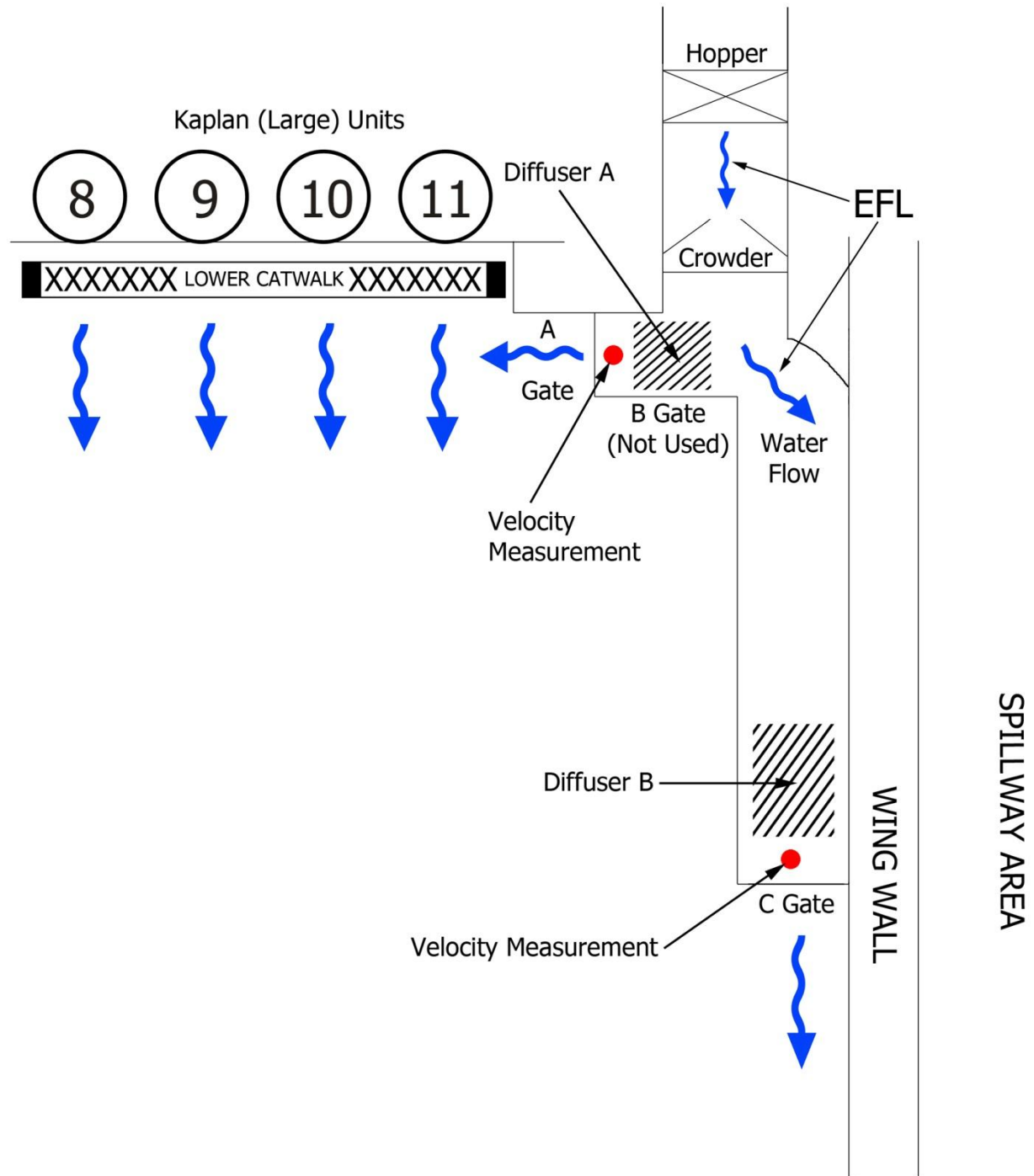
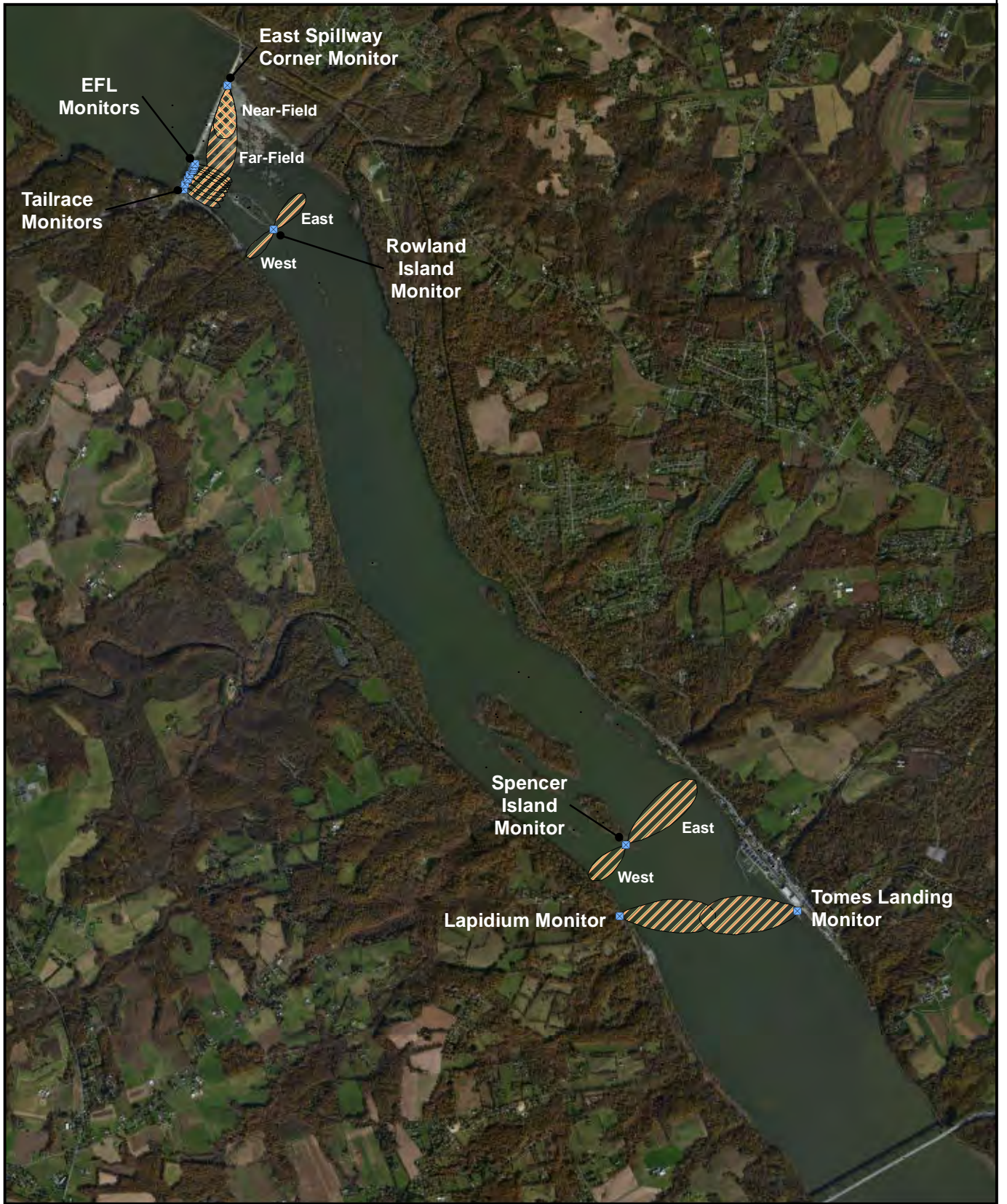


FIGURE 2.2: SCHEMATICS OF EFL (HOW IT FUNCTIONS).

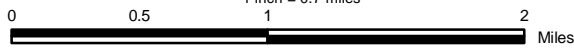




**EXELON GENERATION COMPANY, LLC**

**RSP STUDY 3.5  
CONOWINGO HYDROELECTRIC PROJECT  
PROJECT NO. 405**

1 inch = 0.7 miles



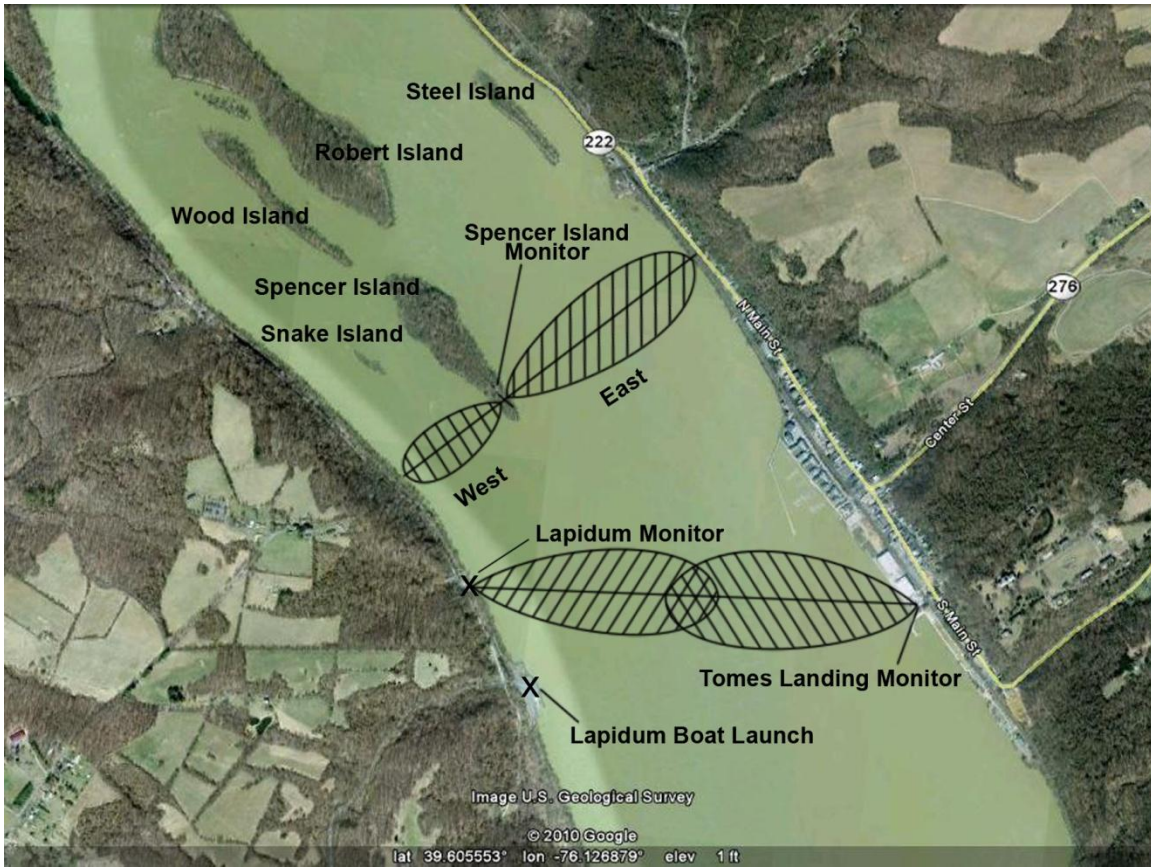
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**Figure 3.1**

**Figure Title: General Map of Study Area  
Showing Location of  
Monitoring Stations**

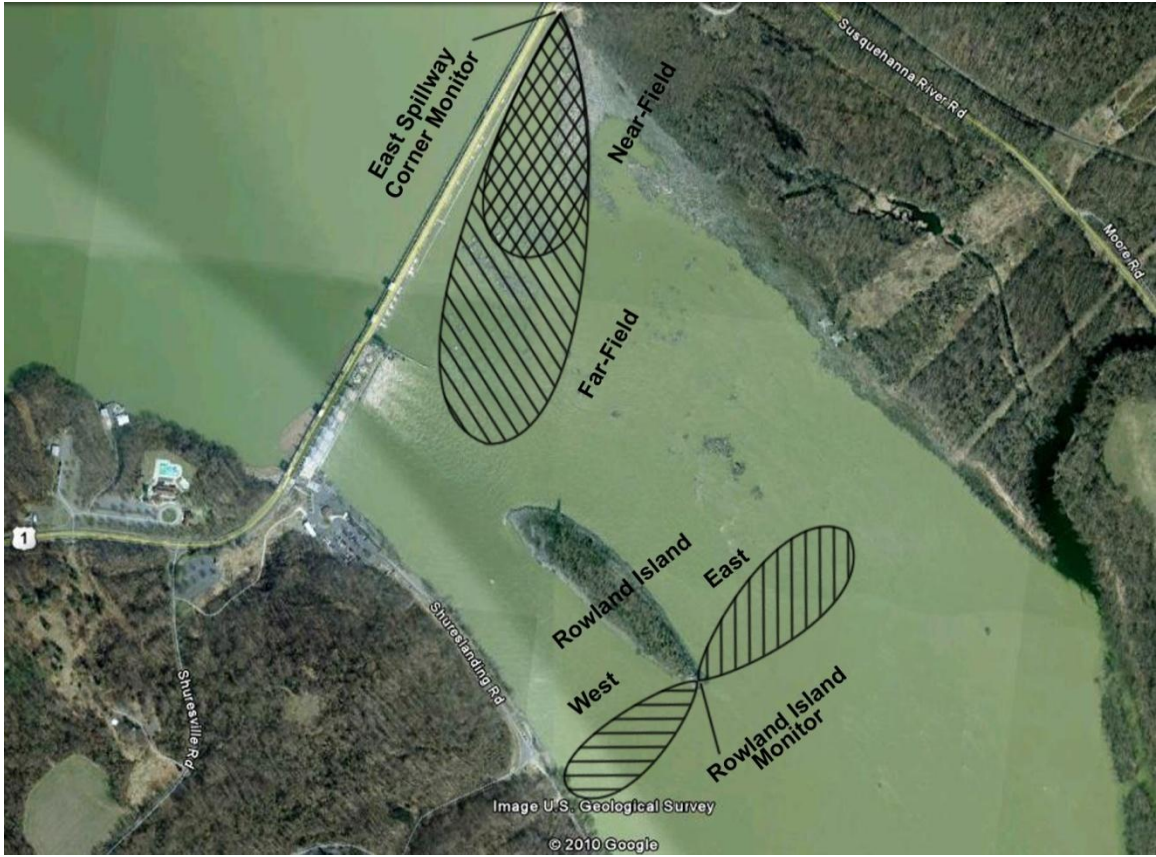


**FIGURE 3.2: MAP OF LOWER RIVER MONITORS.**





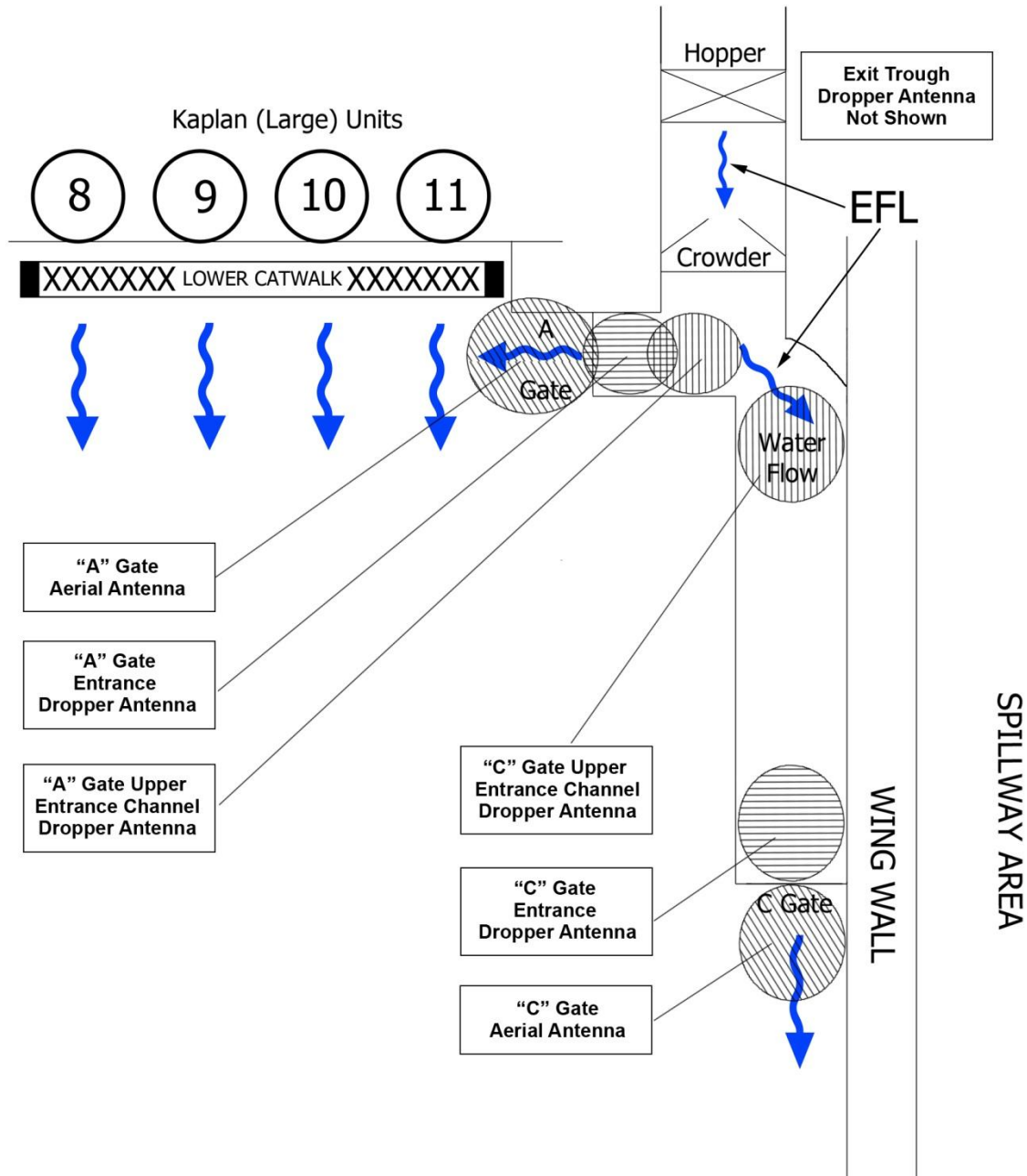
**FIGURE 3.3: MAP OF ROWLAND ISLAND AND EAST SPILLWAY CORNER MONITORS.**



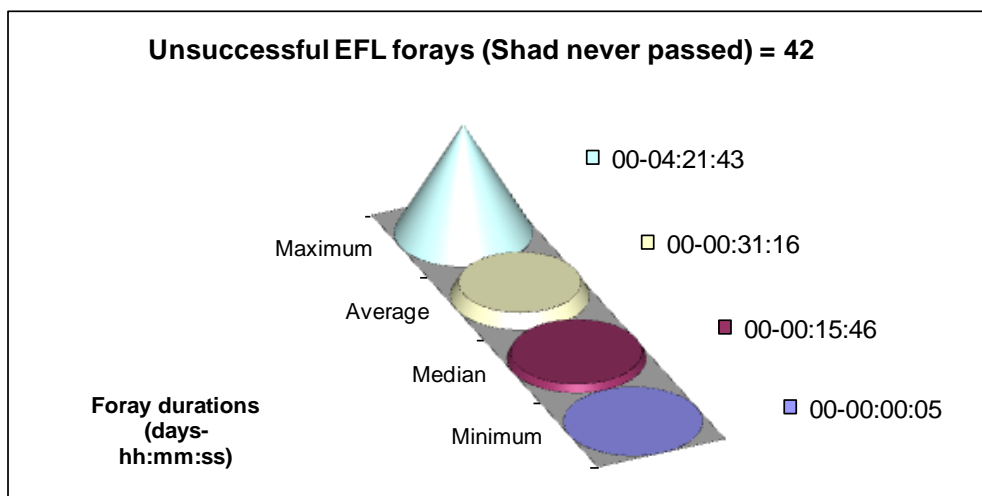
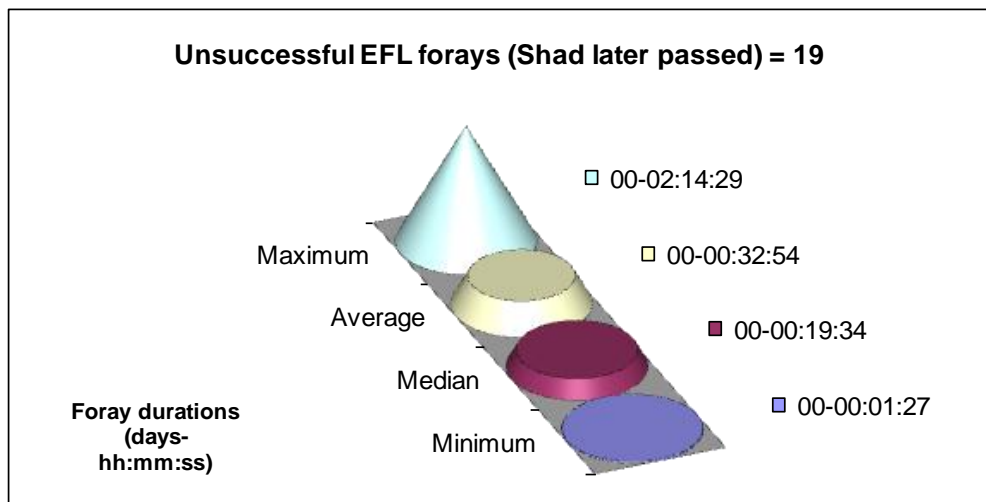
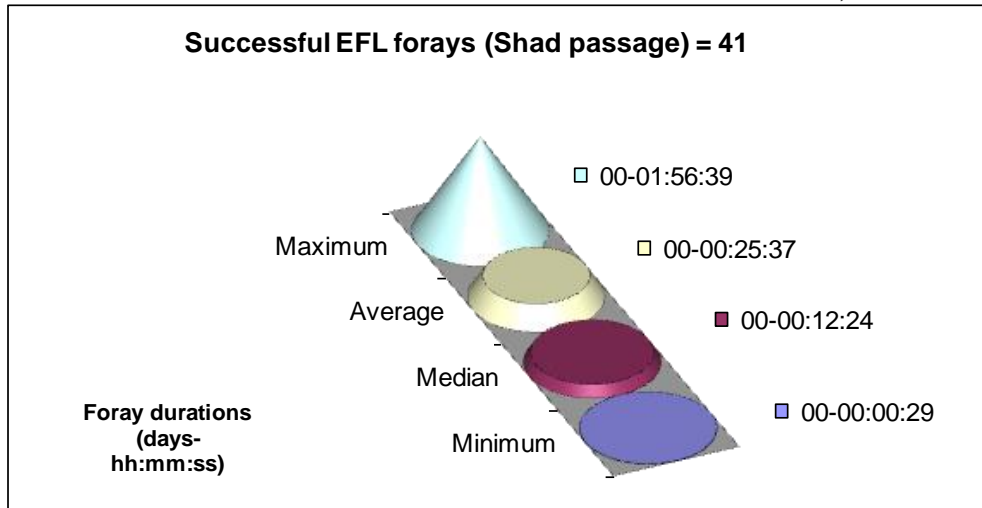
**FIGURE 3.4: MAP OF TRAILRACE MONITORS.**



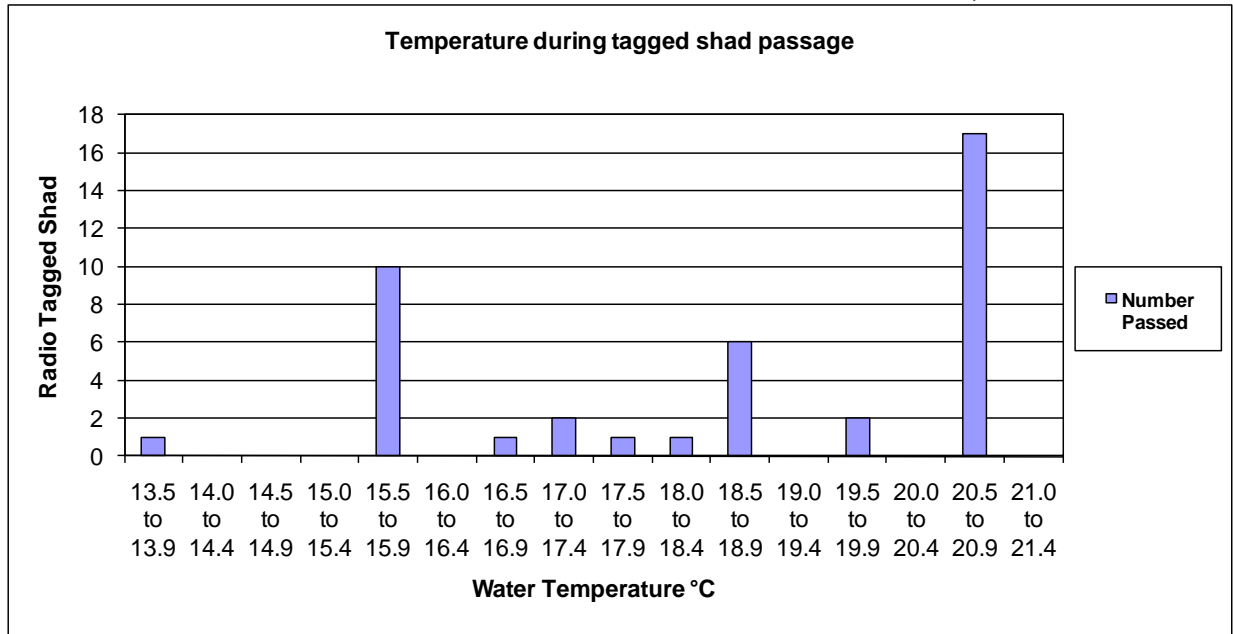
FIGURE 3.5: EFL MONITORS.



**FIGURE 4.1: SUCCESSFUL AND UNSUCCESSFUL EFL FORAYS, SPRING 2010.**

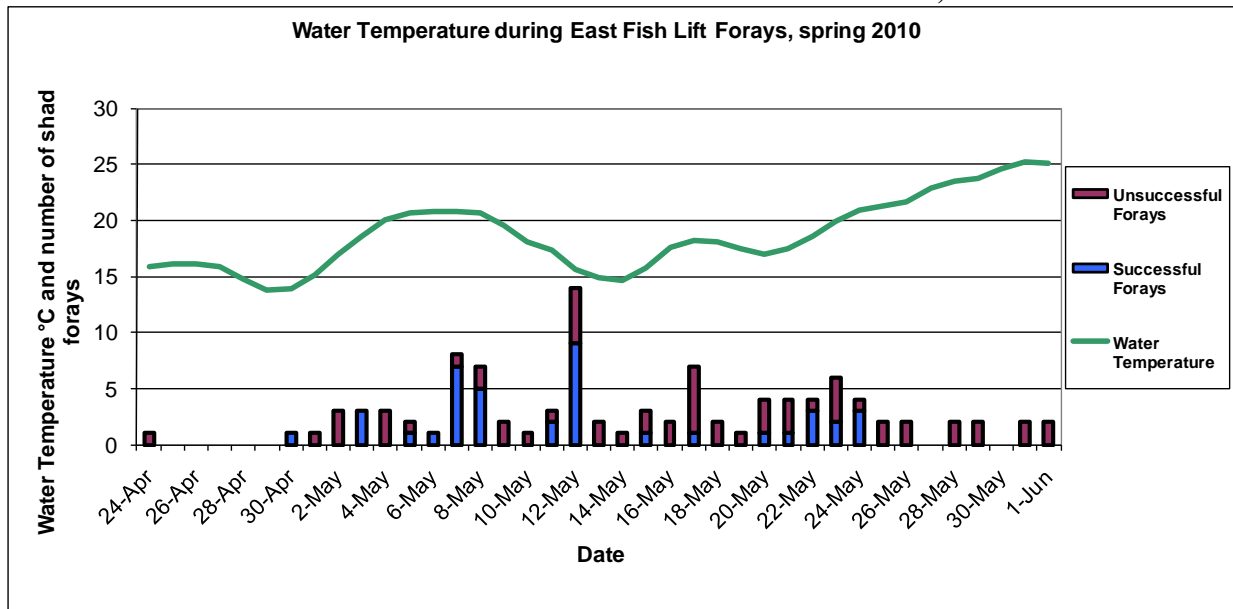


**FIGURE 4.2: TEMPERATURE DURING TAGGED SHAD PASSAGE, SPRING 2010.**

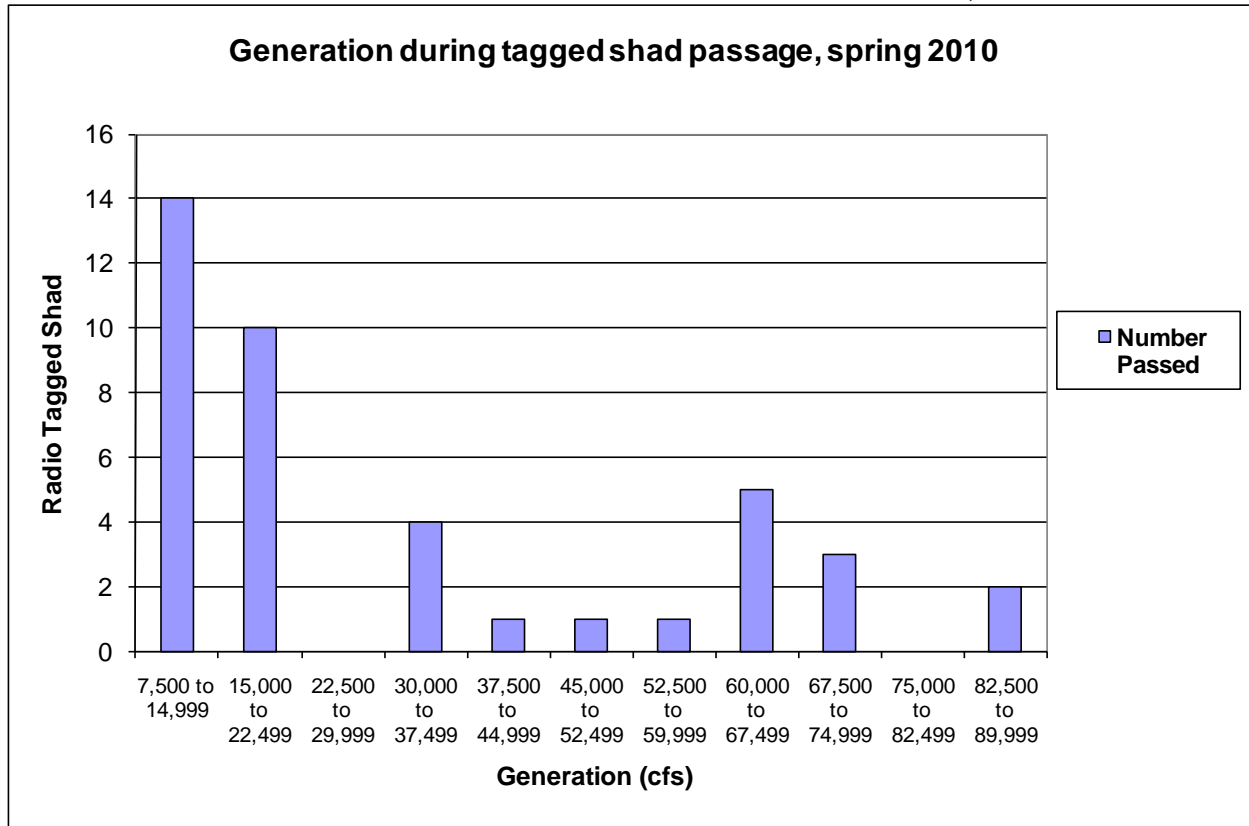




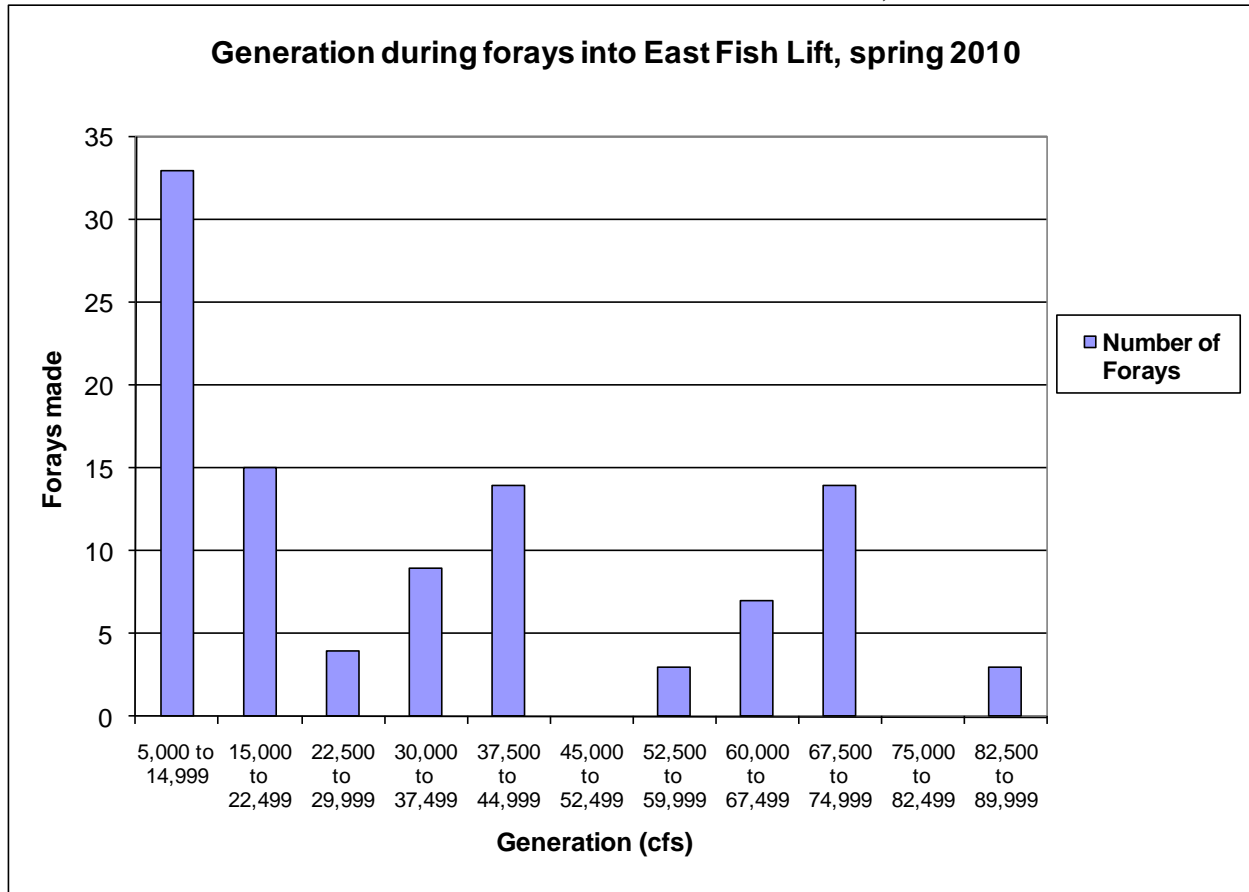
**FIGURE 4.3: TEMPERATURE DURING FORAYS INTO EFL, SPRING 2010.**



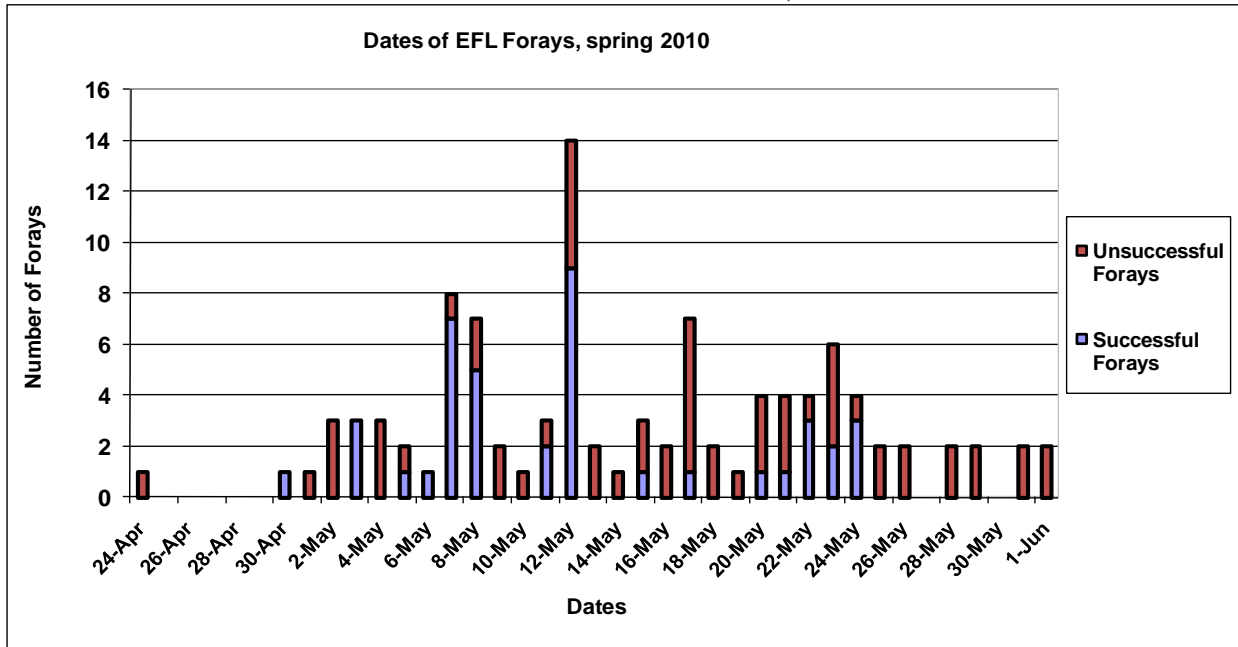
**FIGURE 4.4: GENERATION DURING TAGGED SHAD PASSAGE, SPRING 2010.**



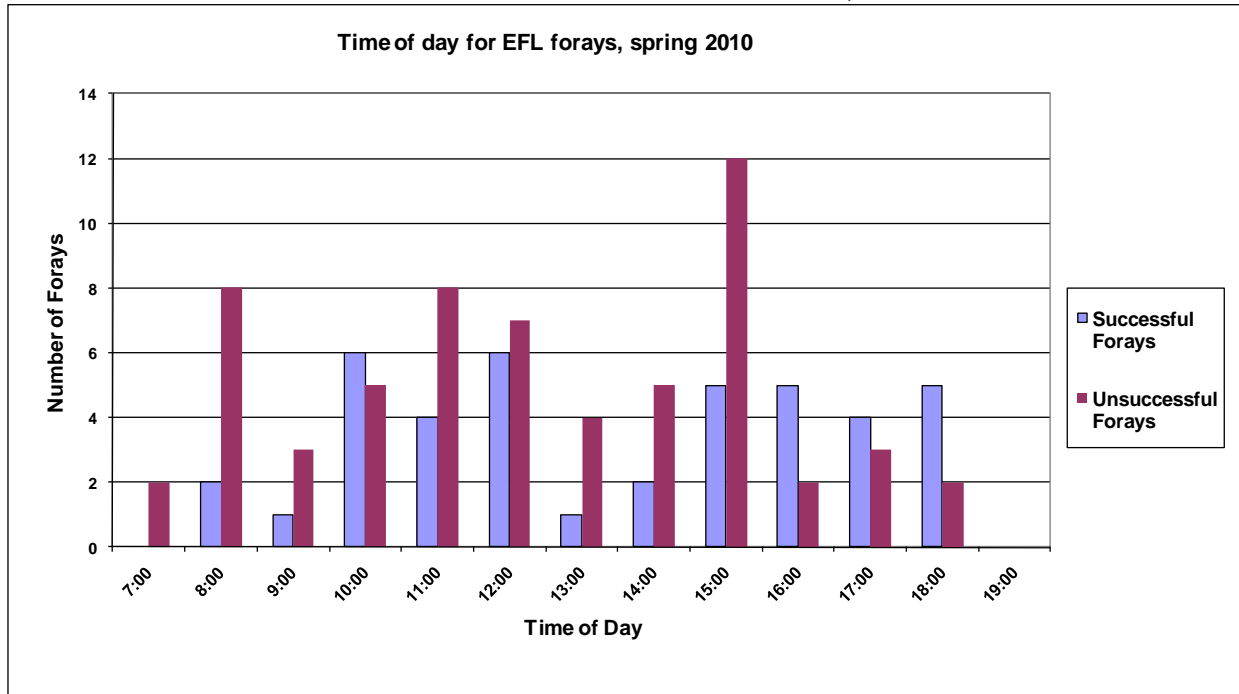
**FIGURE 4.5: GENERATION DURING EFL FORAYS, SPRING 2010.**



**FIGURE 4.6: DATES OF EFL FORAYS, SPRING 2010.**



**FIGURE 4.7: TIME OF DAY FOR EFL FORAYS, SPRING 2010.**





**APPENDIX A: SUMMARY OF TAGGED AND RELEASED ADULT AMERICAN SHAD  
DOWNSTREAM OF THE CONOWINGO DAM, SPRING 2010.**

**Appendix A**

**Summary of tagged and released adult American shad downstream of the Conowingo dam, spring 2010.**

Fish	Sex	Length (mm)	Capture Method	Release			River Flow (cfs)	Water Temperature (°C)	
				Group	Date and Time	Location			Location Description
54-192	F	515	Angled	R1	4/20/2010 7:53:00 AM	Tailrace	Downstream of "C" Gate	34,000	14.7
54-190	M	463	Angled	R1	4/20/2010 10:11:00 AM	Tailrace	Downstream of "C" Gate	34,000	14.7
54-191	M	473	Angled	R1	4/20/2010 10:24:00 AM	Tailrace	Downstream of "C" Gate	34,000	14.7
54-193	M	465	Angled	R1	4/20/2010 1:08:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-194	M	486	Angled	R1	4/20/2010 1:09:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-195	M	468	Angled	R1	4/20/2010 1:15:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-196-1	M	474	Angled	R1	4/20/2010 1:24:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-197	M	475	Angled	R1	4/20/2010 1:29:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-198	M	499	Angled	R1	4/20/2010 1:36:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-199	M	432	Angled	R1	4/20/2010 1:52:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-200-1	M	478	Angled	R1	4/20/2010 1:54:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-201	F	468	Angled	R1	4/20/2010 2:08:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-202	M	469	Angled	R1	4/20/2010 2:12:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-203	M	463	Angled	R1	4/20/2010 2:16:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-204	F	491	Angled	R1	4/20/2010 2:20:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-205	M	423	Angled	R1	4/20/2010 2:30:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-206	M	450	Angled	R1	4/20/2010 2:35:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
54-207	M	463	Angled	R1	4/20/2010 2:41:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.7
21-100	M	468	Angled	R2	4/22/2010 10:36:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-101	M	478	Angled	R2	4/22/2010 10:47:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-102	F	445	Angled	R2	4/22/2010 10:55:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-103	M	415	Angled	R2	4/22/2010 11:00:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-104	M	430	Angled	R2	4/22/2010 11:06:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-136	M	506	Angled	R2	4/22/2010 11:22:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-105	M	480	Angled	R2	4/22/2010 11:26:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-106	M	451	Angled	R2	4/22/2010 11:29:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-107	F	496	Angled	R2	4/22/2010 11:34:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-109	M	459	Angled	R2	4/22/2010 11:34:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-110	F	518	Angled	R2	4/22/2010 11:35:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-111	F	460	Angled	R2	4/22/2010 11:38:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-112	M	481	Angled	R2	4/22/2010 11:44:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-113	F	510	Angled	R2	4/22/2010 11:51:00 AM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-114	M	462	Angled	R2	4/22/2010 12:03:00 PM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-115	M	480	Angled	R2	4/22/2010 12:10:00 PM	Tailrace	Downstream of "C" Gate	45,000	14.5
21-116	M	510	Angled	R2	4/22/2010 12:34:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-117	F	484	Angled	R2	4/22/2010 12:37:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5

Fish	Sex	Length (mm)	Capture Method	Release				River Flow (cfs)	Water Temperature (°C)
				Group	Date and Time	Location	Location Description		
21-108	F	499	Angled	R2	4/22/2010 12:45:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-135	M	452	Angled	R2	4/22/2010 12:56:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-118	F	505	Angled	R2	4/22/2010 1:00:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-119	M	491	Angled	R2	4/22/2010 1:02:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-120	F	532	Angled	R2	4/22/2010 1:10:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-121	M	427	Angled	R2	4/22/2010 1:11:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-122	M	471	Angled	R2	4/22/2010 1:20:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-123	M	468	Angled	R2	4/22/2010 1:21:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-124	F	514	Angled	R2	4/22/2010 1:26:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-125	F	493	Angled	R2	4/22/2010 1:28:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-126	M	440	Angled	R2	4/22/2010 1:31:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-127	M	462	Angled	R2	4/22/2010 1:34:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-128	M	461	Angled	R2	4/22/2010 1:35:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-129	M	472	Angled	R2	4/22/2010 1:37:00 PM	Tailrace	Downstream Units 5 & 7	10,000	14.5
21-130	F	505	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
21-131	F	480	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
21-132	F	485	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
21-133	F	495	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
21-134	F	505	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-174	F	475	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-175	M	465	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-176	M	485	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-177	M	455	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-178	M	435	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-179	M	480	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-180	F	515	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-181	F	490	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-182	M	415	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-183	M	490	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-184	M	475	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-185	F	525	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-186	M	455	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-187	F	505	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-188	M	480	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-189	M	450	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-208	F	475	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-209	M	450	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-210	F	495	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8
54-211	M	460	West Fish Lift	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	45,000	14.8

Fish	Sex	Length (mm)	Capture Method	Release				River Flow (cfs)	Water Temperature (°C)
				Group	Date and Time	Location	Location Description		
54-172	F	510	Angled	R4	5/7/2010 9:28:00 AM	Tailrace	Between Units 3 & 5	34,000	20.8
54-173	F	490	Angled	R4	5/7/2010 9:34:00 AM	Tailrace	Between Units 3 & 5	34,000	20.8
54-171	F	500	Angled	R4	5/7/2010 10:13:00 AM	Tailrace	Between Units 3 & 5	34,000	20.8
54-168	M	470	Angled	R4	5/7/2010 10:15:00 AM	Tailrace	Between Units 3 & 5	34,000	20.8
54-169	F	490	Angled	R4	5/7/2010 10:33:00 AM	Tailrace	Between Units 3 & 5	34,000	20.8
54-170	M	470	Angled	R4	5/7/2010 10:55:00 AM	Tailrace	Between Units 3 & 5	34,000	20.8
54-137	M	440	Angled	R4	5/7/2010 11:16:00 AM	Tailrace	Between Units 3 & 5	34,000	20.8
54-136	M	450	Angled	R4	5/7/2010 11:28:00 AM	Tailrace	Between Units 3 & 5	34,000	20.8
54-135	M	440	Angled	R4	5/7/2010 11:39:00 AM	Tailrace	Downstream of "C" Gate	34,000	20.8
54-139	F	510	Angled	R4	5/7/2010 11:44:00 AM	Tailrace	Downstream of "C" Gate	34,000	20.8
54-138	M	440	Angled	R4	5/7/2010 12:05:00 PM	Tailrace	Downstream of "C" Gate	34,000	20.8
54-142	M	500	Angled	R4	5/7/2010 12:09:00 PM	Tailrace	Downstream of "C" Gate	34,000	20.8
54-141	M	445	Angled	R4	5/7/2010 12:41:00 PM	Tailrace	Downstream of "C" Gate	34,000	20.8
54-140	M	480	Angled	R4	5/7/2010 12:55:00 PM	Tailrace	Downstream of "C" Gate	34,000	20.8
54-144	F	500	Angled	R4	5/7/2010 1:10:00 PM	Tailrace	Downstream of "C" Gate	34,000	20.8
54-167	F	505	Angled	R4	5/7/2010 1:26:00 PM	Tailrace	Downstream of "C" Gate	34,000	20.8
54-164	M	440	Angled	R4	5/7/2010 1:28:00 PM	Tailrace	Downstream of "C" Gate	34,000	20.8
54-160	M	480	Angled	R4	5/7/2010 1:33:00 PM	Tailrace	Downstream of "C" Gate	34,000	20.8
54-158	F	510	Angled	R4	5/7/2010 2:03:00 PM	Tailrace	Downstream of "C" Gate	34,000	20.8
54-166	M	440	Angled	R4	5/7/2010 3:03:00 PM	Tailrace	Downstream of "C" Gate	68,000	20.8
54-149	M	470	Angled	R4	5/7/2010 3:20:00 PM	Tailrace	Downstream of "C" Gate	68,000	20.8
54-150	F	500	Angled	R4	5/7/2010 3:20:00 PM	Tailrace	Downstream of "C" Gate	68,000	20.8
54-148	M	475	Angled	R4	5/7/2010 3:27:00 PM	Tailrace	Downstream of "C" Gate	68,000	20.8
54-145	M	450	Angled	R4	5/7/2010 3:45:00 PM	Tailrace	Downstream of "C" Gate	68,000	20.8
54-151	M	525	Angled	R4	5/7/2010 4:14:00 PM	Tailrace	Downstream of "C" Gate	68,000	20.8
54-153	F	510	Angled	R4	5/7/2010 5:13:00 PM	Tailrace	Downstream of "C" Gate	68,000	20.8
54-152	F	515	Angled	R4	5/7/2010 8:02:00 PM	Tailrace	Downstream of "C" Gate	68,000	20.8
21-137	F	495	Angled	R5	5/10/2010 10:29:00 AM	Tailrace	Between Units 7 & 8	22,500	18.1
21-138	F	460	Angled	R5	5/10/2010 10:44:00 AM	Tailrace	Between Units 7 & 8	22,500	18.1
21-139	M	450	Angled	R5	5/10/2010 10:52:00 AM	Tailrace	Between Units 7 & 8	22,500	18.1
21-140	F	468	Angled	R5	5/10/2010 10:55:00 AM	Tailrace	Between Units 7 & 8	22,500	18.1
21-141	F	470	Angled	R5	5/10/2010 11:02:00 AM	Tailrace	Between Units 7 & 8	22,500	18.1
21-174	F	482	Angled	R5	5/10/2010 11:17:00 AM	Tailrace	Between Units 7 & 8	22,500	18.1
21-142	F	495	Angled	R5	5/10/2010 11:45:00 AM	Tailrace	Off of "A" Gate discharge	22,500	18.1
21-143	F	480	Angled	R5	5/10/2010 12:00:00 PM	Tailrace	Off of "A" Gate discharge	22,500	18.1
21-144	M	440	Angled	R5	5/10/2010 12:08:00 PM	Tailrace	Off of "A" Gate discharge	22,500	18.1
21-145	F	475	Angled	R5	5/10/2010 12:12:00 PM	Tailrace	Off of "A" Gate discharge	22,500	18.1
21-173	F	505	Angled	R5	5/10/2010 12:33:00 PM	Tailrace	Off of "A" Gate discharge	22,500	18.1
21-149	F	445	Angled	R5	5/10/2010 12:34:00 PM	Tailrace	Off of "A" Gate discharge	22,500	18.1

Fish	Sex	Length (mm)	Capture Method	Release				River Flow (cfs)	Water Temperature (°C)
				Group	Date and Time	Location	Location Description		
21-146	F	505	Angled	R5	5/10/2010 12:36:00 PM	Tailrace	Off of "A" Gate discharge	22,500	18.1
21-147	F	503	Angled	R5	5/10/2010 12:54:00 PM	Tailrace	Off of "A" Gate discharge	22,500	18.1
21-148	F	480	Angled	R5	5/10/2010 2:22:00 PM	Tailrace	Between Units 3 & 5	7,500	18.1
21-150	M	475	Angled	R5	5/10/2010 2:35:00 PM	Tailrace	Between Units 3 & 5	7,500	18.1
21-151	F	540	Angled	R5	5/10/2010 2:54:00 PM	Tailrace	Between Units 3 & 5	7,500	18.1
21-170	M	445	Angled	R5	5/10/2010 3:05:00 PM	Tailrace	Between Units 3 & 5	7,500	18.1
21-152	M	440	Angled	R5	5/10/2010 4:14:00 PM	Tailrace	Between Units 3 & 5	7,500	18.1
21-153	F	445	Angled	R5	5/10/2010 4:24:00 PM	Tailrace	Between Units 3 & 5	7,500	18.1
21-154	M	465	Angled	R5	5/10/2010 5:14:00 PM	Tailrace	Between Units 3 & 5	7,500	18.1
21-155	M	480	Angled	R5	5/10/2010 5:21:00 PM	Tailrace	Between Units 3 & 5	7,500	18.1
21-156	F	540	Angled	R5	5/10/2010 5:30:00 PM	Tailrace	Between Units 3 & 5	7,500	18.1
21-157	F	520	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-158	F	480	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-159	F	505	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-160	F	485	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-161	F	495	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-162	F	515	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-163	F	505	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-164	F	490	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-165	F	455	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-166	F	500	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-168	F	490	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-169	F	475	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-171	F	485	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
21-172	F	475	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
54-147	M	465	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
54-154	F	480	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
54-155	M	430	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
54-156	F	490	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
54-157	F	510	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
54-159	F	475	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
54-161	M	435	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
54-162	M	460	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
54-163	M	460	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
54-165	F	465	West Fish Lift	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Lapidum Boat Launch	17,000	15.7
54-196-2	F	510	West Fish Lift	R6T	5/12/2010 11:00:00 AM	West Fish Lift Tailrace	West Fishlift Sorting Tank	17,000	15.7
54-200-2	F	500	West Fish Lift	R6T	5/12/2010 11:00:00 AM	West Fish Lift Tailrace	West Fishlift Sorting Tank	17,000	15.7



**APPENDIX B: INITIAL POST TAGGING RETURN DATES AND TIMES TO CONOWINGO  
TAILRACE, SPRING 2010.**

**Appendix B**  
**Initial post tagging return dates and times to Conowingo Tailrace, spring 2010.**

Fish	Release		Movement Classification	Release		Initial Return to Tailrace		Time to Initial Tailrace days-hrs:min:sec
	Group	Location		Date	Time	Date	Time	
21-112	R2	Downstream of "C" Gate	Passage	22-Apr-10	11:44:00	27-Apr-10	0:06:14	05-00:06:14
21-113	R2	Downstream of "C" Gate	Passage	22-Apr-10	11:51:00	27-Apr-10	18:12:15	05-18:12:15
21-114	R2	Downstream of "C" Gate	Passage	22-Apr-10	12:03:00	27-Apr-10	14:26:10	05-14:26:10
21-119	R2	Downstream Units 5 & 7	Passage	22-Apr-10	13:02:00	28-Apr-10	13:02:27	06-13:02:27
21-121	R2	Downstream Units 5 & 7	Passage	22-Apr-10	13:11:00	03-May-10	20:47:53	11-20:47:53
21-122	R2	Downstream Units 5 & 7	Passage	22-Apr-10	13:20:00	05-May-10	5:01:22	13-05:01:22
21-123	R2	Downstream Units 5 & 7	Passage	22-Apr-10	13:21:00	07-May-10	16:30:03	15-16:30:03
21-124	R2	Downstream Units 5 & 7	Passage	22-Apr-10	13:26:00	07-May-10	23:49:13	15-23:49:13
21-127	R2	Downstream Units 5 & 7	Passage	22-Apr-10	13:34:00	27-Apr-10	18:19:14	05-18:19:14
21-135	R2	Downstream Units 5 & 7	Passage	22-Apr-10	12:56:00	02-May-10	18:10:08	10-18:10:08
21-146	R5	Off of "A" Gate discharge	Passage	10-May-10	12:36:00	11-May-10	8:39:35	01-08:39:35
21-149	R5	Off of "A" Gate discharge	Passage	10-May-10	12:34:00	12-May-10	7:46:50	02-07:46:50
21-154	R5	Between Units 3 & 5	Passage	10-May-10	17:14:00	11-May-10	19:58:50	01-19:58:50
21-170	R5	Between Units 3 & 5	Passage	10-May-10	15:05:00	12-May-10	14:17:15	02-14:17:15
21-174	R5	Between Units 7 & 8	Passage	10-May-10	11:17:00	11-May-10	12:24:03	01-12:24:03
54-138	R4	Downstream of "C" Gate	Passage	07-May-10	12:05:00	09-May-10	6:20:25	02-06:20:25
54-140	R4	Downstream of "C" Gate	Passage	07-May-10	12:55:00	19-May-10	4:12:22	12-04:12:22
54-142	R4	Downstream of "C" Gate	Passage	07-May-10	12:09:00	10-May-10	10:07:43	03-10:07:43
54-158	R4	Downstream of "C" Gate	Passage	07-May-10	14:03:00	10-May-10	19:21:34	03-05:18:34
54-160	R4	Downstream of "C" Gate	Passage	07-May-10	13:33:00	14-May-10	9:02:00	07-09:02:00
54-164	R4	Downstream of "C" Gate	Passage	07-May-10	13:28:00	14-May-10	15:05:41	07-15:05:41
54-168	R4	Between Units 3 & 5	Passage	07-May-10	10:15:00	11-May-10	12:04:41	04-12:04:41
54-169	R4	Between Units 3 & 5	Passage	07-May-10	10:33:00	14-May-10	3:27:19	07-03:27:19
54-191	R1	Downstream of "C" Gate	Passage	20-Apr-10	10:24:00	08-May-10	16:44:12	18-16:44:12
54-194	R1	Downstream Units 5 & 7	Passage	20-Apr-10	13:09:00	24-Apr-10	2:05:23	04-02:05:23
54-197	R1	Downstream Units 5 & 7	Passage	20-Apr-10	13:29:00	01-May-10	16:07:06	11-16:07:06
54-198	R1	Downstream Units 5 & 7	Passage	20-Apr-10	13:36:00	04-May-10	13:12:38	14-13:12:38
54-199	R1	Downstream Units 5 & 7	Passage	20-Apr-10	13:52:00	06-May-10	0:53:22	16-00:53:22
54-201	R1	Downstream Units 5 & 7	Passage	20-Apr-10	14:08:00	22-Apr-10	5:53:31	02-05:53:31
54-202	R1	Downstream Units 5 & 7	Passage	20-Apr-10	14:12:00	02-May-10	18:14:52	12-18:14:52
54-203	R1	Downstream Units 5 & 7	Passage	20-Apr-10	14:16:00	27-Apr-10	15:52:44	07-15:52:44
54-204	R1	Downstream Units 5 & 7	Passage	20-Apr-10	14:20:00	22-Apr-10	14:58:25	02-14:58:25
54-207	R1	Downstream Units 5 & 7	Passage	20-Apr-10	14:41:00	04-May-10	12:37:08	14-12:37:08
21-132	R3	Lapidum Boat Launch	Passage	28-Apr-10	11:35:00	07-May-10	13:38:18	09-13:38:18
21-158	R6L	Lapidum Boat Launch	Passage	12-May-10	11:40:00	20-May-10	6:16:26	08-06:16:26
21-169	R6L	Lapidum Boat Launch	Passage	12-May-10	11:40:00	20-May-10	3:10:55	08-03:10:55
21-171	R6L	Lapidum Boat Launch	Passage	12-May-10	11:40:00	24-May-10	3:28:35	12-03:28:35
54-159	R6L	Lapidum Boat Launch	Passage	12-May-10	11:40:00	18-May-10	19:23:13	06-19:23:13
54-208	R3	Lapidum Boat Launch	Passage	28-Apr-10	11:35:00	04-May-10	14:02:40	06-14:02:40
54-210	R3	Lapidum Boat Launch	Passage	28-Apr-10	11:35:00	12-May-10	10:22:32	14-10:22:32
21-100	R2	Downstream of "C" Gate	Foray without Passage	22-Apr-10	10:36:00	22-Apr-10	14:00:00	00-14:00:00
21-104	R2	Downstream of "C" Gate	Foray without Passage	22-Apr-10	11:06:00	23-Apr-10	12:29:42	01-12:29:42
21-109	R2	Downstream of "C" Gate	Foray without Passage	22-Apr-10	11:34:00	01-May-10	14:02:03	09-14:02:03
21-115	R2	Downstream Units 5 & 7	Foray without Passage	22-Apr-10	12:10:00	12-May-10	19:18:19	20-19:18:19
21-116	R2	Downstream Units 5 & 7	Foray without Passage	22-Apr-10	12:34:00	26-Apr-10	15:25:04	04-15:25:04
21-120	R2	Downstream Units 5 & 7	Foray without Passage	22-Apr-10	13:10:00	03-May-10	8:05:34	11-08:05:34
21-129	R2	Downstream Units 5 & 7	Foray without Passage	22-Apr-10	13:37:00	24-Apr-10	2:46:24	02-02:46:24
21-141	R5	Between Units 7 & 8	Foray without Passage	10-May-10	11:02:00	14-May-10	20:13:30	04-20:13:30
21-142	R5	Off of "A" Gate discharge	Foray without Passage	10-May-10	11:45:00	12-May-10	6:25:44	02-06:25:44
21-143	R5	Off of "A" Gate discharge	Foray without Passage	10-May-10	12:00:00	12-May-10	10:58:06	02-10:58:06
21-144	R5	Off of "A" Gate discharge	Foray without Passage	10-May-10	12:08:00	12-May-10	11:42:47	02-11:42:47
21-156	R5	Between Units 3 & 5	Foray without Passage	10-May-10	17:30:00	11-May-10	7:35:38	01-07:35:38
54-137	R4	Between Units 3 & 5	Foray without Passage	07-May-10	11:16:00	15-May-10	18:20:15	08-18:20:15
54-149	R4	Downstream of "C" Gate	Foray without Passage	07-May-10	15:20:00	14-May-10	15:52:57	07-15:52:57
54-151	R4	Downstream of "C" Gate	Foray without Passage	07-May-10	16:14:00	12-May-10	15:08:49	05-15:08:49
54-167	R4	Downstream of "C" Gate	Foray without Passage	07-May-10	13:26:00	14-May-10	9:19:20	07-09:19:20
54-200-1	R1	Downstream Units 5 & 7	Foray without Passage	20-Apr-10	13:54:00	26-Apr-10	17:24:16	06-17:24:16
54-200-2	R6T	West Fish Lift Sorting Tank	Foray without Passage	12-May-10	11:00:00	18-May-10	6:12:44	06-06:12:44
21-159	R6L	Lapidum Boat Launch	Foray without Passage	12-May-10	11:40:00	21-May-10	1:08:50	09-01:08:50
54-156	R6L	Lapidum Boat Launch	Foray without Passage	12-May-10	11:40:00	26-May-10	18:17:26	14-18:17:26
54-176	R3	Lapidum Boat Launch	Foray without Passage	28-Apr-10	11:35:00	04-May-10	9:55:47	06-09:55:47
54-178	R3	Lapidum Boat Launch	Foray without Passage	28-Apr-10	11:35:00	05-May-10	17:06:14	07-17:06:14
54-186	R3	Lapidum Boat Launch	Foray without Passage	28-Apr-10	11:35:00	13-May-10	4:45:45	15-04:45:45
54-209	R3	Lapidum Boat Launch	Foray without Passage	28-Apr-10	11:35:00	13-May-10	7:02:35	15-07:02:35
54-211	R3	Lapidum Boat Launch	Foray without Passage	28-Apr-10	11:35:00	13-May-10	16:27:57	15-16:27:57
21-101	R2	Downstream of "C" Gate	Tailrace without Foray	22-Apr-10	10:47:00	07-May-10	9:20:31	15-09:20:31
21-102	R2	Downstream of "C" Gate	Tailrace without Foray	22-Apr-10	10:55:00	22-Apr-10	18:44:24	00-18:44:24
21-105	R2	Downstream of "C" Gate	Tailrace without Foray	22-Apr-10	11:26:00	04-May-10	18:46:21	12-18:46:21

21-110	R2	Downstream of "C" Gate	Tailrace without Foray	22-Apr-10	11:35:00	23-Apr-10	10:02:00	01-10:02:00
21-111	R2	Downstream of "C" Gate	Tailrace without Foray	22-Apr-10	11:38:00	23-Apr-10	10:57:03	01-10:57:03
21-117	R2	Downstream Units 5 & 7	Tailrace without Foray	22-Apr-10	12:37:00	22-May-10	15:07:29	30-15:07:29
21-118	R2	Downstream Units 5 & 7	Tailrace without Foray	22-Apr-10	13:00:00	23-Apr-10	18:50:34	01-18:50:34
21-128	R2	Downstream Units 5 & 7	Tailrace without Foray	22-Apr-10	13:35:00	22-Apr-10	20:10:46	00-20:10:46
21-137	R5	Between Units 7 & 8	Tailrace without Foray	10-May-10	10:29:00	11-May-10	18:55:09	01-18:55:09
21-145	R5	Off of "A" Gate discharge	Tailrace without Foray	10-May-10	12:12:00	13-May-10	3:14:34	03-03:14:34
21-147	R5	Off of "A" Gate discharge	Tailrace without Foray	10-May-10	12:54:00	14-May-10	14:46:43	04-14:46:43
21-151	R5	Between Units 3 & 5	Tailrace without Foray	10-May-10	14:54:00	17-May-10	6:55:41	07-06:55:41
54-141	R4	Downstream of "C" Gate	Tailrace without Foray	07-May-10	12:41:00	07-May-10	18:35:00	00-18:35:00
54-144	R4	Downstream of "C" Gate	Tailrace without Foray	07-May-10	13:10:00	14-May-10	4:50:26	07-04:50:26
54-172	R4	Between Units 3 & 5	Tailrace without Foray	07-May-10	9:28:00	07-May-10	16:29:36	00-16:29:36
54-173	R4	Between Units 3 & 5	Tailrace without Foray	07-May-10	9:34:00	08-May-10	5:59:20	01-05:59:20
54-192	R1	Downstream of "C" Gate	Tailrace without Foray	20-Apr-10	7:53:00	04-May-10	15:07:37	14-15:07:37
54-193	R1	Downstream Units 5 & 7	Tailrace without Foray	20-Apr-10	13:08:00	28-Apr-10	13:56:42	08-13:56:42
54-196-1	R1	Downstream Units 5 & 7	Tailrace without Foray	20-Apr-10	13:24:00	26-Apr-10	3:35:29	06-03:35:29
21-130	R3	Lapidum Boat Launch	Tailrace without Foray	28-Apr-10	11:35:00	05-May-10	12:15:33	07-12:15:33
21-133	R3	Lapidum Boat Launch	Tailrace without Foray	22-Apr-10	11:35:00	28-Apr-10	9:38:00	06-09:38:00
21-160	R6L	Lapidum Boat Launch	Tailrace without Foray	12-May-10	11:40:00	23-May-10	10:55:22	11-10:55:22
54-179	R3	Lapidum Boat Launch	Tailrace without Foray	28-Apr-10	11:35:00	14-May-10	12:04:05	16-12:04:05
54-183	R3	Lapidum Boat Launch	Tailrace without Foray	28-Apr-10	11:35:00	20-May-10	2:34:47	22-02:34:47

**APPENDIX C: GENERATION (CFS) DURING FORAYS INTO EAST FISH LIFT, SPRING  
2010.**

## Appendix C

### Generation (cfs) during forays into EFL, spring 2010.

Initial Foray into EFL Date and Time	Generation Total Discharge (cfs)	Turbine Operating Combination Description	Units Operating	Foray Outcome
6/01/10 11:32:26	5,000	2 & 0	2,5	Unsuccessful
5/03/10 08:11:13	7,500	2 & 0	2,5	Successful
5/03/10 08:21:30	7,500	2 & 0	2,5	Successful
5/06/10 09:27:31	7,500	2 & 0	2,5	Successful
5/08/10 08:31:22	7,500	2 & 0	2,5	Successful
5/08/10 09:21:56	7,500	2 & 0	2,5	Unsuccessful
5/08/10 09:28:41	7,500	2 & 0	2,5	Successful
5/08/10 10:30:03	7,500	2 & 0	2,5	Successful
5/08/10 10:45:22	7,500	2 & 0	2,5	Successful
5/08/10 10:46:35	7,500	2 & 0	2,5	Successful
5/09/10 08:26:12	7,500	2 & 0	2,5	Unsuccessful
5/10/10 13:11:09	7,500	2 & 0	2,5	Unsuccessful
5/11/10 12:20:06	7,500	2 & 0	2,5	Unsuccessful
5/11/10 13:52:40	7,500	2 & 0	2,5	Successful
5/11/10 16:12:34	7,500	2 & 0	2,5	Successful
5/13/10 12:06:37	7,500	2 & 0	2,5	Unsuccessful
5/13/10 15:42:00	7,500	2 & 0	2,5	Unsuccessful
5/18/10 10:14:15	7,500	2 & 0	2,5	Unsuccessful
5/21/10 08:57:34	7,500	2 & 0	2,5	Unsuccessful
5/22/10 08:25:37	7,500	2 & 0	2,5	Unsuccessful
5/22/10 08:54:27	7,500	2 & 0	2,5	Successful
5/23/10 07:22:37	7,500	2 & 0	2,5	Unsuccessful
5/23/10 07:59:50	7,500	2 & 0	2,5	Unsuccessful
5/23/10 08:26:46	7,500	2 & 0	2,5	Unsuccessful
5/24/10 08:01:09	7,500	2 & 0	2,5	Unsuccessful
5/24/10 09:30:53	7,500	2 & 0	2,5	Successful
5/24/10 09:35:33	7,500	2 & 0	2,5	Successful
5/24/10 09:38:18	7,500	2 & 0	2,5	Successful
5/24/10 10:34:45	7,500	2 & 0	2,5	Unsuccessful
5/31/10 08:05:56	7,500	2 & 0	2,5	Unsuccessful
5/31/10 12:20:22	7,500	2 & 0	2,5	Unsuccessful
5/21/10 09:10:50	7,500	2 & 0	2,5	Unsuccessful
4/24/10 15:19:21	10,000	2 & 0	5,7	Unsuccessful
5/12/10 10:13:46	17,210	3 & 0	2,5,7	Successful
5/12/10 10:31:37	17,210	3 & 0	2,5,7	Unsuccessful
5/12/10 10:39:03	17,210	3 & 0	2,5,7	Successful
5/12/10 10:55:18	17,210	3 & 0	2,5,7	Successful
5/12/10 11:14:04	17,210	3 & 0	2,5,7	Unsuccessful
5/12/10 13:08:06	17,210	3 & 0	2,5,7	Successful
5/12/10 13:57:50	17,210	3 & 0	2,5,7	Successful



<b>Initial Foray into EFL Date and Time</b>	<b>Generation Total Discharge (cfs)</b>	<b>Turbine Operating Combination Description</b>	<b>Units Operating</b>	<b>Foray Outcome</b>
5/12/10 14:24:15	17,210	3 & 0	2,5,7	Unsuccessful
5/12/10 15:16:18	17,210	3 & 0	2,5,7	Successful
5/12/10 15:17:10	17,210	3 & 0	2,5,7	Successful
5/12/10 15:41:01	17,210	3 & 0	2,5,7	Successful
5/12/10 16:38:08	17,210	3 & 0	2,5,7	Unsuccessful
5/12/10 17:11:00	17,210	3 & 0	2,5,7	Successful
5/20/10 16:54:03	17,210	3 & 0	2,5,6	Successful
5/20/10 17:46:06	17,210	3 & 0	2,5,6	Unsuccessful
5/19/10 12:40:00	23,080	4 & 0	2,5,6,7	Unsuccessful
5/04/10 08:03:25	23,080	4 & 0	2,5,6,7	Unsuccessful
5/04/10 10:02:40	23,080	4 & 0	2,5,6,7	Unsuccessful
5/04/10 11:43:47	23,080	4 & 0	2,5,6,7	Unsuccessful
5/23/10 14:36:53	32,080	4 & 1	2,5,6,7,8	Successful
5/23/10 14:53:40	32,080	4 & 1	2,5,6,7,8	Successful
5/23/10 15:21:25	32,080	4 & 1	2,5,6,7,8	Unsuccessful
5/28/10 14:05:46	32,080	4 & 1	2,5,6,7,8	Unsuccessful
5/28/10 15:47:39	32,080	4 & 1	2,5,6,7,8	Unsuccessful
5/07/10 11:57:50	32,080	4 & 1	2,5,6,7,8	Successful
5/07/10 12:05:39	32,080	4 & 1	2,5,6,7,8	Successful
5/07/10 13:58:43	32,080	4 & 1	2,5,6,7,8	Unsuccessful
5/14/10 11:16:33	32,280	4 & 1	4,5,6,7,8	Unsuccessful
5/21/10 11:27:50	41,200	4 & 2	2,5,6,7,8,9	Unsuccessful
5/08/10 15:25:06	41,200	4 & 2	2,5,6,7,8,9	Unsuccessful
5/20/10 10:39:21	41,200	4 & 2	2,5,6,7,8,9	Unsuccessful
5/20/10 11:49:03	41,200	4 & 2	2,5,6,7,8,9	Unsuccessful
5/29/10 13:47:42	41,200	4 & 2	2,5,6,7,8,9	Unsuccessful
5/29/10 14:34:23	41,200	4 & 2	2,5,6,7,8,9	Unsuccessful
5/09/10 12:04:17	43,820	6 & 1	2,3,4,5,6,7,8	Unsuccessful
5/15/10 08:42:00	43,820	6 & 1	2,3,4,5,6,7,8	Unsuccessful
5/15/10 11:21:56	43,820	6 & 1	2,3,4,5,6,7,8	Unsuccessful
5/15/10 11:29:20	43,820	6 & 1	2,3,4,5,6,7,8	Successful
5/16/10 15:33:05	43,820	6 & 1	2,3,4,5,6,7,8	Unsuccessful
5/16/10 15:46:54	43,820	6 & 1	2,3,4,5,6,7,8	Unsuccessful
5/17/10 09:54:21	43,820	6 & 1	2,3,4,5,6,7,8	Unsuccessful
4/30/10 09:14:05	50,520	4 & 3	4,5,6,7,8,9,11	Successful
5/22/10 14:27:46	52,940	6 & 2	1,2,3,4,5,6,8,9	Successful
5/26/10 11:41:02	52,940	6 & 2	2,3,4,5,6,7,8,11	Unsuccessful
5/26/10 12:10:53	52,940	6 & 2	2,3,4,5,6,7,8,11	Unsuccessful
5/07/10 15:46:21	62,060	6 & 3	2,3,4,5,6,7,8,9,11	Successful
5/07/10 16:15:34	62,060	6 & 3	2,3,4,5,6,7,8,9,11	Successful
5/07/10 16:42:31	62,060	6 & 3	2,3,4,5,6,7,8,9,11	Successful
5/07/10 17:34:15	62,060	6 & 3	2,3,4,5,6,7,8,9,11	Successful
5/07/10 18:10:22	62,060	6 & 3	2,3,4,5,6,7,8,9,11	Successful
5/25/10 14:35:28	62,060	6 & 3	2,3,4,5,6,7,8,9,11	Unsuccessful

<b>Initial Foray into EFL Date and Time</b>	<b>Generation Total Discharge (cfs)</b>	<b>Turbine Operating Combination Description</b>	<b>Units Operating</b>	<b>Foray Outcome</b>
5/25/10 15:59:33	62,060	6 & 3	2,3,4,5,6,7,8,9,11	Unsuccessful
5/05/10 14:12:25	67,930	7 & 3	1,2,3,4,5,6,7,8,9,11	Successful
5/05/10 15:34:06	67,930	7 & 3	1,2,3,4,5,6,7,8,9,11	Unsuccessful
6/01/10 14:15:39	67,930	7 & 3	1,2,3,4,5,6,7,8,9,11	Unsuccessful
5/01/10 17:21:34	71,180	6 & 4	2,3,4,5,6,7,8,9,10,11	Unsuccessful
5/02/10 17:16:53	71,180	6 & 4	2,3,4,5,6,7,8,9,10,11	Unsuccessful
5/02/10 18:14:09	71,180	6 & 4	2,3,4,5,6,7,8,9,10,11	Unsuccessful
5/02/10 18:18:34	71,180	6 & 4	2,3,4,5,6,7,8,9,10,11	Successful
5/02/10 18:20:00	71,180	6 & 4	2,3,4,5,6,7,8,9,10,11	Unsuccessful
5/17/10 12:39:00	71,180	6 & 4	2,3,4,5,6,7,8,9,10,11	Successful
5/17/10 12:58:15	71,180	6 & 4	2,3,4,5,6,7,8,9,10,11	Unsuccessful
5/17/10 13:17:31	71,180	6 & 4	2,3,4,5,6,7,8,9,10,11	Unsuccessful
5/17/10 15:12:38	71,180	6 & 4	2,3,4,5,6,7,8,9,10,11	Unsuccessful
5/17/10 15:42:06	71,180	6 & 4	2,3,4,5,6,7,8,9,10,11	Unsuccessful
5/17/10 16:40:18	71,180	6 & 4	2,3,4,5,6,7,8,9,10,11	Unsuccessful
5/21/10 14:46:09	85,400	Full House	1,2,3,4,5,6,7,8,9,10,11	Successful
5/21/10 16:45:50	85,400	Full House	1,2,3,4,5,6,7,8,9,10,11	Successful
5/18/10 15:00:06	85,400	Full House	1,2,3,4,5,6,7,8,9,10,11	Unsuccessful

**APPENDIX D: SUCCESSFUL PASSAGE FORAY AND CORRESPONDING OPERATIONAL  
CONDITIONS, SPRING 2010.**







**APPENDIX E: UNSUCCESSFUL PASSAGE FORAY FOR SHAD THAT LATER PASSED AND  
CORRESPONDING OPERATIONAL CONDITIONS, SPRING 2010.**

Appendix E

Unsuccessful passage foray for shad that later passed and corresponding operational conditions, spring 2011

Fish	Number of Unsuccessful Forays	Unsuccessful Forays	Foray Date and Time	Foray Duration hh:mm:ss	Fishlift Operational Conditions											Diffuser Setting				Spillway Attraction Flow Setting							
					Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9	Unit 10	Unit 11	Weir Gate	Weir % Open	Flow Velocity	Crowder Area Gate %	Pond Level ft.	Tailrace Level ft.	A	B	A	B		
54-197	1	Foray 1 Initial Lift Detection	05/01/10 17:21:34	00:37:47	0	1	1	1	1	1	1	1	1	1	1	1	1	C	40%	3.50	30%	107.0	23.4	10	50	14	14
		Foray 1 Last Lift Detection	05/01/10 17:59:21		0	1	1	1	1	1	1	1	1	1	1	1	C	40%	3.50	30%	107.0	23.4	10	50	14	14	
21-135	1	Foray 1 Initial Lift Detection	05/02/10 18:14:09	00:19:34	0	1	1	1	1	1	1	1	1	1	1	1	C	47%	3.50	35%	107.4	23.0	10	50	14	14	
		Foray 1 Last Lift Detection	05/02/10 18:33:43		0	1	1	1	1	1	1	1	1	1	1	1	C	47%	3.50	35%	107.4	23.0	10	50	14	14	
54-202	1	Foray 1 Initial Lift Detection	05/02/10 18:20:00	01:04:28	0	1	1	1	1	1	1	1	1	1	1	1	C	47%	3.50	35%	107.4	23.0	10	50	14	14	
		Foray 1 Last Lift Detection	05/02/10 19:24:28		0	1	1	1	1	1	1	1	1	1	1	1	C	47%	3.50	35%	107.4	23.0	10	50	14	14	
21-121	1	Foray 1 Initial Lift Detection	05/04/10 08:03:25	01:09:45	0	1	0	0	1	0	0	0	0	0	0	0	A	97%	4.40	30%	107.1	20.0	10		14	14	
		Foray 1 Last Lift Detection	05/04/10 09:13:10		0	1	0	0	1	1	1	0	0	0	0	0	A	26%	3.80	30%	107.3	20.0	10		14	14	
21-113	1	Foray 1 Initial Lift Detection	05/09/10 08:26:12	00:08:19	0	1	0	0	1	0	0	0	0	0	0	0	A	95%	5.30	25%	107.0	18.0	10		15	15	
		Foray 1 Last Lift Detection	05/09/10 08:34:31		0	1	0	0	1	0	0	0	0	0	0	0	A	95%	5.30	25%	107.0	18.0	10		15	15	
21-123	2	Foray 1 Initial Lift Detection	05/15/10 11:21:56	01:35:01	0	1	1	1	1	1	1	1	1	0	0	0	C	55%	4.00	20%	107.5	22.0	10	50	14	14	
		Foray 1 Last Lift Detection	05/15/10 12:56:57		0	1	1	1	1	1	1	1	0	0	0	0	C	55%	3.80	20%	107.3	22.0	10	50	14	14	
21-123	2	Foray 2 Initial Lift Detection	05/20/10 17:46:06	00:18:30	0	1	0	0	1	1	0	0	0	0	0	0	A	91%	4.50	30%	107.3	19.0	10		14	14	
		Foray 2 Last Lift Detection	05/20/10 18:04:36		0	1	0	0	1	1	0	0	0	0	0	0	A	91%	4.50	30%	107.3	19.0	10		14	14	
54-142	4	Foray 1 Initial Lift Detection	05/16/10 15:33:05	00:16:12	0	1	1	1	1	1	1	1	0	0	0	0	C	65%	3.90	40%	106.9	21.4	10	50	14	14	
		Foray 1 Last Lift Detection	05/16/10 15:49:17		0	1	1	1	1	1	1	1	0	0	0	0	C	65%	3.90	40%	106.9	21.4	10	50	14	14	
54-142	4	Foray 2 Initial Lift Detection	05/17/10 09:54:21	00:38:00	0	1	1	1	1	1	1	1	0	0	0	0	C	56%	3.70	30%	106.8	22.0	10	50	14	14	
		Foray 2 Last Lift Detection	05/17/10 10:32:21		0	1	1	1	1	1	1	1	0	0	0	0	C	57%	4.20	30%	107.0	22.0	10	50	14	14	
54-142	4	Foray 3 Initial Lift Detection	05/17/10 12:58:15	00:29:57	0	1	1	1	1	1	1	1	1	1	1	1	C	42%	3.50	25%	107.2	23.0	10	50	14	14	
		Foray 3 Last Lift Detection	05/17/10 13:28:12		0	1	1	1	1	1	1	1	1	1	1	1	C	42%	3.50	25%	107.0	23.5	10	50	14	14	
54-142	4	Foray 4 Initial Lift Detection	05/17/10 16:40:18	00:01:27	0	1	1	1	1	1	1	1	1	1	1	1	C	42%	3.50	25%	106.5	23.5	10	50	14	14	
		Foray 4 Last Lift Detection	05/17/10 16:41:45		0	1	1	1	1	1	1	1	1	1	1	1	C	42%	3.50	25%	106.5	23.5	10	50	14	14	
54-169	3	Foray 1 Initial Lift Detection	05/17/10 13:17:31	00:14:50	0	1	1	1	1	1	1	1	1	1	1	1	C	42%	3.50	25%	107.2	23.0	10	50	14	14	
		Foray 1 Last Lift Detection	05/17/10 13:32:21		0	1	1	1	1	1	1	1	1	1	1	1	C	42%	3.50	25%	107.0	23.5	10	50	14	14	
54-169	3	Foray 2 Initial Lift Detection	05/17/10 15:42:06	00:13:12	0	1	1	1	1	1	1	1	1	1	1	1	C	42%	3.50	25%	106.7	23.5	10	50	14	14	
		Foray 2 Last Lift Detection	05/17/10 15:55:18		0	1	1	1	1	1	1	1	1	1	1	1	C	42%	3.50	25%	106.7	23.5	10	50	14	14	
54-169	3	Foray 3 Initial Lift Detection	05/21/10 08:57:34	02:14:29	0	1	0	0	1	0	0	0	0	0	0	0	A	92%	4.90	25%	108.0	19.0	10		14	14	
		Foray 3 Last Lift Detection	05/21/10 11:12:03		0	1	0	0	1	1	1	1	1	1	1	1	C	60%	4.50	30%	108.0	22.0	10	50	14	14	
54-164	3	Foray 1 Initial Lift Detection	05/17/10 15:12:38	00:01:43	0	1	1	1	1	1	1	1	1	1	1	1	C	42%	3.50	25%	106.9	23.5	10	50	14	14	
		Foray 1 Last Lift Detection	05/17/10 15:14:21		0	1	1	1	1	1	1	1	1	1	1	1	C	42%	3.50	25%	106.9	23.5	10	50	14	14	
54-164	3	Foray 2 Initial Lift Detection	05/18/10 15:00:06	00:27:00	1	1	1	1	1	1	1	1	1	1	1	1	C	39%	3.60	30%	107.1	23.5	10	50	14	14	
		Foray 2 Last Lift Detection	05/18/10 15:27:06		1	1	1	1	1	1	1	1	1	1	1	1	C	39%	3.60	30%	107.1	23.5	10	50	14	14	
54-164	3	Foray 3 Initial Lift Detection	05/20/10 10:39:21	00:21:35	0	1	0	0	1	1	1	1	1	0	0	0	C	55%	3.80	26%	107.2	22.0	10	50	14	14	
		Foray 3 Last Lift Detection	05/20/10 11:00:56		0	1	0	0	1	1	1	1	1	0	0	0	C	55%	3.70	26%	107.2	22.0	10	50	14	14	
54-159	1	Foray 1 Initial Lift Detection	05/23/10 07:59:50	00:07:59	0	1	0	0	1	0	0	0	0	0	0	0	A	100%	5.70	20%	107.3	18.3	10		14	14	
		Foray 1 Last Lift Detection	05/23/10 08:07:49		0	1	0	0	1	0	0	0	0	0	0	0	A	100%	5.70	20%	107.3	18.3	10		14	14	
21-171	1	Foray 1 Initial Lift Detection	5/24/2010 8:01:09	00:05:26	0	1	0	0	1	0	0	0	0	0	0	0	A	100%	5.60	20%	108.0	18.5	10		18	18	
		Foray 1 Last Lift Detection	5/24/2010 8:06:35		0	1	0	0	1	0	0	0	0	0	0	0	A	100%	5.60	20%	108.0	18.5	10		18	18	

**APPENDIX F: UNSUCCESSFUL PASSAGE FORAY FOR SHAD THAT NEVER PASSED AND  
CORRESPONDING OPERATIONAL CONDITIONS, SPRING 2010.**

Appendix E  
 Unsuccessful passage foray for shad that never passed and corresponding operational conditions, spring 2010.

Fisht	Number of Unsuccessful Forays	Foray Unsuccessful Forays	Foray Date and Time	Foray Duration hh:mm:ss	Generational Conditions											Fishlift Operational Conditions				Diffuser Setting		Spillway Attraction Flow Setting		If Only a Single Foray Into Fishlift. Was it ever again detected on Fishlift Aerial Gate Antenna?			
					Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9	Unit 10	Unit 11	Weir Gate	Weir % Open	Flow Velocity	Crowder Area Gate %	Pond Level ft.	Tailrace Level ft.	A	B		A	B	
21-104	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	04/24/10 15:19:21 04/24/10 15:19:42	00:00:21	0	0	0	0	1	0	0	0	0	0	0	0	A	85%	3.90	30%	106.7	19.0	10	50	14	14	No
54-200-1	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/02/10 17:16:53 05/02/10 17:29:23	00:12:30	0	1	1	1	1	1	1	1	1	1	1	C	47%	3.50	35%	107.4	23.0	10	50	14	14	No - died in Exit Trough	
54-176	2	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/04/10 10:02:40 05/04/10 10:22:15	00:19:35	0	1	0	0	1	1	1	0	0	0	0	A	26%	4.40	30%	107.4	20.0	10	50	14	14	Not Applicable	
54-176	2	Foray 2 Initial Lift Detection Foray 2 Last Lift Detection	05/14/10 11:16:33 05/14/10 11:30:32	00:13:59	0	0	0	1	1	1	1	1	0	0	0	C	73%	2.90	30%	105.4	23.5	10	50	14	14	NA	
21-100	1	Foray 1 Initial Lift Detection Foray 2 Last Lift Detection	05/04/10 11:43:47 05/04/10 13:13:21	01:35:19	0	1	0	0	1	1	1	0	0	0	0	A	26%	4.00	30%	107.8	20.2	10	50	14	14	No	
21-120	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/05/10 15:34:06 05/05/10 15:36:32	00:02:26	1	1	1	1	1	1	1	1	1	0	0	C	48%	3.40	35%	107.8	23.0	10	50	14	14	No	
21-116	3	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/07/10 13:58:43 05/07/10 14:19:54	00:21:11	0	1	0	0	1	1	1	1	0	0	0	C	65%	4.40	30%	107.7	21.0	10	50	14	14	Not Applicable	
21-116	3	Foray 2 Initial Lift Detection Foray 2 Last Lift Detection	05/10/10 13:11:09 05/10/10 13:13:21	00:02:12	0	1	0	0	1	1	1	0	0	0	0	A	74%	3.90	30%	106.5	20.0	10	50	14	14	NA	
21-116	3	Foray 3 Initial Lift Detection Foray 3 Last Lift Detection	05/12/10 10:31:37 05/12/10 10:35:47	00:04:10	0	1	0	0	1	0	1	0	0	0	0	A	80%	4.00	30%	106.4	19.5	10	50	14	14	NA	
54-178	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/08/10 09:21:56 05/08/10 09:41:58	00:20:02	0	1	0	0	1	0	0	0	0	0	0	A	86%	4.40	30%	106.9	19.0	10	50	14	14	No	
21-109	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/08/10 15:25:06 05/08/10 15:40:21	00:15:25	0	1	0	0	1	1	1	1	0	0	0	C	50%	4.00	30%	107.9	22.0	10	50	14	14	Yes, multiple times 5/9 thru 5/10 - initial return	
21-129	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/09/10 12:04:17 05/09/10 13:32:03	01:27:46	0	1	1	1	1	1	1	1	0	0	0	C	60%	3.80	35%	107.5	21.5	10	50	15	15	05/09/10 06:37	
21-156	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/11/10 12:20:06 05/11/10 12:29:03	00:08:57	0	1	0	0	1	0	0	0	0	0	0	A	82%	4.40	30%	107.0	19.0	10	50	14	14	No	
21-143	2	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/12/10 11:14:04 05/12/10 11:23:17	00:09:13	0	1	0	0	1	0	1	0	0	0	0	A	80%	4.00	30%	106.6	19.5	10	50	14	14	Not Applicable	
21-143	2	Foray 2 Initial Lift Detection Foray 2 Last Lift Detection	05/19/10 12:40:00 05/19/10 12:40:27	00:00:27	0	1	0	0	1	1	1	0	0	0	0	A	83%	4.40	30%	106.4	19.6	10	50	14	14	NA	
21-144	3	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/12/10 14:24:15 05/12/10 14:52:22	00:28:07	0	1	0	0	1	0	1	0	0	0	0	A	80%	4.50	30%	107.3	19.3	10	50	14	14	Not Applicable	
21-144	3	Foray 2 Initial Lift Detection Foray 2 Last Lift Detection	05/12/10 16:38:08 05/12/10 16:54:42	00:16:34	0	1	0	0	1	0	1	0	0	0	0	A	87%	5.00	30%	107.9	19.3	10	50	14	14	NA	
21-144	3	Foray 3 Initial Lift Detection Foray 3 Last Lift Detection	05/18/10 10:14:15 05/18/10 10:57:43	00:43:28	0	1	0	0	1	0	0	0	0	0	0	A	88%	4.10	30%	106.7	19.0	10	50	14	14	NA	
21-142	3	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/13/10 12:06:37 05/13/10 12:28:06	00:21:29	0	1	0	0	1	0	0	0	0	0	0	A	90%	4.70	30%	106.5	19.0	10	50	14	14	Not Applicable	
21-142	3	Foray 2 Initial Lift Detection Foray 2 Last Lift Detection	05/25/10 15:59:33 05/25/10 16:11:55	00:12:22	0	1	1	1	1	1	1	1	0	0	0	C	55%	4.80	35%	108.7	23.0	10	50	14	14	NA	
21-142	3	Foray 3 Initial Lift Detection Foray 3 Last Lift Detection	05/31/10 12:20:22 05/31/10 12:32:55	00:12:33	0	1	0	0	1	0	0	0	0	0	0	A	100%	5.10	20%	107.7	17.8	10	50	14	14	NA	
54-209	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/13/10 15:42:00 05/13/10 15:42:05	00:00:05	0	1	0	0	1	0	0	0	0	0	0	A	94%	4.90	30%	107.8	19.0	10	50	14	14	No	
21-115	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/15/10 08:42:00 05/15/10 13:03:43	04:21:43	0	1	1	1	1	1	1	1	0	0	0	C	60%	3.80	25%	107.3	21.5	10	50	14	14	No	
54-151	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/16/10 15:46:54 05/16/10 16:14:09	00:27:15	0	1	1	1	1	1	1	1	0	0	0	C	65%	3.90	40%	106.9	21.4	10	50	14	14	Yes, multiple times 5/17 thru 5/19 - initial return	
21-141	2	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/20/10 11:49:03 05/20/10 12:23:50	00:34:47	0	1	0	0	1	1	1	1	0	0	0	C	55%	3.70	26%	107.2	22.0	10	50	14	14	Not Applicable	
21-141	2	Foray 2 Initial Lift Detection Foray 2 Last Lift Detection	05/23/10 08:28:46 05/23/10 08:27:15	00:00:29	0	1	0	0	1	0	0	0	0	0	0	A	100%	5.70	20%	107.3	18.3	10	50	14	14	NA	
54-137	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/21/10 09:10:50 05/21/10 12:00:40	02:49:50	0	1	0	0	1	0	0	0	0	0	0	A	92%	4.90	25%	108.0	19.0	10	50	14	14	Yes, once. Initial return	
54-200-2	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/21/10 11:27:50 05/21/10 11:36:00	00:08:10	0	1	0	0	1	1	1	1	0	0	0	C	60%	4.50	30%	108.0	22.0	10	50	14	14	No	
54-211	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/22/10 08:25:37 05/22/10 08:25:42	00:00:05	0	1	0	0	1	0	0	0	0	0	0	A	92%	4.80	24%	106.6	21.0	10	50	14	14	No	
54-167	9	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/23/10 07:22:37 05/23/10 08:09:13	00:46:36	0	1	0	0	1	0	0	0	0	0	0	A	100%	5.70	20%	107.3	18.3	10	50	14	14	Not Applicable	
54-167	9	Foray 2 Initial Lift Detection Foray 2 Last Lift Detection	05/23/10 15:21:25 05/23/10 15:41:31	00:20:06	0	1	0	0	1	1	1	1	0	0	0	C	70%	4.40	35%	107.4	21.1	10	50	14	14	NA	
54-167	9	Foray 3 Initial Lift Detection Foray 3 Last Lift Detection	05/25/10 14:35:28 05/25/10 14:46:53	00:11:25	0	1	1	1	1	1	1	1	0	0	0	C	55%	4.40	35%	108.8	22.9	10	50	14	14	NA	
54-167	9	Foray 4 Initial Lift Detection Foray 4 Last Lift Detection	05/28/10 14:05:46 05/28/10 14:14:09	00:08:23	0	1	0	0	1	1	1	1	0	0	0	C	80%	5.10	30%	108.0	20.8	10	50	18	18	NA	
54-167	9	Foray 5 Initial Lift Detection Foray 5 Last Lift Detection	05/28/10 15:47:39 05/28/10 16:15:37	00:27:58	0	1	0	0	1	1	1	1	0	0	0	C	80%	5.00	30%	108.2	20.8	10	50	18	18	NA	
54-167	9	Foray 6 Initial Lift Detection Foray 6 Last Lift Detection	05/29/10 13:47:42 05/29/10 14:03:48	00:16:06	0	1	0	0	1	1	1	1	0	0	0	C	80%	4.10	30%	108.8	20.5	10	50	14	14	NA	
54-167	9	Foray 7 Initial Lift Detection Foray 7 Last Lift Detection	05/31/10 08:05:56 05/31/10 08:09:06	00:03:10	0	1	0	0	1	0	0	0	0	0	0	A	100%	5.20	20%	107.4	17.8	10	50	14	14	NA	
54-167	9	Foray 8 Initial Lift Detection Foray 8 Last Lift Detection	06/01/10 11:32:26 06/01/10 11:35:12	00:02:46	0	1	0	0	1	0	0	0	0	0	0	A	100%	4.90	20%	107.8	17.8	10	50	14	14	NA	
54-167	9	Foray 9 Initial Lift Detection Foray 9 Last Lift Detection	06/01/10 14:15:39 06/01/10 14:18:53	00:03:14	0	1	1	0	1	1	1	1	0	0	0	C	45%	4.00	33%	108.0	22.7	10	50	14	14	NA	
54-186	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/24/10 10:34:45 05/24/10 11:00:45	00:26:00	0	1	0	0	1	0	0	0	0	0	0	A	100%	5.60	20%	108.0	18.5	10	50	18	18	No	
21-159	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/26/10 11:41:02 05/26/10 12:10:54	00:19:52	0	1	0	0	1	1	1	1	0	0	0	C	65%	4.50	30%	107.9	19.0	10	50	14	14	Yes, multiple times 5/26 thru 5/29 - initial return	
54-149	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/26/10 12:10:53 05/26/10 14:24:11	02:13:18	0	1	1	1	1	1	1	1	0	0	0	C	55%	4.60	32%	107.6	21.0	10	50	14	14	No	
54-156	1	Foray 1 Initial Lift Detection Foray 1 Last Lift Detection	05/29/10 14:34:23 05/29/10 15:18:26	00:44:03	0	1	0	0	1	1	1	1	0	0	0	C	80%	4.10	30%	108.8	20.5	10	50	14	14	No	

**APPENDIX G: RADIO TAGGED SHAD PRESENCE ON NON-TAILRACE MONITORS BY  
MOVEMENT CLASSIFICATIONS, SPRING 2010.**



**Appendix G**

**Post passage re-entry dates and times into Conowingo Tailrace, spring 2010.**

Fish	Release		Movement Classification	Re-entry into Conowingo tailrace			
	Group	Location		Unit	Comment	Date	Time
54-191	R1	Downstream of "C" Gate	Passage Shad	None	Remained upstream of Conowingo	NA	NA
54-194	R1	Downstream Units 5 & 7	Passage Shad	Unit 5	Confirmed	02-Jun-10	17:00:39
54-197	R1	Downstream Units 5 & 7	Passage Shad	None	Remained upstream of Conowingo	NA	NA
54-198	R1	Downstream Units 5 & 7	Passage Shad	Unit 9	Confirmed	30-May-10	16:49:23
54-199	R1	Downstream Units 5 & 7	Passage Shad	Unit 7	Confirmed	23-May-10	11:11:27
54-201	R1	Downstream Units 5 & 7	Passage Shad	Unit 3	Confirmed	05-May-10	12:48:06
54-202	R1	Downstream Units 5 & 7	Passage Shad	Unit 8	Confirmed	06-Jun-10	15:00:19
54-203	R1	Downstream Units 5 & 7	Passage Shad	Unit 1-3	Confirmed	24-May-10	21:13:11
54-204	R1	Downstream Units 5 & 7	Passage Shad	None	Remained upstream of Conowingo	NA	NA
54-207	R1	Downstream Units 5 & 7	Passage Shad	Unit 1	Confirmed	01-Jun-10	13:29:10
21-112	R2	Downstream of "C" Gate	Passage Shad	Unit 5 or 7	Confirmed	02-Jun-10	19:24:23
21-113	R2	Downstream of "C" Gate	Passage Shad	Unknown	Missed tailrace re-entry/detected downstream	31-May-10	Unknown
21-114	R2	Downstream of "C" Gate	Passage Shad	Unit 9	Confirmed	28-May-10	15:53:47
21-119	R2	Downstream Units 5 & 7	Passage Shad	None	Remained upstream of Conowingo	NA	NA
21-121	R2	Downstream Units 5 & 7	Passage Shad	Unit 8	Confirmed	12-May-10	20:58:13
21-122	R2	Downstream Units 5 & 7	Passage Shad	Unit 7	Confirmed	31-May-10	15:50:26
21-123	R2	Downstream Units 5 & 7	Passage Shad	Unit 2 or 3	Confirmed	03-Jun-10	8:13:58
21-124	R2	Downstream Units 5 & 7	Passage Shad	Unit 5	Confirmed	02-Jun-10	12:25:02
21-127	R2	Downstream Units 5 & 7	Passage Shad	Unit 5 or 7	Confirmed	26-May-10	18:24:29
21-135	R2	Downstream Units 5 & 7	Passage Shad	Unit 3 or 4	Confirmed	28-May-10	15:57:29
21-132	R3	Lapidum Boat Launch	Passage Shad	Unit 5	Confirmed	23-May-10	9:32:55
54-208	R3	Lapidum Boat Launch	Passage Shad	Unit 5	Confirmed	11-May-10	20:25:14
54-210	R3	Lapidum Boat Launch	Passage Shad	None	Remained upstream of Conowingo	NA	NA
54-138	R4	Downstream of "C" Gate	Passage Shad	None	Remained upstream of Conowingo	NA	NA
54-140	R4	Downstream of "C" Gate	Passage Shad	None	Remained upstream of Conowingo	NA	NA
54-142	R4	Downstream of "C" Gate	Passage Shad	None	Remained upstream of Conowingo	NA	NA
54-158	R4	Downstream of "C" Gate	Passage Shad	None	Remained upstream of Conowingo	NA	NA
54-160	R4	Downstream of "C" Gate	Passage Shad	None	Remained upstream of Conowingo	NA	NA
54-164	R4	Downstream of "C" Gate	Passage Shad	None	Remained upstream of Conowingo	NA	NA
54-168	R4	Between Units 3 & 5	Passage Shad	Unit 5	Confirmed	01-Jun-10	15:09:35
54-169	R4	Between Units 3 & 5	Passage Shad	None	Remained upstream of Conowingo	NA	NA
21-146	R5	Off of "A" Gate discharge	Passage Shad	None	Remained upstream of Conowingo	NA	NA
21-149	R5	Off of "A" Gate discharge	Passage Shad	Unit 7	Confirmed	19-Jun-10	18:12:37
21-154	R5	Between Units 3 & 5	Passage Shad	None	Remained upstream of Conowingo	NA	NA
21-170	R5	Between Units 3 & 5	Passage Shad	Unit 7	Confirmed	11-Jun-10	19:14:19
21-174	R5	Between Units 7 & 8	Passage Shad	Unit 4 or 5	Confirmed	03-Jun-10	12:00:14
21-158	R6L	Lapidum Boat Launch	Passage Shad	None	Remained upstream of Conowingo	NA	NA
21-169	R6L	Lapidum Boat Launch	Passage Shad	None	Remained upstream of Conowingo	NA	NA
21-171	R6L	Lapidum Boat Launch	Passage Shad	Unit 2 or 5	Confirmed	28-May-10	9:14:54
54-159	R6L	Lapidum Boat Launch	Passage Shad	None	Remained upstream of Conowingo	NA	NA

**APPENDIX H: DOWNSTREAM MOVEMENT OF TAILRACE FISH WITHOUT EAST FISH  
LIFT FORAYS, SPRING 2010.**

## Appendix H

### Downstream movement of tailrace fish without EFL forays, spring 2010.

Fish	Start Date	Start Time	Location	Travel Time	Downstream foray
21-101	22-Apr-10	1:07:52 PM	Conowingo Tailrace Unit 3 (Mid-Field)		Initial
21-101	22-Apr-10	1:49:02 PM	Rowland Island West (Near-Field)	00-00:41:10	Tailrace to Rowland
21-101	22-Apr-10	6:22:20 PM	Rowland Island West (Near-Field)		Initial
21-101	22-Apr-10	8:01:31 PM	Spencer Island West (Near-Field)	00-01:39:11	Rowland to Spencer
21-101	7-May-10	4:55:17 PM	Conowingo Tailrace Units 1-7 Master		
21-101	7-May-10	5:12:13 PM	Rowland Island West (Near-Field)	00-00:16:56	Tailrace to Rowland
21-101	7-May-10	7:15:50 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-101	8-May-10	7:21:21 AM	Rowland Island West (Near-Field)	00-12:03:01	Tailrace to Rowland
21-101	10-May-10	5:15:47 PM	Rowland Island West (Near-Field)		
21-101	10-May-10	9:48:34 PM	Spencer Island West (Near-Field)	00-04:25:17	Rowland to Spencer
21-101	20-May-10	8:09:42 AM	Conowingo Tailrace Unit 1 (Mid-Field)		
21-101	24-Jun-10	4:56:16 PM	Lapidum (West Shore) (Near-Field)	04-08:46:34	Tailrace to Lapidum
21-102	22-Apr-10	12:25:52 PM	Conowingo Tailrace Unit 5 (Mid-Field)		Initial
21-102	22-Apr-10	2:09:44 PM	Rowland Island West (Near-Field)	00-01:43:52	Tailrace to Rowland
21-102	22-Apr-10	10:53:38 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-102	22-Apr-10	11:00:04 PM	Rowland Island West (Near-Field)	00-00:06:26	Tailrace to Rowland
21-102	22-Apr-10	11:11:28 PM	Conowingo Tailrace Unit 3 (Mid-Field)		
21-102	22-Apr-10	11:12:47 PM	Rowland Island West (Near-Field)	00-00:01:19	Tailrace to Rowland
21-102	23-Apr-10	12:00:50 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-102	23-Apr-10	12:12:00 AM	Rowland Island West (Near-Field)	00-00:10:41	Tailrace to Rowland
21-102	23-Apr-10	12:15:06 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-102	23-Apr-10	12:17:38 AM	Rowland Island West (Near-Field)	00-00:02:32	Tailrace to Rowland
21-102	23-Apr-10	1:12:53 AM	Conowingo Tailrace Unit 3 (Mid-Field)		
21-102	23-Apr-10	1:15:22 AM	Rowland Island West (Near-Field)	00-00:02:29	Tailrace to Rowland
21-102	23-Apr-10	1:16:36 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-102	23-Apr-10	1:17:40 AM	Rowland Island West (Near-Field)	00-00:01:04	Tailrace to Rowland
21-102	23-Apr-10	1:26:49 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-102	23-Apr-10	1:36:19 AM	Rowland Island West (Near-Field)	00-00:09:30	Tailrace to Rowland
21-102	23-Apr-10	1:53:33 AM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-102	23-Apr-10	1:55:06 AM	Rowland Island West (Near-Field)	00-00:01:33	Tailrace to Rowland
21-102	23-Apr-10	2:36:11 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-102	23-Apr-10	2:43:09 AM	Rowland Island West (Near-Field)	00-00:04:39	Tailrace to Rowland
21-102	23-Apr-10	3:07:45 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-102	23-Apr-10	3:11:58 AM	Rowland Island West (Near-Field)	00-00:04:13	Tailrace to Rowland
21-102	23-Apr-10	6:41:49 AM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-102	23-Apr-10	7:08:17 AM	Rowland Island West (Near-Field)	00-00:26:28	Tailrace to Rowland
21-102	26-Apr-10	7:10:39 PM	Conowingo Tailrace Unit 7 (Mid-Field)		

Fish	Start Date	Start Time	Location	Travel Time	Downstream foray
21-102	26-Apr-10	7:34:22 PM	Rowland Island West (Near-Field)	00-00:23:43	Tailrace to Rowland
21-102	27-Apr-10	6:08:25 AM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-102	27-Apr-10	6:16:00 AM	Rowland Island West (Near-Field)	00-00:07:35	Tailrace to Rowland
21-102	27-Apr-10	3:59:20 PM	Conowingo Tailrace Unit 8 (Mid-Field)		
21-102	27-Apr-10	4:30:17 PM	Rowland Island West (Near-Field)	00-00:30:57	Tailrace to Rowland
21-102	27-Apr-10	6:30:22 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-102	27-Apr-10	11:07:27 PM	Rowland Island East (Near-Field)	00-04:37:05	Tailrace to Rowland
21-102	30-Apr-10	4:37:54 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-102	30-Apr-10	5:20:32 PM	Rowland Island West (Near-Field)	00-00:42:38	Tailrace to Rowland
21-102	3-May-10	6:50:30 PM	Rowland Island West (Near-Field)		Initial
21-102	3-May-10	8:53:02 PM	Lapidum (West Shore) (Near-Field)	00-02:02:06	Rowland to Lapidum
21-105	22-Apr-10	4:52:48 PM	Conowingo Tailrace Unit 5 (Mid-Field)		Initial
21-105	22-Apr-10	5:26:12 PM	Rowland Island West (Near-Field)	00-00:33:24	Tailrace to Rowland
21-105	22-Apr-10	7:37:25 PM	Rowland Island West (Near-Field)		Initial
21-105	22-Apr-10	9:05:19 PM	Spencer Island West (Near-Field)	00-01:27:54	Rowland to Spencer
21-105	30-Apr-10	4:52:42 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-105	30-Apr-10	5:05:15 PM	Rowland Island West (Near-Field)	00-00:12:33	Tailrace to Rowland
21-105	30-Apr-10	5:05:15 PM	Rowland Island West (Near-Field)		
21-105	30-Apr-10	8:14:27 PM	Spencer Island West (Near-Field)	00-03:09:12	Rowland to Spencer
21-105	4-May-10	7:25:39 PM	Conowingo Tailrace Unit 1 (Mid-Field)		
21-105	4-May-10	7:47:21 PM	Rowland Island West (Near-Field)	00-00:21:42	Tailrace to Rowland
21-105	4-May-10	7:47:21 PM	Rowland Island West (Near-Field)		
21-105	5-May-10	5:41:09 AM	Lapidum (West Shore) (Near-Field)	00-09:53:21	Rowland to Lapidum
21-105	5-May-10	5:53:49 PM	Conowingo Tailrace Unit 9 (Mid-Field)		
21-105	5-May-10	6:14:58 PM	Rowland Island West (Near-Field)	00-00:21:09	Tailrace to Rowland
21-105	6-May-10	6:32:39 PM	Conowingo Tailrace Unit 8 (Mid-Field)		
21-105	6-May-10	6:44:47 PM	Rowland Island West (Near-Field)	00-00:12:08	Tailrace to Rowland
21-105	7-May-10	6:47:21 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-105	7-May-10	7:06:01 AM	Rowland Island West (Near-Field)	00-00:16:03	Tailrace to Rowland
21-105	7-May-10	9:38:03 AM	Conowingo Tailrace Unit 8 (Mid-Field)		
21-105	7-May-10	10:09:05 AM	Rowland Island East (Near-Field)	00-00:31:02	Tailrace to Rowland
21-105	7-May-10	5:13:39 PM	Conowingo Tailrace Unit 3 (Mid-Field)		
21-105	7-May-10	8:57:36 PM	Spencer Island West (Near-Field)	00-03:43:57	Tailrace to Spencer
21-110	22-Apr-10	1:24:42 PM	Conowingo Tailrace Unit 7 (Mid-Field)		Initial
21-110	22-Apr-10	2:07:21 PM	Rowland Island West (Near-Field)	00-00:39:35	Tailrace to Rowland
21-110	23-Apr-10	12:14:55 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-110	23-Apr-10	12:35:08 PM	Rowland Island West (Near-Field)	00-00:17:54	Tailrace to Rowland
21-110	23-Apr-10	5:31:53 PM	Conowingo Tailrace Unit 9 (Mid-Field)		
21-110	23-Apr-10	5:58:54 PM	Rowland Island West (Near-Field)	00-00:27:01	Tailrace to Rowland
21-110	23-Apr-10	6:18:42 PM	Rowland Island West (Near-Field)		

Fish	Start Date	Start Time	Location	Travel Time	Downstream foray
21-110	23-Apr-10	7:40:40 PM	Spencer Island West (Near-Field)	00-01:21:58	Rowland to Spencer
21-110	30-Apr-10	5:24:19 AM	Conowingo Tailrace Unit 3 (Mid-Field)		
21-110	3-May-10	1:34:36 AM	Lapidum (West Shore) (Near-Field)	02-20:10:17	Tailrace to Lapidum
21-111	22-Apr-10	2:22:13 PM	Conowingo Tailrace Unit 5 (Mid-Field)		Initial
21-111	22-Apr-10	6:31:09 PM	Rowland Island West (Near-Field)	00-04:08:56	Tailrace to Rowland
21-111	23-Apr-10	7:21:57 PM	Conowingo Tailrace Unit 8 (Mid-Field)		
21-111	23-Apr-10	7:50:41 PM	Rowland Island West (Near-Field)	00-00:28:44	Tailrace to Rowland
21-111	24-Apr-10	8:17:57 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-111	24-Apr-10	8:49:53 PM	Rowland Island West (Near-Field)	00-00:31:00	Tailrace to Rowland
21-111	25-Apr-10	6:53:11 PM	Conowingo Tailrace Unit 3 (Mid-Field)		
21-111	25-Apr-10	7:16:35 PM	Rowland Island West (Near-Field)	00-00:23:24	Tailrace to Rowland
21-111	26-Apr-10	4:29:19 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-111	27-Apr-10	4:07:02 AM	Rowland Island West (Near-Field)	00-11:37:43	Tailrace to Rowland
21-111	27-Apr-10	7:04:26 PM	Conowingo Tailrace Unit 3 (Mid-Field)		
21-111	27-Apr-10	7:13:36 PM	Rowland Island West (Near-Field)	00-00:09:10	Tailrace to Rowland
21-111	28-Apr-10	8:43:13 AM	Conowingo Tailrace Unit 3 (Mid-Field)		
21-111	28-Apr-10	10:11:33 AM	Rowland Island West (Near-Field)	00-01:28:20	Tailrace to Rowland
21-111	29-Apr-10	5:22:02 PM	Conowingo Tailrace Unit 3 (Mid-Field)		Initial
21-111	29-Apr-10	6:58:33 PM	Spencer Island West (Near-Field)	00-01:35:29	Tailrace to Spencer
21-111	5-May-10	8:10:39 PM	Conowingo Tailrace Unit 3 (Mid-Field)		
21-111	5-May-10	8:23:46 PM	Rowland Island West (Near-Field)	00-00:12:00	Tailrace to Rowland
21-111	6-May-10	6:42:11 PM	Conowingo Tailrace Unit 8 (Mid-Field)		
21-111	6-May-10	6:50:12 PM	Rowland Island West (Near-Field)	00-00:08:01	Tailrace to Rowland
21-111	6-May-10	6:51:53 PM	Rowland Island West (Near-Field)		
21-111	6-May-10	7:52:29 PM	Spencer Island West (Near-Field)	00-01:00:10	Rowland to Spencer
21-111	7-May-10	7:38:01 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-111	7-May-10	7:44:57 PM	Rowland Island West (Near-Field)	00-00:06:56	Tailrace to Rowland
21-111	8-May-10	5:37:17 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-111	8-May-10	5:53:55 PM	Rowland Island West (Near-Field)	00-00:14:19	Tailrace to Rowland
21-111	8-May-10	6:59:26 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-111	8-May-10	7:13:37 PM	Rowland Island West (Near-Field)	00-00:14:11	Tailrace to Rowland
21-111	8-May-10	7:18:04 PM	Rowland Island West (Near-Field)		
21-111	8-May-10	8:49:00 PM	Spencer Island West (Near-Field)	00-01:25:51	Rowland to Spencer
21-111	9-May-10	5:41:04 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-111	9-May-10	5:55:39 PM	Rowland Island West (Near-Field)	00-00:11:37	Tailrace to Rowland
21-111	9-May-10	6:53:01 PM	Rowland Island West (Near-Field)		
21-111	9-May-10	8:48:20 PM	Spencer Island West (Near-Field)	00-01:55:19	Rowland to Spencer
21-111	10-May-10	8:00:42 PM	Conowingo Tailrace Unit 9 (Mid-Field)		
21-111	10-May-10	8:21:35 PM	Rowland Island West (Near-Field)	00-00:20:53	Tailrace to Rowland
21-111	11-May-10	12:11:26 PM	Conowingo Tailrace Unit 3 (Mid-Field)		



Fish	Start Date	Start Time	Location	Travel Time	Downstream foray
21-111	11-May-10	12:56:06 PM	Rowland Island West (Near-Field)	00-00:44:40	Tailrace to Rowland
21-111	11-May-10	7:20:45 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-111	12-May-10	2:35:31 AM	Rowland Island West (Near-Field)	00-07:14:46	Tailrace to Rowland
21-111	12-May-10	1:16:54 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-111	12-May-10	1:40:14 PM	Rowland Island West (Near-Field)	00-00:19:47	Tailrace to Rowland
21-111	12-May-10	1:52:12 PM	Rowland Island West (Near-Field)		
21-111	12-May-10	3:49:31 PM	Spencer Island West (Near-Field)	00-01:54:09	Rowland to Spencer
21-111	14-May-10	6:08:13 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-111	15-May-10	1:33:19 AM	Rowland Island West (Near-Field)	00-07:25:06	Tailrace to Rowland
21-111	15-May-10	6:41:51 PM	Conowingo Tailrace Unit 10 (Mid-Field)		
21-111	15-May-10	6:51:15 PM	Rowland Island West (Near-Field)	00-00:09:24	Tailrace to Rowland
21-111	16-May-10	6:51:14 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-111	17-May-10	12:59:30 AM	Spencer Island West (Near-Field)	00-06:08:16	Tailrace to Spencer
21-111	17-May-10	6:14:15 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-111	17-May-10	8:00:21 PM	Spencer Island West (Near-Field)	00-01:46:06	Tailrace to Spencer
21-111	19-May-10	6:18:03 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-111	20-May-10	4:48:03 AM	Rowland Island West (Near-Field)	00-10:29:02	Tailrace to Rowland
21-111	20-May-10	11:44:53 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-111	20-May-10	12:01:28 PM	Rowland Island West (Near-Field)	00-00:16:35	Tailrace to Rowland
21-111	20-May-10	12:01:28 PM	Rowland Island West (Near-Field)		
21-111	20-May-10	2:39:41 PM	Spencer Island West (Near-Field)	00-02:31:01	Rowland to Spencer
21-117	22-Apr-10	1:19:08 PM	Conowingo Tailrace Unit 8 (Mid-Field)		Initial
21-117	22-Apr-10	2:10:42 PM	Rowland Island West (Near-Field)	00-00:47:12	Tailrace to Rowland
21-117	22-Apr-10	5:57:32 PM	Rowland Island West (Near-Field)		Initial
21-117	23-Apr-10	6:27:38 AM	Spencer Island East (Near-Field)	00-12:30:06	Rowland to Spencer
21-117	7-May-10	6:05:33 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-117	11-May-10	1:03:32 PM	Lapidum (West Shore) (Near-Field)	03-18:57:59	Tailrace to Lapidum
21-118	22-Apr-10	7:35:13 PM	Conowingo Tailrace Unit 7 (Mid-Field)		Initial
21-118	22-Apr-10	7:44:09 PM	Rowland Island West (Near-Field)	00-00:06:30	Tailrace to Rowland
21-118	23-Apr-10	7:59:49 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-118	24-Apr-10	5:17:13 AM	Rowland Island West (Near-Field)	00-09:17:24	Tailrace to Rowland
21-118	24-Apr-10	12:58:34 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-118	24-Apr-10	1:08:08 PM	Rowland Island West (Near-Field)	00-00:09:34	Tailrace to Rowland
21-118	24-Apr-10	8:25:20 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-118	24-Apr-10	8:28:10 PM	Rowland Island West (Near-Field)	00-00:02:50	Tailrace to Rowland
21-118	25-Apr-10	9:59:08 AM	Conowingo Tailrace Unit 3 (Mid-Field)		
21-118	25-Apr-10	10:03:26 AM	Rowland Island West (Near-Field)	00-00:04:18	Tailrace to Rowland
21-118	25-Apr-10	8:02:55 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-118	25-Apr-10	8:17:07 PM	Rowland Island East (Near-Field)	00-00:12:21	Tailrace to Rowland
21-118	26-Apr-10	6:46:40 PM	Conowingo Tailrace Unit 7 (Mid-Field)		

Fish	Start Date	Start Time	Location	Travel Time	Downstream foray
21-118	26-Apr-10	7:36:13 PM	Rowland Island West (Near-Field)	00-00:49:33	Tailrace to Rowland
21-118	28-Apr-10	8:05:14 PM	Conowingo Tailrace Unit 5 (Mid-Field)		Initial
21-118	28-Apr-10	11:27:10 PM	Spencer Island West (Near-Field)	00-03:21:56	Tailrace to Spencer
21-118	6-May-10	4:13:10 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-118	6-May-10	5:26:44 PM	Rowland Island West (Near-Field)	00-01:13:34	Tailrace to Rowland
21-118	6-May-10	5:26:44 PM	Rowland Island West (Near-Field)		
21-118	6-May-10	11:02:02 PM	Lapidum (West Shore) (Near-Field)	00-05:34:02	Rowland to Lapidum
21-128	22-Apr-10	1:35:00 PM	Conowingo Tailrace		Initial
21-128	22-Apr-10	1:55:06 PM	Rowland Island West (Near-Field)	00-00:20:06	Tailrace to Rowland
21-128	23-Apr-10	1:02:45 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-128	23-Apr-10	1:05:31 AM	Rowland Island West (Near-Field)	00-00:02:46	Tailrace to Rowland
21-128	23-Apr-10	5:02:28 PM	Rowland Island West (Near-Field)		Initial
21-128	23-Apr-10	8:36:00 PM	Spencer Island West (Near-Field)	00-03:33:32	Rowland to Lapidum
21-130	5-May-10	6:35:55 PM	Conowingo Tailrace Unit 7 (Mid-Field)		Initial
21-130	5-May-10	7:15:40 PM	Rowland Island West (Near-Field)	00-00:39:45	Tailrace to Rowland
21-130	6-May-10	12:35:52 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-130	6-May-10	12:51:40 PM	Rowland Island West (Near-Field)	00-00:15:48	Tailrace to Rowland
21-130	6-May-10	6:39:19 PM	Conowingo Tailrace Unit 8 (Mid-Field)		Initial
21-130	7-May-10	6:03:05 AM	Spencer Island West (Near-Field)	00-11:23:46	Tailrace to Spencer
21-130	10-May-10	7:28:55 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-130	10-May-10	7:37:06 AM	Rowland Island West (Near-Field)	00-00:08:11	Tailrace to Rowland
21-130	10-May-10	9:00:25 AM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-130	10-May-10	9:12:12 AM	Rowland Island West (Near-Field)	00-00:11:47	Tailrace to Rowland
21-130	10-May-10	11:55:17 AM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-130	10-May-10	12:24:00 PM	Rowland Island East (Near-Field)	00-00:28:43	Tailrace to Rowland
21-130	10-May-10	4:25:03 PM	Rowland Island West (Near-Field)		
21-130	11-May-10	1:48:31 AM	Spencer Island West (Near-Field)	00-09:23:28	Rowland to Spencer
21-133	28-Apr-10	9:53:49 AM	Conowingo Tailrace Unit 3 (Mid-Field)		Initial
21-133	28-Apr-10	9:59:15 AM	Rowland Island West (Near-Field)	00-00:03:11	Tailrace to Rowland
21-133	28-Apr-10	10:13:16 AM	Conowingo Tailrace Units 1-7 Master		
21-133	28-Apr-10	10:16:53 AM	Rowland Island West (Near-Field)	00-00:03:37	Tailrace to Rowland
21-133	28-Apr-10	10:54:31 AM	Conowingo Tailrace Unit 7 (Mid-Field)		Initial
21-133	28-Apr-10	11:22:53 AM	Tomes Landing (East Shore) (Near-Field)	00-00:28:22	Tailrace to Tomes Landing
21-137	10-May-10	7:23:12 PM	Conowingo Tailrace Unit 9 (Mid-Field)		Initial
21-137	10-May-10	8:51:50 PM	Rowland Island West (Near-Field)	00-01:28:38	Tailrace to Rowland
21-137	11-May-10	7:27:25 PM	Conowingo Tailrace Unit 3 (Mid-Field)		
21-137	12-May-10	5:51:23 AM	Rowland Island West (Near-Field)	00-10:23:58	Tailrace to Rowland
21-137	12-May-10	7:18:27 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-137	12-May-10	8:25:49 PM	Rowland Island West (Near-Field)	00-01:03:41	Tailrace to Rowland
21-137	13-May-10	6:04:15 AM	Rowland Island West (Near-Field)		Initial

Fish	Start Date	Start Time	Location	Travel Time	Downstream foray
21-137	13-May-10	6:36:24 PM	Spencer Island West (Near-Field)	00-12:28:13	Tailrace to Tomes Landing
21-145	10-May-10	5:15:00 PM	Conowingo Tailrace Unit 7 (Mid-Field)		Initial
21-145	10-May-10	5:28:42 PM	Rowland Island West (Near-Field)	00-00:13:42	Tailrace to Rowland
21-145	13-May-10	5:17:38 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-145	13-May-10	5:32:06 AM	Rowland Island West (Near-Field)	00-00:14:28	Tailrace to Rowland
21-145	13-May-10	7:20:12 PM	Conowingo Tailrace Unit 3 (Mid-Field)		Initial
21-145	17-May-10	12:02:22 AM	Spencer Island West (Near-Field)	03-04:42:10	Tailrace to Spencer
21-147	10-May-10	1:06:06 PM	Conowingo Tailrace Unit 5 (Mid-Field)		Initial
21-147	10-May-10	1:25:55 PM	Rowland Island West (Near-Field)	00-00:19:49	Tailrace to Rowland
21-147	10-May-10	5:59:06 PM	Rowland Island West (Near-Field)		Initial
21-147	10-May-10	7:41:32 PM	Spencer Island West (Near-Field)	00-01:42:26	Tailrace to Tomes Landing
21-147	14-May-10	5:54:51 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-147	14-May-10	6:01:48 PM	Rowland Island West (Near-Field)	00-00:06:57	Tailrace to Rowland
21-147	14-May-10	6:01:48 PM	Rowland Island West (Near-Field)		
21-147	14-May-10	8:31:43 PM	Spencer Island West (Near-Field)	00-02:27:33	Rowland to Spencer
21-147	17-May-10	8:45:38 AM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-147	17-May-10	9:57:38 AM	Rowland Island West (Near-Field)	00-01:12:00	Tailrace to Rowland
21-147	18-May-10	3:18:33 PM	Conowingo Tailrace Unit 9 (Mid-Field)		
21-147	18-May-10	3:57:42 PM	Rowland Island West (Near-Field)	00-00:39:09	Tailrace to Rowland
21-147	18-May-10	6:58:56 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-147	18-May-10	7:13:40 PM	Rowland Island West (Near-Field)	00-00:14:44	Tailrace to Rowland
21-147	18-May-10	7:13:40 PM	Rowland Island West (Near-Field)		
21-147	18-May-10	8:26:09 PM	Spencer Island West (Near-Field)	00-01:10:08	Rowland to Spencer
21-147	22-May-10	4:51:13 PM	Conowingo Tailrace Unit 8 (Mid-Field)		
21-147	22-May-10	5:16:36 PM	Rowland Island West (Near-Field)	00-00:23:32	Tailrace to Rowland
21-147	25-May-10	2:14:17 PM	Conowingo Tailrace Unit 3 (Mid-Field)		
21-147	25-May-10	9:17:40 PM	Rowland Island West (Near-Field)	00-07:03:23	Tailrace to Rowland
21-151	10-May-10	6:16:39 PM	Conowingo Tailrace Unit 5 (Mid-Field)		Initial
21-151	10-May-10	7:27:08 PM	Rowland Island West (Near-Field)	00-01:10:29	Tailrace to Rowland
21-151	10-May-10	7:27:08 PM	Rowland Island West (Near-Field)		initial
21-151	10-May-10	9:30:23 PM	Lapidum (West Shore) (Near-Field)	00-02:03:15	Rowland to Lapidum
21-151	17-May-10	3:03:26 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
21-151	17-May-10	11:23:03 PM	Spencer Island West (Near-Field)	00-08:19:37	Tailrace to Spencer
21-160	23-May-10	8:26:11 PM	Conowingo Tailrace Unit 7 (Mid-Field)		Initial
21-160	23-May-10	8:41:34 PM	Rowland Island West (Near-Field)	00-00:15:23	Tailrace to Rowland
21-160	24-May-10	6:19:34 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
21-160	24-May-10	7:01:01 PM	Rowland Island West (Near-Field)	00-00:41:27	Tailrace to Rowland
21-160	24-May-10	7:11:01 PM	Rowland Island West (Near-Field)		initial
21-160	24-May-10	10:22:18 PM	Tomes Landing (East Shore) (Near-Field)	00-03:05:41	Rowland to Lapidum
54-141	7-May-10	4:50:46 PM	Conowingo Tailrace Unit 7 (Mid-Field)		Initial

Fish	Start Date	Start Time	Location	Travel Time	Downstream foray
54-141	7-May-10	5:26:22 PM	Rowland Island East (Near-Field)	00-00:35:36	Tailrace to Rowland
54-141	7-May-10	8:29:34 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-141	7-May-10	8:39:09 PM	Rowland Island West (Near-Field)	00-00:09:35	Tailrace to Rowland
54-141	8-May-10	2:51:38 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-141	8-May-10	5:46:00 PM	Rowland Island West (Near-Field)	00-02:54:22	Tailrace to Rowland
54-141	8-May-10	8:25:07 PM	Conowingo Tailrace Unit 3 (Mid-Field)		
54-141	8-May-10	8:39:15 PM	Rowland Island West (Near-Field)	00-00:14:08	Tailrace to Rowland
54-141	8-May-10	8:39:47 PM	Rowland Island East (Near-Field)		initial
54-141	8-May-10	9:59:18 PM	Spencer Island West (Near-Field)	00-01:19:31	Rowland to Spencer
54-141	11-May-10	2:15:13 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-141	11-May-10	2:29:50 PM	Rowland Island West (Near-Field)	00-00:14:37	Tailrace to Rowland
54-141	11-May-10	6:49:22 PM	Conowingo Tailrace Unit 8 (Mid-Field)		
54-141	11-May-10	7:34:09 PM	Rowland Island West (Near-Field)	00-00:43:50	Tailrace to Rowland
54-141	12-May-10	1:37:12 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-141	12-May-10	1:58:43 PM	Rowland Island East (Near-Field)	00-00:21:31	Tailrace to Rowland
54-141	12-May-10	3:46:27 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-141	12-May-10	4:03:03 PM	Rowland Island West (Near-Field)	00-00:16:36	Tailrace to Rowland
54-141	12-May-10	6:00:01 PM	Conowingo Tailrace Unit 8 (Mid-Field)		
54-141	12-May-10	6:10:52 PM	Rowland Island West (Near-Field)	00-00:10:51	Tailrace to Rowland
54-141	13-May-10	3:21:53 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-141	13-May-10	3:50:52 AM	Rowland Island West (Near-Field)	00-00:28:59	Tailrace to Rowland
54-141	13-May-10	6:58:36 AM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-141	13-May-10	7:29:29 AM	Rowland Island West (Near-Field)	00-00:30:53	Tailrace to Rowland
54-141	13-May-10	7:57:16 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-141	13-May-10	8:43:50 PM	Rowland Island West (Near-Field)	00-00:46:34	Tailrace to Rowland
54-141	14-May-10	12:12:42 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-141	14-May-10	4:14:35 AM	Rowland Island West (Near-Field)	00-04:01:53	Tailrace to Rowland
54-141	14-May-10	5:55:35 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-141	14-May-10	7:39:20 PM	Spencer Island West (Near-Field)	00-01:43:45	Tailrace to Spencer
54-141	17-May-10	4:07:54 PM	Conowingo Tailrace Unit 1 (Mid-Field)		
54-141	17-May-10	8:21:48 PM	Rowland Island West (Near-Field)	00-04:13:54	Tailrace to Rowland
54-141	18-May-10	9:11:36 AM	Conowingo Tailrace Unit 3 (Mid-Field)		
54-141	18-May-10	9:50:48 AM	Rowland Island West (Near-Field)	00-00:39:12	Tailrace to Rowland
54-141	18-May-10	6:20:54 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-141	18-May-10	7:46:37 PM	Spencer Island West (Near-Field)	00-01:25:43	Tailrace to Spencer
54-144	7-May-10	1:10:00 PM	Conowingo Tailrace		Initial
54-144	7-May-10	2:27:55 PM	Rowland Island West (Near-Field)	00-01:17:55	Tailrace to Rowland
54-144	7-May-10	2:48:18 PM	Rowland Island East (Near-Field)		initial
54-144	8-May-10	4:32:58 PM	Lapidum (West Shore) (Near-Field)	01-01:44:40	Rowland to Lapidum
54-144	15-May-10	5:20:40 PM	Conowingo Tailrace Unit 5 (Mid-Field)		

Fish	Start Date	Start Time	Location	Travel Time	Downstream foray
54-144	15-May-10	5:21:01 PM	Rowland Island West (Near-Field)	00-00:00:21	Tailrace to Rowland
54-144	16-May-10	7:02:41 AM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-144	16-May-10	7:25:46 AM	Rowland Island West (Near-Field)	00-00:23:05	Tailrace to Rowland
54-144	17-May-10	3:03:06 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-144	17-May-10	3:23:02 PM	Rowland Island West (Near-Field)	00-00:19:56	Tailrace to Rowland
54-144	17-May-10	3:23:02 PM	Rowland Island West (Near-Field)		
54-144	17-May-10	5:17:07 PM	Spencer Island West (Near-Field)	00-01:50:05	Rowland to Spencer
54-172	7-May-10	11:16:29 AM	Conowingo Tailrace Unit 7 (Mid-Field)		Initial
54-172	7-May-10	11:42:24 AM	Rowland Island West (Near-Field)	00-00:25:55	Tailrace to Rowland
54-172	7-May-10	7:39:48 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-172	7-May-10	8:22:28 PM	Rowland Island West (Near-Field)	00-00:42:40	Tailrace to Rowland
54-172	7-May-10	8:29:33 PM	Rowland Island West (Near-Field)		initial
54-172	8-May-10	10:36:26 AM	Spencer Island West (Near-Field)	00-14:06:53	Rowland to Spencer
54-173	7-May-10	1:55:43 PM	Conowingo Tailrace Unit 7 (Mid-Field)		Initial
54-173	8-May-10	4:43:15 AM	Rowland Island West (Near-Field)	00-14:47:32	Tailrace to Rowland
54-173	8-May-10	10:36:48 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-173	8-May-10	12:51:37 PM	Rowland Island West (Near-Field)	00-02:13:36	Tailrace to Rowland
54-173	9-May-10	5:19:03 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-173	9-May-10	10:57:29 PM	Rowland Island West (Near-Field)	00-05:38:26	Tailrace to Rowland
54-173	10-May-10	2:36:30 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-173	10-May-10	2:51:24 PM	Rowland Island West (Near-Field)	00-00:14:54	Tailrace to Rowland
54-173	10-May-10	6:29:32 PM	Conowingo Tailrace Unit 10 (Mid-Field)		
54-173	10-May-10	10:32:50 PM	Rowland Island West (Near-Field)	00-04:03:18	Tailrace to Rowland
54-173	11-May-10	2:09:35 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-173	11-May-10	2:32:28 PM	Rowland Island West (Near-Field)	00-00:22:53	Tailrace to Rowland
54-173	11-May-10	2:32:28 PM	Rowland Island West (Near-Field)		initial
54-173	11-May-10	7:41:24 PM	Spencer Island West (Near-Field)	00-05:08:01	Rowland to Spencer
54-173	14-May-10	2:57:00 PM	Conowingo Tailrace Unit 3 (Mid-Field)		
54-173	14-May-10	4:45:30 PM	Rowland Island West (Near-Field)	00-01:48:30	Tailrace to Rowland
54-173	16-May-10	7:43:35 AM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-173	16-May-10	8:58:47 AM	Rowland Island West (Near-Field)	00-01:14:06	Tailrace to Rowland
54-173	16-May-10	3:17:20 PM	Rowland Island West (Near-Field)		
54-173	16-May-10	4:58:17 PM	Spencer Island West (Near-Field)	00-01:40:57	Rowland to Spencer
54-179	14-May-10	6:48:53 PM	Conowingo Tailrace Unit 10 (Mid-Field)		initial
54-179	16-May-10	9:53:17 PM	Spencer Island West (Near-Field)	02-03:04:24	Rowland to Spencer
54-183	20-May-10	5:07:27 PM	Conowingo Tailrace Unit 3 (Mid-Field)		initial
54-183	20-May-10	9:31:44 PM	Lapidum (West Shore) (Near-Field)	00-04:21:57	Tailrace to Lapidum
54-192	20-Apr-10	7:53:00 AM	Conowingo Tailrace		Initial
54-192	20-Apr-10	10:00:11 AM	Rowland Island East (Near-Field)	00-02:07:11	Tailrace to Rowland
54-192	20-Apr-10	4:17:13 PM	Conowingo East Spillway Corner (Near-Field)		



Fish	Start Date	Start Time	Location	Travel Time	Downstream foray
54-192	20-Apr-10	5:20:18 PM	Rowland Island East (Near-Field)	00-01:03:05	Tailrace to Rowland
54-192	20-Apr-10	5:28:27 PM	Rowland Island East (Near-Field)		initial
54-192	21-Apr-10	4:10:09 AM	Spencer Island East (Near-Field)	00-10:41:42	Rowland to Spencer
54-192	4-May-10	6:45:08 PM	Conowingo Tailrace Unit 1 (Mid-Field)		
54-192	4-May-10	7:02:52 PM	Rowland Island West (Near-Field)	00-00:17:44	Tailrace to Rowland
54-192	4-May-10	7:02:52 PM	Rowland Island West (Near-Field)		
54-192	4-May-10	9:29:43 PM	Lapidum (West Shore) (Near-Field)	00-02:21:00	Rowland to Lapidum
54-193	20-Apr-10	1:08:00 PM	Conowingo Tailrace		Initial
54-193	20-Apr-10	7:52:38 PM	Rowland Island West (Near-Field)	00-06:44:38	Tailrace to Rowland
54-193	20-Apr-10	7:58:19 PM	Rowland Island West (Near-Field)		initial
54-193	21-Apr-10	6:33:55 PM	Spencer Island West (Near-Field)	00-22:35:36	Rowland to Spencer
54-193	30-Apr-10	5:47:13 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-193	1-May-10	6:30:27 PM	Lapidum (West Shore) (Near-Field)	01-12:43:14	Tailrace to Lapidum
54-196-2	20-Apr-10	1:24:00 PM	Conowingo Tailrace		Initial
54-196-2	20-Apr-10	2:49:30 PM	Rowland Island West (Near-Field)	00-01:25:30	Tailrace to Rowland
54-196-2	20-Apr-10	3:44:01 PM	Rowland Island West (Near-Field)		initial
54-196-2	21-Apr-10	12:58:19 AM	Spencer Island West (Near-Field)	00-09:14:18	Rowland to Spencer
54-196-2	25-Apr-10	10:29:33 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-196-2	25-Apr-10	10:49:02 PM	Rowland Island West (Near-Field)	00-00:19:29	Tailrace to Rowland
54-196-2	26-Apr-10	5:03:33 AM	Conowingo Tailrace Unit 3 (Mid-Field)		
54-196-2	26-Apr-10	5:08:53 AM	Rowland Island West (Near-Field)	00-00:05:20	Tailrace to Rowland
54-196-2	26-Apr-10	8:25:39 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-196-2	26-Apr-10	8:46:03 AM	Rowland Island West (Near-Field)	00-00:20:24	Tailrace to Rowland
54-196-2	26-Apr-10	7:56:35 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-196-2	26-Apr-10	8:24:32 PM	Rowland Island West (Near-Field)	00-00:26:00	Tailrace to Rowland
54-196-2	27-Apr-10	4:17:54 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-196-2	27-Apr-10	4:27:24 PM	Rowland Island West (Near-Field)	00-00:09:30	Tailrace to Rowland
54-196-2	27-Apr-10	6:40:27 PM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-196-2	27-Apr-10	7:20:29 PM	Rowland Island West (Near-Field)	00-00:40:02	Tailrace to Rowland
54-196-2	30-Apr-10	5:22:40 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-196-2	30-Apr-10	8:12:56 PM	Rowland Island West (Near-Field)	00-02:50:16	Tailrace to Rowland
54-196-2	30-Apr-10	8:12:56 PM	Rowland Island West (Near-Field)		
54-196-2	30-Apr-10	9:31:23 PM	Spencer Island West (Near-Field)	00-01:15:28	Rowland to Spencer
54-196-2	4-May-10	11:58:57 PM	Conowingo Tailrace Unit 7 (Mid-Field)		
54-196-2	5-May-10	12:13:07 AM	Rowland Island West (Near-Field)	00-00:14:10	Tailrace to Rowland
54-196-2	5-May-10	6:14:20 AM	Conowingo Tailrace Unit 5 (Mid-Field)		
54-196-2	5-May-10	6:21:09 AM	Rowland Island West (Near-Field)	00-00:06:49	Tailrace to Rowland

**APPENDIX I: POST PASSAGE RE-ENTRY DATES AND TIMES INTO CONOWINGO  
TAILRACE, SPRING 2010.**

**Appendix I**

**Radio tagged shad presence on non-tailrace monitors by movement classifications, spring 2010.**

Fish	Release		Movement Classification	Lower River			Rowland Island	East Spillway Corner	
	Group	Location		Spencer	Lapidum	Tomes		Far-field	Near-field
54-191	R1	Downstream of "C" Gate	Passage Shad	yes	yes	yes	yes	no	no
54-194	R1	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	yes	no
54-197	R1	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	no	no
54-198	R1	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	yes	no
54-199	R1	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	no	no
54-201	R1	Downstream Units 5 & 7	Passage Shad	no	no	no	yes	no	no
54-202	R1	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	no	no
54-203	R1	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	yes	yes
54-204	R1	Downstream Units 5 & 7	Passage Shad	no	no	no	yes	no	no
54-207	R1	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	yes	yes
21-112	R2	Downstream of "C" Gate	Passage Shad	yes	yes	yes	yes	yes	yes
21-113	R2	Downstream of "C" Gate	Passage Shad	yes	yes	yes	yes	yes	no
21-114	R2	Downstream of "C" Gate	Passage Shad	yes	yes	yes	yes	yes	no
21-119	R2	Downstream Units 5 & 7	Passage Shad	no	no	no	yes	no	no
21-121	R2	Downstream Units 5 & 7	Passage Shad	yes	yes	no	yes	yes	no
21-122	R2	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	yes	no
21-123	R2	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	yes	no
21-124	R2	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	yes	no
21-127	R2	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	no	no
21-135	R2	Downstream Units 5 & 7	Passage Shad	yes	yes	yes	yes	no	no
21-132	R3	Lapidum Boat Launch	Passage Shad	yes	yes	no	yes	no	no
54-208	R3	Lapidum Boat Launch	Passage Shad	yes	yes	yes	yes	no	no
54-210	R3	Lapidum Boat Launch	Passage Shad	yes	yes	yes	yes	no	no
54-138	R4	Downstream of "C" Gate	Passage Shad	no	no	no	yes	no	no
54-140	R4	Downstream of "C" Gate	Passage Shad	yes	yes	yes	yes	no	no
54-142	R4	Downstream of "C" Gate	Passage Shad	yes	yes	no	yes	no	no
54-158	R4	Downstream of "C" Gate	Passage Shad	yes	no	no	yes	no	no
54-160	R4	Downstream of "C" Gate	Passage Shad	yes	yes	yes	yes	yes	yes
54-164	R4	Downstream of "C" Gate	Passage Shad	yes	yes	no	yes	no	no
54-168	R4	Between Units 3 & 5	Passage Shad	yes	yes	no	yes	no	no
54-169	R4	Between Units 3 & 5	Passage Shad	yes	yes	yes	yes	no	no
21-146	R5	Off of "A" Gate discharge	Passage Shad	no	no	no	yes	no	no
21-149	R5	Off of "A" Gate discharge	Passage Shad	yes	yes	no	yes	no	no
21-154	R5	Between Units 3 & 5	Passage Shad	no	no	no	yes	no	no
21-170	R5	Between Units 3 & 5	Passage Shad	yes	yes	yes	yes	no	no
21-174	R5	Between Units 7 & 8	Passage Shad	no	no	no	yes	no	no

Fish	Release		Movement Classification	Lower River			Rowland Island	East Spillway Corner	
	Group	Location		Spencer	Lapidum	Tomes		Far-field	Near-field
21-158	R6L	Lapidum Boat Launch	Passage Shad	yes	yes	yes	yes	no	no
21-169	R6L	Lapidum Boat Launch	Passage Shad	yes	yes	yes	yes	no	no
21-171	R6L	Lapidum Boat Launch	Passage Shad	yes	yes	no	yes	yes	yes
54-159	R6L	Lapidum Boat Launch	Passage Shad	yes	yes	no	yes	no	no
54-200-1	R1	Downstream Units 5 & 7	Non-Passage Shad (in EFL)	yes	yes	yes	yes	yes	no
21-100	R2	Downstream of "C" Gate	Non-Passage Shad (in EFL)	yes	yes	yes	yes	yes	no
21-104	R2	Downstream of "C" Gate	Non-Passage Shad (in EFL)	no	no	no	yes	no	no
21-109	R2	Downstream of "C" Gate	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
21-115	R2	Downstream Units 5 & 7	Non-Passage Shad (in EFL)	yes	yes	no	yes	yes	yes
21-116	R2	Downstream Units 5 & 7	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
21-120	R2	Downstream Units 5 & 7	Non-Passage Shad (in EFL)	yes	yes	yes	yes	yes	no
21-129	R2	Downstream Units 5 & 7	Non-Passage Shad (in EFL)	yes	yes	no	yes	yes	no
54-176	R3	Lapidum Boat Launch	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
54-178	R3	Lapidum Boat Launch	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
54-186	R3	Lapidum Boat Launch	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
54-209	R3	Lapidum Boat Launch	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
54-211	R3	Lapidum Boat Launch	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
54-137	R4	Between Units 3 & 5	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
54-149	R4	Downstream of "C" Gate	Non-Passage Shad (in EFL)	yes	yes	no	yes	no	no
54-151	R4	Downstream of "C" Gate	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
54-167	R4	Downstream of "C" Gate	Non-Passage Shad (in EFL)	yes	yes	yes	yes	yes	no
21-141	R5	Between Units 7 & 8	Non-Passage Shad (in EFL)	yes	yes	no	yes	no	no
21-142	R5	Off of "A" Gate discharge	Non-Passage Shad (in EFL)	yes	yes	no	yes	no	no
21-143	R5	Off of "A" Gate discharge	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
21-144	R5	Off of "A" Gate discharge	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
21-156	R5	Between Units 3 & 5	Non-Passage Shad (in EFL)	yes	yes	no	yes	yes	no
21-159	R6L	Lapidum Boat Launch	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
54-156	R6L	Lapidum Boat Launch	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
54-200-2	R6T	West Fish Lift Sorting Tank	Non-Passage Shad (in EFL)	yes	yes	yes	yes	no	no
54-192	R1	Downstream of "C" Gate	Non-EFL Shad (in Tailrace)	yes	yes	yes	yes	yes	no
54-193	R1	Downstream Units 5 & 7	Non-EFL Shad (in Tailrace)	yes	yes	yes	yes	no	no
54-196-1	R1	Downstream Units 5 & 7	Non-EFL Shad (in Tailrace)	yes	yes	yes	yes	no	no
21-101	R2	Downstream of "C" Gate	Non-EFL Shad (in Tailrace)	yes	yes	yes	yes	no	no
21-102	R2	Downstream of "C" Gate	Non-EFL Shad (in Tailrace)	no	no	no	yes	no	no
21-105	R2	Downstream of "C" Gate	Non-EFL Shad (in Tailrace)	yes	yes	no	yes	no	no
21-110	R2	Downstream of "C" Gate	Non-EFL Shad (in Tailrace)	yes	yes	no	yes	yes	no
21-111	R2	Downstream of "C" Gate	Non-EFL Shad (in Tailrace)	yes	yes	no	yes	yes	no
21-117	R2	Downstream Units 5 & 7	Non-EFL Shad (in Tailrace)	yes	yes	yes	yes	yes	yes
21-118	R2	Downstream Units 5 & 7	Non-EFL Shad (in Tailrace)	yes	yes	yes	yes	yes	no

Fish	Release		Movement Classification	Lower River			Rowland Island	East Spillway Corner	
	Group	Location		Spencer	Lapidum	Tomes		Far-field	Near-field
21-128	R2	Downstream Units 5 & 7	Non-EFL Shad (in Tailrace)	yes	yes	no	yes	no	no
21-130	R3	Lapidum Boat Launch	Non-EFL Shad (in Tailrace)	yes	yes	yes	yes	no	no
21-133	R3	Lapidum Boat Launch	Non-EFL Shad (in Tailrace)	yes	yes	yes	yes	no	no
54-179	R3	Lapidum Boat Launch	Non-EFL Shad (in Tailrace)	yes	yes	no	yes	no	no
54-183	R3	Lapidum Boat Launch	Non-EFL Shad (in Tailrace)	yes	yes	yes	yes	no	no
54-141	R4	Downstream of "C" Gate	Non-EFL Shad (in Tailrace)	yes	yes	no	yes	no	no
54-144	R4	Downstream of "C" Gate	Non-EFL Shad (in Tailrace)	yes	yes	no	yes	no	no
54-172	R4	Between Units 3 & 5	Non-EFL Shad (in Tailrace)	yes	yes	no	yes	no	no
54-173	R4	Between Units 3 & 5	Non-EFL Shad (in Tailrace)	yes	yes	no	yes	no	no
21-137	R5	Between Units 7 & 8	Non-EFL Shad (in Tailrace)	yes	yes	no	yes	no	no
21-145	R5	Off of "A" Gate discharge	Non-EFL Shad (in Tailrace)	yes	no	no	yes	no	no
21-147	R5	Off of "A" Gate discharge	Non-EFL Shad (in Tailrace)	yes	yes	yes	yes	no	no
21-151	R5	Between Units 3 & 5	Non-EFL Shad (in Tailrace)	yes	yes	no	yes	no	no
21-160	R6L	Lapidum Boat Launch	Non-EFL Shad (in Tailrace)	yes	yes	yes	yes	no	no
54-190	R1	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	no	yes	no	no
54-195	R1	Downstream Units 5 & 7	Non-Tailrace Shad	yes	yes	yes	yes	no	no
54-205	R1	Downstream Units 5 & 7	Non-Tailrace Shad	yes	yes	yes	yes	no	no
54-206	R1	Downstream Units 5 & 7	Non-Tailrace Shad	yes	yes	no	yes	no	no
21-103	R2	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	yes	yes	no	no
21-106	R2	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	no	yes	no	no
21-107	R2	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	yes	yes	no	no
21-108	R2	Downstream Units 5 & 7	Non-Tailrace Shad	yes	yes	yes	yes	yes	no
21-125	R2	Downstream Units 5 & 7	Non-Tailrace Shad	yes	yes	yes	yes	no	no
21-126	R2	Downstream Units 5 & 7	Non-Tailrace Shad	yes	no	yes	yes	no	no
21-136	R2	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	no	yes	no	no
21-131	R3	Lapidum Boat Launch	Non-Tailrace Shad	no	no	no	no	no	no
21-134	R3	Lapidum Boat Launch	Non-Tailrace Shad	yes	yes	yes	yes	no	no
54-174	R3	Lapidum Boat Launch	Non-Tailrace Shad	no	no	yes	no	no	no
54-175	R3	Lapidum Boat Launch	Non-Tailrace Shad	no	no	no	no	no	no
54-177	R3	Lapidum Boat Launch	Non-Tailrace Shad	no	no	yes	no	no	no
54-180	R3	Lapidum Boat Launch	Non-Tailrace Shad	no	no	no	no	no	no
54-181	R3	Lapidum Boat Launch	Non-Tailrace Shad	no	no	no	no	no	no
54-182	R3	Lapidum Boat Launch	Non-Tailrace Shad	no	no	yes	no	no	no
54-184	R3	Lapidum Boat Launch	Non-Tailrace Shad	no	yes	no	no	no	no
54-185	R3	Lapidum Boat Launch	Non-Tailrace Shad	yes	yes	yes	no	no	no
54-187	R3	Lapidum Boat Launch	Non-Tailrace Shad	no	no	no	no	no	no
54-188	R3	Lapidum Boat Launch	Non-Tailrace Shad	no	no	yes	no	no	no
54-189	R3	Lapidum Boat Launch	Non-Tailrace Shad	no	no	no	no	no	no
54-135	R4	Downstream of "C" Gate	Non-Tailrace Shad	no	no	no	no	no	no



Fish	Release		Movement Classification	Lower River			Rowland Island	East Spillway Corner	
	Group	Location		Spencer	Lapidum	Tomes		Far-field	Near-field
54-136	R4	Between Units 3 & 5	Non-Tailrace Shad	yes	yes	no	yes	no	no
54-139	R4	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	yes	yes	no	no
54-145	R4	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	no	yes	no	no
54-148	R4	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	no	yes	no	no
54-150	R4	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	no	yes	no	no
54-152	R4	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	yes	yes	no	no
54-153	R4	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	no	yes	no	no
54-166	R4	Downstream of "C" Gate	Non-Tailrace Shad	yes	yes	no	yes	no	no
54-170	R4	Between Units 3 & 5	Non-Tailrace Shad	yes	yes	no	yes	no	no
54-171	R4	Between Units 3 & 5	Non-Tailrace Shad	yes	yes	yes	yes	no	no
21-138	R5	Between Units 7 & 8	Non-Tailrace Shad	yes	yes	no	yes	no	no
21-139	R5	Between Units 7 & 8	Non-Tailrace Shad	no	no	no	yes	no	no
21-140	R5	Between Units 7 & 8	Non-Tailrace Shad	yes	yes	no	yes	no	no
21-148	R5	Between Units 3 & 5	Non-Tailrace Shad	yes	yes	no	yes	no	no
21-150	R5	Between Units 3 & 5	Non-Tailrace Shad	yes	yes	no	yes	no	no
21-152	R5	Between Units 3 & 5	Non-Tailrace Shad	yes	yes	no	yes	no	no
21-153	R5	Between Units 3 & 5	Non-Tailrace Shad	yes	yes	yes	yes	no	no
21-155	R5	Between Units 3 & 5	Non-Tailrace Shad	yes	yes	no	yes	no	no
21-173	R5	Off of "A" Gate discharge	Non-Tailrace Shad	yes	yes	no	yes	no	no
54-147	R6	Lapidum Boat Launch	Non-Tailrace Shad	yes	yes	no	no	no	no
21-157	R6L	Lapidum Boat Launch	Non-Tailrace Shad	yes	yes	no	no	no	no
21-161	R6L	Lapidum Boat Launch	Non-Tailrace Shad	yes	yes	no	no	no	no
21-162	R6L	Lapidum Boat Launch	Non-Tailrace Shad	yes	yes	no	no	no	no
21-163	R6L	Lapidum Boat Launch	Non-Tailrace Shad	yes	no	no	no	no	no
21-164	R6L	Lapidum Boat Launch	Non-Tailrace Shad	no	yes	no	no	no	no
21-165	R6L	Lapidum Boat Launch	Non-Tailrace Shad	yes	yes	yes	no	no	no
21-166	R6L	Lapidum Boat Launch	Non-Tailrace Shad	yes	yes	no	no	no	no
21-168	R6L	Lapidum Boat Launch	Non-Tailrace Shad	no	yes	no	no	no	no
21-172	R6L	Lapidum Boat Launch	Non-Tailrace Shad	no	yes	no	no	no	no
54-154	R6L	Lapidum Boat Launch	Non-Tailrace Shad	no	yes	no	no	no	no
54-155	R6L	Lapidum Boat Launch	Non-Tailrace Shad	no	no	no	no	no	no
54-157	R6L	Lapidum Boat Launch	Non-Tailrace Shad	no	no	no	no	no	no
54-161	R6L	Lapidum Boat Launch	Non-Tailrace Shad	yes	yes	no	no	no	no
54-162	R6L	Lapidum Boat Launch	Non-Tailrace Shad	no	yes	no	no	no	no
54-163	R6L	Lapidum Boat Launch	Non-Tailrace Shad	yes	yes	yes	no	no	no
54-165	R6L	Lapidum Boat Launch	Non-Tailrace Shad	yes	yes	no	no	no	no
54-196-2	R6T	West Fish Lift Sorting Tank	Non-Tailrace Shad	yes	yes	yes	yes	no	no

**APPENDIX J: LAST DETECTION AND PRIOR MOVEMENT OF RADIO TAGGED SHAD,  
SPRING 2010.**

## Appendix J

Last detection and prior movement of radio tagged shad, spring 2010.

Fish	Release			Movement Classification	Last Detection		
	Group	Date and Time	Location		Location	Prior movement or action	Date and Time
54-191	R1	04/20/10 10:24:00 AM	Downstream of "C" Gate	Passage Shad	Holtwood	Unknown direction	07/22/10 15:30:00
54-194	R1	04/20/10 01:09:00 PM	Downstream Units 5 & 7	Passage Shad	Tag stationary in Tailrace Downstream Unit 5	Through Conowingo Dam	07/05/10 09:54:00
54-197	R1	04/20/10 01:29:00 PM	Downstream Units 5 & 7	Passage Shad	Conowingo EFL Exit Trough	Conowingo Fishway Exit Trough	05/03/10 10:20:17
54-198	R1	04/20/10 01:36:00 PM	Downstream Units 5 & 7	Passage Shad	Lapidum (West Shore) (Near-Field)	Downstream from East Spencer	05/30/10 18:36:42
54-199	R1	04/20/10 01:52:00 PM	Downstream Units 5 & 7	Passage Shad	Lapidum (West Shore) (Near-Field)	Downstream from Tailrace	05/23/10 13:45:47
54-201	R1	04/20/10 02:08:00 PM	Downstream Units 5 & 7	Passage Shad	Lapidum (West Shore) (Near-Field)	Downstream from Rowland	05/24/10 21:24:16
54-202	R1	04/20/10 02:12:00 PM	Downstream Units 5 & 7	Passage Shad	Spencer Island West (Near-Field)	Downstream from Tailrace	06/11/10 15:14:29
54-203	R1	04/20/10 02:16:00 PM	Downstream Units 5 & 7	Passage Shad	Lapidum (West Shore) (Near-Field)	Downstream from Tailrace	05/24/10 23:08:02
54-204	R1	04/20/10 02:20:00 PM	Downstream Units 5 & 7	Passage Shad	Conowingo EFL Exit Trough	Conowingo Fishway Exit Trough	05/03/10 10:13:20
54-207	R1	04/20/10 02:41:00 PM	Downstream Units 5 & 7	Passage Shad	Lapidum (West Shore) (Near-Field)	Downstream from East Spencer	06/01/10 16:48:41
21-112	R2	04/22/10 11:44:00 AM	Downstream of "C" Gate	Passage Shad	Lapidum (West Shore) (Near-Field)	Downstream from East Spencer	06/03/10 02:55:05
21-113	R2	04/22/10 11:51:00 AM	Downstream of "C" Gate	Passage Shad	Tomes Landing (East Shore) (Near-Field)	Downstream from East Spencer	05/31/10 21:20:44
21-114	R2	04/22/10 12:03:00 PM	Downstream of "C" Gate	Passage Shad	Spencer Island West (Near-Field)	Milling about Spencer	05/28/10 17:33:39
21-119	R2	04/22/10 01:02:00 PM	Downstream Units 5 & 7	Passage Shad	Conowingo EFL Exit Trough	Conowingo Fishway Exit Trough	05/07/10 18:13:15
21-121	R2	04/22/10 01:11:00 PM	Downstream Units 5 & 7	Passage Shad	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/12/10 23:44:23
21-122	R2	04/22/10 01:20:00 PM	Downstream Units 5 & 7	Passage Shad	Tomes Landing (East Shore) (Near-Field)	Downstream from Tailrace	05/31/10 17:46:00
21-123	R2	04/22/10 01:21:00 PM	Downstream Units 5 & 7	Passage Shad	Conowingo Tailrace Unit 5 (Mid-Field)	Through Conowingo Dam	06/03/10 22:28:57
21-124	R2	04/22/10 01:26:00 PM	Downstream Units 5 & 7	Passage Shad	Conowingo Tailrace Unit 5 (Mid-Field)	Milling about Tailrace	06/24/10 05:14:18
21-127	R2	04/22/10 01:34:00 PM	Downstream Units 5 & 7	Passage Shad	Rowland Island West (Near-Field)	Milling about Rowland Island	07/20/10 14:41:05
21-135	R2	04/22/10 12:56:00 PM	Downstream Units 5 & 7	Passage Shad	Spencer Island West (Near-Field)	Downstream from Rowland	05/28/10 17:37:18
21-132	R3	04/28/10 11:35:00 AM	Lapidum Boat Launch	Passage Shad	Conowingo Tailrace Unit 7 (Mid-Field)	Milling about Tailrace	05/23/10 16:45:00
54-208	R3	04/28/10 11:35:00 AM	Lapidum Boat Launch	Passage Shad	Tag stationary (west Bird Is) Upstream Fish Pot Falls	Unknown direction	07/16/10 10:30:00
54-210	R3	04/28/10 11:35:00 AM	Lapidum Boat Launch	Passage Shad	Conowingo EFL Exit Trough	Conowingo Fishway Exit Trough	05/12/10 17:25:44
54-138	R4	05/07/10 12:05:00 PM	Downstream of "C" Gate	Passage Shad	Downstream of Norman Wood Bridge	Unknown direction	05/21/10 11:40:00
54-140	R4	05/07/10 12:55:00 PM	Downstream of "C" Gate	Passage Shad	Conowingo EFL Exit Trough	Conowingo Fishway Exit Trough	05/22/10 16:00:39
54-142	R4	05/07/10 12:09:00 PM	Downstream of "C" Gate	Passage Shad	Tag stationary Downstream of PBAPS	Downstream from Sicily Is	07/02/10 12:30:00
54-158	R4	05/07/10 02:03:00 PM	Downstream of "C" Gate	Passage Shad	Downstream York Haven	Unknown direction	07/29/10 10:21:00
54-160	R4	05/07/10 01:33:00 PM	Downstream of "C" Gate	Passage Shad	Just Downstream MRPSS	Downstream from Holtwood	05/28/10 14:34:00
54-164	R4	05/07/10 01:28:00 PM	Downstream of "C" Gate	Passage Shad	Holtwood	Unknown direction	07/02/10 15:40:00
54-168	R4	05/07/10 10:15:00 AM	Between Units 3 & 5	Passage Shad	Lapidum (West Shore) (Near-Field)	Downstream from East Spencer	06/01/10 19:45:09
54-169	R4	05/07/10 10:33:00 AM	Between Units 3 & 5	Passage Shad	Conowingo EFL Exit Trough	Conowingo Fishway Exit Trough	05/23/10 16:07:50
21-146	R5	05/10/10 12:36:00 PM	Off of "A" Gate discharge	Passage Shad	Downstream of Sicily Island	Downstream from Wissler's Run	06/03/10 12:35:00
21-149	R5	05/10/10 12:34:00 PM	Off of "A" Gate discharge	Passage Shad	(Recovered Tag Only) Upstream Reuben Island	Unknown direction	06/21/10 14:15:00
21-154	R5	05/10/10 05:14:00 PM	Between Units 3 & 5	Passage Shad	Downstream of Sicily Island	Unknown direction	06/03/10 09:35:00
21-170	R5	05/10/10 03:05:00 PM	Between Units 3 & 5	Passage Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	06/24/10 02:04:13
21-174	R5	05/10/10 11:17:00 AM	Between Units 7 & 8	Passage Shad	Conowingo Tailrace Unit 5 (Mid-Field)	Milling about Tailrace	06/24/10 09:45:55
21-158	R6L	05/12/10 11:40:00 AM	Lapidum Boat Launch	Passage Shad	Conowingo EFL Exit Trough	Conowingo Fishway Exit Trough	05/22/10 08:22:53
21-169	R6L	05/12/10 11:40:00 AM	Lapidum Boat Launch	Passage Shad	Upstream of Safe Harbor Dam	Unknown direction	06/24/10 11:07:00
21-171	R6L	05/12/10 11:40:00 AM	Lapidum Boat Launch	Passage Shad	Tag stationary off Upstream tip of Rowland Is.	Milling about Tailrace	06/21/10 12:40:00
54-159	R6L	05/12/10 11:40:00 AM	Lapidum Boat Launch	Passage Shad	Upstream Conowingo Dam, Downstream of PBAPS	Unknown direction	06/18/10 13:00:00
54-200-1	R1	04/20/10 01:54:00 PM	Downstream Units 5 & 7	Non-Passage Shad (In EFL)	Died in Conowingo EFL Exit Trough	Milling about Tailrace	05/08/10 10:31:23
21-100	R2	04/22/10 10:36:00 AM	Downstream of "C" Gate	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	East from Tomes Landing	04/28/10 10:42:00
21-104	R2	04/22/10 11:06:00 AM	Downstream of "C" Gate	Non-Passage Shad (In EFL)	Rowland Island West (Near-Field)	Milling about Rowland	05/11/10 05:00:52
21-109	R2	04/22/10 11:34:00 AM	Downstream of "C" Gate	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	06/04/10 09:51:57
21-115	R2	04/22/10 12:10:00 PM	Downstream Units 5 & 7	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/12/10 20:19:45
21-116	R2	04/22/10 12:34:00 PM	Downstream Units 5 & 7	Non-Passage Shad (In EFL)	Tomes Landing (East Shore) (Near-Field)	Downstream from Rowland	05/05/10 19:13:24
21-120	R2	04/22/10 01:10:00 PM	Downstream Units 5 & 7	Non-Passage Shad (In EFL)	Conowingo Tailrace Unit 7 (Mid-Field)	Milling about Tailrace	05/10/10 13:32:42
21-129	R2	04/22/10 01:37:00 PM	Downstream Units 5 & 7	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/24/10 00:08:27
54-176	R3	04/28/10 11:35:00 AM	Lapidum Boat Launch	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from East Spencer	05/31/10 22:43:35
54-178	R3	04/28/10 11:35:00 AM	Lapidum Boat Launch	Non-Passage Shad (In EFL)	Spencer Island West (Near-Field)	Downstream from Rowland	05/25/10 09:11:01
54-186	R3	04/28/10 11:35:00 AM	Lapidum Boat Launch	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/18/10 21:46:37
54-209	R3	04/28/10 11:35:00 AM	Lapidum Boat Launch	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	06/03/10 14:47:46
54-211	R3	04/28/10 11:35:00 AM	Lapidum Boat Launch	Non-Passage Shad (In EFL)	Rowland Island West (Near-Field)	Downstream from Tailrace	06/01/10 14:00:51

Fish	Release			Movement Classification	Last Detection		
	Group	Date and Time	Location		Location	Prior movement or action	Date and Time
54-137	R4	05/07/10 11:16:00 AM	Between Units 3 & 5	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from Tailrace	05/21/10 21:33:15
54-149	R4	05/07/10 03:20:00 PM	Downstream of "C" Gate	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from Rowland	05/26/10 18:00:02
54-151	R4	05/07/10 04:14:00 PM	Downstream of "C" Gate	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/26/10 01:43:03
54-167	R4	05/07/10 01:26:00 PM	Downstream of "C" Gate	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from East Spencer	05/29/10 19:17:31
21-141	R5	05/10/10 11:02:00 AM	Between Units 7 & 8	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	06/02/10 19:51:12
21-142	R5	05/10/10 11:45:00 AM	Off of "A" Gate discharge	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from East Spencer	05/31/10 04:03:38
21-143	R5	05/10/10 12:00:00 PM	Off of "A" Gate discharge	Non-Passage Shad (In EFL)	Conowingo East Spillway Corner (Far-Field)	West from Tailrace	05/09/10 04:57:01
21-144	R5	05/10/10 12:08:00 PM	Off of "A" Gate discharge	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/31/10 01:16:34
21-156	R5	05/10/10 05:30:00 PM	Between Units 3 & 5	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from East Spencer	05/02/10 17:29:23
21-159	R6L	05/12/10 11:40:00 AM	Lapidum Boat Launch	Non-Passage Shad (In EFL)	Tomes Landing (East Shore) (Near-Field)	Milling about Tomes Landing	05/30/10 12:50:57
54-156	R6L	05/12/10 11:40:00 AM	Lapidum Boat Launch	Non-Passage Shad (In EFL)	Tomes Landing (East Shore) (Near-Field)	Downstream from Tailrace	05/18/10 07:14:33
54-200-2	R6T	05/12/10 11:00:00 AM	West Fish Lift Sorting Tank	Non-Passage Shad (In EFL)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/25/10 19:09:54
54-192	R1	04/20/10 07:53:00 AM	Downstream of "C" Gate	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/20/10 08:09:42
54-193	R1	04/20/10 01:08:00 PM	Downstream Units 5 & 7	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/09/10 08:36:04
54-196-1	R1	04/20/10 01:24:00 PM	Downstream Units 5 & 7	Non-EFL Shad (In Tailrace)	Fish Caught in West Fish Lift	Milling about Tailrace	05/08/10 00:44:33
21-101	R2	04/22/10 10:47:00 AM	Downstream of "C" Gate	Non-EFL Shad (In Tailrace)	Conowingo Tailrace Unit 1 (Mid-Field)	Milling about Tailrace	05/04/10 06:56:20
21-102	R2	04/22/10 10:55:00 AM	Downstream of "C" Gate	Non-EFL Shad (In Tailrace)	Conowingo Tailrace Unit 5 (Mid-Field)	Milling about Tailrace	05/20/10 15:08:24
21-105	R2	04/22/10 11:26:00 AM	Downstream of "C" Gate	Non-EFL Shad (In Tailrace)	Spencer Island West (Near-Field)	Milling about Spencer	06/11/10 01:21:18
21-110	R2	04/22/10 11:35:00 AM	Downstream of "C" Gate	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/16/10 14:22:11
21-111	R2	04/22/10 11:38:00 AM	Downstream of "C" Gate	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	04/23/10 20:56:19
21-117	R2	04/22/10 12:37:00 PM	Downstream Units 5 & 7	Non-EFL Shad (In Tailrace)	Conowingo Tailrace Unit 5 (Mid-Field)	Milling about Tailrace	05/16/10 01:30:44
21-118	R2	04/22/10 01:00:00 PM	Downstream Units 5 & 7	Non-EFL Shad (In Tailrace)	Rowland Island West (Near-Field)	Milling about Rowland	05/08/10 20:02:19
21-128	R2	04/22/10 01:35:00 PM	Downstream Units 5 & 7	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/13/10 18:55:53
21-130	R3	04/28/10 11:35:00 AM	Lapidum Boat Launch	Non-EFL Shad (In Tailrace)	Tomes Landing (East Shore) (Near-Field)	East from Lapidum	05/17/10 00:07:18
21-133	R3	04/22/10 11:35:00 AM	Lapidum Boat Launch	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/26/10 00:35:36
54-179	R3	04/28/10 11:35:00 AM	Lapidum Boat Launch	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/18/10 02:21:32
54-183	R3	04/28/10 11:35:00 AM	Lapidum Boat Launch	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Downstream from East Spencer	05/24/10 22:31:39
54-141	R4	05/07/10 12:41:00 PM	Downstream of "C" Gate	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/18/10 19:57:41
54-144	R4	05/07/10 01:10:00 PM	Downstream of "C" Gate	Non-EFL Shad (In Tailrace)	Spencer Island West (Near-Field)	Downstream from Rowland	05/17/10 17:17:07
54-172	R4	05/07/10 09:28:00 AM	Between Units 3 & 5	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/08/10 10:59:41
54-173	R4	05/07/10 09:34:00 AM	Between Units 3 & 5	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/16/10 17:10:15
21-137	R5	05/10/10 10:29:00 AM	Between Units 7 & 8	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/16/10 22:11:51
21-145	R5	05/10/10 12:12:00 PM	Off of "A" Gate discharge	Non-EFL Shad (In Tailrace)	Spencer Island West (Near-Field)	Downstream from Rowland	05/30/10 21:32:22
21-147	R5	05/10/10 12:54:00 PM	Off of "A" Gate discharge	Non-EFL Shad (In Tailrace)	Rowland Island West (Near-Field)	Milling about Rowland	05/09/10 04:59:21
21-151	R5	05/10/10 02:54:00 PM	Between Units 3 & 5	Non-EFL Shad (In Tailrace)	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/02/10 01:51:35
21-160	R6L	05/12/10 11:40:00 AM	Lapidum Boat Launch	Non-EFL Shad (In Tailrace)	Tomes Landing (East Shore) (Near-Field)	Downstream from Rowland	05/05/10 09:59:46
54-190	R1	4/20/2010 10:11:00 AM	Downstream of "C" Gate	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	04/20/10 20:32:23
54-195	R1	4/20/2010 1:15:00 PM	Downstream Units 5 & 7	Non-Tailrace Shad	Spencer Island East (Near-Field)	Milling about Spencer	04/22/10 04:38:19
54-205	R1	4/20/2010 2:30:00 PM	Downstream Units 5 & 7	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/23/10 01:23:53
54-206	R1	4/20/2010 2:35:00 PM	Downstream Units 5 & 7	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	04/27/10 05:46:29
21-103	R2	4/22/2010 11:00:00 AM	Downstream of "C" Gate	Non-Tailrace Shad	Spencer Island West (Near-Field)	Milling about Spencer	04/27/10 05:40:48
21-106	R2	4/22/2010 11:29:00 AM	Downstream of "C" Gate	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	04/22/10 19:57:28
21-107	R2	4/22/2010 11:34:00 AM	Downstream of "C" Gate	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/12/10 04:20:55
21-108	R2	4/22/2010 12:45:00 PM	Downstream Units 5 & 7	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	04/28/10 04:30:14
21-125	R2	4/22/2010 1:28:00 PM	Downstream Units 5 & 7	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/05/10 05:09:06
21-126	R2	4/22/2010 1:31:00 PM	Downstream Units 5 & 7	Non-Tailrace Shad	Tomes Landing (East Shore) (Near-Field)	Downstream from Rowland	04/24/10 02:16:12
21-136	R2	4/22/2010 11:22:00 AM	Downstream of "C" Gate	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Downstream from East Spencer	04/23/10 01:20:48
21-131	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Release at Lapidum Boat Launch	Presumed to have moved Downstream	04/28/10 11:35:00
21-134	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/15/10 23:19:52
54-174	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Tomes Landing (East Shore) (Near-Field)	East from Lapidum Boat Launch	04/28/10 11:37:15
54-175	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Release at Lapidum Boat Launch	Presumed to have moved Downstream	04/28/10 11:35:00
54-177	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Tomes Landing (East Shore) (Near-Field)	East from Lapidum Boat Launch	04/28/10 11:42:05
54-180	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Release at Lapidum Boat Launch	Presumed to have moved Downstream	04/28/10 11:35:00
54-181	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Release at Lapidum Boat Launch	Presumed to have moved Downstream	04/28/10 11:35:00
54-182	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Tomes Landing (East Shore) (Near-Field)	Milling about Tomes Landing	04/28/10 15:03:01
54-184	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	04/28/10 13:36:53

Fish	Release			Movement Classification	Last Detection		
	Group	Date and Time	Location		Location	Prior movement or action	Date and Time
54-185	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/10/10 11:32:30
54-187	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Release at Lapidum Boat Launch	Presumed to have moved Downstream	04/28/10 11:35:00
54-188	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Tomes Landing (East Shore) (Near-Field)	Milling about Tomes Landing	04/30/10 14:31:57
54-189	R3	4/28/2010 11:35:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Release at Lapidum Boat Launch	Presumed to have moved Downstream	04/28/10 11:35:00
54-135	R4	5/7/2010 11:39:00 AM	Downstream of "C" Gate	Non-Tailrace Shad	Conowingo Tailrace Unit 5 (Mid-Field)	Milling about Tailrace	05/10/10 13:47:32
54-136	R4	5/7/2010 11:28:00 AM	Between Units 3 & 5	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/08/10 15:43:23
54-139	R4	5/7/2010 11:44:00 AM	Downstream of "C" Gate	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/08/10 19:29:31
54-145	R4	5/7/2010 3:45:00 PM	Downstream of "C" Gate	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/13/10 15:56:07
54-148	R4	5/7/2010 3:27:00 PM	Downstream of "C" Gate	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/07/10 18:23:13
54-150	R4	5/7/2010 3:20:00 PM	Downstream of "C" Gate	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/15/10 01:25:11
54-152	R4	5/7/2010 8:02:00 PM	Downstream of "C" Gate	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/08/10 18:29:47
54-153	R4	5/7/2010 5:13:00 PM	Downstream of "C" Gate	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/10/10 15:38:12
54-166	R4	5/7/2010 3:03:00 PM	Downstream of "C" Gate	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/07/10 21:48:25
54-170	R4	5/7/2010 10:55:00 AM	Between Units 3 & 5	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/18/10 05:03:55
54-171	R4	5/7/2010 10:13:00 AM	Between Units 3 & 5	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/14/10 15:43:22
21-138	R5	5/10/2010 10:44:00 AM	Between Units 7 & 8	Non-Tailrace Shad	Spencer Island West (Near-Field)	Milling about Spencer	05/13/10 05:56:11
21-139	R5	5/10/2010 10:52:00 AM	Between Units 7 & 8	Non-Tailrace Shad	Rowland Island West (Near-Field)	Milling about Rowland	05/10/10 19:18:23
21-140	R5	5/10/2010 10:55:00 AM	Between Units 7 & 8	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/20/10 21:35:26
21-148	R5	5/10/2010 2:22:00 PM	Between Units 3 & 5	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/10/10 22:35:31
21-150	R5	5/10/2010 2:35:00 PM	Between Units 3 & 5	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/11/10 19:49:09
21-152	R5	5/10/2010 4:14:00 PM	Between Units 3 & 5	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/11/10 00:29:33
21-153	R5	5/10/2010 4:24:00 PM	Between Units 3 & 5	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/10/10 20:19:22
21-155	R5	5/10/2010 5:21:00 PM	Between Units 3 & 5	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/11/10 01:56:45
21-173	R5	5/10/2010 12:33:00 PM	Off of "A" Gate discharge	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/18/10 10:41:08
21-157	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Spencer Island West (Near-Field)	Upstream from Lapidum	05/17/10 03:42:18
21-161	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Spencer Island West (Near-Field)	Upstream from Lapidum	05/12/10 15:34:22
21-162	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/12/10 19:45:06
21-163	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Spencer Island West (Near-Field)	Upstream from Lapidum Boat Launch	05/12/10 11:47:49
21-164	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/12/10 15:50:56
21-165	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Tomes Landing (East Shore) (Near-Field)	West from Lapidum	05/21/10 06:02:26
21-166	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Spencer Island West (Near-Field)	Upstream from Lapidum	05/12/10 12:31:43
21-168	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/12/10 19:07:19
21-172	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/12/10 13:58:58
54-147	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	West Channel, Robert Island	Upstream from Lapidum	05/13/10 19:35:00
54-154	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/12/10 13:24:49
54-155	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Release at Lapidum Boat Launch	Presumed to have moved Downstream	05/12/10 11:40:00
54-157	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Release at Lapidum Boat Launch	Presumed to have moved Downstream	05/12/10 11:40:00
54-161	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/12/10 13:48:34
54-162	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/12/10 13:46:35
54-163	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	06/03/10 01:11:01
54-165	R6L	5/12/2010 11:40:00 AM	Lapidum Boat Launch	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Downstream from West Spencer	05/12/10 19:25:36
54-196-2	R6T	5/12/2010 11:00:00 AM	West Fish Lift Sorting Tank	Non-Tailrace Shad	Lapidum (West Shore) (Near-Field)	Milling about Lapidum	05/30/10 12:13:41